

Prepared for

Honeywell

HEALTH, SAFETY, ENVIRONMENTAL, PRODUCT STEWARDSHIP AND SUSTAINABILITY

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February 2022

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EXECUTIVE SUMMARY

This report presents the findings and conclusions of the Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI) conducted at the Honeywell Delaware Valley Works (DVW) in Claymont, Delaware (the Site). The RFI was conducted pursuant to the Section 3008(h) Administrative Order on Consent (Docket no. RCRA-03-2011-025CA) dated September 14, 2011. The Site (referred to as the North Plant) is comprised of several parcels totaling 49.49 acres located between Route 13 (Philadelphia Pike) on the south and the Amtrak right-of-way to the north. The property is roughly triangular in shape and straddles the Pennsylvania – Delaware state line, with two-thirds of the property located within Pennsylvania. The Site is bordered to the east by Braskem. The North Plant Site also includes Solid Waste Management Unit (SWMU) 9, a separate 14.56-acre parcel located approximately 2,000 feet to the south of Route 13 along the Delaware River.

The RFI objectives were based upon a Corrective Action (CA) Framework Technical Memorandum dated March 31, 2014 and through key agreements¹ between the U.S. Environmental Protection Agency (USEPA) and Honeywell to align the path forward at the Site with the objectives of USEPA's RCRA Lean Process. The work scope was described in the 2015 Phase III RFI Work Plan approved by EPA on July 7, 2015. The key objectives of the RFI included: 1. Delineation of the extent of waste and the release of hazardous constituents at SWMUs and AOCs; 2. Evaluation of human health and environmental risk to support selection of corrective measures; and, 3. Collection of groundwater data necessary to support a groundwater environmental indicator (EI) status of "Yes".

There are 13 SWMUs and two (2) Areas of Concern (AOCs) located on the DVW and one SWMU (SWMU 9) located on the separate parcel that are the subject of the RFI and which have been the subjects of the following investigations from 2002 through 2020:

- Soil sampling at SWMUs 16 and 23 in November 2002;
- Soil sampling at SWMUs 21,22, and 30 and SWMU 27 in December 2002;
- A Phase I RFI that consisted of test pits, soil sampling, and grab groundwater sampling at SWMUs 13, 14, 15, 17, 18, 19, and 20 in April 2003 and grab groundwater sampling at SWMU 9 in June 2003; groundwater sampling from existing monitoring wells in February 2003; and groundwater sampling from existing monitoring wells in July 2003;
- A Phase II RFI that consisted of soil sampling at SWMUs 13, 14, 15, 16, 19, and 20 in November 2004 and groundwater sampling from existing monitoring wells in December 2004;
- Test pits and soil sampling at SWMU AOC16 NP in 2009;
- Groundwater sampling from existing monitoring wells at SWMU 9 in July 2010;
- Groundwater sampling from existing monitoring wells at SWMU 9 in November 2016;

¹ Meeting Summary from August 28, 2014 meeting between USEPA and Honeywell

- Post-excavation soil sampling at SWMU 18 following an interim remedial measure (IRM) in April 2014;
- A Phase III RFI that consisted of soil sampling and monitoring well installation at SWMUs 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 27, and 30 and AOC16 NP from July through September 2015; a geotechnical investigation at SWMU 9 in July 2015; and groundwater sampling from existing monitoring wells in September/October 2015;
- A geotechnical investigation at SWMU 9 in August 2018, including the installation of two deep monitoring wells;
- Soil and groundwater sampling at SWMU 9 in 2019, including the installation of two shallow and two deep monitoring wells; and
- A Phase IV RFI that consisted of soil sampling at the MW6 Area in 2019, a comprehensive vapor intrusion (VI) investigation in 2019, and well installation and groundwater sampling from a partial set of existing monitoring wells in 2020. A total of 22 soil borings were advanced in April 2019 and June 2020, five new monitoring wells were installed in June 2020 (including monitoring well installation downgradient of Fate and Transport Areas 5 and 6), and groundwater samples were collected from 18 new and existing wells in July 2020. The VI investigation included the collection of 19 soil gas and eight indoor air samples during the heating season (in March) and 16 soil gas samples and 16 indoor air samples during the cooling season (in July).
- The Demolition Investigation from March through December 2021, including the investigation of the Administration Building Area, the BF3 Operations Area, the Waste Storage Area, and the Wastewater Area. Additional samples were also collected from SMWU 16 during the Demolition Investigation. As part of the Demolition Investigation, a total of 218 soil borings were advanced, 13 new monitoring wells were installed, and groundwater samples were collected from 53 new and existing monitoring wells.

The RFI objective of delineation of waste placement and migration at each SWMU or AOC built upon the historical data. The 2015 Phase III RFI Work Plan delineations of waste used historical observations of physical evidence of waste materials and analyte concentrations exceeding threshold criteria for chemical evidence of waste. These same criteria for physical and chemical evidence of waste, developed in the 2015 Phase III RFI Work Plan, were applied to soils analytical data and other observational data obtained during the RFI at each of the SWMUs, AOCs, and additional investigation areas to delineate the waste/impacted area. In addition, analytical data for soils at each of the SWMUs, AOCs, and additional investigation areas were compared to USEPA's November 2021 Regional Screening Level (RSL) values for respective Industrial Soil Screening Levels (ISSLs), the Protection of Groundwater Risk-Based Soil Screening Levels (RSSLs) (assuming a dilution attenuation factor [DAF] of 20), and MCL-Based Soil Screening Levels (MSSLs) (assuming a DAF of 20) for detected analytes.

New monitoring well installation locations were specifically selected to provide upgradient and downgradient groundwater quality data for comparison at each SWMU, AOC, and additional

investigation areas. This follows from the CA Framework Technical Memorandum and RFI Work Plan evaluations of relationships between individual SWMUs or AOCs and groundwater impacts. Evaluation of the RFI groundwater data focused on the extent to which individual SWMUs, AOCs, or additional investigation areas contribute to the degradation of groundwater quality by noting not only the change in analyte concentrations from upgradient to downgradient, but also on analyte fingerprints in downgradient wells. Evaluations were made by comparison to USEPA's November 2021 RSL Summary Table Tap Water and MCL values.

At most SWMUs, AOCs, and additional investigation areas, there remains at least one boundary where analyte concentrations exceed the criteria for chemical evidence of waste/impacted area. However, in all instances, the delineation is sufficient to evaluate and recommend appropriate corrective measures.

Groundwater flow at the Site was found to be generally consistent with prior studies, with horizontal flow directions generally toward the south. Three groundwater mounds were noted in the interior of DVW, the cause of which is unknown, but may be related to the surface of the bedrock underlying the overburden at the Site. Groundwater flow on SWMU 9 is southerly toward the Delaware River, with influence of the adjacent sluiceway as a discharge boundary also apparent in the data.

Groundwater quality was found to be impacted by analytes reflective of the wastes disposed of in the various SWMUs and AOCs and characteristic of the additional investigation areas. Chlorinated volatile organic compounds (VOCs) are the most abundant organic compounds, with elevated concentrations associated with some SWMUs and additional investigation areas; lesser concentrations of semi-volatile organic compounds (SVOCs) and pesticides make up the remainder of the organics. Arsenic was the most abundant metal. SWMUs 6, 13, 15, 17, and AOC 16NP and additional investigation areas MW6, the northern BF3/Waste Storage, the central BF3, and eastern Building 16 appear to be significant sources of chlorinated VOCs, SVOCs, pesticides, and metals, with lesser amounts present at SWMUs 14, 18, 19, 20, 21, 22, 23, 30, and 27 and additional investigation areas Administration Building, Delmarva Substation, western Building 16, and Wastewater. Wells downgradient of these SWMUs, AOC, and additional investigation areas had one or more analytes exceeding the Tap Water and/or MCL values.

A vapor intrusion investigation conducted in 2019 concluded that no unacceptable cumulative cancer risks were identified in any of the indoor air samples and no unacceptable noncancer hazards in the majority of the indoor air samples. Unacceptable noncancer hazards were identified in indoor air samples from the BF3 Control Room for trichloroethene (TCE). A remediation system was installed in the BF3 Control Room to address the unacceptable noncancer

hazards while the facility was still operational. Operations ceased in 2019 and the BF3 Control Room was demolished in 2021 prior to the Demolition Investigation.

Groundwater data indicated a previously unidentified source of VOCs located in the vicinity of MW-6. The data did not support a source of these VOCs being located at any of the documented SWMUs on the DVW. Additional RFI investigation was conducted in 2019 and 2020 to locate this unidentified source. No sources of contamination were identified and no additional investigation was recommended except for the installation of two deep monitoring wells that were installed as part of the Demolition Investigation.

Analytical modeling of select VOCs was performed using the Quick Domenico fate and transport model to assess the potential for contaminant migration in groundwater across the downgradient property boundary. Groundwater elevation data were used to construct contour maps that were then divided into flow areas. VOC analytes selected for modeling represented the more mobile compounds present within individual flow areas. Model results indicated that vinyl chloride in Area 2, 5 and 6, and trichloroethene in Area 5 may potentially have migrated to locations downgradient of the property boundary. The furthest migration distance was estimated at 555 feet for vinyl chloride in Area 5. Two additional monitoring wells (one downgradient of Area 5 and one downgradient of Area 6) were installed in 2020 along Route 13 to evaluate the potential for migration based on the results of the model. The groundwater sampling results indicated that VOCs in shallow groundwater have not migrated a significant distance onto downgradient properties. However, additional data to evaluate the extent of exceedances downgradient of well MW-104 was discussed with EPA. Honeywell has contacted MHIC (former Sunoco) representatives for access to sample existing wells on the MHIC property which are located downgradient of well MW-104, currently Honeywell continues to gain access.

Section 6.0 of this report compares the RFI findings and the results of the Baseline Human Health Risk Assessment (HHRA) and the Baseline Ecologic Risk Assessment (BERA), updated with data collected since 2015. The Site was grouped into four “exposure units” for the HHRA, i.e., the Central Manufacturing Area, the Eastern SWMUs, the Western SWMUs/AOCs and Wastewater Area, and SWMU 9. The results of the HHRA indicated that carcinogenic risk estimates exceeded the USEPA risk threshold for current and future outdoor workers and current and future construction workers in the Eastern SWMUs and Central Manufacturing Area exposure units and for future construction workers in the Western SWMUs/AOCs and Wastewater Area and SWMU 9 exposure units. Non-carcinogenic risk estimates exceeded the USEPA threshold for current and future outdoor workers and current and future construction workers in the Eastern SWMUs, the Central Manufacturing Area, and the Western SWMUs/AOCs and Wastewater Area exposure units and for future construction workers in the SWMU 9 exposure unit.

Residential exposure to soil and groundwater, and exposure to groundwater as a drinking water source was eliminated due to current and foreseeable future industrial land use conditions.

The BERA was conducted only at SWMU 9 since there is little or no area of the remainder of the Site that serves or could serve as habitat. Three potential ecological receptors were identified as having complete exposures to surficial soil contaminants: the short-tailed shrew; the American robin; and the raccoon.

The “RCRA Facility Investigation Report, Honeywell Delaware Valley Works, Claymont, Delaware” was submitted to the USEPA in 2016 following the 2015 RFI (Amec Foster Wheeler Environment & Infrastructure Solutions, Inc., 2016). This current report updates the 2016 report as follows:

- Summaries of data collected since 2015 are provided, including data collected in 2019 at SWMU 9 and data collected in 2019 and 2020 in relation to the MW6 Area investigation.
- Comprehensive tables are provided for both soil and groundwater for all SWMUs, AOCs, and additional areas including all available data collected since 2002, as requested by the USEPA in its letter dated August 17, 2021 (USEPA, 2021).
- The results of a HHRA are provided, based on a recent HHRA which includes all available data collected for all SWMUs, AOCs, and additional areas, assuming four separate exposure units.

1.0 INTRODUCTION

This report presents the findings and conclusions of the Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI) conducted at the Honeywell Delaware Valley Works (DVW) in Claymont, Delaware (Site). The RFI was conducted in accordance with the U.S Environmental Protection Agency (USEPA) approved Phase III RFI Work Plan (Amec Foster Wheeler Environment & Infrastructure, Inc., 2015), SWMU 9 Geotech Investigation Work Plan (Wood Environment & Infrastructure Solutions, Inc. [Wood], 2018), Revised SWMU 9 Supplemental Work Plan (Wood, 2019b), RCRA Facility Investigation Phase IV Work Plan (Wood, 2019a), and Demolition Investigation Work Plan (Wood, 2021).

The work scope and objectives presented in the 2015 Phase III RFI Work Plan were based upon a Corrective Action Framework Technical Memorandum and discussions with USEPA to utilize the RCRA Lean Process². The Lean Project is designed to expedite the RFI/Corrective Measures Study (CMS) process by eliminating redundancies, focusing resources, and committing to actions as soon as they can be defined. Critical decisions were shifted forward to speed up the Corrective Action process through meetings between USEPA and Honeywell prior to development and implementation of the RFI to reach consensus on issues such as:

- Goals and expectations for all stakeholders.
- Critical decisions necessary to complete the RFI.
- Decision points and outcomes needed to move through the Corrective Action process.
- A roadmap for RFI Work Scope (Corrective Action Framework Technical Memorandum).

The 2015 Phase III RFI Work Plan included a risk assessment task to be conducted in general accordance with USEPA Risk Assessment Guidance (RAGS) tailored to be consistent with USEPA's Lean Process (USEPA, 1989). The 2021 Demolition Site Investigation Work Plan included a task to update the risk assessment using recent data. The Risk Assessment Report is provided under separate cover.

This report was prepared in accordance with the 2015 RFI Work Plan and subsequent work plans and Section VI.B, RCRA Facility Investigation, of the Administrative Order on Consent (ACO) signed by Honeywell International Inc. (Honeywell) on September 2, 2011 (Docket No. RCRA-03-2011-0252CA).

1.1 REPORT ORGANIZATION

This RFI Report is organized into the following topical sections:

- Section 1 – Introduction

² 2015 work plan scoping meetings were held with USEPA on December 20, 2013, March 14, 2014, August 28, 2014 (Meeting Summary of August 28, 2014, concurred USEPA included in Appendix A.)

- Section 2 – Background Information. This information includes a description of the Site and its history, descriptions of the Solid Waste Management Units (SWMUs) and Areas of Concern (AOCs) investigated, regulatory history and previous investigations, the physical setting of the site, and the objectives of the RFI.
- Section 3 – Investigation Methodologies. This section describes the locations and methodologies followed for installing soil borings, test pits, and monitoring wells; the collection of samples of soil and groundwater for laboratory chemical analyses; methodologies to maintain data quality and data management; and handling and management of investigation derived waste. In addition, any deviations from the work plan are identified.
- Section 4 – Data and Results. This section discusses the soil data collected at each SWMU and AOC in the context of USEPA Regional Screening Levels (RSLs) and evaluates the success of the RFI objective which was to delineate the limits of waste disposed of within each unit. Data describing the groundwater impacts over the entire Site are compared to USEPA RSLs, including Maximum Contaminant Levels (MCLs), and contributions of individual SWMUs and AOCs to these impacts are assessed.
- Section 5 – Fate and Transport. This section evaluated the extent of the groundwater impact and assesses potential offsite impacts for representative analytes via groundwater modeling.
- Section 6 – Comparison of RFI and Baseline Human Health and Ecological Risk Assessment (BHHERA) Findings to CA Framework Technical Memorandum
- Section 7 – Conclusions and Recommendations. This section summarizes the findings of the RFI and recommends either further investigation, if necessary, or potential remedial actions that appear appropriate to address the unit.
- Section 8 – References. This section compiles references and historical documents cited within this report.

2.0 BACKGROUND INFORMATION

2.1 SITE DESCRIPTION

DVW is comprised of several parcels totaling 49.49 acres straddling the Delaware – Pennsylvania state line in an area where heavy industries of chemical manufacturing, refining, and steelmaking have been ongoing for decades (**Figure 1**). Two-thirds of the DVW is located in Pennsylvania with the remainder situated in Delaware. The Site itself has been utilized for manufacturing a variety of chemicals since it was established nearly 100 years ago. The Site was most recently a chemical manufacturing operation, producing boron trifluoride (BF₃), and fluorosulfonic acid (FSA) until operations ceased in 2019. The DVW is bordered by the Marcus Hook Industrial Complex (MHIC) (f.k.a. Sunoco, Inc.- Marcus Hook Refinery or Sun Refining & Marketing Co. –Marcus Hook) to the north and Braskem to the east. An Amtrak rail right-of-way forms the northern property boundary and Philadelphia Pike (Route 13) forms the southern boundary. MHIC and the Chemtrade (f.k.a. General Chemical Corporation or GCC) property are located across Philadelphia Pike to the south. A separate 14.56-acre parcel of the DVW property, SWMU 9, is located on the Delaware River east and south of the Chemtrade property.

2.2 SWMU/AOC DESCRIPTIONS

The 13 SWMUs (not including SWMU 9), two AOCs and additional investigation areas are shown on **Figure 2**. Descriptions of each SWMU, AOC, and additional investigation area are summarized below.

SWMU 9

SWMU 9 is a former settling pond that encompasses approximately 14.56 acres and is situated on the Delaware River with the mound now reaching heights of up to 45 feet above grade. Topographically the SWUM 9 mound is composed of three distinct plateaus, with the highest elevation plateau in the north, and the lowest elevation plateau in the south. The area was used for disposal from 1966 to the late 1980's. The SWMU reportedly contains over 350,000 tons of alum mud; construction debris and other rubbish have been identified at the surface during historical site reconnaissance. It is enclosed by a wooden bulkhead along the sluiceway and the river shoreline and is covered with significant vegetation, mature trees and shrubs. Access is currently restricted landward as the SWMU is secured within a chain link fence.

During the 2003 Phase I RFI, a total of 18 soil borings were installed throughout the SWMU. Solid waste (sludge) thicknesses of up to approximately 40 feet were observed in the borings within the upper (i.e., highest elevation) level. Soil samples were collected from three depth intervals in each soil boring (0 to 1 foot below ground surface (bgs), 1 to 15 feet bgs, and 15 feet bgs to where native soil was observed, unless native soil was encountered at less than 15 feet bgs). Samples were analyzed for Target Analyte List (TAL) metals. The analytical results were compared to the

USEPA Residential Risk-Based Concentrations (RBCs), Industrial RBCs, and Ecological Screening Values.

Exceedances of the Residential RBCs and/or Ecological Screening Levels were observed throughout the SWMU. In the 0 to 1 foot bgs interval, aluminum and arsenic exceeded the Industrial RBCs. In the 1 to 15 feet bgs interval, arsenic and iron exceeded the Industrial RBCs. In the 15 feet bgs to native soil interval, antimony, arsenic, and iron exceeded the Industrial RBCs.

In 2010 as part of the offshore sediment investigation, surface soil samples from the 0 to 0.5 foot depth interval were collected over much of the surface of SWMU 9 and analyzed for DDx compounds, arsenic, and lead. Generally, DDx soil concentrations greater than 1 milligram per kilogram (mg/kg) were limited to immediately along the shoreline. The arsenic concentration distribution generally was similar to that of DDx (i.e., areas of elevated arsenic concentrations also had elevated DDx concentrations).

During the 2010 investigation, groundwater samples were also collected from the monitoring wells along the Delaware River and analyzed for DDx, lead, and arsenic (dissolved and total). DDx concentrations were non-detect in all but one monitoring well, well MW-17; concentrations of 0.0165 micrograms per liter ($\mu\text{g/L}$) were observed in well MW-17. The total arsenic range in monitoring wells located on SWMU 9 was 9.9 $\mu\text{g/L}$ to 9,690 $\mu\text{g/L}$. The dissolved arsenic range in monitoring wells located on SWMU 9 was non-detect to 5,070 $\mu\text{g/L}$. The total lead range in monitoring wells located on SWMU 9 was 4.4 $\mu\text{g/L}$ to 56.4 $\mu\text{g/L}$. The dissolved lead range in monitoring wells located on SWMU 9 was non-detect to 1.2 $\mu\text{g/L}$.

The 2015 RFI included the installation and sampling of one new groundwater monitoring well at SWMU 9. The 2015 RFI also included a geotechnical investigation consisting of test pits, cone penetrometer tests (CPT), and geotechnical soil borings. The 2015 RFI report was submitted to the USEPA in April 2016 (Amec Foster Wheeler Environment & Infrastructure, Inc., 2016).

In 2016, an additional investigation was conducted to supplement the previous investigations and to assess the impact of arsenic in groundwater. The investigation was conducted in accordance with the USEPA-approved Supplemental Pathway Investigation Work Plan (Amec Foster Wheeler Environment & Infrastructure, Inc., 2016a).

The 2016 Additional Investigation included the installation of one groundwater monitoring well at SWMU 9. Groundwater samples were collected for arsenic speciation analysis and slug tests were performed to evaluate hydraulic conductivity at the Site. The 2016 Additional Investigation was summarized in the Supplemental Pathway Investigation Results Report submitted by Anchor QEA to the USEPA in March 2017 (Amec Foster Wheeler Environment & Infrastructure, Inc., 2016a).

In 2018, a geotechnical investigation was conducted in accordance with the USEPA-approved SWMU 9 Geotech Investigation Work Plan (Wood, 2018) to collect supplemental geotechnical and other data necessary to support the design of a corrective measure including a slope stability analyses that will meet the USEPA Corrective Action Lean Project objectives. Six soil borings were

advanced and one monitoring well was installed. Soil samples were analyzed for physical and engineering properties to support the corrective measure at the Site. The SWMU 9 Geotechnical Investigation Report was submitted to the USEPA in June 2019 (Wood, 2019a).

In 2019, in accordance with the USEPA-approved Revised SWMU 9 Supplemental Work Plan (Wood, 2019b), six soil borings were advanced in the southeastern portion of the Site for the collection of soil samples and four monitoring wells (two shallow and two deep) were installed between the Site and the Sunoco property to the northeast. The SWMU 9 Summary Tables and Figures was submitted to the USEPA in January 2020 (Wood, 2020).

Waste Delineation in the 2015 RFI Work Plan

Historic records described SWMU 9 as an alum mud pile with an area of 14.56 acres and a depth up to approximately 45 feet. The historic delineation of SWMU 9 was unchanged by evaluation of the physical and chemical evidence of waste. Physical evidence of waste is present in logs from soil borings that penetrated through the sludge pile to native soils. These borings confirmed the thickness of the sludge materials. Soil analytes which exceeded the criteria for chemical evidence of waste included arsenic, selenium, benzene hexachloride (BHC)-isomers, and pesticides. Groundwater analytes arsenic, BHC-isomers, and pesticides may be related to the SWMU waste. However, arsenic and lead are also present in high concentrations in groundwater upgradient of the SWMU.

SWMU 13

SWMU 13 was reported to be a 200-foot (ft) long by 15-ft wide by 10-ft deep excavation in which drums were disposed of (**Figure 2**). The drum contents were reportedly drained into the excavation prior to disposal. According to plant personnel, the drums contained various organic and inorganic acids, stripper solutions, and chlorinated solvents.

During the 2003 Phase I RFI, seven test pits were excavated at SWMU. Debris observed in the test pits included concrete, brick, plastic, slag, railroad ties, and decaying wood. Soil samples were analyzed for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), pesticides, total metals, herbicides, polychlorinated biphenyls (PCBs), and general chemistry and compared to the USEPA 2003 RBCs. Only arsenic and tetrachloroethene (PCE) were detected at concentrations above the Industrial RBCs. During the 2004-2005 Phase II RFI, a total of 38 soil borings were installed. The soil sample analytes indicated exceedances of 2004 Industrial RBCs for chlorinated VOCs, SVOCs, and metals. The chlorinated compound exceedances were greater toward the northern portion of the SWMU.

Groundwater samples from well MW-1, located down gradient of SWMU 13, showed VOCs, SVOCs, pesticides, and arsenic at concentrations exceeding the 2004 USEPA RBCs and/or MCLs.

Waste Delineation in the 2015 RFI Work Plan

The historic delineation of SWMU 13 was originally based on historical recollections of disposal in a trench area 200 feet by 10 feet wide by 10 feet deep. The historic delineation was subsequently extended by findings of the Phase II RFI to include two additional areas: a 41.5 foot by 63.5 foot area northeast of the historical SWMU delineation; and, a 45 foot wide by 32.5 foot area southeast of the historical SWMU delineation. These dimensions were unchanged in the 2015 RFI Work Plan. Physical evidence of waste was extracted from geophysical surveys, test pit logs, and soil boring logs. Geophysical survey data indicated that the area of disturbance is smaller than and contained within the historically delineated area. Observations recorded in test pit and soil boring logs indicate waste extended to a depth of 5.5 feet to 10 feet bgs. Soil analytes exceeding the 2015 RFI Work Plan criteria for chemical evidence of waste included PCE, toluene and nitrotoluene, which extend to 12 feet bgs (the depth of the water table). Groundwater PCE appears to be related to PCE in waste in historical sample locations SM13-GP01, SM13-GP02, SM13-GP25, SM13-GP26, MW-01, and MW-13.

SWMU 14

SWMU 14 was historically reported to be a 40-ft long by 40-ft wide by 10-ft deep excavation in which waste cuprous chloride, cupric chloride and construction debris from the demolition of Building 12 was reportedly placed. During the 2003 Phase I RFI, six test pits were excavated at SWMU 14. Brick, slag, concrete, and blue-green sand and gravel (copper waste) were observed in the test pits. Analytes in samples collected from the test pits were compared to the USEPA RBCs. Copper, iron, arsenic, hexachlorobenzene, 1,3-dinitrobenzene, benzo(a)pyrene, dibenzo(a,h)anthracene, alpha-BHC, and p,p'-DDT exceeded the 2003 Industrial RBCs.

Groundwater samples from well MW-10, located in SWMU 14, show VOCs, SVOCs, and pesticides at concentrations exceeding the USEPA RBCs and/or MCLs. There were no corresponding soil concentrations for these parameters that can be related to the groundwater impacts. DDT detected in groundwater at SWMU 14 may potentially be related to the SWMU.

Waste Delineation in the 2015 RFI Work Plan

The historic delineation of SWMU 14 was based upon recollections of the disposal of Cuprous Chloride and Cupric Chloride into a 40 feet wide by 40 feet long by 10 feet deep.

Geophysical surveys indicated that the area of disturbance was 140 feet long by 95 feet wide by 5 feet deep, larger than the historically delineated area. Visual observation recorded in test pits confirmed physical evidence of waste materials in seven test pits. Concentrations indicate that dinitrotoluene and pesticides (BHC isomers) exceed the 2015 RFI Work Plan criteria for chemical evidence of waste to a depth of 3.5 feet bgs. Groundwater impacts (BHC isomers) downgradient of the SWMU (SM13-GP01) appeared related.

SWMU 15

SWMU 15 was historically reported to be a 200-ft long by 50-ft wide by 10-ft deep excavation in which various stripper solutions, oxidizers, organic acids, and phosphorous compounds were reportedly disposed of. During the 2003 Phase I RFI, eight test pits were excavated and sampled. The analytes that exceeded the 2003 Industrial RBCs were hexachlorobenzene, benzo(a)pyrene, arsenic, and iron. Two additional test pits were excavated during the 2004-2005 Phase II RFI. SVOCs, arsenic, and iron were detected at concentrations above industrial RBCs to a depth of four feet bgs

Groundwater samples from well MW-10, located down gradient of SWMU 15, show VOCs, SVOCs, and pesticides at concentrations exceeding the 2003 RBCs and/or MCLs. Groundwater exceedances by BHC isomers, benzene, TCE and PCE appeared related to and associated with SWMU 15, although there were also upgradient groundwater impacts (well MW-02) for benzene.

Waste Delineation in the 2015 RFI Work Plan

Historic delineation of SWMU 15 was based upon reports of the disposal of various stripper solutions, oxidizers, organic acids, and phosphorous compounds into a trench 200 feet long by 50 feet wide by 10 feet deep. Based upon the physical and chemical lines of evidence, there is no indication of the SWMU extending past a depth of 4 feet nor past the historical SWMU surficial boundary. The area of the trench is currently covered with soil piles, and construction and demolition debris such as asphalt and railroad ties. Physical evidence of waste was confirmed in ten test pits and extended to a depth of 4 feet. Concentrations of BHC isomers and dinitrotoluene exceed the 2015 RFI Work Plan criteria for chemical evidence of waste to a depth of 4 feet bgs.

SWMU 16

SWMU 16 is a former excavation that is approximately 32 feet long by 12 feet wide. This SWMU's historical delineation was based upon reports of the disposal of packaging into two trenches 10 feet long by 8 feet wide by 6 feet deep. SWMU 16 was investigated as part of the 2003 Phase I RFI with three (3) shallow borings to 2.5 to 3.0 feet bgs and six surface soil samples. TCE, benzene, SVOCs, pesticides, arsenic, and lead were detected at concentrations that exceed the 2003 Industrial RBCs to a depth of at least 3 feet bgs. No groundwater samples were collected during the RFI. No Phase II investigations were conducted.

Four additional borings were advanced at SWMU 16 as part of the Demolition Investigation. The borings were advanced to evaluate the geology and to collect additional soil samples for the installation of deep monitoring wells due to the potential for dense nonaqueous phase liquid (DNAPL) in the area of SWMU 16.

Waste Delineation in the 2015 RFI Work Plan

There were no available data to assess the presence of physical evidence of waste in SWMU 16. Analytical data indicate TCE, 1,2-DCB, ethylbenzene, naphthalene, xylene and BHC isomers exceeded the 2015 RFI Work Plan criteria for chemical evidence of waste in the six soil borings to a depth of 3 feet.

SWMU 17

Historically, SWMU 17 was reported to be a 6-ft long by 4-ft wide by 1-ft deep former stone-filled surface trench that was used for disposal of laboratory samples. Chemicals disposed of included organic and inorganic acids, salts, strippers, and pesticides, and were reportedly poured from their containers into the trench. Currently, the SWMU is under the facility's confined space entry training area which consists of a 50 feet wide by 50 feet long concrete slab. RFI work completed previously has extended the SWMU boundary to 44 feet long by 30 feet wide by 10 feet deep.

During the 2003 Phase I RFI, 17 soil borings were installed to depths between 4 and 12 feet bgs. Gravel and slag were observed in the boring samples. Benzene, carbon tetrachloride, PCE, TCE, alpha-BHC, p,p'-DDD, p,p'-DDT, and arsenic exceeded the 2003 Industrial RBCs.

Waste Delineation in the 2015 RFI Work Plan

Physical evidence of waste has been identified through geophysical survey and soil borings. Geophysical surveys found that the area of disturbance was 44 feet long by 30 feet wide by 10 feet deep. Visual observations of waste were observed in all 17 of the soil borings and extended to a depth of 7 feet. Analytes exceeding the 2015 RFI Work plan criteria for chemical evidence of waste include PCE, dichlorobenzene, xylene, ethylbenzene, arsenic, pyridine, and BHCs. Downgradient water samples indicate that PCE, dichlorobenzene, and arsenic in groundwater is related to SWMU 17.

SWMU 18

The historic delineation of SWMU 18 is a rectangular area 20 feet wide by 20 feet long, presumably because of chemical impacts of waste. Anecdotally, SWMU 18 was reported to be a 12-ft long by 6-ft wide by 4-ft deep excavation in which pesticide-related wastes (i.e., acetyl chloride, methoxychlor, and monochlorobenzene) were disposed of. The excavation may have been lined with plastic, and the materials may have been disposed of in glass or metal containers.

During the 2003 Phase I RFI, 12 test pits were installed and two soil samples were collected. Only p,p'-DDD and arsenic exceeded the 2003 Industrial RBCs. Groundwater samples from well MW-7, located down gradient of SWMU 18, indicate VOCs and pesticides at concentrations exceeding the USEPA RBCs and/or MCLs, and beta-BHC and naphthalene appeared to be related to SWMU 18 waste.

In spring of 2014, Honeywell initiated a soil excavation and removal Interim Measure (IM) at SWMU 18 in advance of a capital project expanding a portion of the active process facilities. Approximately 70 tons of soils and 800 lbs of waste debris were excavated to a depth of four (4) feet from the 20 foot by 20 foot area representing the historical footprint of SWMU 18 and disposed of offsite. Post-excavation sampling of sidewalls and the excavation bottom indicated that some impacts remain exceeding the November 2015 USEPA RSL concentrations. An IM completion report was submitted to USEPA on November 6, 2014.

Waste Delineation in the 2015 RFI Work Plan

Geophysical surveys during the Phase I RFI indicated that soil disturbance existed in an area 45 feet long by 40 feet wide by 5 feet deep. Physical evidence of waste was observed in eleven of the test pits extended to a depth of 6 feet in Test Pit 8 (which is outside of the historic SWMU boundary), and to 3 or 4 feet at every other test pit. Much of this area was excavated and removed by the 2014 IM. Analytes exceeding the 2015 RFI Work Plan Criteria for chemical evidence of waste include PCE, 2-chlorophenol, benzo(a)anthracene, dibenzo(a,h)anthracene, benzo(b)fluoranthene, naphthalene, dichlorophenoxy acetic acid, 2,4-dinitrotoluene, phenol, and beta-BHC.

SWMU 19

Historic delineations of SWMU 19 were based upon reports of disposal of sludge containing DDT and TCE decomposition products. SWMU 19 was historically reported to be a 50-ft long by 12-ft wide by 10-ft deep excavation. Plant personnel reported that the SWMU may include a former above ground storage tank that may have been buried adjacent to its original location. The findings of the Phase II RFI extended the northern extent of the SWMU 19 toward the railroad tracks which now includes approximately 4,500 ft² to depths of at least 12 feet. The area is currently covered with concrete and is used as a filled boron trifluoride tank storage area.

During the 2003 Phase I RFI, five test pits were excavated and soil samples were collected for analysis. Brick, slag, glass, and wood were noted in the test pit logs, although no evidence of a buried tank was recorded. Analytes exceeding the 2003 Industrial RBCs included arsenic, p,p'-DDD, p,p'-DDE, p,p'-DDT. During the 2004-2005 Phase II RFI, 14 soil borings were installed. Analytes exceeding the October 2004 Industrial RBCs included chlorobenzene, pesticides, and SVOCs. Groundwater samples from well MW-6, located down gradient of SWMU 19, indicated that concentrations of alpha-BHC, beta-BHC, chlorobenzene, and naphthalene appear to be related to SWMU 19.

Waste Delineation in the 2015 RFI Work Plan

Physical evidence of waste includes geophysical surveys that identified an area of disturbance 90 feet long by 25 feet wide by 10 feet deep. This area of disturbance is larger than and not contained within the historical delineated area. Physical evidence of waste was generally limited to depths less than two feet bgs. Analytes exceeding the 2015 RFI Work Plan criteria for chemical evidence

of waste included 1,2,4-trimethylbenzene, alpha-BHC, beta-BHC, chlorobenzene, and naphthalene, and extended to a depth of 7 feet bgs.

SWMU 20

SWMU 20 was a former cooling pond reported to be 90-feet long by 90-feet wide by 8-feet deep. During closure work in the mid-1980s the SWMU was redefined to be an area 45 feet wide by 65 feet long. Plant personnel report that prior to closure, leaking boron trifluoride and iodine pentafluoride cylinders were placed in the pond to control gaseous emissions and were normally removed from the pond once they were emptied. In the mid 1980's, during construction of the new trailer loading area the backfill material in the pond was excavated and removed, and material from SWMU 9 was reportedly used as fill prior to constructing the existing concrete pad.

During the 2003 Phase I RFI, five test pits were excavated and two soil samples were collected. Only arsenic exceeded the 2003 Industrial RBCs. Groundwater samples from well MW-6, located down gradient of SWMU 20, indicate VOCs, SVOCs, pesticides, and arsenic at concentrations exceeding the USEPA RBCs and/or MCLs.

During the 2004-2005 Phase II RFI, 14 soil borings were installed. Two subsurface concrete slabs were encountered during the drilling with refusal encountered at one foot bgs and six feet bgs. With the exception of one boring advanced to 12 feet bgs, each of the borings advanced outside the limits of the shallow concrete slab encountered refusal at 6 feet bgs on the deeper slab, believed to coincide with the concrete bottom of SWMU 20. Downgradient groundwater concentrations of naphthalene and beta-BHC in well MW-6 appear to be related to waste.

Waste Delineation in the 2015 RFI Work Plan

Geophysical surveys indicate that the area of disturbance was 60 feet long by 50 feet wide by 6 feet deep. Physical evidence of waste materials was observed to a depth of 5 feet in all three test pits, and to a depth of 6.5 feet in all ten soil borings. Analytes exceeding the 2015 RFI Work Plan criteria for chemical evidence of waste include naphthalene and beta- BHC extending to 6 feet bgs (the depth of the water table at the SWMU).

SWMU 21, 22, 30

SWMUs 21, 22, and 30 were former trench disposal areas and impoundments that are currently closed with paving and gravel cover. The total areal dimension of the three SWMUs is approximately 250 feet by 280 feet. The actual depth of these impoundments and trench disposal areas is not known, but groundwater occurs at approximately 8-feet to 9-feet bgs in the area. Only shallow soil samples were collected as part of the 2003 Phase I RFI. Arsenic and pesticides were detected at concentrations that exceed the 2003 industrial RBC criteria to a depth of at least 3 feet bgs.

Waste Delineation in the 2015 RFI Work Plan – SWMU 21

Historically, SWMU 21 was a landfill area into which pesticide residue (alpha-BHC, beta-BHC, gamma-BHC, and DDT) was disposed of in a trench 200 feet long by 9 feet wide by 6 feet deep. Part of this trench was situated under lined lagoons later constructed in 1971 to 1972. In 1978, the entire area of SWMU 21, 22 and 30 was backfilled and closed. The 2003 Phase 1 redefined SWMU 21 to its current dimensions 325 feet long by 30 feet wide.

Analytes exceeding the 2015 RFI Work Plan criteria for chemical evidence of waste include 4-aminobiphenyl, 2,6- dinitrotoluene, alpha-BHC, and beta-BHC in shallow soil samples to a depth of 0.5 feet bgs. Groundwater concentrations in historical groundwater samples collected from EWL-8 appear to be related to these compounds.

Waste Delineation in the 2015 RFI Work Plan – SWMU 22

This SWMU's historical delineation is based upon historical reports of disposal of spent excelsior and cellulose from selenium recovery in an area 200 feet by 500 feet by 10 feet. The Phase 1 RFI in 2003 redefined the dimensions of SWMU to approximately 240 feet long by 50 feet wide.

Surficial soil samples were collected within the SWMU's historic boundary and one soil sample was collected outside of the boundary. Analytes exceeding the 2015 RFI Work Plan criteria for chemical evidence of waste include alpha-BHC, beta-BHC, gamma-BHC, and naphthalene to a depth of 0.5 feet below ground surface (Table C-2). Down-gradient groundwater impacts by alpha - BHC, beta-BHC, gamma-BHC, and naphthalene appear to be related to these compounds in waste.

Waste Delineation in the 2015 RFI Work Plan – SWMU 30

SWMU 30 historically consisted of two lined impoundments. The 2003 Phase 1 Report defined the SWMU as two impoundments approximately 100 feet long by 130 feet wide.

Four surficial soil samples were collected outside of the SWMU's historical boundary.

Analytes exceeding the 2015 RFI Work Plan criteria for chemical evidence of waste are BHC isomers (alpha-BHC, beta-BHC, and gamma-BHC) and extend to a depth of 0.5 feet below ground surface. Groundwater data collected from locations down gradient indicate that BHC-isomers may be related to these wastes in the SWMU.

SWMU 23

SWMU 23 was a former excavation reported to be 10 feet long by 10 feet wide. It is currently completely covered with concrete paving. Six surface soil samples and one vadose zone soil sample were collected as part of the 2003 Phase I RFI. No groundwater samples were collected during the Phase I RFI. Only arsenic, mercury, and pesticides were detected at concentrations that exceed the 2003 Industrial RBCs to a depth of at least 2 feet bgs.

Waste Delineation in the 2015 RFI Work Plan

Anecdotal reports indicate that disposal occurred in SWMU 23 in an area 10 feet long by 4 feet wide by 1 feet deep. The Phase 1 in 2003 redefined the SWMU as approximately 7 feet long by 7 feet wide. SWMU 23's historical delineation is based upon anecdotal reports of the disposal of sample chemicals such as sulfuric acid, nitric acid, hydrochloric acid, hydrofluoric acid, fluosulfonic acid, phosphoric acid, kepone, benzene hexachloride, DDT and metabolites, various inorganic salts, and various halogenated and non-halogenated solvents.

During the 2003 Phase I RFI, soil samples were collected from seven surficial locations and one shallow boring location advanced to 2 feet below ground surface. All of these soil samples were collected outside the historical SWMU boundary. There were no boring logs recorded. Consequently, there was no basis for assessing physical evidence of waste.

Analytes exceeding the 2015 RFI Work plan criteria for chemical evidence of wastes included naphthalene, alpha-BHC, beta-BHC, gamma-BHC, arsenic, and mercury in all six shallow surface soil samples and in the single soil boring.

SWMU 27

SWMU 27 is located adjacent to the former Environmental Protection Station. The historical delineation of SWMU 27 was defined as an area approximately 65 feet long 65 feet wide. The total dimension of the SWMU is approximately 70 feet long by 60 feet wide. Waste placed in this SMWU was primarily non-hazardous, consisting of 35 percent to 45 percent calcium fluoride and trace metals solids. It is currently covered by concrete paving.

Only surface soil samples were collected as part of the 2003 Phase I RFI. Arsenic and pesticides were detected at concentrations that exceed the 2003 Industrial RBCs.

Waste Delineation in the 2015 RFI Work Plan

Five surficial soils samples were collected from outside the historical boundary of the SWMU to a depth of 0.5 feet bgs.. Analytes exceeding the 2015 RFI Work Plan criteria for chemical evidence of waste includes beta-BHC to at least a depth of 0.5 feet bgs.

AOC 3

AOC 3 is approximately 50 feet by 220 feet and is currently a landscaped space covered with sod. There is no record of historical disposal activities occurring at this AOC. A total of five surface soil samples were collected as part of the 2003 Phase I RFI. Pesticides were detected in soil at concentrations that exceed the 2003 Industrial RBC criteria. Groundwater from well MW-5 (downgradient) was sampled as part of the Phase II RFI and chloroform was detected in groundwater.

Waste Delineation in the 2015 RFI Work Plan

There is no historical evidence that waste was ever disposed of in this area. Evaluation of soil impacts does not indicate any exceedance of the 2015 RFI Work Plan criteria for chemical evidence of waste. Chemical concentrations appear to be residual levels inconsistent with waste disposal.

AOC 16NP

AOC 16NP was identified and investigated in 2008 and 2009 as part of the ongoing RFI following discovery of subsurface debris during installation of a weather tower foundation. There was no prior known history of disposal in this area. The dimensions of the AOC were estimated at 50 feet long by 40 feet wide by 5 feet deep. It is currently covered by a geofabric and gravel cover.

Four test pits were excavated for collection of soil samples and from four temporary monitoring wells were installed in 2009. Benzene, SVOCs, pesticides, and metals were detected in soil samples at concentrations that exceed the 2009 Industrial RBC criteria. Benzene, chlorobenzene, chloroform, phenol, 1,4-dichlorobenzene, 1,2,4-trichlorobenzene, pesticides, arsenic, cadmium, chromium, lead, and mercury were detected in groundwater samples.

Waste Delineation in the 2015 RFI Work Plan

Physical evidence of waste in this SWMU was identified through geophysical surveys and observations recorded in test pit logs. The geophysical survey indicated that the area of disturbance was 50 feet long by 40 feet wide. Visual observations recorded in test pit logs confirm waste material in four of the test pits to a depth of 5 feet below ground surface.

Analytes exceeding the 2015 RFI Work Plan criteria for chemical evidence waste includes chlorobenzene, DDT, and BHC-isomers in soils in all five test pits. Downgradient concentrations of DDT and BHC-isomers in groundwater appear related to waste.

MW6 Area

The MW6 Area is located in the south-central portion of the Site along the border between Pennsylvania and Delaware. The area is named for monitoring well MW-06, which was identified in the 2016 RFI Report as having significantly high concentrations of VOCs indicating a previously unidentified source. The MW6 Area was investigated in 2019 and 2020 as part of the ongoing RFI, and again as part of the Demolition Investigation in 2021.

There has been no activity in the area since at least 1937 and no indication of a source of impact; however, the main rail line that runs along the Pennsylvania/Delaware border to the north of the MW6 Area and the rail spur to the south of the MW6 area appear to have been present since at least that time.

The following potential sources were evaluated but no sources of contamination were identified:

- The rail lines (although no spills were identified);
- A 14-inch “water pipe” labeled on the Sanborn® maps which extended from Building 16 (labeled on drawings as “Fine Organic Chemicals”) through the MW-06 Area (use of the water pipe not identified); and
- The spray ponds and manufacturing area to the north of the MW6 Area.

Building 16 and the former spray ponds/manufacturing area to the north of the MW6 Area were investigated as part of the Demolition Investigation.

Twelve soil borings were advanced in the MW-6 Area in 2019. An additional 14 soil borings were advanced and three monitoring wells (MW6-01, MW6-02, and MW6-03) were installed in 2020.

The analytical results of the soil boring samples collected in the unsaturated zone indicated mainly pesticides and chlorinated VOCs in soil. Pesticide concentrations in soil do not appear to vary significantly with depth. VOC concentrations in soil in the unsaturated zone generally decrease with depth. The analytical results of the groundwater samples indicate a similar suite of pesticides and VOCs in groundwater.

As noted in the USEPA-approved February 2, 2021 Demolition Site Investigation Work Plan, the concentrations of VOCs in groundwater in monitoring wells MW-06 and SM16-MW-1 indicate the potential for DNAPL. Two deep monitoring wells (MW-06D and MW6-01D) were installed in November 2021 as part of the Demolition Investigation to evaluate the potential for DNAPL. DNAPL was not observed during groundwater monitoring in December 2021.

At the same time as the 2019/2020 investigations of the MW-6 Area, two other areas were investigated (Areas 5 and 6) based on the results of the groundwater modeling conducted during the 2015 RFI. Groundwater modeling was conducted during the 2015 RFI to assess the potential for contaminant migration in groundwater across the downgradient property boundary (Route 13) and onto the closest adjacent downgradient property (Sunoco). Model results indicated that concentrations of trichloroethene (TCE) and vinyl chloride above RSLs may extend up to approximately 100 feet from an area identified as Area 5 and up to approximately 555 feet from an area identified as Area 6 from the Site boundary in a south-southeast direction across Route 13. During the 2019/2020 MW6 Area investigation, two additional monitoring wells were installed in 2020 along Route 13 downgradient of monitoring wells MW-13 and SM13-MW1 to evaluate the potential for offsite migration.

VOC concentrations in downgradient monitoring wells A5-01 and A6-01 along the south side of Route 13 north of Sunoco did not exceed Tapwater RSLs or MCLs, with the exception of slight exceedances of some VOCs, SVOCs, metals, and pesticides, suggesting that concentrations decrease significantly before groundwater exits the Site.

Administration Building Area

The Administration Building, which included the Locker Room, was constructed during the late 1980's based on a review of historical aerial photographs and reportedly included a laboratory in the past, according to Honeywell personnel. The Boiler House was constructed in the early 2000's and the Fire Water Pumphouse was built sometime between 1951 and 1965 based on a review of historical aerial photographs. According to historical Sanborn® Fire Insurance Maps, there was an electrical substation in the area of the Fire Water Pumphouse in 1950. The Driver's Shed was located at the location of a former office building and research building that was present from at least 1917 until it was demolished between 2010 and 2013 based on a review of historical aerial photographs. Based on historical Sanborn® Fire Insurance Maps, there was a gasoline underground storage tank (UST) located to the north of the current Guard Shack building in 1950.

BF3 Operating Area

The BF3 Operating Area includes both the BF3 Plant, which included the BF3 Control Room and the Boric Shed, and the FSA Plant, which included a sulfuric trioxide (SO₃) hot room. The BF3 Operating Area was active since at least the early 1950's until operations ceased in 2019 and the facility was demolished in 2021 based on a review of historical aerial photographs and topographic maps and continued to expand over the years. The sulfuric acid tanks appear to have been onsite since at least 1971 based on a review of historical aerial photographs. Based on historical aerial photographs and Sanborn® Fire Insurance Maps there was a spray pond located in the southeastern portion of the BF3 Operating Area that was present since at least 1917 and removed in the early 1970's. The rail spur that runs along the border between Pennsylvania and Delaware has also been present since at least 1917.

Waste Storage Area

The Waste Storage Area was active since the early 1950's until operations ceased in 2019 based on a review of historical aerial photographs. The Waste Storage Area is located to the west of a former Boiler House building that was present since at least 1917 according to historical Sanborn® Fire Insurance Maps and appears to have been removed sometime between 1982 and 1991; the area is now part of the FSA Plant. The Hazardous Waste Storage Pad building appears to have been constructed in the early 2000's and the Delmarva Substation, a high voltage industrial/distributive substation that delivers electric power to the DWV facility, has been onsite since at least 1991 until it was demolished in 2021 based on a review of historical aerial photographs.

Wastewater Area

The Wastewater Area includes the Wastewater Treatment Building and Building 16. The Wastewater Treatment Building was constructed in the mid-1990's based on a review of historical aerial photographs. To the north of the Wastewater Area is SWMU 30, which consisted of two large settling ponds that were present from the early 1970's to the early 2000's according to

historical aerial photographs and topographic maps. Building 16 has been present as a research building since at least 1917 until it was demolished in 2021 based on a review of historical Sanborn® Fire Insurance Maps, aerial photographs, and topographic maps, with other research and manufacturing buildings in its surrounding area. Historically, Building 16 was a smaller compressor house in 1917 and expanded to become a synthetic indigo house in 1918. Building 16 included the Silanes laboratory in the center of the building, according to Honeywell personnel. Silanes is a curing agent in the manufacture of silicone sealants.

Vapor Intrusion

A vapor intrusion (VI) assessment was conducted site-wide in all occupied buildings as part of the ongoing RFI in 2019 in a phased approach in accordance with USEPA guidance³. The USEPA guidance and screening tools use conservative attenuation factors to develop screening levels protective of human health emphasizing the use of multiple lines of evidence to evaluate the potential for a VI risk and to support conclusions for further action. The VI assessment included the following four steps:

1. Screening of existing groundwater data using the USEPA VISL calculator (<https://www.epa.gov/vaporintrusion/vapor-intrusion-screening-level-calculator>).
2. Sampling of sub-slab soil gas (SSSG) with the synchronous collection of indoor air (IA) samples.
3. Reviewing the SSSG sampling results using USEPA VISL calculator to evaluate the site worker's risk and hazard calculation and evaluate the need to analyze the IA samples.
4. Reviewing of the IA sampling results using the USEPA VISL calculator to evaluate the site worker's risk.

Two rounds of VI sampling were conducted (heating season in March 2019 and cooling season in July/August 2019). The results indicated no unacceptable risks with the exception of TCE at the BF3 Control Room. Honeywell implemented remedial measures while the facility was operational to address the BF3 Control Room and IA results demonstrated concentrations below the 8.8 micrograms per cubic meter (ug/m³) USEPA Response Action Level for TCE.

2.3 REGULATORY HISTORY

DVW has been an industrial facility for nearly 100 years. Over its history, the DVW manufactured various chemical products including pesticides, organic and inorganic acids, and specialty chemicals. Currently, the DVW produces two materials: boron trifluoride (BF₃), a reaction catalyst used in a variety of process applications, and fluorosulfonic acid (FSA).

³ OSWER Technical Guide for Assessing and Mitigating the Vapor Intrusion Pathway from Subsurface Vapor Sources to Indoor Air, USEPA, Office of Solid Waste and Emergency Response, June 2015

Based on the treatment, storage, and disposal of hazardous waste at the DVW, a Notification of Hazardous Waste Activity was submitted to USEPA on July 28, 1980. This submittal triggered several notifications/events, including the following:

- On November 11, 1980, Allied Chemical Corporation submitted a RCRA Part A Hazardous Waste Permit Application to USEPA for the DVW.
- On March 11, 1982, USEPA acknowledged that the DVW qualified for Interim Status.
- On August 15, 1983, AlliedSignal submitted a RCRA Part B Permit Application to the Pennsylvania Department of Environmental Resources (PADER), currently known as the Pennsylvania Department of Environmental Protection (PADEP).
- On September 5, 1985, the Part B Permit Application for the DVW was withdrawn.
- In June 1986, AlliedSignal completed a RCRA Facility Assessment (RFA) in which 14 SWMUs and one AOC that are part of this study were identified on what is now DVW property.
- In 1999, USEPA Region III issued an Administrative Order on Consent to GCC to conduct a RFI on property that included property later sold to Honeywell.
- On December 15, 1999, USEPA Region III issued a letter requesting that Honeywell enter the RCRA Facility Lead Corrective Action Program. Honeywell accepted USEPA's request by letter dated December 15, 1999.
- In 2003, Honeywell conducted a Phase I RFI at eight of the SWMUs (9, 13, 14, 15, 17, 18, 19, and 20) identified at the DVW in accordance with the *Facility Lead RCRA Corrective Action Revised Workplan* dated October 2002. In addition, in 2003, General Chemical Corp. (GCC) conducted a RFI at SWMUs and AOCs located on portions of the DVW that would eventually be re-acquired by Honeywell (SWMUs 16, 21/22/30, 23, 27 and AOC 3).
- In 2004 and 2005, Honeywell conducted a Phase II RFI that included additional assessment activities at SWMUs 13, 14, 15, 19, and 20 located on the portions of the DVW owned by Honeywell at that time and monitoring well installation for both SWMU-specific and site-wide groundwater quality assessments. The Phase II RFI activities were performed in accordance with the USEPA approved *Workplan Addendum* dated June 2004 and revised based on the August 2004 USEPA comments to the Workplan.
- In 2005, Honeywell acquired the GCC North Plant parcels at the DVW.
- In 2008 and 2009, Honeywell conducted an investigation of AOC16NP as part of the ongoing RFI after notice to USEPA of discovery of debris and hazardous constituents during installation of a weather tower foundation.
- On September 2, 2011, Honeywell signed the ACO. The ACO included, among other things, participation with GCC in the development and implementation of Interim Remedial Measures in the sluiceway on the GCC property and for sediments in the Delaware River adjacent Honeywell's property and GCC property.

- In December 2011, Honeywell submitted the RFI Work Plan for the DVW (MACTEC Engineering & Consulting, Inc., 2011).
- On March 31, 2014, Honeywell submitted the Corrective Action Framework Technical Memorandum to USEPA for the DVW, which was used as the partial basis for revising the Work Plan (Amec Environment & Infrastructure, Inc., 2014a).
- By email dated April 24, 2014, USEPA provided comments on the Corrective Action Framework Technical Memorandum.
- On May 8, 2014 Honeywell submitted the RFI Work Plan Rev. 1 for the DVW (AMEC Environment & Infrastructure, Inc., 2014).
- On June 13, 2014, USEPA transmitted its comments on the RFI Work Plan Rev. 1 via email to Honeywell.
- On August 28, 2014, Honeywell and AMEC met with the USEPA to present the Source Assessment Methodology findings, and to gain approval for the investigative actions. The Source Assessment Methodology was the process developed to define the limits of each SWMU or AOC and define the remaining scope of work necessary to complete the RFI. A Meeting Summary from this meeting with USEPA's concurrence on its content is included in **Appendix A**.
- Following the August 28, 2014 meeting, the USEPA was provided with draft proposed work scope packages for each SWMU and AOC. Following review, USEPA indicated its concurrence with all proposed draft work scopes.
- On November 6, 2014, Honeywell submitted the SWMU 18 Interim Measures Report (AMEC Environment & Infrastructure, Inc., 2014). The IM was based on the April 15, 2014 Work Plan which was approved by the USEPA via email dated April 28, 2014. In a letter dated January 27, 2015, Honeywell responded to the USEPA's December 24 and 29, 2014 comments on the Interim Measures Report, suggesting that it be permitted to complete the RFI, including assessment of residual risk, and then proposed additional activity as is supported by the data.
- On January 9, 2015, Honeywell submitted RFI Work Plan Rev. 3 for the DVW (Amec Foster Wheeler Environment & Infrastructure, Inc., 2015a).
- On April 15, USEPA transmitted its comments on RFI Work Plan Rev. 3 for the DVW.
- On June 6, 2015, Honeywell submitted the RFI Work Plan Rev. 4 for the DVW, which was approved by the USEPA on June 8, 2015 (Amec Foster Wheeler Environment & Infrastructure, Inc., 2015b).
- On April 16, 2016, Honeywell submitted the RFI Report (Amec Foster Wheeler Environment & Infrastructure, Inc., 2016).
- On May 22, 2018, the USEPA provided comments on the 2016 RFI Report, requesting a work plan to address the VOC contamination at the MW6 Area, the groundwater plume at

Areas 5 and 6, and soil vapor intrusion in occupied buildings. The USEPA also requested a work plan for implementation of interim measures at SWMUs 13, 15, 16, and 17 and AOC16NP (USEPA, 2018).

- On June 28, 2018, Honeywell submitted the SWMU 9 Geotech Investigation Work Plan, Rev. 1 (Amec Foster Wheeler Environment & Infrastructure, Inc., 2018), which was approved by the USEPA via email on July 3, 2018.
- On February 28, 2019, Honeywell submitted the RCRA Facility Investigation Phase IV Work Plan to address the VOC contamination at the MW6 Area, the groundwater plume at Areas 5 and 6, and soil vapor intrusion in occupied buildings (Amec Foster Wheeler Environment & Infrastructure, Inc., 2019), which was approved by the USEPA via email on March 12, 2019.
- On June 3, 2019, Honeywell submitted the Vapor Intrusion Technical Memorandum (Wood, 2019a) which was approved by the USEPA via email on August 26, 2019.
- On June 13, 2019, Honeywell submitted the Interim Groundwater Report for the MW6 Area (Wood, 2019b) which recommended additional soil borings and monitoring well installation to further delineate the extent of impacts in the MW6 Area, which was approved by the USEPA via email on July 3, 2019.
- On June 13, 2019, Honeywell submitted the Revised SWMU 9 Geotechnical Investigation Report (Wood, 2019c), which was approved by the USEPA via email on June 26, 2019.
- On January 31, 2020, Honeywell submitted the SWMU 9 RFI Phase IV Supplemental Summary Tables and Figures (Wood, 2020a).
- On April 29, 2020, Honeywell submitted the SWMU 9 Data Summary Report (Wood, 2020b), which was approved by the USEPA via email on June 1, 2020.
- On February 2, 2021, Honeywell submitted the Demolition Investigation Work Plan (Wood, 2021a), which was approved by the USEPA via email on January 29, 2021, pending minor revisions discussed with the USEPA that were included in the February 2, 2021 submittal.
- On June 26, 2021, Honeywell submitted Appendix C to the SWMU 9 Data Summary Report (Wood, 2021b) following the USEPA's request via letter dated May 27, 2021 for an evaluation screening (USEPA, 2021a). The objective of the request was to assist the USEPA in its determination of constituents of concern (COCs) besides arsenic that should be included in the design criteria for the sediment cap amendment alternative for the Delaware River nearshore sediments.
- On August 17, 2021, the USEPA provided additional comments on the April 12, 2016 RFI Report, clarifying what is required for a Draft RFI Report that would incorporate results from previous investigations and that the SWMUs identified for interim measures in the USEPA's May 22, 2018 letter (SWMUs 13, 15, 16, 17, and AOC 16NP) would be included as part of the CMS for the Site (USEPA, 2021b).

- On August 25, 2021, Honeywell submitted the Revised MW6 Area Data Summary Report to address the USEPA's July 30, 2021 comments on the October 29, 2020 MW6 Area Data Summary Report (Wood, 2021c). The Revised MW6 Area Data Summary Report was approved by the USEPA via letter dated August 30, 2021 (USEPA, 2021c).

2.4 PREVIOUS INVESTIGATIONS

Previous RFI investigations are documented in the following reports which have been submitted to the USEPA.

- *RFI Data Summary Report, Honeywell Facility, Claymont, Delaware (MWH Americas, Inc., October 2003)*
- *Summary of Presentation Items, General Chemical Corporation, Delaware Valley Works Facility, Claymont Delaware (Cummings-Riter, November 7, 2003)*
- *Phase II RFI Data Summary Report, Honeywell Delaware Valley Works Facility, Claymont, Delaware (MWH Americas, Inc., May 2005)*
- *Soil Vapor Intrusion Investigation, Honeywell Delaware Valley Works, Claymont, Delaware (MACTEC Engineering and Consulting, Inc., December 2008)*
- *AOC 16NP Investigation Report, Honeywell International Inc., Delaware Valley Works, Claymont, Delaware (MACTEC, February 2010)*
- *RCRA Facility Investigation Report, Honeywell Delaware Valley Works, Claymont, Delaware (Amec Foster Wheeler Environment & Infrastructure, Inc., April 2016)*
- *SWMU 9 Geotechnical Investigation Report, Honeywell Delaware Valley Works, Claymont, Delaware (Wood, June 13, 2019)*
- *SWMU 9 Data Summary Report, Honeywell Delaware Valley Works, Claymont, Delaware (Wood, April 29, 2020)*
- *Vapor Intrusion Technical Memorandum, Honeywell International Inc., Delaware Valley Works, Claymont, DE (Wood, June 3, 2019)*
- *Groundwater Interim Report, Delaware Valley Works, Claymont, DE (Wood, June 13, 2019)*
- *SWMU 9 Data Summary Report, Honeywell Delaware Valley Works, Claymont, Delaware (Wood, April 29, 2020)*
- *Revised MW6 Area Data Summary Report, RCRA Facility Investigation Phase IV, Honeywell International Inc., Delaware Valley Works, Claymont, DE (Wood August 25, 2021)*

2.5 PHYSICAL SETTING

Regional Geology

The DVW is located within the Coastal Plain Physiographic Province. The Coastal Plain consists of unconsolidated sediments from the Cretaceous, Tertiary, and Quaternary ages overlying pre-Cambrian bedrock. These unconsolidated sediments consist of gravel, sand, silt, and clay deposits. These sediments thicken eastward towards the Delaware River (Amec Foster Wheeler Environment & Infrastructure, Inc., 2016).

Local Geology

The DVW lies approximately 1 mile east of the Fall Line, which marks the beginning of the Piedmont Physiographic Province. Local subsurface geology is known from boring logs provided by prior investigations and this RFI. The surficial unit over the majority of the DVW consists of an historic fill material used to create grades for building and to level the site. The historic fill typically ranges from 0 to 7 feet bgs. It is underlain by unconsolidated fluvial deposits of silty clay, which are in turn underlain by sand and gravel deposits of varying thickness. These unconsolidated units extend downward to a weathered bedrock (saprolite) grading into unweathered bedrock. Saprolite and/or bedrock are typically encountered at approximately 16 to 19 feet bgs. In some areas, the saprolite/weathered bedrock extends to depths of up to approximately 39 feet bgs where competent bedrock is encountered. At the adjacent Chemtrade property to the south of the DVW, the bedrock dips downward and is reportedly encountered at depths ranging from approximately 16 feet bgs along Philadelphia Pike to as deep as 54 feet bgs along the Delaware River. Saprolitic materials have been identified at depths of up to 35 feet bgs and greater near SWMU 9.

Regional Hydrogeology

The principal water-bearing zone consists of unconsolidated sand and gravel units of the Coastal Plain Sediments. Inter-bedded silts and clays may create semi-confined hydraulic conditions at depth locally. Recharge of the unconsolidated aquifer occurs mainly in the form of infiltrating precipitation and vertical leakage. The water table aquifer generally follows topography and flows from areas of higher elevation to lower elevations.

Local Hydrogeology

Characteristic of the Coastal Plain sediments of the region, the principle water-bearing zone at the DVW plant consists of an unconsolidated sand and gravel which underlies historical fill materials and discontinuous silty-clay units. Groundwater occurs in these units under water table conditions and was encountered generally between 7 and 13 feet bgs during well installations. Shallow water level data collected in synoptic water level measurements during the prior RFI investigation work indicate groundwater flow direction to the south-southwest toward the Delaware River discharge boundary. Historical investigations have suggested that the Delaware River is also a discharge boundary for the uppermost bedrock, creating an upward hydraulic

gradient between the bedrock and unconsolidated aquifers (Amec Foster Wheeler Environment & Infrastructure, Inc., 2016).

Groundwater flow beneath SWMU 9 is generally toward the south to the Delaware River discharge boundary. The SWMU's western boundary, the sluiceway, is likely also a discharge boundary. Water level studies conducted in 2010 (Delaware River Sediment Investigation) showed little or no evidence of tidal influence on water levels in monitoring wells screened in the overburden units proximal to the Delaware River, possibly due to dewatering consolidation of the underlying native materials by the overlying mass of materials disposed of in SWMU 9.

Slug test data indicates that the estimated hydraulic conductivities for overburden units beneath the DVW plant ranged from 0.0002 to 0.001 ft/day. The estimated hydraulic conductivities for the overburden beneath SWMU 9 were similar and ranged from 0.00009 to 0.001 ft/day.

The potable water at the DVW plant is obtained from the Chester Water Authority in Chester, Pennsylvania. No production or potable wells were detected within a 0.5 mile radius database search conducted by Delaware Department of Natural Resources and Environmental Control (DNREC) and PADEP. Activities at the adjacent Sun Oil refinery are reported to have impacted local groundwater quality (Amec Foster Wheeler Environment & Infrastructure, Inc., 2016) and may have impacted groundwater in the northeast quadrant of the DVW.

Surface Water

The DVW plant is located approximately 3000 feet upgradient of the Delaware River. The Delaware River, which is tidally-influenced, flows from north to south forming the south boundary SWMU 9 and the Chemtrade property. Storm water from the DVW, Philadelphia Pike and the Chemtrade property is discharged into storm sewers that ultimately discharge to the sluiceway on the Chemtrade property. The sluiceway extends approximately 1,800 feet south through the Chemtrade property and along the western perimeter of SWMU 9 to its outfall in the Delaware River. The outfall is a National Pollutant Discharge Elimination System (NPDES) discharge point maintained and monitored by Chemtrade.

2.6 CONCEPTUAL SITE MODEL (PRE-RFI)

Generalized Conceptual Site Model

The 2015 RFI Work Plan and subsequent work plans (the 2019 Phase IV RFI Work Plan, the 2019 Supplemental SWMU 9 Work Plan, and the 2021 Demolition Site Investigation Work Plan) presented a preliminary Conceptual Site Model (CSM) for DVW to identify potentially complete current exposure pathways, and current and reasonably expected future receptors. DVW was a chemical manufacturing facility which ceased operations in 2019. The facility, although not operational, is equipped with security staff, controlled access, security fencing, and video surveillance. Consequently, while trespassing on the Site is a possibility, it is unlikely that a trespasser would be able to gain access and remain on the property undetected.

The DVW plant is located within an area zoned for heavy industry and is surrounded on all sides by refineries or other heavy industrial facilities. Residential use and residential populations as receptors are not reasonably expected future exposure scenarios.

The DVW plant property, with the exception of SWMU 9, is distant from the nearest water body that might serve as a habitat. The Delaware River is located approximately 3,000 feet to the south. Storm water drainage from the DVW plant is conveyed to the Delaware River via storm sewers and a sluiceway. These features were remediated in 2011, 2013 and 2021, respectively, and remediation approach of sediment in the Delaware River adjacent to SWMU 9 is being evaluated. On the plant itself, there are no undeveloped or native vegetation areas that might serve as habitat for wildlife, although the vegetation that covers SWMU 9, in view of its remoteness from human activities, serves as habitat. Consequently, ecologic exposure scenarios are not of concern on the DVW plant, but were considered on SWMU 9.

Based on discussions held with USEPA during the August 28, 2014 scoping meeting (see August 28, 2014 meeting Summary in **Appendix A**) the current and reasonably expected current and future site use, the only receptor populations with the potential to be exposed to the COCs included:

- Site Workers
- Construction Workers
- Trespassers
- Ecologic Receptors (SWMU 9 only)

The SWMUs/AOCs are locations where disposal of hazardous constituents is known or believed to have historically occurred. Potential pathways for hazardous constituents to migrate away from the SWMUs/AOCs include:

- Surficial erosion of particulates due to storm water runoff and wind;
- Migration of hazardous constituents as free product from their disposal location into subsurface soils under the forces of gravity;
- Volatilization of hazardous constituents into the air or soil vapor; and
- Leaching of hazardous constituents from the waste mass or underlying soils into groundwater with migration down gradient as part of the groundwater flow. With the exception of SWMU 9, discharge of dissolved constituents in groundwater to surface water is not a currently complete pathway due to the distance between the DVW and the Delaware River.

Preliminary evaluation of exposure scenarios and current and reasonably expected future receptors associated with these migration pathways suggests the following:

- There are no currently complete direct contact exposure pathways to Site Workers or Trespassers for surficial soils. The SWMUS on the DVW are covered with macadam paving and/or concrete paving, with geofabric and gravel cover, or are vegetated.
- There are no currently complete direct contact, ingestion or inhalation exposure pathways to subsurface soils except to Construction Workers in excavation scenarios during construction. Waste material constituents are below ground surface or covered with clean materials. Honeywell employs strict institutional controls for all excavation activities in the form of a Facility Soil Management Plan and by requiring excavation permits for all subsurface excavations in accordance with the facility Standard Operating Procedure (SOP) “Excavation Procedure and Permit”. The SOP identifies excavation procedures and backfill requirements, including appropriate Personal Protection Equipment (PPE) and monitoring that must be followed for each excavation at the site. Personnel from the facility Health, Safety and Environment Department review and approve all excavation activities to ensure Site Worker and Construction Worker direct contact and inhalation exposure is avoided or limited by protective measures. Because Site Workers are required to follow these procedures, these exposure pathways are only potentially complete.
- The SWMU/AOC-related hazardous constituents include VOCs, so volatilization and inhalation is a potentially complete exposure pathway for site workers engaged in excavation activities. Site Worker exposure due to soil vapor intrusion by VOCs into DVW buildings was evaluated in 2008 and concluded this was an incomplete exposure pathway. An additional VI assessment was conducted in 2019 and concluded no unacceptable risks with the exception of TCE in the area of the former BF3 Control Room, which was mitigated at that time. The BF3 Control Room has since been demolished, along with all other occupied buildings except for the Guardhouse. The results of the 2019 VI assessment demonstrated no VI concerns for the Guardhouse.
- There is no currently complete direct contact or ingestion exposure pathway to impacted groundwater beneath the property. Groundwater is not used as a resource at the DVW or on surrounding properties. Currently, all potable water and water used for processes and fire suppression are obtained from the Chester Water Authority in Chester, PA. During the scoping meeting on August 28, 2014, USEPA agreed that it is not necessary in the Risk Assessment to evaluate risk of groundwater as a drinking water source if assumed to be contaminated and the goal is restoration to drinking water standards and screening concentrations where appropriate (see August 28, 2014 Meeting Summary in **Appendix A**).
- Subsurface storm sewers may provide a potential migration pathway for impacted groundwater to discharge to the Delaware River. Migration of impacted groundwater to offsite areas may also be occurring and is being evaluated in this RFI.
- Direct contact and inhalation exposure to surface water impacted by discharging groundwater is not a currently complete human health exposure pathway. The SWMUs/AOCs/additional investigation areas (except SWMU 9) are approximately 3000 feet

from the closest surface water body (Delaware River) and any hazardous constituents that might be in groundwater discharge are greatly attenuated by mixing with surface water.

In summary, while potential exists for migration of constituents to impact soil and groundwater within and proximal to the SWMUs and AOCs, the data available prior to this RFI suggest that potential human exposure pathways on DVW are currently incomplete because:

- Hazardous constituents are below ground surface;
- All SWMUs and AOCs are covered by paving, gravel/geofabric, or vegetation;
- Facility institutional controls protect Construction Workers and Site Workers in excavation scenarios;
- DVW use is industrial and access to the DVW is restricted to Site Workers and other persons authorized to enter;
- Potable and process water is supplied by a public utility; and
- Soil vapor intrusion into buildings on site has been eliminated as an exposure pathway.

SWMU 9 Site Conceptual Model

SWMU 9 is 14.56 acres enclosed by a chain link fence on three sides and the Delaware River on the fourth. It is over 2,000 feet from the nearest public road and accessible only by traversing the Chemtrade property (secured by chain link fence and daytime caretaker) or by boat from the Delaware River. It is not regularly occupied by Site Workers or contractors for any reason other than one required annual permit inspection and for operation and maintenance (O&M) activities.

SWMU 9 was created by infilling marsh area and the near shore area of the Delaware River. No historical records are available documenting the nature of the fill prior to 1966. Air photos⁴ from 1937 show the marsh area already being filled, with a bulkhead or other structure coincident with the Chemtrade shoreline enclosing the river side boundary. By 1950, the enclosing bulkhead had been moved outward to approximately its present location. Beginning in 1966, SWMU 9 was used for storage and dewatering of alum mud sludge. Alum mud was placed within containment berms and bulkheads, and water entrained in the mud was allowed to decant into the river. This practice continued into the 1980s, with air photos from 1982 and 1987 showing that SWMU 9 had reached its current configuration.

Based on the data available prior to this RFI, potentially complete exposure pathways were present at SWMU 9 for inorganic constituents and pesticides. These exposure pathways are direct contact with surficial materials, leaching of constituents to groundwater, and surface water runoff transporting particulates to surface water. Potential receptors include Trespassers, Site workers, and Ecologic Receptors.

⁴ Air photos from 1937 to 2006 were included in the 2015 RFI Work Plan as Appendix A.

The SWMU has a peak elevation of approximately 45 feet above mean sea level (MSL) at its highest point and reportedly consists of alum mud. Although SWMU 9 is heavily vegetated by trees, shrubs and grasses, alum mud materials are exposed at the surface in some areas and available for direct contact. Since the SWMU is situated directly on the bank of the Delaware River, SWMU-related particulates may be transported by surface water runoff and/or dissolved constituents may be transported via groundwater to the Delaware River. Each of these routes is a potentially complete exposure pathway.

2.7 RFI WORK PLAN DEVELOPMENT

The 2015 Phase III RFI Work Plan was formulated to align the path forward at the Site with the objectives of USEPA's Corrective Action Lean Project. Subsequent work plans (the 2019 Phase IV RFI Work Plan, the 2019 Supplemental SWMU 9 Work Plan, and the 2021 Demolition Site Investigation Work Plan) generally followed the same methodologies and QA/QC as the 2015 Phase III RFI Work Plan. In March 2014, Honeywell submitted a Corrective Action Framework Technical Memorandum (Memorandum) for the Site as a basis for agreement with USEPA on the scope of further RFI activities and Corrective Actions (CAs). The Memorandum included the results of data screening to identify where additional RFI work was indicated to close data gaps. Reasonably expected future use of the DVW and receptor populations were defined as part of the data screening process. Surrogate COC risk-drivers were identified in the soil and groundwater data and 2015 RFI work scope activities were discussed in broad terms as the details of these activities were to be defined in the 2015 RFI work plan. Generally, the recommended work scope included:

- RFI investigation tasks associated with completing delineation of soils impacts;
- An enhanced groundwater monitoring network to verify presence or absence of impacts associated with specific SWMUs;
- Site-wide groundwater monitoring enhancements by installation of monitoring wells to assess conditions at the property boundaries and in the Site interior thereby supporting a Groundwater Indicator (EI) status submittal;
- Fate and transport assessment employing simple analytical models widely used and acceptable to USEPA; and
- Risk assessment in general accordance with USEPA RAGS tailored to be consistent with USEPA's Lean Program.

Subsequent work plans (the 2019 Phase IV RFI Work Plan, the 2019 Supplemental SWMU 9 Work Plan, and the 2021 Demolition Site Investigation Work Plan) were based on and referenced the 2015 RFI Work Plan. In preparing the 2015 RFI Work Plan, Wood reviewed historical boring logs and test pit logs generated by the Phase I and Phase II RFI work to identify visual observations indicative of waste materials or non-native materials present in the subsurface such as:

- Obvious non-native materials;
- Glass or bottleware;

- Containers of any type;
- Oily or stained materials;
- Debris and rubble;
- Sludge-like material; and,
- Very high readings from a photo-ionization detector.

As part of the 2003 Phase I RFI work, ground penetrating radar (GPR) and other geophysical surveys were conducted over a number of the SWMU areas identified by historical records and employee recollection. The GPR surveys were often able to identify areas of disturbed soils and occasionally identified subsurface anomalies, each of which helped to define the physical extent of waste.

The 2015 RFI Work Plan also reviewed the historical analytical database for the Site to identify chemicals that exceeded waste screening criteria for chemical evidence of waste. Following an assessment of historical data usability, historical analytical data for each SWMU/AOC were statistically summarized by chemical reporting minimum and maximum concentrations. For each SWMU or AOC, based on the nature of the analyte, the maximum analyte concentrations were compared to three waste screening criteria:

- Mobile analytes: Chemicals that may pose a continued source to groundwater where soil concentrations exceeded the impact-to-groundwater soil saturation limit.⁵
- Immobile analytes: Chemicals that may pose a direct contact threat as defined by nonresidential risks $>10^{-3}$ or hazards of 1000, as determined by soil concentrations exceeding 1000 times the Industrial Direct Contact RSL.⁶
- Other analytes: Chemicals not included in the above two classifications that may pose a groundwater and/or direct contact source determined by soil concentrations exceeding 1000 times the most stringent of the impact-to-groundwater or direct contact RSL.

If the analyte exceeded any of these criteria, it was considered chemical evidence of waste.

These criteria were also used in evaluating the SWMUs, AOCs, and additional investigation areas using updated sources^{5,6}. If the analyte exceeded any of these criteria, it was considered evidence of waste for the SWMUs and AOCs and evidence of impact for the additional investigation areas.

After completing evaluation and screening of all historical data, the final RFI Work Plan objectives to be achieved through of the work scope were established as:

⁵ Table 1 Soil Remediation Standards – Migration to Ground Water Exposure Pathway (SRS-MGW) from NJDEP Soil and Soil Leachate Remediation Standards for the Migration to Ground Water Exposure Pathway Basis and Background May 2021 (https://www.nj.gov/dep/srp/guidance/rs/bb_migration_gw.pdf).

⁶ Those listed in NJDEP Soil and Soil Leachate Remediation Standards for the Migration to Ground Water Exposure Pathway Basis and Background May 2021 (https://www.nj.gov/dep/srp/guidance/rs/bb_migration_gw.pdf).

1. Collection of remaining data necessary to delineate the extent of waste and the release of hazardous constituents at SWMUs and AOCs, to evaluate human health and environmental risk, and to support selection of corrective measures at SWMUs as noted in the March 2014 Corrective Action Framework Technical Memorandum;
2. Collection of groundwater data necessary to support a Current Human Exposures Under Control EI status of “Yes”;
3. Collection of groundwater data necessary to support a Migration of Contaminated Groundwater Under Control EI status of “Yes”; and
4. Completion of a Human Health Risk Assessment (RA) to provide the basis for USEPA selection of corrective measures.

3.0 INVESTIGATION METHODOLOGIES

3.1 DRILLING LOCATION CLEARANCE

Soil boring and monitoring well installation locations on the DVW site (excluding locations on SWMU 9) were cleared to ensure that no subsurface utilities or obstructions were encountered. Wood reviewed historical maps provided by Honeywell to avoid known underground utilities. Following this map review, all drilling locations and the surrounding 10 feet were surveyed using ground penetrating radar (GPR). In active operating areas, the planned drilling locations were excavated using soft dig techniques. When underground utilities were identified or suspected, the proposed drilling locations were offset sufficiently to ensure no damage occurred.

3.2 SOIL BORINGS

The soil boring and sampling program objectives was to: 1) complete the horizontal and vertical delineation of the extent of waste materials in the SWMUs and/or where these materials may have migrated; and 2) provide data describing surficial conditions to assess direct contact risk. Soil borings were advanced continuously using direct push drilling methods to the planned terminal depth using a direct push rig.

Materials recovered from borings were inspected by the field geologist for presence (or absence) of waste materials, staining, and other visual or olfactory indicators of impacts, and will be screened using a photo-ionization detector (PID). Key observations made by the field geologist at every boring included:

- Depth of first encounter with groundwater; and,
- Visual or other evidence of waste materials;
- The boundary between fill or waste materials and native soils.

The field geologist selected soil samples based upon visual, olfactory and PID screening for laboratory analyses according to these criteria:

- No samples were collected from below the water table for laboratory analyses.
- For the purpose of horizontal delineation, the samples were selected to be representative of native material beyond the horizontal limits of any distinguishable waste materials at SWMUs and AOCs. During the investigation of the additional areas, step-out borings were advanced approximately 20 feet away to the north, south, east, and west when evidence of impact was observed, such as elevated PID readings, staining, and odors.
- For the purpose of vertical delineation, the subsurface sample intervals were selected to be representative of:

- Native material beyond the vertical limit of waste.
- If waste materials or gross impacts from waste materials extended below first encounter with groundwater, drilling continued until native soils were encountered and assumed to be impacted to that depth.

From July 21 through October 7, 2015 a total of 42 soil borings were advanced for purposes of horizontal and vertical delineation. Boring depths ranged from 1.0 to 18.5 feet bgs. A total of 84 soil samples were collected for laboratory analyses for Target Compound List (TCL) VOCs, TCL SVOCs, TCL pesticides, and TAL metals. Sample locations are shown on **Figures 8 through 20** and **Plates 1 through 12**.

From March 1 through August 13, 2021 a total of 116 primary borings and 102 step-out borings were advanced as part of the Demolition Investigation. Boring depths ranged from three to 45 feet bgs. A total of 402 soil samples and 7 grab groundwater samples were collected for laboratory analyses for TCL VOCs, TCL SVOCs, TCL pesticides, and TAL metals. Sample locations are shown on **Figures 21 through 25 and Plates 13 through 18**.

3.3 SURFACE SOIL SAMPLES

From July 23 through October 7, 2015 surface soil samples were collected at 47 locations from the 0 to 1-foot bgs depth interval purpose of providing data for assessment of direct contact risk. Where paving was present, an access portal was cut through the paving and the sample collected from the 0 to 1-foot bgs depth interval below the paving. Thirty-three of these samples were collected from the 0 to 1-foot bgs depth interval at the location of the new soil borings discussed in **Section 3.2** and five of the surficial soil samples were collected from the 0 to 1-foot bgs depth interval at the location of new groundwater monitoring wells (discussed below in **Section 3.5**). Soil samples were collected for laboratory analyses for TCL VOCs, TCL SVOCs, TCL pesticides, and TAL metals.

During the investigation of additional areas from March 1 through August 13, 2021 surface soil samples were collected at 202 locations from the 0 to 2-foot bgs depth interval purpose of providing data for assessment of direct contact risk. Where paving was present, an access portal was cut through the paving and the sample collected from the remainder of the 0 to 2-foot bgs depth interval. Soil samples were collected for laboratory analyses for TCL VOCs, TCL SVOCs, TCL pesticides, and TAL metals.

3.4 GEOTECHNICAL BORINGS AND TEST PITS

Investigation activities to acquire data describing the geotechnical properties of the sludge pile and underlying native soils were conducted at SWMU-9 in 2015 and 2018. Soil borings (SB), test pits

(TP), and cone penetrometer (CPT) borings were conducted at locations depicted on **Figure 8** and **Plate 1**.

On July 8 and 9, 2015, five test pits (SM9-TP1 through SM9-TP5) were excavated at SWMU 9 by Lewis Environmental of Royersford, Pennsylvania under Wood's oversight. Each test pit was approximately 10 feet long by three (3) feet wide. SM9-TP1 was excavated to a depth of 7.5 feet bgs; SM9-TP2 was excavated to a depth of 4 feet bgs; SM9-TP3 was excavated to a depth of 7.0 feet bgs; SM9-TP4 was excavated to a depth of 5.0 feet bgs, and SM9-TP5 was excavated to a depth of 8.0 feet bgs. The planned test pit terminal depth was 10 feet bgs; however, refusal on cemented materials prevented excavation to the planned depth. Eight bulk grab samples representative of the sludge materials were collected from the test pits and submitted for geotechnical testing.

From July 15 through 17, 2015, five of the seven planned soil borings (SM9-SB3 through SM9-SB-7) were advanced through the sludge pile to native soils. Each was advanced with continuous split-spoon sampling to a depth of 12 feet bgs, and then split-spoon samples at five-foot intervals thereafter beginning at 15 feet bgs to terminal depth within the native soils at approximate elevation -20 MSL. Soil borings SM9-SB1 and SM9-SB2 were not completed because their planned locations proved inaccessible to the drilling rig.

Representative Shelby tube samples of the sludge and of the underlying native silty clay/silt soils were collected at the following locations and depths.

- SM9-SB3 – 8 to 10 feet bgs and 12 to 14 feet bgs;
- SM9-SB5 – 2 to 4 feet bgs; 4 to 6 feet bgs; and 12 to 14 feet bgs;
- SM9-SB6 – 6 to 8 feet bgs and 17 to 19 feet bgs;
- SM9-SB7 – 12 to 14 feet bgs and 22 to 24 feet bgs.

Split spoon and Shelby tube samples were submitted for geotechnical testing as follows:

- Water content (%)
- Liquid limits/plastic limits (Atterberg limits)
- Grain size (sieve and hydrometer)
- Bulk density
- Permeability test
- Consolidation test
- Compaction test
- pH – sludge material and leachate

On July 23 and 24, 2015, seven of the 11 planned cone penetrometer (CPT) borings were advanced at the locations shown **Figure 8** and **Plate 1**. Resistance data was recorded continuously on CPT logs for each boring. One additional cone penetrometer boring (SM9-CP12) was added to the plan

and advanced at the location of Test Pit SM9-TP3 where refusal was encountered during the test pit program. This cone penetrometer also encountered refusal at that location before the planned terminal depth. Actual terminal depths are summarized below:

- SM9-CP2, advanced to 6 feet bgs;
- SM9-CP3, advanced to 18.7 feet bgs;
- SM9-CP4, advanced to 4 feet bgs;
- SM9-CP6, advanced to 16.5 feet bgs;
- SM9-CP7, advanced to 17 feet bgs;
- SM9-CP10, advanced to 2 feet bgs;
- SM9-CP11, advanced to 5 feet bgs; and
- SM9-CP12, advanced to 8.5 feet bgs.

During the 2018 geotechnical investigation, six borings were advanced to support the corrective measure at the Site (SM9-SB1, SM9-SB2, SM9-SB8, SM9-SB9, SM9-SB10, and SM9-SB11). The borings were installed by Ameridrill, Inc. of Levittown, Pennsylvania, subcontractor to Wood, from August 13 through 22, 2018 and overseen by a Wood geologist.

The borings were drilled with a truck-mounted CME-85 drill rig and were advanced between samples using auger drilling techniques. Soil samples were obtained from the boreholes for identification and classification purposes by means of a 2-inch outside diameter (O.D.) split-barrel sampler driven up to 24 inches with 140-pound freely falling 30 inches [in general accordance with the Standard Penetration Test² American Society for Testing and Materials (ASTM) D1586]. The number of hammer blows required to drive the sampler during the interval from 6 to 18 inches is known as the "N-value" and is noted on the boring logs.

The compressive strength of cohesive soil samples was evaluated by the use of a Pocket Penetrometer. This hand-held device provides an indication of unconfined compression strength. The Pocket Penetrometer readings, in tons per square foot, are presented on the boring logs.

Continuous split spoon samples were collected to 10 feet bgs during the 2018 investigation. At depths greater than 10-foot bgs, split spoons were collected every 5 feet until within 6 feet of expected encounter with native soils and were generally continuous thereafter to the planned terminal depth per the work plan. In addition, Shelby tubes were collected in each of the borings in silt/clay material. The collection of split spoon and Shelby tube samples generally adhered to ASTM 1586-11 and ASTM D1587-D/D1587M-15 methods respectively.

The borings were advanced to depths of approximately 36 to 87 feet bgs using a hollow stem auger, generally following ASTM D1452/D1452M-16. Borings were targeted to terminate when the sand and gravel horizon was encountered as identified by the field geologist.

A total of 84 split spoon samples and six Shelby tube samples were collected for analyses of their physical and engineering properties. The Standard Penetration Test samples were collected in 8-ounce geotechnical sample jars. The Shelby tube samples were collected in a 2.8-inch by 30-inch long thin-walled, specially machined hollow steel tubes. After collection, the samples were delivered to CMT Services Group (CMT) of King of Prussia, Pennsylvania for the following tests:

- a. Physical Properties (split spoon samples)
 - i. Water Content (%) - ASTM D2216;
 - ii. Liquid Limits/Plastic Limits (Atterberg Limits) - ASTM D4318;
 - iii. Specific Gravity – ASTM D854;
 - iv. Grain size (sieve/hydrometer) ASTM D422;
 - v. Unified Soil Classification System (USCS) material classification - ASTM D2487;
 - vi. Bulk Density – ASTM D4531; and
 - vii. Permeability – ASTM D5084

- b. Engineering Properties (Shelby tube samples)
 - i. Consolidation Test – ASTM D2435;
 - ii. Unconsolidated Undrained Triaxial Compression Test - ASTM D2850;
 - iii. Consolidated Undrained Triaxial Compression Test - ASTM D4767; and
 - iv. Compaction Test (Standard Proctor) – ASTM D698.

The locations of the borings are shown on **Figure 8** and **Plate 1**. Boring logs are included in **Appendix B**. Results of geotechnical laboratory tests on soil samples are presented in **Appendix G**.

3.5 MONITORING WELL INSTALLATION AND DEVELOPMENT

The objectives of the monitoring well installation program were to: 1) position monitoring wells up and/or down gradient of SWMUs, AOCs, and additional areas so that relationships between groundwater quality and waste or impacts in the SWMUs, AOCs, and additional areas may be identified; and 2) provide the ability to monitor changes in groundwater quality after implementation of remedial measures. Wood contracted Ameridrill, Inc. of Levittown, Pennsylvania, a Pennsylvania and Delaware-licensed well driller, to install the 2015 through 2018 wells and Parratt-Wolff, Inc. of Lewisburg, Pennsylvania, a Pennsylvania and Delaware-licensed well driller, to install subsequent wells.

During the 2015 RFI, new monitoring wells installations were advanced continuously using hollow stem auger (HSA) drilling methods with split-spoon sampling to the planned terminal depth. From July 31 through August 19, 2015, 24 of the 25 planned monitoring wells were installed using a HSA drilling rig, model number CME75 at the locations depicted on **Figure 3**. One planned monitoring well (well SM30-MW1) was not installed as air monitoring detected elevated VOC levels in the breathing space during drilling that would have mandated an upgrade to Level B personal protection.

From November 8 through 23, 2021, during the 2021 Demolition Investigation, 10 shallow and three deep monitoring wells were installed by Parratt-Wolff under Wood's oversight using a truck-mounted Diedrich D-50 HSA rig. The location and depths of the monitoring wells were approved by the USEPA during a conference call on October 12, 2021 following the submission of soil data summary tables and proposed monitoring well locations to the USEPA via email October 5, 2021 (see **Figure 3**). The shallow monitoring wells were screened in the unconsolidated overburden, similar to previous onsite monitoring wells. The deep wells were screened in the weathered bedrock beneath the overburden, just above the interface between weathered bedrock and competent bedrock to evaluate the potential for DNAPL.

Continuous split-spoon samples were collected to the terminal depth of the boring for the first eight wells installed (wells SM16-MW1, AOC16NP-MW1, SM27-MW1, AOC16NP-MW2, SM15-MW1, SM15-MW2, SM14-MW1, and SM16-MW2). However, a field decision was made to thereafter collect split-spoons every other two feet for the remaining wells to expedite the well installation process. Soil sampling was not required for the monitoring wells installed at the additional areas in 2021 because they were installed in areas of previous direct-push boring locations that were logged and sampled. Monitoring well construction logs are provided as **Appendix B**.

Wells were constructed of Schedule 40, 2-inch-diameter polyvinyl chloride (PVC) with a 10-foot long slotted screen section (0.010-inch machined slots) and a solid PVC riser pipe, connected by flush-thread fittings. To account for potential seasonal water level fluctuations the screen intervals in the shallow monitoring wells were positioned such that approximately 2 feet of screen extended above the first encounter with the water table elevation and approximately 8 feet of screen below. Sand was installed in the annulus up to two feet above the top of the screen. A minimum one-and-a-half-foot-thick seal of bentonite chips above the top of the sand pack. A bentonite-cement slurry was tremied into the borehole to approximately 0.5-feet from ground surface. The deep wells were installed by casing off and grouting the overburden before drilling into the weathered bedrock where the wells screened. The well casing was secured with a locking cap and a protective steel casing with a concrete surface seal. RFI monitoring well construction specifications are provided in **Table 20**.

The monitoring wells were developed by Wood to remove sediment that may have accumulated during well installation, to consolidate the filter pack around the well screen, and to enhance the hydraulic connection between the target zone and the well. Monitoring well development was conducted no sooner than 48 hours following placement of the grout seal at each well using a submersible pump and surge block. A surge block was used to flush the filter pack of fine sediment. Surging was conducted slowly to reduce disruption to the filter pack and screen. The pump was lowered into the well to mid-screen depth and water was pumped into 55-gallon drums for temporary storage. The pumps were periodically raised and allowed to drain back into the hole in order to induce flow out through the well screen. Pumping continued, removing sediment drawn in by the surging process until suspended sediment was reduced to acceptable levels (see below). Pumping generally continued until a volume of water equal to or greater than three saturated well volumes was purged. A well was considered fully developed when all the following criteria were met:

- Discharge water was clear to the unaided eye (based on observations of water clarity through a clear glass jar);
- Sediment thickness remaining in the well was less than one percent of the screen length; and
- Total volume of water removed from the well equaled five times the standing water volume in the well (including the well screen and casing plus saturated annulus, assuming 30 percent porosity) plus the estimated volume of drilling fluid lost.

These criteria were modified at wells where the recharge to the well was so slow that the required volume couldn't be removed in less than 2 to 3 consecutive hours, if the water remained discolored, or excess sediment remained after the five-volume removal, purging was terminated (wells SM9-MW1, SM23-MW1, and SM18-MW1).

Non-dedicated pumps and tubing were decontaminated between wells. Development fluids were collected and transferred to an aboveground storage tank for holding until disposal. Stored development and purge water was transported offsite and disposed of by Veolia Environmental Services, Inc. (Veolia) of Philadelphia, Pennsylvania on November 17, 2015 for the 2015 sampling. Investigation-derived waste for the 2021 Demolition Investigation were transported offsite by Veolia in June and November 2021. Waste from the December 2021 groundwater sampling is currently stored onsite awaiting transportation by Veolia for offsite disposal. Disposal documentation is provided in **Appendix C**.

3.6 MONITORING WELL SAMPLING

A complete round of synoptic water levels (**Table 21**) was collected on December 1, 2021 prior to initiating the 2021 groundwater sampling (not including SWMU 9). A total of 53 existing and

newly installed monitoring wells were sampled as part of the Demolition Investigation using low-flow sampling techniques from December 2 through 15, 2021. The December 2021 sampling event did not include SWMU 9 wells; the most recent groundwater sampling event at SWMU 9 was in 2019. **Figures 4 and 5** are groundwater contour maps constructed from the December 2, 2021 measurements for the shallow and deep wells at the main DVW plant, respectively, and **Figures 6 and 7** are groundwater contour maps constructed from the December 6, 2019 measurements for the shallow and deep wells at SWMU 9, respectively.

Prior to commencing the sampling process, the initial depth to groundwater was measured in each well. The pump was then placed in the well with the intake set at the midpoint of the screened interval and the tubing was connected to the flow-through cell. Purging was conducted at a rate of <500 milliliters per minute (ml/min) with the water level monitored during purging to maintain not more than 0.3 feet of head change. During the purging process water quality parameters dissolved oxygen, oxidation/reduction potential (ORP), conductivity/specific conductance, temperature, pH, and turbidity were measured and recorded at least every five minutes. Purging continued until monitoring parameters stabilized after three consecutive readings within the following limits:

- Turbidity - +/- 10% for values greater than 10 NTU; if turbidity is greater than 10 and well is not stable, continue purging well for up to two hours, collect sample and document on field data record and in logbook (a filtered sample for metals analysis will be collected even if turbidity is less than 25 NTU).
- Dissolved Oxygen - +/- 10%
- Specific Conductance - +/- 3%
- Temperature - +/- 3%
- pH - +/- 0.2 standard units
- ORP - +/- 10 mV

After the monitoring parameters stabilized according to the above criteria, samples were collected by removing the in-flow tubing from the flow-through cell and inserting it into the sample container. Both unfiltered and filtered samples (using a 0.45 μ m cellulose-based membrane filter) were collected for total metals and dissolved metals analysis in 2015, respectively. Only filtered samples were collected for metals (dissolved) analysis in 2019 (for SWMU 9) and in 2021 (for all wells except those at SWMU 9). Certain wells (SM9-MW-1, SM18-MW1, and SM23-MW1 in 2015 and SM20-MW1, SM23-MW1, and A5-01 in 2021) recharged very slowly and were pumped dry during purging. Groundwater samples were collected with from these wells using a Teflon bailer within 24 hours after the well recharged. Water quality data recorded at the end of well purging is

summarized in **Table 22**. Groundwater samples were submitted for laboratory analysis for TCL VOCs, TCL SVOCs, TCL pesticides, and TAL metals (dissolved).

3.7 QUALITY ASSURANCE/QUALITY CONTROL

Chain of Custody

To document that the samples are representative of the environment from which they were collected, chain-of-custody records were used as control documents to demonstrate that sample maintenance and custody were maintained. The chain-of-custody record was initiated by the field sampling personnel upon sample collection and accompanied each sample cooler. The chain-of-custody was signed by each individual who had the samples in his/her possession. Upon sample receipt at the laboratory, the cooler temperature was recorded and the containers checked for proper preservation (with the exception of volatile organic analysis containers which were checked for preservation at the time of analysis). Deficiencies at the time of sample receipt at the laboratory were documented on the cooler receipt form, and the Project Manager notified for necessary resolution.

Field Quality Assurance (QA) Samples

In order to quantitatively assess the quality of the data, in accordance with the work plan, a variety of quality control samples were used. In the field, quality control samples used included field duplicates, equipment rinsate blanks, field blanks, and trip blanks to assess field representativeness.

Laboratory QA Samples

Matrix spikes and matrix spike duplicates (MS/MSD) were employed in the laboratory to measure target analyte recovery from the sample matrix. MS/MSD were employed in accordance with the approved quality assurance/quality control plan (QAPP).

Field Equipment Calibration

All field equipment used for measurements during the RFI was calibrated daily or as recommended by the manufacturer.

Laboratory

Laboratory quality assurance/quality control was conducted in accordance with the approved QAPP and as specified in the analytical method.

3.8 DATA VALIDATION/DATA MANAGEMENT

All analytical data for soils and groundwater was validated in accordance with the requirements of the approved QAPP. Data is entered into the Honeywell EQUIS management system, then validated for use in this report and the concurrent risk assessment. Data Validation reports are provided as **Appendix D**.

3.9 INVESTIGATION DERIVED WASTE

Handling

All drill cuttings, decontamination fluids, disposable contaminated PPE and contaminated field materials were drummed after use, labeled and dated, and staged at the DVW hazardous waste storage pad. Following characterization and profiling for disposal, all drummed materials were manifested offsite under the DVW USEPA ID number and disposed of at a permitted facility.

All monitoring well development and purge water was collected and stored onsite in an above ground storage tank until all monitoring well sampling was completed. Following characterization and profiling for disposal, all drummed materials were manifested offsite under the DVW USEPA ID number and disposed of at a permitted facility.

Disposal

Documentation IDW disposal is provided as **Appendix C**.

3.10 DEVIATIONS FROM THE WORK PLAN

Deviations from the Work Plans are summarized below. These deviations did not significantly impact the objectives of the RFI. No further work is recommended as a result of these deviations except as noted below per SWMU.

SWMU 9 – Geotechnical Soil Borings

The following two geotechnical soil borings were not completed due to inability to obtain drilling rig access:

- SM9-SB1
- SM9-SB2

The planned terminal depth for the 2015 test pits was 10 feet bgs; however, refusal on cemented materials prevented excavation to that depth.

SWMU 9 – RCRA Characteristic and TCLP

RCRA characteristic (Corrosivity) and toxicity characteristic leaching procedure (TCLP) testing was not completed for the SWMU 9 soil samples. These analyses will be conducted if necessary to evaluate a CM during the design process.

SWMU 9 – Cone Penetrometers

The following four cone penetrometers were not completed because results from initial cone penetrometers indicated refusal at shallow depths:

- SM09-CP1
- SM09-CP5
- SM09-CP8
- SM09-CP9

An additional cone penetrometer (SM09-CP12: 8.5') was installed at the location of Test Pit 3 for further evaluation.

SWMU 13

One additional soil boring (SM13-SB4) was installed to the west of the SWMU to evaluate the extent of waste based on initial observations. Soil sample SM13-SS1 was not collected since water was encountered immediately below ground surface

SWMU 17

The following three additional soil borings were installed to evaluate the extent of waste based on initial observations:

- SM17-SB2-SS
- SM17-SB3
- SM17-SB4

SWMU 27

One additional boring (SM27-SB2) was installed to evaluate the extent of waste based on initial observations.

SWMU 30

One additional boring (SM30-SB5-SS) was installed to evaluate the extent of waste based on initial observations. Monitoring well SM30-MW1 was not installed based on vapor emission observations during drilling which would have required Level B personal protection.

AOC 16NP

Six additional borings (AOC16-SB7 through AOC16-SB12) were installed to evaluate the extent of waste based on initial observations.

BF3 Operating Area

Borings SBBF3-22, SBBF3-24, SBBF3-25, SBBF3-26, SBBF3-35, and SBBF3-35 could not be completed due to the presence of a thick concrete pad.

4.0 DATA AND RESULTS

4.1 WASTE/IMPACTED AREA DELINEATION (HORIZONTAL AND VERTICAL)

One objective of the RFI was to complete delineation of where waste was placed or has migrated at each SWMU or AOC, as well as to delineate the impacts in the additional investigation areas. As summarized for each SWMU and AOC in Section 2.0, the 2015 RFI Work Plan delineations of waste/impacted areas (2015 RFI Work Plan, Appendix C and Appendix E) were based upon historical observations of physical evidence of waste materials for the SWMUs and AOCs and analyte exceedance of threshold criteria for chemical evidence of waste/impacts for the SWMUs, AOCs, and additional areas. The discussion below presents the RFI findings for each SWMU, AOC, and additional area using the criteria for physical evidence of waste and chemical evidence of waste developed in Section 2.7 of the RFI Work Plan.

SWMU 9

A number of samples were collected from soil borings during the 2003 Phase I RFI, and surface soil samples were collected over the entire surface of the SWMU during a 2010 sampling event associated with the offshore sediment investigation. All were analyzed for pesticides and metals⁷. Additional samples were collected in 2019 during the Supplemental Investigation and analyzed for VOCs, SVOCs, metals, and pesticides (both soil and groundwater). The horizontal delineation of waste at this SWMU is to the property boundaries of that unit. Vertical delineation of waste within this unit was achieved by soil borings that penetrated into native alluvial soils. Analytical results for all detected analytes are provided as **Table 1** and summarized in **Figure 8**.

During the geotechnical investigation of SWMU 9, all CPTs, test pits, and test borings encountered fill at the surface. The borings and CPTs penetrated through the fill into the underlying alluvial deposits. The subsurface materials are described in detail below.

Fill

Fill at SWMU 9 is characterized as that derived from treatment processes at the facility: Stratum 1, Waste Fill, and Stratum 2, Industrial Fill.

Stratum 1, Waste Fill extended from the surface to depths ranging from approximately 6 feet to 57 feet bgs. The base elevation of Stratum 1 ranged from approximately -10 to +5 feet amsl. The fill was found to consist of various material from clay and silt-like material to sand, gravel, and

⁷ The 2010 samples were collected from 0-0.5 feet bgs and were analyzed for DDx, arsenic and lead.

hard inclusions. The predominant material encountered consisted of reddish brown and light gray silt like material.

Standard Penetration Test N-values ranged from weight of hammer (WH) to greater than 50 blows per foot. Typically, this wide consistency range was encountered in each boring. The exception was an approximate 17-foot-thick layer of very soft, light gray silt-like material (N-values ranged from WH to 2 blows per foot) encountered in boring SM9- SB-05. Stratum 1 consistency ranged from very soft (WH) to hard.

Stratum 2-Industrial Fill ranged in depth from approximately 6 feet to 17 feet bgs. The thickness of this layer where encountered ranged from approximately 5 feet to 8 feet. The Stratum 2, Industrial Fill was found to consist of various materials from glass shards, scrap metal and wood fragments, to silty sand and gravel hard inclusions. N-values ranged from 3 blows per foot to greater than 50 blows per foot. The materials encountered in this layer can be characterized as being loose to medium dense with hard inclusions in accordance with the USCS.

Native Material

All borings encountered native alluvial soils (i.e., Stratum 3, Silt/Clay and Stratum 4, Sand and Gravel) beneath the surficial fill materials. Alluvial soils are those which were deposited by the action of moving water. The Stratum 3 alluvium was found to be variable, consisting of organic silt becoming gray and brown silt or clay, each with trace medium to fine sand, and/or silty coarse to fine sand.

Ten test borings from previous and current investigations (SM9-SB01, SM9-SB02, SM9- SB03, SM9-SB04, SM9-SB05, SM9-SB06, SM9-SB07, SM9-SB08, SM9-SB09, SM9- SB10 and SM9-SB11, SWMU9-MW1 and SWMU9-MW2) fully penetrated Stratum 3, Silt/Clay and advanced into Stratum 4, Sand and Gravel. Stratum 4, Sand and Gravel, was not fully penetrated.

Blow counts associated with Stratum 3, Silt/Clay ranged from 1 to 47 blows per foot, and the N-values were generally less than 15 blows per foot indicating a very soft to stiff consistency. However, there were some exceptions where the N-values were greater than 15 blows per foot. These exceptions occurred at the Stratum 3 and Stratum 4 interface and the N-values ranged from 25 to 30 blows per foot indicating a very stiff consistency. High N-values of 50 blows per foot or greater occurred in dry silt at elevations ranging from approximately -5 to -5.5 feet amsl. Stratum 3, Silt/Clay was generally encountered at elevations ranging from approximately -8 to +5 feet amsl, and the thickness, where fully penetrated, ranged from approximately 7 feet to 28 feet. The base elevation of this stratum ranged from approximately -9.6 to +29 feet amsl.

Blow counts associated with Stratum 4, Sand and Gravel ranged from 5 to more than 22 blows per foot, and the N-values were generally less than 37 blows per foot indicating a medium dense to dense relative density. In general, N-values increased with depth, corresponding to relative density increasing from medium dense to dense. Stratum 4 was encountered at elevations ranging from approximately -16.7 to -17.5 feet amsl. The maximum penetration into this stratum was 18 feet. Boring logs are provided in **Appendix B**.

Geotechnical Laboratory Results

Physical and engineering property tests were conducted on selected representative soil and material samples during the 2018 investigation to aid in classification and to provide an indication of soil behavior. These tests consisted of natural water content (ASTM D 2216), Atterberg Limits (ASTM D 4318), grain-size distribution (ASTM D 422), permeability (ASTM 5084), consolidation (ASTM D 2435), and triaxial compression (ASTM D 2850), and one-point compaction (ASTM D 698).

Numerical results are also presented on the boring logs provided in **Appendix B**.

Slope Stability/Settlement Analysis

Wood performed preliminary analyses during the 2018 investigation to evaluate slope stability and settlement for existing and anticipated grading conditions at selected locations (see **Figure 3**). SWMU 9 covers an area of 14.56 acres and changes in areal loading (large cuts/fills areas) will result in stress changes of the subsurface soils (material) to a significant depth. Laboratory strength data at strains between three and five percent were used in the slope stability evaluation. The slope stability analyses were performed using GSTABL7⁵ (Modified Bishop Method). Settlement analyses were performed using Terzaghi one-dimensional consolidation theory.

The slope stability parametric evaluation was performed varying ϕ' (the phi angle, also known as the internal friction angle), varying S_u (undrained shear strength), and the γ (unit weight of the Site materials). The settlement evaluation was performed varying C'_c (Compression Ratio), γ (unit weight of the SWMU 9 materials), and surcharge loading scenarios. An estimate of geotechnical properties of the various soil (material) layers were made based on Standard Penetration Test Resistance (SPT N-values, blows per foot), visual classification, and laboratory tests.

Cohesive Soils:

As a part of the geotechnical investigations, unconsolidated-undrained (UU) strength tests and consolidation tests were performed on undisturbed Shelby Tube samples. UU strength test results (shear strength/cohesion) together with undrained in-situ strength estimated based on the results of laboratory index property tests, and N-values⁸ were used in the analyses.

Consolidation tests were also conducted to obtain soil (material) compressibility characteristics. Consolidation properties were also estimated using laboratory index properties.

Cohesionless Soils:

The strength parameters of in-situ sands were estimated based on laboratory gradation tests, visual classifications and N-values for the various layers. N-values and the corresponding effective vertical pressure were used to estimate relative density of the sands using the U.S. Bureau of Reclamation correlation⁹. The angles of internal friction were estimated for the average relative density for each layer using the correlation presented in United States Naval Facilities Engineering Command (US NAVFAC) Design Manual DM-7¹⁰. Relative density data were also used to estimate total unit weight of the cohesionless soils layers.

The result of the preliminary slope stability analyses indicates that there are locations where the Factor of Safety (FS) for landfill closure of 1.5 is not satisfied for the existing (i.e., capping) and/or alternate use (i.e., regrading) scenarios evaluated. However, there is no reason to suspect imminent failure concerns. It is noted that the FS for these areas can be improved using engineering scenarios. The results of the preliminary settlement analyses for cases evaluated indicate that the range of settlement is less than 1.5 feet to approximately 5 feet for the alternate use (regrading) scenario and greater than one foot to approximately 3 feet for the existing use (capping) scenario.

The identified areas of concern (FS less than 1.5) can be improved by, but not limited to:

1. refining strength characteristics obtained from additional field/laboratory strength data in identified areas of concern;
2. modifying slope geometry to reduce loading and/or flatten slope(s) in identified areas of concern;
3. staging construction to allow for consolidation/strength gain of compressible materials;
4. improving landfilled material characteristics by either
 - a. soil mixing;
 - b. soil reinforcement; and
 - c. combination of a) and b); and
5. using other engineered remedies.

SWMU 13

Soil borings were installed at three locations and surficial soil samples were collected at three (3) locations within SWMU 13 to delineate the extent of waste within and near the unit (**Plate 2, Panel A**). A total of three surface soil samples and six subsurface soil samples were collected for laboratory analyses. Analytical results for all detected analytes are provided as **Table 2** and summarized in **Figure 9**.

A summary of the laboratory analytical results for surface samples (zero to 2 feet bgs) is provided below for: 1) the total number of sample locations; 2) the number of locations for each analyte that exceeds the threshold criteria for chemical indicators of waste; 3) the number of locations for each analyte that exceeds the ISSL; and 4) the minimum and maximum concentrations for those analytes.

Analyte	Total No. of Locations	No. of Locations Exceeding Waste Criteria	Total No. of Locations Exceeding ISSL	Minimum Concentration		Maximum Concentration	
2,4-Dinitrotoluene	7		2	7.2		190	
2,6-Dinitrotoluene	7		2	0.97	J	94	
Arsenic	7		6	3.52		35	J
Lead	7		1	3.66		1990	
Tetrachloroethene	7	1	1	0.001	J	240000	

Notes:

Concentrations in mg/kg

J = estimated value

A summary of the laboratory analytical results for the subsurface samples (greater than 2 feet bgs) is provided below for: 1) the total number of sample locations; 2) the number of locations for each analyte that exceeds the threshold criteria for chemical indicators of waste; 3) the number of locations for each analyte that exceeds the ISSL; and 4) the minimum and maximum concentrations for those analytes.

Analyte	Total No. of Locations	No. of Locations Exceeding Waste Criteria	Total No. of Locations Exceeding ISSL	Minimum Concentration		Maximum Concentration	
1,4-Dichlorobenzene	76		1	0.001	J	28	
2,4-Dinitrotoluene	76	1	23	0.084	J	1100	
2,6-Dinitrotoluene	76	1	24	0.14	J	1300	

4,4'-DDT	76	1	1	0.0021	J	19	J
Aniline	21		1	0.43	J	5800	
Arsenic	76		56	0.827	J	18.7	
Chloroform	76		1	0.001	J	25	
Tetrachloroethene	76	5	5	0.001	J	1500	

Notes:

Concentrations in mg/kg

J = estimated value

Plate 2, Panel B, C, and D represent north-south and east-west cross-sections across SWMU 13 constructed from all historical boring logs and analytical data, as well as geophysical survey data. Cross-section orientations are depicted on **Plate 2-Panel E**. The cross-sections depict the subsurface stratigraphy described in historical and current boring logs, and the limits of waste as currently understood based on physical and chemical evidence of waste collected historically and in this RFI. Along the north-south cross-section, chemical evidence of waste extends to a depth of approximately 7 - 13 feet bgs for approximately 250 feet along cross-section A-A' (**Plate 2-Panel B**). Along the east-west cross-section, evidence of waste extends to similar depths and for approximately 150 feet along cross-section B-B' (**Plate 2-Panel C**), and for approximately 65 feet along cross-section C-C' (**Plate 2-Panel D**). In plan-view (**Plate 2-Panel E**), the area of waste as currently delineated encompasses approximately 10,829 square feet (SF) and the total volume of waste is estimated to be 108,290 cubic feet (CF), assuming an average depth of 10 feet bgs.

Delineation of waste is sufficiently complete to enable quantity estimates for evaluation of corrective measures.

SWMU 14

Soil borings were installed at two locations and surficial soil samples were collected at five locations within SWMU 14 to delineate the extent of waste within and near the unit (**Plate 3, Panel A**). A total of seven surface soil samples plus one duplicate and two subsurface soil samples were collected for laboratory analyses. Analytical results for all detected analytes are provided as **Table 3** and summarized in **Figure 10**.

A summary of the laboratory analytical results for surface samples (zero to 2 feet bgs) is provided below for: 1) the total number of sample locations; 2) the number of locations for each analyte that exceeds the threshold criteria for chemical indicators of waste; 3) the number of locations for each analyte that exceeds the ISSL; and 4) the minimum and maximum concentrations for those analytes.

Analyte	Total No. of Locations	No. of Locations Exceeding Waste Criteria	Total No. of Locations Exceeding ISSL	Minimum Concentration		Maximum Concentration	
4,4'-DDD	8	1	1	0.21		46	
4,4'-DDE	8	1	1	0.15	J	24	
4,4'-DDT	8	2	2	0.56	J	140	
Arsenic	8		5	2.99		752	
Beta-BHC	8	1	1	0.022	J	7.6	

Notes:

Concentrations in mg/kg

J = estimated value

A summary of the laboratory analytical results for the subsurface samples (greater than 2 feet bgs) is provided below for: 1) the total number of sample locations; 2) the number of locations for each analyte that exceeds the threshold criteria for chemical indicators of waste; 3) the number of locations for each analyte that exceeds the ISSL; and 4) the minimum and maximum concentrations for those analytes.

Analyte	Total No. of Locations	No. of Locations Exceeding Waste Criteria	Total No. of Locations Exceeding ISSL	Minimum Concentration		Maximum Concentration	
1,3-Dinitrobenzene	1		1	250		300	
4,4'-DDT	7	2	2	0.0037		28	
Alpha-BHC	7		1	0.0059		2.3	
Arsenic	7		6	2.86		66.4	
Benzo(A)Pyrene	7	1	1	0.005	J	2.9	
Beta-BHC	7	1	1	0.014		1.5	
Copper	7		1	8.61		107000	
Hexachlorobenzene	7	1	1	0.34	J	16	J
Lead	7		3	9.76		2000	J

Notes:

Concentrations in mg/kg

J = estimated value

Plate 3, Panels B and C, represent north-south and east-west cross-sections across SWMU 14 constructed from all historical boring logs and analytical data, as well as geophysical survey data. Cross-section orientations are depicted on **Plate 3-Panel D**. The cross-sections depict the subsurface stratigraphy described in historical and current boring logs, and the limits of waste as currently understood based on physical and chemical evidence of waste collected historically and in

this RFI. Along the north-south cross-section, chemical evidence of waste extends to a depth of approximately 3 feet bgs for approximately 117 feet along cross-section A-A' (**Plate 3-Panel B**). Along the east-west cross-section, evidence of waste extends to similar depths and for approximately 135 feet along cross-section B-B' (**Plate 3-Panel C**). In plan-view (**Plate 3-Panel D**), the area of waste as currently delineated encompasses approximately 17,584 SF and the total volume of waste is estimated to be 52,752 CF, assuming an average depth of 3 feet bgs.

Delineation of waste is sufficiently complete to enable quantity estimates for evaluation of corrective measures.

SWMU 15

Soil borings were installed at two locations and surficial soil samples were collected at five locations within SWMU 15 to delineate the extent of waste within and near the unit (**Plate 4, Panel A**). A total of five surface soil samples plus one duplicate and two subsurface soil samples were collected for laboratory analyses. Analytical results for all detected analytes are provided as **Table 4** and summarized in **Figure 11**.

A summary of the laboratory analytical results for surface samples (zero to 2 feet bgs) is provided below for: 1) the total number of sample locations; 2) the number of locations for each analyte that exceeds the threshold criteria for chemical indicators of waste; 3) the number of locations for each analyte that exceeds the ISSL; and 4) the minimum and maximum concentrations for those analytes.

Analyte	Total No. of Locations	No. of Locations Exceeding Waste Criteria	Total No. of Locations Exceeding ISSL	Minimum Concentration		Maximum Concentration	
4,4'-DDD	5	2	3	0.073		45	
4,4'-DDE	5	2	2	0.068		42	
4,4'-DDT	5	3	3	0.023		220	
Alpha-BHC	5		1	0.025		2.8	
Arsenic	5		5	7.72		40.2	
Benzo(A)Pyrene	5	1	1	0.13	J	6.5	
Beta-BHC	5	3	3	0.073		8.7	
Lead	5		2	35.9		2370	J

Notes:

Concentrations in mg/kg

J = estimated value

A summary of the laboratory analytical results for the subsurface samples (greater than 2 feet bgs) is provided below for: 1) the total number of sample locations; 2) the number of locations for each analyte that exceeds the threshold criteria for chemical indicators of waste; 3) the number of locations for each analyte that exceeds the ISSL; and 4) the minimum and maximum concentrations for those analytes.

Analyte	Total No. of Locations	No. of Locations Exceeding Waste Criteria	Total No. of Locations Exceeding ISSL	Minimum Concentration		Maximum Concentration	
2,4-Dinitrotoluene	6		1	0.21	J	8.9	
2,6-Dinitrotoluene	6		1	0.053		1.7	
Arsenic	6		4	1.78	J	18.4	
Hexachlorobenzene	6	1	1	0.33	J	1.8	J
Trichloroethene	7		1	0.0025	J	6.7	

Notes:

Concentrations in mg/kg

J = estimated value

Plate 4, Panels B and C, represent north-south and east-west cross-sections across SWMU 15 constructed from all historical boring logs and analytical data, as well as geophysical survey data. Cross-section orientations are depicted on **Plate 4-Panel D**. The cross-sections depict the subsurface stratigraphy described in historical and current boring logs, and the limits of waste as currently understood based on physical and chemical evidence of waste collected historically and in this RFI. Along the north-south cross-section, chemical evidence of waste extends to a depth of approximately 7 feet bgs for approximately 260 feet along cross-section A-A' (**Plate 4-Panel B**). Along the east-west cross-section, evidence of waste extends to similar depths and for approximately 845 feet along cross-section B-B' (**Plate 3-Panel C**). In plan-view (**Plate 4-Panel D**), the area of waste as currently delineated encompasses approximately 32,770 SF and the total volume of waste is estimated to be 229,390 CF, assuming an average depth of 7 feet bgs.

Delineation of waste is sufficiently complete to enable quantity estimates for evaluation of corrective measures.

SWMU 16

As well as the historic borings, soil borings were installed at four locations and surficial soil samples were collected at eight locations within SWMU 16 during the 2015 RFI to delineate the extent of waste within and near the unit (**Plate 5, Panel A**). An additional 14 soil borings were advanced in 2021 as part of the Demolition Investigation. A total of eight surface soil samples and

12 subsurface soil samples plus two duplicates were collected for laboratory analyses. Analytical results for all detected analytes are provided as **Table 5** and summarized in **Figure 12**.

A summary of the laboratory analytical results for surface samples (zero to 2 feet bgs) is provided below for: 1) the total number of sample locations; 2) the number of locations for each analyte that exceeds the threshold criteria for chemical indicators of waste; 3) the number of locations for each analyte that exceeds the ISSL; and 4) the minimum and maximum concentrations for those analytes.

Analyte	Total No. of Locations	No. of Locations Exceeding Waste Criteria	Total No. of Locations Exceeding ISSL	Minimum Concentration		Maximum Concentration	
4,4'-DDD	26	3	3	0.0078	J+	120	
4,4'-DDE	26	3	3	0.0049	J	16	
4,4'-DDT	26	7	7	0.015		42	
Arsenic	26		26	3.3	J	210	
Benzene	26	3	3	0.0006	J	890	
Beta-BHC	26	1	1	0.011		10.2	
Chloroform	26		2	0.0009	J	450	
Ethylbenzene	26	4	4	0.0056	J	1600	
Lead	26		1	8.4		920	
Mercury	26		1	0.036	J	84	
Total Xylenes	18	1	1	0.002	J	7200	
Trichloroethene	26	7	7	0.0014	J	9700	
Vinyl Chloride	26		1	0.002	J	2.2	

Notes:

Concentrations in mg/kg

J = estimated value

J+ = estimated biased high

A summary of the laboratory analytical results for the subsurface samples (greater than 2 feet bgs) is provided below for: 1) the total number of sample locations; 2) the number of locations for each analyte that exceeds the threshold criteria for chemical indicators of waste; 3) the number of locations for each analyte that exceeds the ISSL; and 4) the minimum and maximum concentrations for those analytes.

Analyte	Total No. of Locations	No. of Locations Exceeding Impact Criteria	Total No. of Locations Exceeding ISSL	Minimum Concentration		Maximum Concentration	
1,4-Dichlorobenzene	17	1	2	0.0004	J	240	J

Arsenic	17		9	1.34	J	17	
Benzene	17		3	0.014	J	84.9	
Chloroform	17		6	0.034	J	59.64	J
Ethylbenzene	17	3	4	0.00071	J	790	J
Tetrachloroethene	17	2	3	0.045	J	790	J
Total Xylenes	17	1	1	0.0015	J	3500	J
Trichloroethene	17	8	9	0.00067	J	2700	

Notes:

Concentrations in mg/kg

J = estimated value

Plate 5, Panel B, represents the east-west cross-section across SWMU 16 constructed from all historical boring logs and analytical data, as well as geophysical survey data. Cross-section orientations are depicted on **Plate 5-Panel D**. The cross-sections depict the subsurface stratigraphy described in historical and current boring logs, and the limits of waste as currently understood based on physical and chemical evidence of waste collected historically and in this RFI. Along the north-south, chemical evidence of waste extends for approximately 50 feet. Along the east-west, evidence of waste extends for approximately 100 feet. The depth ranges from approximately 0.5 to 10 feet bgs. In plan-view (**Plate 5-Panel D**), the area of waste as currently delineated encompasses approximately 1,450 SF and the total volume of waste is estimated to be 7,613 CF, assuming an average depth of 5.25 feet bgs.

Delineation of waste is sufficiently complete to enable quantity estimates for evaluation of corrective measures.

SWMU 17

Soil borings were installed at three locations and surficial soil samples were collected at five locations within SWMU 17 to delineate the extent of waste within and near the unit (**Plate 6, Panel A**). A total of five surface soil samples plus one duplicate and four subsurface soil samples were collected for laboratory analyses. Analytical results for all detected analytes are provided as **Table 6** and summarized in **Figure 13**.

A summary of the laboratory analytical results for surface samples (zero to 2 feet bgs) is provided below for: 1) the total number of sample locations; 2) the number of locations for each analyte that exceeds the threshold criteria for chemical indicators of waste; 3) the number of locations for each analyte that exceeds the ISSL; and 4) the minimum and maximum concentrations for those analytes.

Analyte	Total No. of Locations	No. of Locations Exceeding Waste Criteria	Total No. of Locations Exceeding ISSL	Minimum Concentration		Maximum Concentration	
1,1,2,2-Tetrachloroethane	8		1	1.5		14	J
1,4-Dichlorobenzene	8		1	3.6		68	
4,4'-DDD	8	2	3	0.035		580	J
4,4'-DDE	8	1	1	0.073		11	
4,4'-DDT	8	4	4	1.6		1400	J
Alpha-BHC	8	1	3	0.028		84	J
Arsenic	8		8	11.2		510	
Benzene	8		2	0.002	J	60	J
Beta-BHC	8		1	0.1		1.4	
Carbon Tetrachloride	8		1	0.002	J	42	J
Chloroform	8		2	0.004	J	90	
Ethylbenzene	8	2	2	160		3600	
Lead	8		1	61.6		1400	
Tetrachloroethene	8	2	2	0.02		2100	
Total Xylenes	8	2	2	0.003	J	6000	
Trichloroethene	8	2	3	0.003	J	1700	

Notes:

Concentrations in mg/kg

J = estimated value

A summary of the laboratory analytical results for the subsurface samples (greater than 2 feet bgs) is provided below for: 1) the total number of sample locations; 2) the number of locations for each analyte that exceeds the threshold criteria for chemical indicators of waste; 3) the number of locations for each analyte that exceeds the ISSL; and 4) the minimum and maximum concentrations for those analytes.

Analyte	Total No. of Locations	No. of Locations Exceeding Waste Criteria	Total No. of Locations Exceeding ISSL	Minimum Concentration		Maximum Concentration	
1,1,2,2-Tetrachloroethane	1		1	0.074	J	21	J
1,4-Dichlorobenzene	1		1	12	J	12	J
Arsenic	1		1	4.25		6.44	
Benzene	1		1	2.8		51	

Chloroform	1		1	4.2		56
Ethylbenzene	1	1	1	2.1		3200
Tetrachloroethene	1	1	1	3.4		1800
Total Xylenes	1	1	1	4.2		4200
Trichloroethene	1	1	1	30		3800

Notes:
 Concentrations in
 mg/kg
 J = estimated value

Plate 6, Panels B and C, represent north-south and east-west cross-sections across SWMU 17 constructed from all historical boring logs and analytical data, as well as geophysical survey data. Cross-section orientations are depicted on **Plate 6-Panel D**. The cross-sections depict the subsurface stratigraphy described in historical and current boring logs, and the limits of waste as currently understood based on physical and chemical evidence of waste collected historically and in this RFI. Along the north-south cross-section, chemical evidence of waste extends to a depth of approximately 1 to 12 feet bgs for approximately 70 feet along cross-section A-A' (**Plate 6-Panel B**). Along the east-west cross-section, evidence of waste extends to a depth of approximately 2 to 10 feet bgs for approximately 47 feet along cross-section B-B' (**Plate 6-Panel C**). In plan-view (**Plate 6-Panel D**), the area of waste as currently delineated encompasses approximately 2,918 SF and the total volume of waste is estimated to be 18,967 CF, assuming an average depth of 6.5 feet bgs.

Delineation of waste is sufficiently complete to enable quantity estimates for evaluation of corrective measures.

SWMU 18

Surficial soil samples were collected at three locations within SWMU 18 to delineate the extent waste remaining within and near the unit (**Plate 7, Panel A**) following the IM excavation and removal conducted in 2014. A total of three surface soil samples plus one duplicate were collected for laboratory analyses. Analytical results for all detected analytes are provided as **Table 7** and summarized in **Figure 14**.

A summary of the laboratory analytical results for surface samples (zero to 2 feet bgs) is provided below for: 1) the total number of sample locations; 2) the number of locations for each analyte that exceeds the threshold criteria for chemical indicators of waste; 3) the number of locations for each analyte that exceeds the ISSL; and 4) the minimum and maximum concentrations for those analytes.

Analyte	Total No. of Locations	No. of Locations Exceeding Waste Criteria	Total No. of Locations Exceeding ISSL	Minimum Concentration		Maximum Concentration	
4,4'-DDD	4	1	2	2.4		510	J
4,4'-DDE	4	1	1	0.22		60	J
4,4'-DDT	4	2	2	1.4	J	1500	J
Alpha-BHC	4		1	0.027	J	3.7	
Arsenic	4		3	4.13		26.9	
Beta-BHC	4	1	1	0.033	J	4	
Chloroform	4		1	0.04	J	2.2	J
Cobalt	4	1	1	13.5	J	634	
Phenol	4	1	1	0.21		2300000	J
Tetrachloroethene	4	1	1	36000		36000	

Notes:

Concentrations in mg/kg

J = estimated value

A summary of the laboratory analytical results for the subsurface samples (greater than 2 feet bgs) is provided below for: 1) the total number of sample locations; 2) the number of locations for each analyte that exceeds the threshold criteria for chemical indicators of waste; 3) the number of locations for each analyte that exceeds the ISSL; and 4) the minimum and maximum concentrations for those analytes.

Analyte	Total No. of Locations	No. of Locations Exceeding Waste Criteria	Total No. of Locations Exceeding ISSL	Minimum Concentration		Maximum Concentration	
4,4'-DDD	8	3	5	0.114		568	J
4,4'-DDE	8	3	3	0.0287		99.6	J
4,4'-DDT	8	4	4	0.152		1470	J
Alpha-BHC	8		1	0.163	J	1.21	J
Arsenic	8		8	3.6		64.4	
Beta-BHC	8		1	0.0429	J	1.34	J
Carbon Tetrachloride	8		1	0.11	J	13	
Chloroform	8		1	0.00041	J	8.2	

Notes:

Concentrations in mg/kg

J = estimated value

Plate 7, Panel B, represents the east-west cross-section across SWMU 18 constructed from all historical boring logs and analytical data, geophysical survey data, and the limits of excavation during the 2014 IM. Cross-section orientations are depicted on **Plate 7-Panel D**. The cross-sections depict the subsurface stratigraphy described in historical and current boring logs, the historical limits of waste based on physical and chemical evidence of waste collected historically and in this RFI. Also depicted are the limits of the excavation and removal. Along the east-west cross-section, historical data indicated that chemical evidence of waste extended to a depth of approximately 4 to 4.5 feet bgs for approximately 20 feet along cross-section A-A' (**Plate 7-Panel B**). The 2014 IM removed materials to this depth and over an area measuring 20 feet by 20 feet in plan view. In plan-view (**Plate 7-Panel D**), the area of waste as historically delineated encompassed approximately 780 SF and the total volume of waste was estimated to be 3,315 CF. This volume was removed during the 2014 IM. Sampling conducted in 2015 indicates residual waste remains around the excavation.

SWMU 19

One soil boring was installed and surficial soil samples were collected at three locations within SWMU 19 to delineate the extent of waste within and near the unit (**Plate 8, Panel A**). A total of four surface soil samples and three subsurface soil samples were collected for laboratory analyses. Analytical results for all detected analytes are provided as **Table 8** and summarized in **Figure 15**.

A summary of the laboratory analytical results for surface samples (zero to 2 feet bgs) is provided below for: 1) the total number of sample locations; 2) the number of locations for each analyte that exceeds the threshold criteria for chemical indicators of waste; 3) the number of locations for each analyte that exceeds the ISSL; and 4) the minimum and maximum concentrations for those analytes.

Analyte	Total No. of Locations	No. of Locations Exceeding Waste Criteria	Total No. of Locations Exceeding ISSL	Minimum Concentration		Maximum Concentration	
4,4'-DDD	9	4	5	0.036	J	370	J
4,4'-DDE	9	4	4	0.02	J	2500	J
4,4'-DDT	9	5	5	0.15		460	J
Alpha-BHC	9		2	0.013	J	1.8	
Arsenic	8		5	1.61	J	10.8	
Benzo(A)Pyrene	8	2	2	0.029		5.8	

Notes:

Concentrations in mg/kg

J = estimated value

A summary of the laboratory analytical results for the subsurface samples (greater than 2 feet bgs) is provided below for: 1) the total number of sample locations; 2) the number of locations for each analyte that exceeds the threshold criteria for chemical indicators of waste; 3) the number of locations for each analyte that exceeds the ISSL; and 4) the minimum and maximum concentrations for those analytes.

Analyte	Total No. of Locations	No. of Locations Exceeding Waste Criteria	Total No. of Locations Exceeding ISSL	Minimum Concentration		Maximum Concentration	
4,4'-DDD	23	1	3	0.0047		35	
4,4'-DDE	23	2	2	0.0022		51	
4,4'-DDT	23	6	6	0.0059		49	
Arsenic	22		10	0.775	J	10.6	
Chlorobenzene	23	2	2	0.72		7100	
Chloroform	23		2	0.001	J	64	
Naphthalene	23		1	0.01		10	

Notes:

Concentrations in mg/kg

J = estimated value

Plate 8, Panels B and C, represent north-south and east-west cross-sections across SWMU 19 constructed from all historical boring logs and analytical data, as well as geophysical survey data. Cross-section orientations are depicted on **Plate 8-Panel D**. The cross-sections depict the subsurface stratigraphy described in historical and current boring logs, and the limits of waste as currently understood based on physical and chemical evidence of waste collected historically and in this RFI. Along the north-south cross-section, chemical evidence of waste extends to a depth of approximately 13 feet bgs for approximately 52 feet along cross-section A-A' (**Plate 8-Panel B**). Along the east-west cross-section, evidence of waste extends to a similar depth and for approximately 144 feet along cross-section B-B' (**Plate 8-Panel C**). In plan-view (**Plate 8-Panel D**), the area of waste as currently delineated encompasses approximately 5,558 SF and the total volume of waste is estimated to be 72,254 CF, assuming an average depth of 13 feet bgs.

Delineation of waste is sufficiently complete to enable quantity estimates for evaluation of corrective measures.

SWMU 20

Surficial soil samples were collected at three locations within SWMU 20 to delineate the extent of waste within and near the unit (**Plate 9, Panel A**). A total of three surface soil samples plus one duplicate were collected for laboratory analyses. Analytical results for all detected analytes are provided as **Table 9** and summarized in **Figure 16**.

A summary of the laboratory analytical results for surface samples (zero to 2 feet bgs) is provided below for: 1) the total number of sample locations; 2) the number of locations for each analyte that exceeds the threshold criteria for chemical indicators of waste; 3) the number of locations for each analyte that exceeds the ISSL; and 4) the minimum and maximum concentrations for those analytes.

Analyte	Total No. of Locations	No. of Locations Exceeding Impact Criteria	Total No. of Locations Exceeding ISSL	Minimum Concentration		Maximum Concentration	
Arsenic	6		4	4.63	J	19.2	J
Benzo(A)Pyrene	6	1	1	0.072		3.4	
Cobalt	6	1	1	2.9		456	

Notes:

Concentrations in mg/kg

J = estimated value

A summary of the laboratory analytical results for the subsurface samples (greater than 2 feet bgs) is provided below for: 1) the total number of sample locations; 2) the number of locations for each analyte that exceeds the threshold criteria for chemical indicators of waste; 3) the number of locations for each analyte that exceeds the ISSL; and 4) the minimum and maximum concentrations for those analytes.

Analyte	Total No. of Locations	No. of Locations Exceeding Impact Criteria	Total No. of Locations Exceeding ISSL	Minimum Concentration		Maximum Concentration	
4,4'-DDE	9	1	1	0.073		9.5	
4,4'-DDT	9	1	1	0.34		17	
Arsenic	10		10	2.22	J	63.4	J

Notes:

Concentrations in mg/kg

J = estimated value

Plate 9, Panels B and C, represent north-south and east-west cross-sections across SWMU 20 constructed from all historical boring logs and analytical data, as well as geophysical survey data. Cross-section orientations are depicted on **Plate 9-Panel D**. The cross-sections depict the subsurface stratigraphy described in historical and current boring logs, and the limits of waste as currently understood based on physical and chemical evidence of waste collected historically and in this RFI. Along the north-south cross-section, chemical evidence of waste extends to a depth of approximately 12 feet bgs for approximately 129 feet along cross-section A-A' (**Plate 9-Panel B**). Along the east-west cross-section, evidence of waste extends to a similar depth and for approximately 110 feet along cross-section B-B' (**Plate 9-Panel C**). In plan-view (**Plate 9-Panel D**), the area of waste as currently delineated encompasses approximately 6,904 SF and the total volume of waste is estimated to be 82,848 CF, assuming an average depth of 12 feet bgs.

Delineation of waste is sufficiently complete to enable quantity estimates for evaluation of corrective measures.

SWMU 21, 22, 30

Soil borings were installed at ten locations and surficial soil samples were collected at thirteen locations within SWMU 21, 22, and 30 to delineate the extent of waste within and near the unit (**Plate 10, Panel A**). A total of twenty-four surface soil samples plus one duplicate and eleven subsurface soil samples plus one duplicate were collected for laboratory analyses. Analytical results for all detected analytes are provided in **Table 10** and summarized in **Figure 17**.

A summary of the laboratory analytical results for surface samples (zero to 2 feet bgs) is provided below for: 1) the total number of sample locations; 2) the number of locations for each analyte that exceeds the threshold criteria for chemical indicators of waste; 3) the number of locations for each analyte that exceeds the ISSL; and 4) the minimum and maximum concentrations for those analytes.

Analyte	Total No. of Locations	No. of Locations Exceeding Waste Criteria	Total No. of Locations Exceeding ISSL	Minimum Concentration		Maximum Concentration	
4,4'-DDD	35	11	14	0.0029	J	680	
4,4'-DDE	35	13	13	0.0055		130	
4,4'-DDT	35	24	24	0.016		1200	

4-Aminobiphenyl	11	1	1	0.21	J	0.21	J
Alpha-BHC	35	1	10	0.012		230	J
Arsenic	36		28	1.25	J	55.5	
Beta-BHC	35	24	24	0.022		78	J
Thallium	36		1	0.82	J	13.3	J

Notes:

Concentrations in mg/kg

J = estimated value

A summary of the laboratory analytical results for the subsurface samples (greater than 2 feet bgs) is provided below for: 1) the total number of sample locations; 2) the number of locations for each analyte that exceeds the threshold criteria for chemical indicators of waste; 3) the number of locations for each analyte that exceeds the ISSL; and 4) the minimum and maximum concentrations for those analytes.

Analyte	Total No. of Locations	No. of Locations Exceeding Waste Criteria	Total No. of Locations Exceeding ISSL	Minimum Concentration		Maximum Concentration	
4,4'-DDD	10		1	0.0011	J	19	
4,4'-DDT	10	1	1	0.0074		25	J
Alpha-BHC	10		4	0.0024	J	2.5	J
Arsenic	10		4	0.96	J	10.9	
Beta-BHC	10	1	1	0.015	J	5.2	

Notes:

Concentrations in mg/kg

J = estimated value

Plate 10, Panels B and C, represent north-south and east-west cross-sections across SWMU 21, 22, and 30 constructed from all historical boring logs and analytical data, as well as geophysical survey data. Cross-section orientations are depicted on **Plate 10-Panel D**. The cross-sections depict the subsurface stratigraphy described in historical and current boring logs, and the limits of waste as currently understood based on physical and chemical evidence of waste collected historically and in this RFI. Along the north-south cross-section, chemical evidence of waste extends to a depth of approximately 20 feet bgs for approximately 260 feet along cross-section A-A' (**Plate 10-Panel B**). Along the east-west cross-section, evidence of waste extends to a depth of approximately 16 to 20 feet bgs for approximately 300 feet along cross-section B-B' (**Plate 10-Panel C**). In plan-view (**Plate 10-Panel D**), the area of waste as currently delineated encompasses approximately 83,619 SF and the total volume of waste is estimated to be 1,505,142 CF, assuming an average depth of 18 feet bgs.

Delineation of waste is sufficiently complete to enable quantity estimates for evaluation of corrective measures.

SWMU 23

Soil borings were installed at five locations within SWMU 23 to delineate the extent of waste within and near the unit (**Plate 11, Panel A**). A total of five surface soil samples and five subsurface soil samples plus one duplicate were collected for laboratory analyses. Analytical results for all detected analytes are provided as **Table 11** and summarized in **Figure 18**.

A summary of the laboratory analytical results for surface samples (zero to 2 feet bgs) is provided below for: 1) the total number of sample locations; 2) the number of locations for each analyte that exceeds the threshold criteria for chemical indicators of waste; 3) the number of locations for each analyte that exceeds the ISSL; and 4) the minimum and maximum concentrations for those analytes.

Analyte	Total No. of Locations	No. of Locations Exceeding Impact Criteria	Total No. of Locations Exceeding ISSL	Minimum Concentration		Maximum Concentration	
4,4'-DDD	12	9	12	9.7		2270	J
4,4'-DDE	12	11	11	1.3		180	J
4,4'-DDT	12	8	8	36	J	6430	J
Alpha-BHC	12	4	9	0.35		472	J
Arsenic	12		12	8.68		6800	
Beta-BHC	12	9	10	0.00313	J	86	J
Gamma-BHC (Lindane)	12		3	0.14		23	J
Mercury	12		3	1.09		110	J
Naphthalene	12		2	0.008	J	83	J

Notes:

Concentrations in mg/kg

J = estimated value

A summary of the laboratory analytical results for the subsurface samples (greater than 2 feet bgs) is provided below for: 1) the total number of sample locations; 2) the number of locations for each analyte that exceeds the threshold criteria for chemical indicators of waste; 3) the number of locations for each analyte that exceeds the ISSL; and 4) the minimum and maximum concentrations for those analytes.

Analyte	Total No. of Locations	No. of Locations Exceeding Waste Criteria	Total No. of Locations Exceeding ISSL	Minimum Concentration	Maximum Concentration
Arsenic	5		5	2.52	131

Notes:

Concentrations in mg/kg

Plate 11, Panels B and C, represent north-south and east-west cross-sections across SWMU 23 constructed from all historical boring logs and analytical data, as well as geophysical survey data. Cross-section orientations are depicted on **Plate 11-Panel D**. The cross-sections depict the subsurface stratigraphy described in historical and current boring logs, and the limits of waste as currently understood based on physical and chemical evidence of waste collected historically and in this RFI. Along the north-south cross-section, chemical evidence of waste extends to a depth of approximately 11 feet bgs for approximately 22 feet along cross-section A-A' (**Plate 11-Panel B**). Along the east-west cross-section, evidence of waste extends to similar depths and for approximately 44 feet along cross-section B-B' (**Plate 11-Panel C**). In plan-view (**Plate 11-Panel D**), the area of waste as currently delineated encompasses approximately 1,015 SF and the total volume of waste is estimated to be 11,165 CF, assuming an average depth of 11 feet bgs.

Delineation of waste is sufficiently complete to enable quantity estimates for evaluation of corrective measures.

SWMU 27

Soil borings were installed at two locations and surficial soil samples were collected at four locations within SWMU 27 to delineate the extent of waste within and near the unit (**Plate 12, Panel A**). A total of four surface soil samples plus one duplicate and two subsurface soil samples plus one duplicate were collected for laboratory analyses. Analytical results for all detected analytes are provided as **Table 12** and summarized in **Figure 19**.

A summary of the laboratory analytical results for surface samples (zero to 2 feet bgs) is provided below for: 1) the total number of sample locations; 2) the number of locations for each analyte that exceeds the threshold criteria for chemical indicators of waste; 3) the number of locations for each analyte that exceeds the ISSL; and 4) the minimum and maximum concentrations for those analytes.

Analyte	Total No. of Locations	No. of Locations Exceeding Waste Criteria	Total No. of Locations Exceeding ISSL	Minimum Concentration		Maximum Concentration	
4,4'-DDE	9	2	2	0.015	J	21	J
4,4'-DDT	9	3	3	0.09	J	82	J
Arsenic	9		3	1.44	J	12	J

Notes:

Concentrations in mg/kg

J = estimated value

A summary of the laboratory analytical results for the subsurface samples (greater than 2 feet bgs) is provided below for: 1) the total number of sample locations; 2) the number of locations for each analyte that exceeds the threshold criteria for chemical indicators of waste; 3) the number of locations for each analyte that exceeds the ISSL; and 4) the minimum and maximum concentrations for those analytes.

Analyte	Total No. of Locations	No. of Locations Exceeding Impact Criteria	Total No. of Locations Exceeding ISSL	Minimum Concentration		Maximum Concentration	
Arsenic	3		1	0.796	J	4.36	

Notes:

Concentrations in mg/kg

J = estimated value

Plate 12, Panel B, represents a north-south cross-section across SWMU 123 constructed from all historical boring logs and analytical data, as well as geophysical survey data. The cross-section orientation is depicted on **Plate 12-Panel C**. The cross-section depicts the subsurface stratigraphy described in historical and current boring logs, and the limits of waste as currently understood based on physical and chemical evidence of waste collected historically and in this RFI. Along the north-south cross-section, chemical evidence of waste extends to a depth of approximately 13 feet bgs for approximately 37 feet along cross-section A-A' (**Plate 12-Panel B**). In plan-view (**Plate 12-Panel D**), the area of waste as currently delineated encompasses approximately 3,123 SF and the total volume of waste is estimated to be 40,599 CF, assuming an average depth of 13 feet bgs.

Delineation of waste is sufficiently complete to enable quantity estimates for evaluation of corrective measures.

AOC3

There is no record of historical disposal activities at AOC 3. The 2003 Phase I RFI characterization, which included the collection of five surface soil samples, was sufficiently complete to evaluate a CM and no further soil investigation was necessary. There were no additional samples collected from AOC 3 as part of the RFI. Analytical results for all detected analytes are provided as **Table 13** and summarized in **Figure 19**.

AOC 16NP

Soil borings were installed at seven locations and surficial soil samples were collected at seven locations within AOC16NP to delineate the extent of waste within and near the unit (**Plate 13, Panel A**). A total of seven surface soil samples and ten subsurface soil samples plus two duplicates were collected for laboratory analyses. Analytical results for all detected analytes are provided as **Table 14** and summarized in **Figure 20**.

A summary of the laboratory analytical results for surface samples (zero to 2 feet bgs) is provided below for: 1) the total number of sample locations; 2) the number of locations for each analyte that exceeds the threshold criteria for chemical indicators of waste; 3) the number of locations for each analyte that exceeds the ISSL; and 4) the minimum and maximum concentrations for those analytes.

Analyte	Total No. of Locations	No. of Locations Exceeding Waste Criteria	Total No. of Locations Exceeding ISSL	Minimum Concentration		Maximum Concentration	
1,2,4,5-Tetrachlorobenzene	8		1	0.033	J	82	
4,4'-DDD	8	4	4	0.13		2000	
4,4'-DDE	8	5	5	0.058		1000	
4,4'-DDT	8	6	6	0.081		18000	J
Alpha-BHC	8	4	7	0.4		4000	J
Arsenic	7		7	10.3	J	209	
Beta-BHC	8	5	5	0.084		140	
Gamma-BHC (Lindane)	8	1	1	0.47		2400	
Lead	8		2	3.14		7170	
Thallium	8		1	1.1	J	30.9	J

Notes:

Concentrations in mg/kg

J = estimated value

J+ = estimated biased high

J- = estimated biased low

A summary of the laboratory analytical results for the subsurface samples (greater than 2 feet bgs) is provided below for: 1) the total number of sample locations; 2) the number of locations for each analyte that exceeds the threshold criteria for chemical indicators of waste; 3) the number of locations for each analyte that exceeds the ISSL; and 4) the minimum and maximum concentrations for those analytes.

Analyte	Total No. of Locations	No. of Locations Exceeding Waste Criteria	Total No. of Locations Exceeding ISSL	Minimum Concentration		Maximum Concentration	
1,4-Dichlorobenzene	18		3	0.002	J	24.9	
4,4'-DDD	18	5	6	0.0022		1190	
4,4'-DDE	18	5	5	0.0014	J	732	
4,4'-DDT	18	8	8	0.0088	J	11000	
Alpha-BHC	18	8	13	0.026		4480	
Arsenic	18		17	1.68	J	251	
Benzene	18		5	0.0009	J	146	
Beta-BHC	18	9	9	0.0046		295	
Chloroform	18		1	0.00067	J	3.8	J
Gamma-BHC (Lindane)	18	4	6	0.0013	J	463	
Lead	18		5	5.06	J	5860	
Thallium	18		1	0.923	J	20.3	

Notes:

Concentrations in mg/kg

J = estimated value

Plate 13, Panels B and C, represent north-south and east-west cross-sections across AOC16NP constructed from all historical boring logs and analytical data, as well as geophysical survey data. Cross-section orientations are depicted on **Plate 13-Panel D**. The cross-sections depict the subsurface stratigraphy described in historical and current boring logs, and the limits of waste as currently understood based on physical and chemical evidence of waste collected historically and in this RFI. Along the north-south cross-section, chemical evidence of waste extends to a depth of approximately 13 feet bgs for approximately 104 feet along cross-section A-A' (**Plate 13-Panel B**). Along the east-west cross-section, evidence of waste extends to similar depths and for approximately 70 feet along cross-section B-B' (**Plate 13-Panel C**). In plan-view (**Plate 13-Panel D**), the area of waste as currently delineated encompasses approximately 6,319 SF and the estimated volume of waste is 82,147 CF, assuming an average depth of approximately 13 feet bgs.

Delineation of waste is sufficiently complete to enable quantity estimates for evaluation of corrective measures.

MW6 Area

Soil borings were advanced at 26 locations during the 2019/2020 investigation and at four locations during the 2021 Demolition Investigation within the MW6 Area to delineate the extent of soil impacts (**Plate 14, Panel A**). A total of six surface soil samples and 38 subsurface soil samples were collected for laboratory analyses. Analytical results for all detected analytes are provided as **Table 15** and summarized in **Figure 21**.

A summary of the laboratory analytical results for the surface samples (zero to 2 feet bgs) is provided below for: 1) the total number of sample locations; 2) the number of locations for each analyte that exceeds the threshold criteria for chemical indicators of impact; 3) the number of locations for each analyte that exceeds the ISSL; and 4) the minimum and maximum concentrations for those analytes.

Analyte	Total No. of Locations	No. of Locations Exceeding Impact Criteria	Total No. of Locations Exceeding ISSL	Minimum Concentration		Maximum Concentration	
4,4'-DDD	4		1	0.033		20	
4,4'-DDT	4	2	2	5.7		17	J+
Alpha-BHC	4	4	4	1.3	J+	990	J+
Arsenic	4		4	15		23	
Beta-BHC	4	4	4	1.4		57	
Gamma-BHC (Lindane)	4	2	2	0.18		140	
Tetrachloroethene	4	1	1	0.2	J	270	

Notes:

Concentrations in mg/kg

J = estimated value

J+ = estimated biased high

A summary of the laboratory analytical results for the subsurface samples (greater than 2 feet bgs) is provided below for: 1) the total number of sample locations; 2) the number of locations for each analyte that exceeds the threshold criteria for chemical indicators of impact; 3) the number of locations for each analyte that exceeds the ISSL; and 4) the minimum and maximum concentrations for those analytes.

Analyte	Total No. of Locations	No. of Locations Exceeding Impact Criteria	Total No. of Locations Exceeding ISSL	Minimum Concentration		Maximum Concentration	
1,2-Dibromo-3-Chloropropane	41		1	0.073	J	0.073	J
Alpha-BHC	28		5	0.00033	J	6.3	
Arsenic	6		3	1.7	J	24	
Benzene	41		7	0.0004	J	22	
Tetrachloroethene	41	5	5	0.003	J	5300	
Trichloroethene	41		1	0.0004	J	12	

Notes:

Concentrations in mg/kg

J = estimated value

Plate 14, Panels B and C represent north-south and east-west cross-sections across the MW6 Area constructed from all historical boring logs and analytical data. Cross-section orientations are depicted on **Plate 14-Panel D**. The cross-sections depict the subsurface stratigraphy described in historical and current boring logs, and the limits of the impacted area as currently understood based on physical and chemical evidence of the impacts collected historically and in this RFI. Along the east-west, chemical evidence of impact extends to a depth of approximately 2 to 10 feet bgs for approximately 205 feet. Along the north-south, evidence of impact extends for approximately 100 feet. In plan-view (**Plate 14-Panel D**), the area of impact as currently delineated encompasses approximately 14,545 SF and the total volume of impact is estimated to be 87,270 CF, assuming an average depth of 6 ft bgs.

Delineation of impact is sufficiently complete to enable quantity estimates for evaluation of corrective measures.

Administration Building Area

Soil borings were advanced at 25 locations within the Administration Building Area to delineate the extent of soil impacts (**Plate 15, Panel A**). A total of 24 surface soil samples and 26 subsurface soil samples were collected for laboratory analyses. Analytical results for all detected analytes are provided as **Table 16** and summarized in **Figure 22**.

A summary of the laboratory analytical results for the surface samples (zero to 2 feet bgs) is provided below for: 1) the total number of sample locations; 2) the number of locations for each analyte that exceeds the threshold criteria for chemical indicators of impact; 3) the number of locations for each analyte that exceeds the ISSL; and 4) the minimum and maximum concentrations for those analytes.

Analyte	Total No. of Locations	No. of Locations Exceeding Impact Criteria	Total No. of Locations Exceeding ISSL	Minimum Concentration		Maximum Concentration
4,4'-DDT	23	2	2	0.00089		79
Alpha-BHC	23		1	0.00039	J	2.5
Arsenic	23		18	1.2	J	25
Beta-BHC	23	1	1	0.00055	J+	1.6

Notes:

Concentrations in mg/kg

J = estimated value

J+ = estimated biased high

A summary of the laboratory analytical results for the subsurface samples (greater than 2 feet bgs) is provided below for: 1) the total number of sample locations; 2) the number of locations for each analyte that exceeds the threshold criteria for chemical indicators of impact; 3) the number of locations for each analyte that exceeds the ISSL; and 4) the minimum and maximum concentrations for those analytes.

Analyte	Total No. of Locations	No. of Locations Exceeding Impact Criteria	Total No. of Locations Exceed ISSL	Minimum Concentration		Maximum Concentration
Arsenic	27		21	1.3	J	17

Notes:

Concentrations in mg/kg

J = estimated value

Plate 15, Panels B and C represent north-south and east-west cross-sections across the Administration Building Area constructed from boring logs and analytical data. Cross-section orientations are depicted on **Plate 15-Panel D**. The cross-sections depict the subsurface stratigraphy described in boring logs, and the limits of the impacted area as currently understood based on physical and chemical evidence of the impacts collected in this RFI. Along the east-west, chemical evidence of waste extends to a depth of approximately 2 feet bgs for approximately 55 feet. Along the north-south, evidence of impact extends for approximately 55 feet. In plan-view (**Plate 15-Panel D**), the area of impact as currently delineated encompasses approximately 2,827 SF and the total volume of impact is estimated to be 5,654 CF, assuming an average depth of 2 feet bgs.

Delineation of impact is sufficiently complete to enable quantity estimates for evaluation of corrective measures.

BF3 Operating Area

Soil borings were advanced at 49 locations within the BF3 Operating Area to delineate the extent of soil impacts (**Plate 16, Panel A**). A total of 40 surface soil samples and 53 subsurface soil samples were collected for laboratory analyses. Analytical results for all detected analytes are provided as **Table 17** and summarized in **Figure 23**.

A summary of the laboratory analytical results for the surface samples (zero to 2 feet bgs) is provided below for: 1) the total number of sample locations; 2) the number of locations for each analyte that exceeds the threshold criteria for chemical indicators of impact; 3) the number of locations for each analyte that exceeds the ISSL; and 4) the minimum and maximum concentrations for those analytes.

Analyte	Total No. of Locations	No. of Locations Exceeding Criteria	Total No. of Locations Exceeding ISSL	Minimum Concentration		Maximum Concentration	
1,2-Dibromo-3-Chloropropane	40		1	0.27	J	0.27	J
1,4-Dichlorobenzene	40		1	0.0054	J-	14	
4,4'-DDD	40	10	10	0.00071	J-	1500	
4,4'-DDE	40	9	9	0.001		540	
4,4'-DDT	40	17	17	0.00092	J	4700	
Alpha-BHC	40	2	2	0.0004	J+	1200	
Arsenic	40		33	2.5	J	96	
Benzo(A)Pyrene	40	3	3	0.0046	J	5.2	
Beta-BHC	40	1	1	0.00067	J-	48	J-
Chlorobenzene	40	3	3	0.0014	J	15000	
Chloroform	40		8	0.0013	J-	36	
Gamma-BHC (Lindane)	40	1	1	0.00051	J	55	
Lead	40		4	8.8		1500	
Trichloroethene	40		1	0.0017	J	11	

Notes:

- Concentrations in mg/kg
- J = estimated value
- J+ = estimated biased high
- J- = estimated biased low

A summary of the laboratory analytical results for the subsurface samples (greater than 2 feet bgs) is provided below for: 1) the total number of sample locations; 2) the number of locations for each analyte that exceeds the threshold criteria for chemical indicators of impact; 3) the number of locations for each analyte that exceeds the ISSL; and 4) the minimum and maximum concentrations for those analytes.

Analyte	Total No. of Locations	No. of Locations Exceeding Impact Criteria	Total No. of Locations Exceeding ISSL	Minimum Concentration		Maximum Concentration	
1,2-Dibromo-3-Chloropropane	53		1	0.17	J	0.17	J
4,4'-DDD	53	11	11	0.00029	J	200	
4,4'-DDE	53	7	7	0.00043	J	85	
4,4'-DDT	53	8	8	0.0012		750	J
Alpha-BHC	53		4	0.00051	J	0.87	
Arsenic	53		35	1.3	J	160	
Benzene	53		1	0.00046	J-	8.1	
Chlorobenzene	53	1	2	0.00057	J	5300	
Chloroform	53		4	0.0015	J	25	
Lead	53		4	5.2	J-	1900	
Manganese	53		4	9.9	J+	63000	
Thallium	53		4	1.3	J	76	
Trichloroethene	53	2	2	0.00047	J	3800	
Vinyl Chloride	53		1	0.0026	J	3.8	

Notes:

Concentrations in mg/kg

J = estimated value

J+ = estimated biased high

J- = estimated biased low

Plate 16, Panels B, C, and D represent north-south and east-west cross-sections across the BF3 Operating Area constructed from boring logs and analytical data. Cross-section orientations are depicted on **Plate 16-Panel E**. The cross-sections depict the subsurface stratigraphy described in boring logs, and the limits of the impacted area as currently understood based on physical and chemical evidence of the impacts collected in this RFI. There are two main impacted areas depicted on **Plate 16**. Note that the northern area includes samples designated as Waste Storage since these Waste Storage borings are immediately adjacent to the BF3 Operating Area. Along the northern east-west, chemical evidence of impact extends to a depth of approximately 2 to 10 feet bgs for approximately 235 feet. Along the north-south, evidence of impact in the northern area extends for approximately 125 feet.

Along the southern east-west, chemical evidence of impact extends to a depth of approximately 6 feet bgs for approximately 160 feet. Along the north-south, evidence of impact in the southern area extends for approximately 140 feet.

In plan-view (**Plate 16-Panel E**), the combined area of impact in the north and south as currently delineated encompasses approximately 31,965 SF and the total volume of impact is estimated to be 191,790 CF, assuming an average depth of 6 feet bgs.

Delineation of impact is sufficiently complete to enable quantity estimates for evaluation of corrective measures.

Waste Storage Area

Soil borings were advanced at 24 locations within the Waste Storage Area to delineate the extent of soil impacts (**Plate 17, Panel A**). A total of 23 surface soil samples and 30 subsurface soil samples were collected for laboratory analyses. Analytical results for all detected analytes are provided as **Table 18** and summarized in **Figure 24**.

A summary of the laboratory analytical results for the surface samples (zero to 2 feet bgs) is provided below for: 1) the total number of sample locations; 2) the number of locations for each analyte that exceeds the threshold criteria for chemical indicators of impact; 3) the number of locations for each analyte that exceeds the ISSL; and 4) the minimum and maximum concentrations for those analytes.

Analyte	Total No. of Locations	No. of Locations Exceeding Impact Criteria	Total No. of Locations Exceeding ISSL	Minimum Concentration		Maximum Concentration	
1,4-Dichlorobenzene	23		2	0.00083	J	24	
4,4'-DDD	23	14	14	0.054		4000	
4,4'-DDE	23	16	16	0.025		1000	
4,4'-DDT	23	16	16	0.02		6000	J+
Alpha-BHC	23	13	13	0.0061	J+	1100	
Arsenic	23			2.4	J	220	
Benzo(A)Pyrene	23	1	1	0.014	J	10	
Beta-BHC	23	12	12	0.0062	J	1000	
Chlorobenzene	23	3	3	0.00098	J	18000	
Chloroform	23		4	0.0019	J	9.1	
Ethylbenzene	23		2	0.044	J	49	
Gamma-BHC (Lindane)	23		4	0.032	J	24	
Lead	23		2	9.8		1400	
Trichloroethene	23		3	0.00065	J	13	

Notes:

Concentrations in mg/kg

J = estimated value

J+ = estimated biased high

A summary of the laboratory analytical results for the subsurface samples (greater than 2 feet bgs) is provided below for: 1) the total number of sample locations; 2) the number of locations for each

analyte that exceeds the threshold criteria for chemical indicators of impact; 3) the number of locations for each analyte that exceeds the ISSL; and 4) the minimum and maximum concentrations for those analytes.

Analyte	Total No. of Locations	No. of Locations Exceeding Impact Criteria	Total No. of Locations Exceeding ISSL	Minimum Concentration		Maximum Concentration
1,2,4,5-Tetrachlorobenzene	30		1	0.24		150
1,4-Dichlorobenzene	30	3	3	0.00083	J-	110
4,4'-DDD	30	6	6	0.0034	J	200000
4,4'-DDE	30	5	5	0.0048	J+	86000
4,4'-DDT	30	7	7	0.016		140000
Alpha-BHC	30	13	13	0.0028	J	2100
Arsenic	30		23	1.3	J	28
Benzene	30		2	0.00047	J	32
Beta-BHC	30	6	6	0.0071	J	77
Chlorobenzene	30	2	2	0.00052	J	4900
Chloroform	30		4	0.0019	J	12
Gamma-BHC (Lindane)	30	5	5	0.0036	J	2100

Notes:

Concentrations in mg/kg

J = estimated value

J+ = estimated biased high

J- = estimated biased low

Plate 17, Panels B and C represent north-south and east-west cross-sections across the Delmarva Substation portion of the Waste Storage Area constructed from boring logs and analytical data. As noted previously, the remaining Waste Storage borings are depicted along with the northern BF3 Operating Area in **Plate 16**. Cross-section orientations are depicted on **Plate 17-Panel D**. The cross-sections depict the subsurface stratigraphy described in boring logs, and the limits of the impacted area as currently understood based on physical and chemical evidence of the impacts collected in this RFI. Along the east-west, chemical evidence of impact extends to a depth of approximately 8 feet bgs for approximately 125 feet. Along the north-south, evidence of impact extends for approximately 75 feet. What appeared to be waste-like material (described as rubber, brick, sticky, glassy, plastic, and viscous with a strong odor) was observed at a depth of approximately 6 to 8 feet bgs in soil borings in the Delmarva Substation area, specifically in soil borings SBWS-06 and SBWS-06F. Analytical results for the soil samples containing waste-like material indicate elevated concentrations of pesticides, chlorobenzene, and other VOCs (see **Table 18**). In plan-view (**Plate 17-Panel D**), the area of impact as currently delineated encompasses

approximately 4,587 SF and the total volume of impact is estimated to be 36,696 CF, assuming an average depth of 8 feet bgs.

Delineation of impact is sufficiently complete to enable quantity estimates for evaluation of corrective measures.

Wastewater Area

Soil borings were advanced at 98 locations within the Wastewater Area to delineate the extent of soil impacts. Two Plates are provided for the Wastewater Area (**Plate 18** for the Western Wastewater portion of the Wastewater Area and **Plate 19** for the Building 16 portion of the Wastewater Area). A total of 91 surface soil samples and 123 subsurface soil samples were collected for laboratory analyses. Analytical results for all detected analytes are provided as **Table 19** and summarized in **Figure 25**.

A summary of the laboratory analytical results for the surface samples (zero to 2 feet bgs) is provided below for: 1) the total number of sample locations; 2) the number of locations for each analyte that exceeds the threshold criteria for chemical indicators of impact; 3) the number of locations for each analyte that exceeds the ISSL; and 4) the minimum and maximum concentrations for those analytes.

Analyte	Total No. of Locations	No. of Locations Exceeding Impact Criteria	Total No. of Locations Exceeding ISSL	Minimum Concentration		Maximum Concentration	
1,2,4-Trichlorobenzene	91	1	1	0.0056	J	150	J
1,4-Dichlorobenzene	91	3	3	0.00044	J	140	
4,4'-DDD	91	44	44	0.0039	J	4800	
4,4'-DDE	91	36	36	0.0065	J	33000	
4,4'-DDT	91	50	50	0.013		28000	
Alpha-BHC	91	49	49	0.0039	J	3800	
Arsenic	91		86	1.6	J	230	
Benzene	91		1	0.00055	J	32	
Benzo(A)Anthracene	91	3	3	0.0046	J	140	J+
Benzo(A)Pyrene	91	9	9	0.0065	J	120	J+
Benzo(B)Fluoranthene	91	3	3	0.007	J	190	J+
Beta-BHC	91	53	53	0.0085	J	150	
Dibenzo(a,h)Anthracene	91	4	4	0.011	J	31	J+
Gamma-BHC (Lindane)	91	7	7	0.004	J	1400	
Hexachlorobenzene	91	13	13	0.0097	J	33	
Indeno(1,2,3-Cd)Pyrene	91	2	2	0.0059	J	88	J+
Lead	91		9	8.1		5700	
Tetrachloroethene	91	4	4	0.00056	J	2300	J

Trichloroethene	91		3	0.00056	J	11	
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Notes:

Concentrations in mg/kg

J = estimated value

J+ = estimated biased high

A summary of the laboratory analytical results for the subsurface samples (greater than 2 feet bgs) is provided below for: 1) the total number of sample locations; 2) the number of locations for each analyte that exceeds the threshold criteria for chemical indicators of impact; 3) the number of locations for each analyte that exceeds the ISSL; and 4) the minimum and maximum concentrations for those analytes.

Analyte	Total No. of Locations	No. of Locations Exceeding Impact Criteria	Total No. of Locations Exceeding ISSL	Minimum Concentration		Maximum Concentration	
1,2,4-Trichlorobenzene	123	1	1	0.0071	J	290	
1,4-Dichlorobenzene	123	9	9	0.0004	J	270	
2,4-Dinitrotoluene	123		1	0.063	J	29	
2,6-Dinitrotoluene	123		1	0.098		4	
4,4'-DDD	123	20	20	0.00043	J	11000	J
4,4'-DDE	123	12	12	0.00057	J	23000	J
4,4'-DDT	123	19	19	0.0089		110000	J
Alpha-BHC	123	27	27	0.0027	J	7200	
Arsenic	123		91	1.4	J	230	
Benzene	123		4	0.00062	J	420	
Benzo(A)Pyrene	123	3	3	0.004	J	14	J
Benzo(B)Fluoranthene	123	1	1	0.0045	J	32	J
Beta-BHC	123	19	19	0.00085		2100	
Carbon Tetrachloride	123		1	0.18	J	12	
Chloroform	123		4	0.00068	J	40	
Dibenzo(a,h)Anthracene	123		1	0.01	J	5.8	J
Gamma-BHC (Lindane)	123	10	10	0.0025		1500	
Hexachlorobenzene	123	5	5	0.0083	J	44	J
Hexachlorobutadiene	123	2	2	0.031	J	23	J
Lead	123		10	6.9	J	26000	
Mercury	123		1	0.029	J	52	
Naphthalene	123		3	0.0089	J	15	
Tetrachloroethene	123	9	9	0.00063	J	8600	
Trichloroethene	123		4	0.00046	J	50	

Notes:

Concentrations in mg/kg

J = estimated value

Plate 18, Panels B, C, and D represent north-south and east-west cross-sections across the Western Wastewater portion constructed from boring logs and analytical data. Cross-section orientations are depicted on **Plate 18-Panel E**. The cross-sections depict the subsurface stratigraphy described in boring logs, and the limits of impact as currently understood based on physical and chemical evidence of impact collected in this RFI. As shown on Plate 18, there is on large area of impact in the west and three smaller areas in the east. Along the east-west, chemical evidence of impact extends to a depth of approximately 2-4 feet bgs for a combined width of approximately 520 feet. Along the north-south, evidence of impact extends to similar depths for a combined width of approximately 315 feet. In plan-view (**Plate 18-Panel E**), the area of impact as currently delineated encompasses approximately 65,788 SF and the total volume of waste is estimated to be 197,364 CF, assuming an average depth of 3 feet bgs.

Delineation of waste is sufficiently complete to enable quantity estimates for evaluation of corrective measures.

Plate 19, Panels B, C, and D represent north-south and east-west cross-sections across the Building 16 portion constructed from boring logs and analytical data. Cross-section orientations are depicted on **Plate 19-Panel E**. The cross-sections depict the subsurface stratigraphy described in boring logs, and the limits of impact as currently understood based on physical and chemical evidence of impact collected in this RFI. There are several areas of impact depicted on **Plate 19**. Along the east-west, chemical evidence of impact extends to a depth of approximately 2 to 4 feet bgs, with the exception of one area at boring SBWW-18D where the depth of impact is approximately 7.5 feet bgs, for a combined width of approximately 260. Along the north-south, chemical evidence of impact extends for a combined length of approximately 120 feet. In plan-view (**Plate 19-Panel E**), the area of impact as currently delineated encompasses approximately 10,748 SF and the total volume of waste is estimated to be 53,740 CF, assuming an average depth of 5 feet bgs.

Delineation of waste is sufficiently complete to enable quantity estimates for evaluation of corrective measures.

4.2 GROUNDWATER FLOW

Existing monitoring wells and monitoring wells recently installed at the Site during the RFI were used to evaluate the groundwater quality throughout the DVW and assess the impacts of individual SWMUs, AOCs, and additional areas, potential offsite migration, groundwater flow direction, and groundwater flow gradient. Monitoring well locations are shown on **Figure 3**. Monitoring well construction specifications for wells are provided in **Table 20**.

Shallow water level data was collected as a synoptic water level round during the RFI investigation work in December 2021 from all monitoring wells at the DVW (**Table 21**). Water levels were collected from monitoring wells at SWMU 9 in December 2019.

Groundwater at DVW, was encountered between 1.54 and 14.13 feet bgs with an average depth of 6.34 feet bgs and between 6.99 and 9.15 feet bgs in the deep wells with an average depth of 8.33 feet bgs, based on measurements collected in December 2021. **Figures 4** and **5** depict water table elevation contours constructed from the most recent data collected during the December 2021 event (other than SWMU 9) for DVW from shallow and deep wells, respectively.

Groundwater flow direction in the shallow unconsolidated overburden at DVW is generally towards the south toward the Delaware River discharge boundary, although there are local variations. In the northeastern portion of DVW, shallow groundwater flows to the southeast. In the central portion of DVW, shallow groundwater flows to the south-southwest. In the southwestern portion of DVW, shallow groundwater flows to the south-southeast. The hydraulic gradient for shallow groundwater is estimated to be 0.003 to 0.006 ft/ft in the northeastern and central portions of DVW and 0.003 ft/ft in the southwestern portion of DVW based on the 2021 data. Groundwater mounding is apparent in the area of monitoring wells SM19-MW2 and SM20-MW1 in the central portion of DVW. The cause of the mounding is unknown. A relatively high water table elevation was also observed in monitoring well EWL-08 in the northwestern portion of DVW. Groundwater flow in the weathered bedrock appears to flow to the west-northwest. The hydraulic gradient for deep groundwater is estimated to be 0.008 ft/ft.

At SWMU 9, groundwater was encountered between 4.18 and 16.97 feet bgs in the shallow wells with an average depth of 8.21 feet bgs and between 7.04 and 42.63 feet bgs in the deep wells with an average depth of 20.79 feet bgs, based on measurements collected in December 2019.

Groundwater flow direction in the shallow unconsolidated overburden at SWMU 9 is generally toward the southeast toward the Delaware River discharge boundary. The SWMU's western boundary, the sluiceway, is likely also a discharge boundary. Groundwater flow in the deeper unconsolidated overburden at SWMU 9 is generally toward the east-northeast. The hydraulic gradient for shallow groundwater is estimated to be 0.004 ft/ft and the hydraulic gradient for deep groundwater is estimated to be 0.002 ft/ft based on the 2019 data. **Figures 6** and **7** are figures depicting water table elevation contours constructed from data collected during the December 2019 event for SWMU 9 from shallow and deep wells, respectively

4.3 GROUNDWATER IMPACTS

Groundwater quality at DVW is impacted by several analytes which have been identified in multiple SWMUs and additional areas. **Figures 26** through **29** for DVW and **Figures 30** through **33** for SWMU 9 depict groundwater exceedances from the RFI groundwater sampling event in December 2021. Groundwater impacts are discussed generally below, followed by SWMU and additional area-specific observations regarding groundwater impact. Groundwater analytical results are summarized in **Table 23** through **26**. Prior to the December 2021 sampling event,

groundwater has been sampled at the Site during several events since 2003. Comprehensive tables for all historical groundwater sampling events are included in **Appendix F**.

Volatile Organic Compounds

The following VOCs were detected in groundwater samples from the December 2021 sampling at concentrations exceeding the RSLs (Tapwater or MCLs):

- 1,1,1-Trichloroethane
- 1,1,2,2-Tetrachloroethane
- 1,1,2-Trichloro-1,2,2-Trifluoroethane
- 1,1,2-Trichloroethane
- 1,1-Dichloroethane
- 1,1-Dichloroethene
- 1,2,4-Trichlorobenzene
- 1,2-Dichlorobenzene
- 1,2-Dichloroethane
- 1,4-Dichlorobenzene
- 1,4-Dioxane
- 2-Butanone
- 4-Methyl-2-Pentanone
- Acetone
- Benzene
- Carbon Tetrachloride
- Chlorobenzene
- Chloroform
- cis-1,2-Dichloroethene
- Diethyl Ether
- Ethylbenzene
- Methylene Chloride
- o-Xylene
- Styrene
- Tetrachloroethene
- Toluene
- Total Xylenes
- trans-1,2-Dichloroethene
- Trichloroethene
- Vinyl Chloride

Five of the 53 monitoring wells sampled at the DVW in 2021 (MW-04, MW-07, MW-08, MW-09, and MW-116) and four of the 14 wells sampled at SWMU 9 in 2019 (SM9-MW1, MW-16, MW-123D, and MW-124D) have no VOCs with concentrations exceeding RSLs (see **Figure 26** and **Figure 30**). The total VOC concentrations range from 0.65 J micrograms per liter (µg/L) to 704,383 µg/L. The wells with the highest total VOC concentrations are listed below. All other wells have total VOC concentrations less than 10,000 µg/L.

- MW-1: 704,383 µg/L
- WW-MW2: 697,559 µg/L
- SM16-MW1: 659,828 µg/L
- WW-MW1: 261,784 µg/L
- MW06-02: 154,400 µg/L
- MW-06: 68,114.4 µg/L
- BF3-MW2: 56,863 µg/L
- BF3-MW1: 56,204 µg/L
- WW-MW3: 44,803.6 µg/L
- MW06-03: 35,105 µg/L

- SM14-MW1: 23,979 µg/L
- BF3-MW3 16,354 µg/L
- MW06-01: 14,687.7 µg/L

VOCs typically associated with the degradation of chlorinated VOCs (e.g., vinyl chloride) are present throughout the Site, indicating the potential for natural attenuation at the Site.

Semi-Volatile Organic Compounds

The following SVOCs are detected in groundwater samples from the December 2021 sampling at concentrations exceeding the RSLs (Tapwater or MCLs):

- 1,1'-Biphenyl
- 1,2,4,5-Tetrachlorobenzene
- 2,4,6-Trichlorophenol
- 2,4-Dichlorophenol
- 2,4-Dinitrotoluene
- 2,6-Dinitrotoluene
- Benzo(A)Anthracene
- Benzo(A)Pyrene
- Benzo(B)Fluoranthene
- Dibenzofuran
- Hexachlorobenzene
- Hexachlorobutadiene
- Naphthalene
- Nitrobenzene
- n-Nitrosodiphenylamine
- Pentachlorophenol

Nine of the 53 monitoring wells sampled at DVW in 2021 and 11 of the 14 wells at SWMU 9 in 2019 have no SVOCs with concentrations exceeding RSLs (see **Figure 27** and **Figure 31**). The total SVOC concentrations range from 0.35 J to 1,806 µg/L. The wells with the highest total SVOC concentrations are listed below. All other wells had total SVOC concentrations less than 1,000 µg/L.

- WW-MW3: 1,806 µg/L
- WW-MW2: 1,454.9 µg/L

Metals

The following dissolved metals were detected in groundwater samples from the December 2021 sampling at concentrations exceeding the RSLs (Tapwater or MCLs):

- Aluminum
- Arsenic
- Beryllium
- Cadmium
- Cobalt
- Copper
- Iron
- Lead
- Manganese
- Selenium
- Thallium
- Zinc

One of the 53 monitoring wells sampled at DVW in 2021 (MW-09) and one of the 14 wells sampled at SWMU 9 in 2019 (MW-17) have no dissolved metals with concentrations exceeding RSLs (see **Figure 28** and **Figure 32**). Dissolved arsenic concentrations range from 7 to 358 µg/L at DVW and from 78.3 to 44,300 µg/L at SWMU 9.

Pesticides

The following pesticides were detected in groundwater samples from the December 2021 sampling at concentrations exceeding the RSLs (Tapwater or MCLs):

- 4,4'-DDD
- 4,4'-DDE
- 4,4'-DDT
- Aldrin
- Alpha-BHC
- Beta-BHC
- Gamma-BHC (Lindane)
- Heptachlor Epoxide

Fifty-one of the 53 monitoring wells sampled at DVW in 2021 (MW-08 and MW-09) and all of the 14 wells sampled at SWMU 9 in 2019 have pesticide concentrations that exceeded the RSLs (see **Figure 30** and **Figure 34**). The total pesticide concentrations ranged from 0.024 to 627.4 µg/L. The wells with the highest total pesticide concentrations are listed below. All other wells had total pesticide concentrations less than 100 µg/L.

- SM22-MW1: 627.4 µg/L
- SM27-MW1: 286.96 µg/L
- MW06-02: 195.69 µg/L
- WW-MW4: 187 µg/L
- SM21-MW1: 160.3 µg/L

SWMU 9

The direction of groundwater flow at SWMU 9 is to the southeast. Shallow monitoring wells located at and downgradient of SWMU 9 include existing wells MW-14, MW-15, MW-16, MW-17, MW-18, MW-19, SM9-MW1, MW-123S, and MW-124S (see **Figure 6**).

Total VOC exceedance concentrations in groundwater at SWMU 9 ranged from 0.6 µg/L to 185.7 µg/L; VOCs were not detected in well SM9-MW1 or in MW-16, located near the property boundary for the Site. Total SVOC exceedance concentrations in groundwater at SWMU 9 ranged from 0.8 µg/L to 54 µg/L and were detected in only three wells at SWMU 9, wells MW-15, at a total SVOC exceedance concentration of 54 µg/L, SM9-MW1, at a concentration of 12 µg/L, and MW-123S at 0.8 µg/L. Dissolved arsenic concentrations ranged from 20,300 µg/L in well MW-18, a downgradient well, to 8,470 µg/L in well MW-14 and 41,800 µg/L in well MW-19, the two most upgradient wells. Dissolved arsenic was detected in downgradient well MW-16 at 85.6 µg/L, but not in MW-17, located near the southern property boundary. Total pesticide exceedance concentrations range from 1.38 µg/L and 85 µg/L in two downgradient wells near the property

boundary (wells MW-17 and MW-18, respectively) to 19.61 µg/L in well MW-14, the most upgradient well. The data indicate a potential upgradient source since the highest concentrations are present in the most upgradient wells. Concentrations decrease significantly before exiting the Site (see **Figures 30** through **33**).

The 2019 groundwater sampling event included the collection of samples from four Sunoco monitoring wells located immediately adjacent to SMWU 9 on the west side of Middle Creek (monitoring wells MW-48, MW-557, MW-559, and MW-560, see **Figures 30** through **33**). A sample was not collected from Sunoco monitoring well MW-558 since it contained light nonaqueous phase liquid (LNAPL). The data indicated the following regarding MCL exceedances:

- VOCs. The concentrations of benzene and chlorobenzene in Sunoco monitoring well MW-559 were significantly higher than those in the SMWU 9 monitoring wells.
- SVOCs. Benzo(a)pyrene in one monitoring well at SWMU 9 (SM9-MW1) and pentachlorophenol in one Sunoco monitoring well (Sunoco well MW-557) exceeded MCLs.
- Dissolved metals. The concentrations of arsenic were significantly higher in monitoring wells MW-18 and MW-19 and Sunoco monitoring well MW-557 than those in other SWMU 9 monitoring wells.

The USEPA letter dated December 28, 2021 approved the SWMU 9 investigation and requested a completion of a CMS for SWMU 9.

A review of groundwater data from Sunoco monitoring wells further from Middle Creek to the east and southeast of SWMU 9 showed arsenic concentrations in monitoring wells along the shoreline as high as 1,360,000 ug/L, several orders of magnitude higher than arsenic concentrations in SWMU 9 monitoring wells (GHD, 2017). The arsenic concentrations in Sunoco monitoring wells decrease significantly away from the shoreline to the northeast of SWMU 9 (from several hundred to less than a hundred ug/L). Benzene and chlorobenzene concentrations in Sunoco monitoring well MW-509, located on the east side of Middle Creek to the east of SWMU 9, were 180 ug/L and 240 ug/L, respectively. In comparison, SWMU 9 benzene concentrations which ranged from 0.05 J to 19 ug/L and SWMU 9 chlorobenzene concentrations which range from 0.06 J to 67 ug/L, except for monitoring well MW-15, which had a chlorobenzene concentration of 160 ug/L. SWMU 9 monitoring well is located adjacent to Sunoco near Sunoco monitoring well MW-558 which contained LNAPL. These data demonstrate that SWMU 9 is not the source of impacts on Sunoco property.

SWMU 13

Soil sample exceedances at SWMU 13 that are also exceeded in groundwater include the following analytes. This list of analytes consists of soil data from the 2015 RFI as well as historic soil data with exceedances. This is an indication that SWMU 13 acts as a potential source of groundwater impact at and downgradient of SWMU-13 for these analytes.

- alpha-BHC
- Arsenic

- Benzene
- Benzo(b)fluoranthene
- beta-BHC
- Chloroform
- 1,2-Dichlorobenzene
- 1,4-Dichlorobenzene
- 1,1-Dichloroethene
- cis-1,2-Dichloroethene
- Ethylbenzene
- Iron
- Manganese
- Methylene Chloride
- Naphthalene
- N-Nitrosodiphenylamine
- Tetrachloroethene
- Trichloroethene
- Vinyl Chloride

Monitoring wells located at or downgradient of SWMU 13 include wells MW-01, MW-13, and SM13-MW1, while well MW-104 is side-gradient of SWMU 13 (see **Figure 4**). Monitoring wells located upgradient of SWMU-13 include wells SM14-MW2 and MW-12.

Well MW-01 is located within SWMU 13 and had a total VOC exceedance concentration of 704,379 µg/L, a total SVOC exceedance concentration of 323.2 µg/L, a dissolved arsenic concentration 43 µg/L, and a total pesticide concentration of 0.17 ug/L (see **Figures 26 through 29**). The concentrations in downgradient well MW-13 (a distance of 160 feet from SWMU 13) were orders of magnitude less than those in well MW-01, indicating that concentrations decrease with distance away from SWMU 13. Well MW-13 had a total VOC exceedance concentration of 1,563.10 µg/L, a total SVOC exceedance concentration of 43.8 µg/L, a dissolved arsenic concentration of 30 µg/L, and a total pesticide exceedance concentration of 0.065 ug/L. Similarly, lower total concentrations were also observed in downgradient well SM13-MW1 (a distance of 230 feet from SWMU 13) and side-gradient well MW-104.

Total VOC exceedance concentrations in wells located upgradient of SWMU 13 (wells MW-12 and SM14-MW2) were 2,587.10 µg/L and 2,643.20 µg/L, respectively. The total SVOC exceedance concentrations was 153 µg/L in well MW-12 and there were no SVOC exceedances in well SM14-MW2. The dissolved arsenic concentration was 240 µg/L in well MW-12 and the dissolved arsenic concentration was 8.3 ug/L in SM14-MW2. The total pesticide exceedance in well MW-12 was 0.024 ug/L and at well SM14-MW2, the total pesticide exceedance concentration was 0.063 µg/L.

Upgradient concentrations are significantly less than those in well MW-01, indicating that SWMU 13 acts as a potential source of groundwater impact at and downgradient of SWMU 13. The further downgradient wells, MW-13 and SM13-MW1, and side-gradient well, MW-104, are near the southern and eastern plant boundaries. The data suggest that concentrations decrease significantly before groundwater exits the Site.

SWMU 14

Soil sample exceedances that were also exceeded in groundwater include the following analytes. This list of analytes consists of soil data from the 2015 RFI as well as historic soil data with

exceedances. This is an indication that SWMU 14 acts as a potential source of groundwater impact at and downgradient of SWMU-14 for these analytes.

- Alpha-BHC
- Arsenic
- Benzene
- Beta-BHC
- Chloroform
- 4,4'-DDD
- 1,1-Dichloroethene
- cis-1,2-Dichloroethene
- Ethylbenzene
- Iron
- Manganese
- Naphthalene
- Nitrobenzene
- Tetrachloroethene
- Vinyl Chloride

Monitoring wells located at and downgradient of SWMU 14 include wells SM14-MW1 and SM14-MW2, while well MW-12 is side-gradient of SWMU 14 (see **Figure 4**). Monitoring wells located upgradient of SWMU 14 include well SM15-MW1.

Well SM14-MW1 had a total VOC exceedance concentration of 23,979 µg/L, a total SVOC exceedance concentration of 200.84 µg/L, a dissolved arsenic concentration of 9.2 µg/L, and a total pesticide exceedance concentration of 0.627 µg/L (see **Figures 26 through 29**). The concentrations in well SM14-MW1 decreased between wells SM14-MW1 and SM14-MW2 (a distance of 140 feet). Well SM14-MW2 had a total VOC exceedance concentration of 2,643.20 µg/L, a dissolved arsenic concentration of 8.3 µg/L, and a total pesticide exceedance concentration of 0.063 µg/L. There were no SVOC exceedances in well SM14-MW2. Similarly, lower total concentrations are also observed in side-gradient well MW-12.

Upgradient well SM15-MW1 could not be sampled during the December 2021 sampling event since construction debris had been placed in the area. However, in September 2015, the total VOC exceedance concentration in well SM15-MW1) was 9,753 µg/L, the total SVOC exceedance concentration was 1 µg/L, the dissolved arsenic concentration was 20.4 µg/L, and the total pesticide exceedance concentration was 3.7 µg/L.

In summary, upgradient concentrations are less than those at the SWMU 14, indicating that SWMU 14 acts as a potential source of groundwater impact. However, based on the data from upgradient wells, there may be sources upgradient of SWMU 14 that are also contributing to the groundwater impact in the area of SWMU 14.

SWMU 15

Soil sample exceedances that are also exceeded in groundwater include the following analytes. This list of analytes consists of soil data from the 2015 RFI as well as historic soil data with exceedances. This is an indication that SWMU 15 acts as a potential source of groundwater impact at and downgradient of SWMU-15 for these analytes.

- Alpha-BHC
- Arsenic
- Beta-BHC
- Benzene
- 4,4-DDD
- 1,4-Dichlorobenzene
- 1,2-Dichloroethane
- 1,1-Dichloroethene
- cis-1,2-Dichloroethene
- Iron
- Manganese
- Naphthalene
- Nitrobenzene
- Tetrachloroethene
- 1,1,2-Trichloroethane
- Vinyl Chloride

Monitoring wells located downgradient of SWMU 15 include wells SM15-MW1, SM15-MW2, and SM14-MW1, which is also located within the boundaries of SWMU 14 (see **Figure 4**). Monitoring wells located upgradient of SWMU 15 may include well MW-09; however, there are no wells directly upgradient of SWMU 15.

Monitoring well SM15-MW1 could not be sampled during the December 2021 sampling event since construction debris had been placed in the area. However, in September 2015, the total VOC exceedance concentration in monitoring well SM15-MW1 was 9,753 µg/L, the total SVOC exceedance concentration was 1 µg/L, the dissolved arsenic concentration was 20.4 µg/L, and the total pesticide exceedance concentration was 3.7 µg/L (see **Figures 26 through 29**). Similar exceedance concentrations (2,979.9 µg/L total VOCs, 0.47 µg/L total SVOCS, 0.662 µg/L total pesticides, and 7.1 µg/L dissolved arsenic) were observed in well SM15-MW2. Somewhat higher exceedance concentrations were observed in downgradient well SM14-MW1 (23,979 µg/L total VOCs, 200.84 µg/L total SVOCs, 9.2 µg/L of dissolved arsenic, and 0.627 µg/L total pesticides), which may be caused by sources at both SWMU 14 and SWMU 15.

No VOCs, SVOCs, dissolved metals, or pesticides are observed in potentially upgradient well MW-09 (located at the northeastern property boundary of the Site).

Since there are no wells that document groundwater conditions directly upgradient from SWMU 15, it is possible that offsite sources may be contributing to the groundwater impacts observed at SWMU 15.

SWMU 16

Soil sample exceedances that are also exceeded in groundwater include the following analytes. This list of analytes consists of soil data from the 2015 and 2021 RFI as well as historic soil data with exceedances. This is an indication that SWMU 16 acts as a potential source of groundwater impact at and downgradient of SWMU-16 for these analytes.

- Arsenic
- Cobalt
- Iron
- Manganese
- 4,4'-DDD
- Alpha-BHC
- Beta-BHC
- Methylene Chloride

- o-Xylene
- Tetrachloroethene
- Toluene
- Total Xylenes
- Trichloroethene
- Vinyl Chloride
- Naphthalene
- Nitrobenzene

Monitoring wells located at and downgradient of SWMU 16 include wells SM16-MW1, SM16-MW2, MW-12, MW-104, and MW-117 (see **Figure 4**). There are no wells directly upgradient of SWMU 16.

Monitoring well SM16-MW1 is located within SWMU 16 and had a total VOC exceedance concentration of 659,911 µg/L (the highest total VOC exceedance concentration at the Site), a total SVOC exceedance concentration of 1.4 µg/L, a dissolved arsenic concentration of 31 µg/L, and a total pesticide exceedance concentration of 0.35 µg/L (see **Figures 26 through 29**). Similar, but significantly lower, total exceedance concentrations were observed at SM16-MW2 (a total VOC exceedance concentration of 2,116 µg/L, no SVOC exceedance concentrations, a dissolved arsenic concentration of 2.6 µg/L, and a total pesticide exceedance concentration of 0.328 µg/L). These data indicate that the very high total VOC exceedance concentration at well SM6-MW1 is somewhat limited in extent.

Since there are no wells that document conditions directly upgradient from SWMU 16, potential offsite sources that may be contributing to the groundwater impacts observed at SWMU 16 cannot be assessed.

The concentrations in downgradient wells MW-12, MW-104, and MW-117 are significantly less than those at SM16-MW1. These wells are approximately 260 feet, 525 feet, and 700 feet away from SWMU 16, respectively. Data from wells MW-104 and MW-117, located near the property boundary, suggest that concentrations decrease significantly before groundwater exits the Site.

SWMU 17

Soil sample exceedances that are also exceeded in groundwater include the following analytes. This list of analytes consists of soil data from the 2015 RFI as well as historic soil data with exceedances. This is an indication that SWMU 17 acts as a potential source of groundwater impact at and downgradient of SWMU-17 for these analytes.

- Alpha-BHC
- Arsenic
- Benzene
- Beta-BHC
- Chlorobenzene
- Chloroform
- 4,4-DDD
- 4,4-DDE
- 1,4-Dichlorobenzene
- 1,1-Dichloroethene
- cis-1,2-Dichloroethene
- Ethylbenzene
- Iron
- Manganese
- Naphthalene
- Tetrachloroethene

- 1,2,4-Trichlorobenzene

Monitoring wells located downgradient of SWMU 17 include wells SM17-MW1 and SM17-MW2 (see **Figure 4**). Wells SM20-MW3 and MW-06 are further downgradient from SWMU 17 (approximately 230 feet). Monitoring wells located up- to side-gradient of SWMU-17 include wells MW-8, SM16-MW1, and SM16-MW2; however, these three wells are approximately 560 feet from SWMU 17 and most likely reflect impacts from SWMU 16.

Monitoring well SM17-MW2 is located approximately 30 feet downgradient of SWMU 17 and had a total VOC exceedance concentration of 8,717 µg/L, a total SVOC exceedance concentration of 1.48 µg/L, a dissolved arsenic concentration of 9.8 µg/L, and a total pesticide exceedance concentration of 0.776 µg/L (see **Figures 26 through 29**). Monitoring well SM17-MW1 is somewhat further downgradient (approximately 50 feet from SWMU 17) with a significantly lower total VOC exceedance concentration of 52.3 µg/L, no SVOC exceedances, a 4.4 µg/L dissolved arsenic exceedance, and a 0.776 µg/L total pesticide exceedance, indicating that contaminant migration from SWMU 17 may be somewhat limited.

The concentrations in wells further downgradient (wells SM20-MW3 and MW-06) were significantly higher than the concentrations in well SM17-MW1, indicating a potential unidentified source other than SWMU 17 is located between wells SM17-MW1/SM17-MW2 and wells SM20-MW3/MW-06.

Monitoring well MW-8 (located at the northern property boundary of the site) had a dissolved arsenic concentration of 2.1 ug/L, but no VOCs, SVOCs, or pesticides exceedances, indicating SWMU 17 acts as a source of groundwater impact downgradient of SWMU 17.

SWMU 18

Soil sample exceedances that are also exceeded in groundwater include the following analytes. This list of analytes consists of soil data from the 2015 RFI as well as historic soil data with exceedances. This is an indication that SWMU 18 acts as a potential source of groundwater impact at and downgradient of SWMU-18 for these analytes.

- | | |
|-----------------|----------------------|
| • Alpha-BHC | • 4,4-DDD |
| • Arsenic | • 1,1-Dichloroethane |
| • Benzene | • 1,2-Dichloroethane |
| • Beta-BHC | • Manganese |
| • Chlorobenzene | • Tetrachloroethene |

Monitoring wells located at and in a side- to downgradient direction from SWMU 18 include wells MW-07 and SM18-MW1 (see **Figure 4**). Wells located further downgradient include wells MW-03, SM19-MW1, and SM19-MW2; however, wells SM19-MW1 and SM19-MW2 likely reflect impacts

from SWMU 19. Monitoring wells located up- to side-gradient of SWMU-18 include well MW-08; however, there are no wells directly upgradient of SWMU 18.

Monitoring well SM18-MW1 is located at the northwestern edge of SWMU 18 and had a total VOC exceedance concentration of 12.41 µg/L, a total pesticide exceedance concentration of 0.379 µg/L, and a total dissolved arsenic exceedance of 17 µg/L (see **Figures 26 through 29**). SVOCs were not detected at SM18-MW1. Lower total exceedance concentrations (no total VOCs, no total SVOCS, 2.6 µg/L dissolved arsenic, and 2 µg/L total pesticides) were observed in well MW-07. The concentrations in further downgradient wells MW-03, SM19-MW1, and SM19-MW2 were similar to those at SWMU 18; however, wells SM19-M1 and SM19-MW2 likely reflect impacts from SWMU 19.

Dissolved arsenic was detected at a concentration of 2.1 ug/L, however, no VOCs, SVOCs, or pesticides were observed in potentially upgradient well MW-8 (located at the northern property boundary of the site), indicating SWMU 18 acts as a sole source of downgradient groundwater impact. Since there are no wells that document conditions directly upgradient from SWMU 18 it is not possible to assess offsite sources that may be contributing to the groundwater impacts observed at SWMU 18.

SWMU 19

Soil sample exceedances that are also exceeded in groundwater include the following analytes. This list of analytes consists of soil data from the 2015 RFI as well as historic soil data with exceedances. This is an indication that SWMU 19 may be acting as a potential source of groundwater impact at and downgradient of SWMU 19 for these analytes.

- alpha-BHC
- Arsenic
- Antimony
- beta-BHC
- Benzene
- Benzo(a)anthracene
- Benzo(b)fluoranthene
- Cobalt
- Chlorobenzene
- Chloroform
- 4,4-DDD
- 4,4-DDE
- cis-1,2-Dichloroethene
- 1,4-Dichlorobenzene
- Iron
- Lead
- Manganese
- Methylene Chloride
- Naphthalene
- Tetrachloroethene
- Trichloroethene
- Vinyl Chloride

The direction of groundwater flow in the area of SWMU 19 is generally to the south-southwest; however, there appears to be a local groundwater mound to the southeast of SWMU 19. The cause of the mound is unknown. Monitoring wells located at or generally downgradient of SWMU 19 include wells SM19-MW2. Well SM19-MW1 is located side-gradient in relation to SWMU 19.

Further downgradient wells include well SM20-MW2 (200 feet from SWMU 19) and well SM23-MW1 (600 feet from SWMU 19 at the property boundary). Concentrations in well SM20-MW2 likely also reflect impacts from SWMU 20 (see **Figure 4**). Monitoring wells located upgradient of SWMU-19 include wells MW-07 and MW-08.

Monitoring well SM19-MW1 had a total VOC exceedance concentration of 6,215.9 µg/L, a total SVOC exceedance concentration of 79.48, a dissolved arsenic concentration of 9.2 µg/L, and a total pesticide exceedance concentration of 2.9 µg/L (see **Figures 26 through 29**). Well SM19-MW2 had a total VOC exceedance concentration of 6,570.5 µg/L, a total SVOC exceedance concentration of 3.48 µg/L, a dissolved arsenic concentration 27 µg/L; and a total pesticide exceedance concentration of 11.68 µg/L. The concentrations at further downgradient well SM20-MW2 were orders of magnitude lower than those at wells SM19-MW1 and SM19-MW-2. SM20-MW2 had a total VOC exceedance concentration of 105.53 µg/L, a dissolved arsenic exceedance concentration of 4.1 µg/L, and a total pesticide exceedance concentration of 0.913 µg/L. SVOCs were not detected. Similarly, lower total concentrations were also observed in further downgradient well SM23-MW1, indicating that impacts from SWMU 19 are somewhat limited and that concentrations decrease significantly before groundwater exits the Site.

There were no VOC exceedance concentrations in wells located upgradient of SWMU 19 (MW-07 and MW-08). The dissolved arsenic concentrations in MW-07 and MW-08 were 2.1 and 2.6 µg/L, respectively. SVOCs were not detected in upgradient wells. A pesticide exceedance of 2 µg/L was detected in MW-07, there was not pesticide detection in well MW-08. The data indicate little or no upgradient impacts.

SWMU 20

Soil sample exceedances that are also exceeded in groundwater include the following analytes. This list of analytes consists of soil data from the 2015 RFI as well as historic soil data with exceedances. This is an indication that SWMU 20 may be acting as a potential source of groundwater impact at and downgradient of SWMU 20 for these analytes.

- Arsenic
- Benzene
- Benzo(a)anthracene
- Beta-BHC
- Chlorobenzene
- Chloroform
- Cobalt
- 4,4-DDD
- 4,4-DDE
- 4,4-DDT
- 1,2-Dichlorobenzene
- cis-1,2-Dichloroethene
- Manganese
- Naphthalene
- 1,2,4-Trichlorobenzene
- Trichloroethene
- Vinyl Chloride

The direction of groundwater flow in the area of SWMU 20 is generally to the southwest; however, there appears to be a local groundwater mound to the southwest of SWMU 20. The cause of the mound is unknown. Monitoring wells located at or generally downgradient of SWMU 20 include wells SM20-MW1, SM20-MW2, SM20-MW3, and MW-06. Further downgradient wells include well SM23-MW1 (540 feet from SWMU 20 at the property boundary (see **Figure 4**). Monitoring wells located upgradient of SWMU-20 include well MW-08.

Wells SM20-MW1 and SM20-MW2 have total VOC exceedance concentrations of 1.39 µg/L and 105.53 µg/L and total dissolved arsenic exceedance concentrations of 92 µg/L and 4.1 µg/L, respectively. SVOCs were detected at an exceedance concentration of 0.76 µg/L in SM20-MW1 but were not detected in SM20-MW2. The pesticide concentration in SM20-MW2 was 0.913 µg/L. Pesticides were not detected in SM20-MW1 (see **Figures 26 through 29**). These concentrations indicate a relatively minor impact to groundwater from SWMU 20 compared with data at other SWMUs.

Concentrations in further downgradient wells SM20-MW3 and MW-06 are orders of magnitude higher than those in wells SM20-MW1 and SM20-MW2. SM20-MW3 and MW-06 have total VOC exceedance concentrations of 731.89 µg/L and 68,114.4 µg/L (the second highest total VOC concentration at the Site), respectively. These elevated total VOC concentrations may indicate a potential unidentified source between SWMU 20 and wells SM20-MW3 and MW-06. Total SVOC exceedance concentrations were 72.04 µg/L and 0.65 µg/L, respectively. Dissolved arsenic concentrations were 2.5 µg/L and 15 µg/L, respectively. Total pesticide exceedance concentrations were 3.17 µg/L and 17 µg/L, respectively. The data suggest a potential source of VOCs other than SWMU 20 that is impacting groundwater in the area of wells SM20-MW3 and MW-6. Lower total concentrations were observed in further downgradient wells MW-04 and SM23-MW1, indicating that concentrations decrease significantly before groundwater exits the Site.

VOCs, SVOCs, dissolved metals, and pesticides are not detected in upgradient well MW-08, indicating no potential sources upgradient of SWMU 20.

SWMU 21, 22, and 30

Soil sample exceedances that are also exceeded in groundwater include the following analytes. This list of analytes consists of soil data from the 2015 RFI as well as historic soil data with exceedances. This is an indication that SWMUs 21, 22, and 30 may be acting as potential sources of groundwater impact at and downgradient of these SWMUs for these analytes.

- alpha-BHC
- Arsenic
- Benzo(a)anthracene
- Benzene
- Beta-BHC
- Cobalt
- Chloroform
- 4,4-DDD
- 4,4-DDE
- 4,4-DDT
- 1,4-Dichlorobenzene
- gamma-BHC

- Iron
- Manganese
- Methylene Chloride
- Naphthalene
- Tetrachloroethene
- 1,2,4-Trichlorobenzene
- Trichloroethene

Monitoring wells located at and downgradient of SWMUs 21, 22, and 30 include wells EWL-8, SM21-MW1, SM21-MW2, SM22-MW1 (see **Figure 4**). Wells located further downgradient include wells MW-116 and SM23-MW1. Monitoring wells located upgradient of SWMUs 21, 22, and 30 include well MW-03.

Total VOC exceedance concentrations ranged from 0.65 µg/L in one of the most upgradient wells (well SM21-MW2) to 2,861.7 µg/L in the most downgradient well in the area (well SM22-MW1). SVOCs were not detected in any of the wells in the area except for SM22-MW01 (110 µg/L), SM21-MW1 (98 µg/L), SM23-MW1 (0.76 µg/L), and MW-03 (0.35 µg/L). Dissolved arsenic concentrations ranged from non-detect to 22 µg/L in well SM22-MW1. Total pesticide exceedance concentrations ranged from 10.39 µg/L (SM21-MW2) to 627.4 (SM22-MW1) µg/L. Lower total concentrations were observed in further downgradient wells MW-116 and SM23-MW1, indicating that concentrations decrease significantly before groundwater exits the Site. See **Figures 26** through **29**.

SVOCs and dissolved arsenic were detected at low concentration in well MW-03 (0.35 µg/L and 2.4 µg/L, respectively), indicating no potential sources upgradient of SWMUs 21, 22, and 30. Total VOCs and total pesticides were detected in MW-3 at concentrations of 7,758.2 µg/L and 0.126 µg/L respectively. MW-03 is located near the northern property boundary of the Site and analytes detected in MW-03 may reflect an upgradient, offsite source.

SWMU 23

Soil sample exceedances that are also exceeded in groundwater include the following analytes. This list of analytes consists of soil data from the 2015 RFI as well as historic soil data with exceedances. This is an indication that SWMU 23 may be acting as a potential source of groundwater impact at and downgradient of SWMU 23 for these analytes.

- Alpha-BHC
- Benzo(b)fluoranthene
- Beta-BHC
- Chloroform
- Cobalt
- 4,4-DDD
- 4,4-DDE
- 4,4-DDT
- Tetrachloroethene
- Trichloroethene
- Vinyl Chloride

The direction of groundwater flow in the area of SWMU 23 is to the south-southeast. Monitoring well SM23-MW1 is located downgradient of SWMU 23 near the property boundary of the Site (see **Figure 4**).

Monitoring well SM23-MW1 had a total VOC exceedance concentration of 24 µg/L, a total SVOC exceedance concentration of 0.1 J µg/L, and a total pesticide exceedance concentration of 5 µg/L (see **Figures 26** through **29**). Dissolved arsenic was not detected. These concentrations indicate a relatively minor impact to groundwater from SWMU 23 compared with data at other SWMUs. In addition, the well SM23-MW1 data indicate that concentrations decrease before groundwater exits the Site.

Upgradient monitoring well EWL-05 is no longer available, however, in September 2015, total VOC exceedances (167 µg/L) and total pesticide exceedances (8 µg/L) were detected. Dissolved metals and SVOCs were not detected. The data indicate that there may be additional upgradient sources of impact to groundwater in the area of SWMU 23.

SWMU 27

Soil sample exceedances that are also exceeded in groundwater include the following analytes. This list of analytes consists of soil data from the 2015 RFI as well as historic soil data with exceedances. This is an indication that SWMU 27 may be acting as a potential source of groundwater impact at and downgradient of SWMU 27 for these analytes.

- Alpha-BHC
- Benzene
- Beta-BHC
- Cobalt
- 4,4-DDD
- 4,4-DDE
- 4,4-DDT
- Manganese
- 1,2,4-Trichlorobenzene

The direction of groundwater flow in the area of SWMU 27 is to the south. Well SM27-MW1 is located downgradient of SWMU 27. Wells located further downgradient are wells MW-116, AOC16-MW1, and AOC16-MW2, near the southwestern property boundary of the Site (see **Figure 4**). Monitoring wells located upgradient of SWMU-27 include well EWL-08.

Monitoring well SM27-MW1 has a total VOC exceedance concentration of 148.5 µg/L, a total SVOC exceedance concentration of 13.2 µg/L, and a total pesticide exceedance concentration of 286.96 µg/L. Dissolved arsenic was detected at an exceedance concentration of 3.4 µg/L (see **Figures 26** through **29**). These concentrations indicate a relatively minor impact to groundwater from SWMU 27 compared with data at other SWMUs. VOCs and SVOCs were not detected in further downgradient well MW-116 located near the southwestern property boundary, however dissolved arsenic and pesticide were detected at an exceedance concentration of 1.4 µg/L and 0.089 µg/L, respectively. The data suggest that concentrations decrease in the area of MW-116 before existing the Site. However, concentrations are relatively high in wells AOC16-MW1 and AOC16-MW2, reflecting an impact to groundwater from AOC 16NP. In AOC16-MW1 and AOC16-MW2, total VOC exceedances were 1,814.06 µg/L and 559.29 µg/L, respectively, total SVOC exceedances were 1.7 J µg/L and 0.38 J µg/L, respectively, and total pesticide exceedances were 27.6 µg/L and 39.2 µg/L, respectively. Dissolved arsenic exceedances were detected at concentrations of 1.6 µg/L and

1 µg/L, respectively. The lower concentrations in well AOC16-MW2 compared to those in well AOC16-MW1 also indicate that concentrations decrease before exiting the Site.

Total VOC exceedances (743.7 µg/L), total pesticide exceedances (68.95 µg/L), and dissolved arsenic values of 12 µg/L were detected in upgradient well EWL-08. SVOCs were not detected.

AOC 3

There is no record of historical disposal activities at AOC 3. The 2003 Phase I RFI characterization, which included the collection of five surface soil samples, was sufficiently complete to evaluate a CM and no further soil investigation was necessary. There were no soil samples collected at AOC 3 as part of the RFI. There is one well located at AOC 3, well MW-08. VOCs, SVOCs, and pesticides were not detected in well MW-08. A dissolved arsenic concentration was detected at 2.1 µg/L. The soil and groundwater data indicate that wells located downgradient of AOC 3 (e.g., wells SM19-MW2 and SM20-MW1) likely reflect impacts from SWMUs 19 and 20 rather than AOC 3.

AOC 16NP

Soil sample exceedances that are also exceeded in groundwater include the following analytes. This list of analytes consists of soil data from the 2015 RFI as well as historic soil data with exceedances. This is an indication that AOC16NP may be acting as a potential source of groundwater impact at and downgradient of AOC16NP for these analytes.

- Benzene
- Chlorobenzene
- 1,4-Dichlorobenzene
- 1,2,4-Trichlorobenzene
- Trichloroethene
- Cadmium
- Cobalt
- Iron
- Manganese
- Zinc
- Alpha-BHC
- Beta-BHC
- Gamma-BHC
- 4,4-DDD
- 4,4-DDT

The direction of groundwater flow in the area of AOC16NP is to the south-southeast. Wells located downgradient of AOC16NP are wells AOC16-MW1 and AOC16-MW2, near the southwestern property boundary of the Site (see **Figure 4**). Monitoring wells located upgradient of AOC16NP include well SM27-MW1.

In AOC16-MW1 and AOC16-MW2, total VOC exceedances were 1,814.06 µg/L and 559.29 µg/L, respectively, total SVOC exceedances were 1.7 J µg/L and 0.38 J µg/L, respectively, total pesticide exceedances were 27.6 µg/L and 39.2 µg/L, respectively, and dissolved arsenic exceedances were 1.6 µg/L and 1 µg/L, respectively (see **Figures 26 through 29**). The lower concentrations in well

AOC16-MW2 compared to those in well AOC16-MW1 indicate that concentrations decrease before exiting the Site.

Monitoring well SM27-MW1 had a total VOC exceedance concentration of 148.5 µg/L, a total SVOC exceedance concentration of 13.2 µg/L, a total pesticide exceedance concentration of 286.96 µg/L, and a dissolved arsenic exceedance concentration of 3.4 µg/L. These concentrations indicate a relatively minor impact to groundwater from SWMU 27 compared with data at other SWMUs and that groundwater impacts downgradient of AOC16NP are more likely related to AOC16NP rather than an upgradient source.

MW6 Area

Soil sample exceedances at the MW6 Area that also exhibit exceedances in groundwater include the following analytes. This list of analytes consists of soil data from the 2021 Demolition Investigation as well as historic soil data with exceedances. This is an indication that the MW6 Area acts as a potential source of groundwater impact at and downgradient of the MW-6 Area for these analytes.

- Arsenic
- Cobalt
- Iron
- 4,4'-DDD
- Alpha-BHC
- Beta-BHC
- Gamma-BHC (Lindane)
- 1,1,2-Trichloro-1,2,2-Trifluoroethane
- 1,2,4-Trichlorobenzene
- 1,2-Dichlorobenzene
- 1,4-Dichlorobenzene
- Benzene
- Chlorobenzene
- Chloroform
- cis-1,2-Dichloroethene
- Methylene Chloride
- Tetrachloroethene
- Trichloroethene
- Vinyl Chloride
- 2,4,6-Trichlorophenol
- Naphthalene

Monitoring wells located at or downgradient of the MW6 Area include shallow monitoring wells MW-06, MW06-01, MW06-02, MW06-03, SM20-MW3, WW-MW1, and WW-MW2 and deep monitoring wells MW-06D, and MW-06-01D (see **Figure 4**). Monitoring wells SM23-MW1 and MW-04 are further downgradient along the Site boundary. Monitoring wells located upgradient of the MW6 Area include monitoring well SM17-MW1. Since local groundwater mounding occurs in the MW6 Area, downgradient monitoring wells are located in several directions.

Monitoring wells MW-06, MW06-01, MW06-02, and WW-MW1 had the highest total VOC exceedance concentrations, ranging from 68,114 to 261,784 µg/L, with PCE and chlorobenzene prevalent in wells MW-06 and MW06-02, chlorobenzene prevalent in well MW06-01, and PCE prevalent in well WW-MW1. PCE concentrations ranged from 74 to 43,000 ug/L and chlorobenzene concentrations ranged from 2,700 to 68,000 ug/L in these wells.

VOC concentrations decrease by orders of magnitude away from the MW6 Area. PCE and chlorobenzene concentrations decrease to 7,700 and 2,700 ug/L, respectively, in downgradient well MW06-03 to the northeast, a distance of 102 feet from monitoring well MW06-01 and a distance of 143 feet from monitoring well MW-06. PCE and chlorobenzene concentrations decrease to 180 and 760 ug/L, respectively, in side-gradient to downgradient monitoring well WW-MW2 to the northwest, a distance of 172 feet from monitoring well WW-MW1. The PCE and chlorobenzene concentrations decrease further at the Site boundary in downgradient monitoring well SM23-MW1 (with a PCE concentration of 7.3 ug/L and no exceedance of chlorobenzene), a distance of 359 feet to the southwest from monitoring well MW06-02. There were no PCE or chlorobenzene exceedances in downgradient Site boundary monitoring well MW-04 (a distance of 183 feet to the south from monitoring well MW06-02)

Total SVOC exceedance concentrations in monitoring wells MW-06, MW06-01, MW06-02, and WW-MW1 ranged from 0.63 to 18.14 µg/L, dissolved arsenic exceedance concentrations ranged from 0.72 J to 29 µg/L; and pesticide exceedance concentrations ranged from 2.73 to 195.69 ug/L (see **Figures 26** through **29**). The exceedance concentrations for SVOCs, dissolved arsenic, and pesticides in downgradient monitoring well MW06-03 to the northeast were 0.9, 13, and 1.886 ug/L, respectively. The exceedance concentrations for SVOCs, dissolved arsenic, and pesticides in side-gradient to downgradient monitoring well WW-MW2 to the northwest were 1,454, 32, and 5.86 ug/L, respectively. The elevated SVOC concentrations in monitoring well WW-MW2 indicate an influence from the Wastewater Area rather than the MW6 Area, which is discussed later in the Wastewater Area discussion in this section of the report.

Upgradient concentrations (in monitoring well SM17-MW1) are significantly less than those located in and downgradient of the MW6 Area, indicating that the MW6 Area acts as a potential source of groundwater impact at and downgradient of the MW6 Area. Total VOC, SVOC, dissolved arsenic, and pesticide exceedance concentrations in upgradient monitoring well SM17-MW1 were 52.3, 79.48, 4.4, and 0.457 ug/L, respectively.

The exceedance concentrations for SVOCs and dissolved arsenic in downgradient Site boundary monitoring well SM23-MW1 were 0.76 and 0.34 ug/L, respectively. There were no pesticide exceedances in monitoring well SM23-MW1. The exceedance concentrations for SVOCs and pesticides in downgradient Site boundary monitoring well MW-04 were 2 and 0.34 ug/L, respectively. There was no exceedance of dissolved arsenic in monitoring well MW-04. The data shows that concentrations decrease significantly before groundwater exits the Site.

Deep monitoring wells MW-06D and MW06-01D, which were installed to evaluate the potential for DNAPL in the MW6 Area, showed no DNAPL during the December 2021 monitoring event. A comparison of VOC exceedance concentrations between shallow monitoring well MW-06 and deep monitoring well MW-06D indicate generally similar constituents, with somewhat lower

concentrations in the deep monitoring well (see **Table 23**). Chlorobenzene, PCE, and TCE concentrations in the shallow versus the deep well were 5,200 compared to 4,800 ug/L, 11,000 versus 3,200 ug/L, and 900 compared to 1,300 ug/L, respectively. A comparison of VOC exceedance concentrations between shallow monitoring well MW06-1 and deep monitoring well MW06-01D also indicate generally similar constituents, also with somewhat lower concentrations in the deep well. Chlorobenzene, PCE, and TCE concentrations in the shallow versus the deep well were 68,000 versus 12,000 ug/L, 74 versus 160 ug/L, and 33 J versus non-detect less than 25ug/L, respectively. With the exception of PCE, these concentrations are not indicative of DNAPL. One percent of the aqueous solubility of PCE (which is an indication of the potential for DNAPL) is 2,000 ug/L. This concentration is exceeded in shallow monitoring well MW-06, which has a PCE concentration of 11,000 ug/L, and in deep monitoring well MW-06D, which has a PCE concentration of 3,200 ug/L; however, no DNAPL was observed during the December 2021 sampling.

Arsenic concentrations were somewhat higher in the shallow monitoring wells (15 and 12 ug/L in shallow monitoring wells MW-06 and MW06-01, respectively, vs 1.6 and 0.72 in deep monitoring wells MW-06D and MW06-01D). Concentrations of iron and manganese were higher in the deep wells. The differences in metals concentrations between shallow and deep monitoring wells is likely a reflection of the material that the wells are screened in (clays, silts, and sands vs. weathered Wissahickon Schist). SVOC and pesticide exceedances were similar between the shallow and deep wells.

Administration Building Area

Soil sample exceedances at the Administration Building Area that are also exceeded in groundwater include the following analytes. This list of analytes consists of soil data from the 2021 RFI.

- alpha-BHC
- Arsenic
- beta-BHC

Monitoring wells located at or downgradient of the Administration Building Area include monitoring wells MW-04, MW-05, MW-117, and MW-104 (see **Figure 4**). Monitoring wells located upgradient of the Administration Building Area include monitoring well MW-118.

Monitoring well MW-05 had no VOC, SVOC, dissolved arsenic, or pesticide exceedances. Monitoring well MW-04 had a total SVOC exceedance concentration of 2 ug/L and a total pesticides exceedance concentration of 7.64 ug/L, with no VOC or dissolved arsenic exceedances. Side to downgradient monitoring well MW-117 had a total VOC exceedance of 6.13 ug/l, a dissolved arsenic concentration of 5.4 ug/L, and a total pesticide exceedance concentration of 0.454

ug/L. Well MW-104 had total VOC, total SVOC, dissolved arsenic, and total pesticide exceedance concentrations of 2,468, 4, 20, and 0.156 ug/L, respectively.

The groundwater concentrations in wells in the Administration Building Area, as well as the soil concentrations for the Administration Building Area (see **Table 16**), do not indicate a potential source of groundwater impact. The slightly elevated concentrations in downgradient monitoring well MW-104 can be attributed to the upgradient source SWMU 16. Slightly elevated concentrations in upgradient monitoring well MW-118 (total VOCs, total SVOCs, and dissolve arsenic of 1,795, 0.8, and 18 ug/L, respectively), which are significantly higher than the downgradient monitoring wells MW-04, MW-05, and MW-117, can also be attributed to the upgradient source SWMU 16 rather than the Administration Building Area.

BF3 Operating Area

Soil sample exceedances at the BF3 Operating Area that also exhibited exceedances in groundwater include the following analytes. This list of analytes consists of soil data from the 2021 Demolition Investigation. This is an indication that the BF3 Operating Area acts as a potential source of groundwater impact at and downgradient of the BF3 Operating Area for these analytes.

- Arsenic
- Cobalt
- Copper
- Iron
- Lead
- Manganese
- Thallium
- Mercury
- 4,4'-DDD
- 4,4'-DDE
- 4,4'-DDT
- Alpha-BHC
- Beta-BHC
- Gamma-BHC (Lindane)
- 1,2,4-Trichlorobenzene
- 1,2-Dichloroethane
- 1,4-Dichlorobenzene
- Benzene
- Carbon Tetrachloride
- Chlorobenzene
- Chloroform
- cis-1,2-Dichloroethene
- Ethylbenzene
- Methylene Chloride
- Tetrachloroethene
- Trichloroethene
- Vinyl Chloride
- 1,1'-Biphenyl
- 1,2,4,5-Tetrachlorobenzene
- 2,4-Dinitrotoluene
- 2,6-Dinitrotoluene
- 2-Chlorophenol
- 2-Methylnaphthalene
- Benzo(A)Anthracene
- Dibenzofuran
- Fluorene
- Hexachlorobenzene
- Naphthalene
- Nitrobenzene
- Pentachlorophenol

Monitoring wells located at or downgradient of the northern BF3 Operating Area (i.e., FSA/Waste Storage) include monitoring wells BF3-MW1, BF3-MW2, SM19-MW1, WS-MW1, BF3-MW4, and SM22-MW1 (see **Figure 4**). Monitoring well MW-7 is located upgradient of the northern BF3 Operating Area.

Monitoring wells BF3-MW1 and BF3-MW2 are located within the northern BF3 Operating Area and had total VOC exceedance concentrations of 58,415 µg/L and 56,938 ug/L, total SVOC exceedance concentrations of 58.66 and 39.61 µg/L, dissolved arsenic concentrations of 38 and 2.9 µg/L, and total pesticide exceedance concentrations of 16.54 and 46.3 ug/L, respectively (see **Figures 26 through 29**).

The VOC, SVOC, dissolved arsenic, and pesticide exceedance concentrations in side-gradient to downgradient monitoring well SM19-MW1 (a distance of 90 feet from well BF3-MW2), side-gradient to downgradient monitoring well BF3-MW4 (a distance of 145 feet from BF3-MW2), and further downgradient monitoring well SM22-MW1 (a distance of 421 feet from BF3-MW2) were orders of magnitude less than those in monitoring wells BF3-MW1 and BF3-MW2, indicating that concentrations decrease with distance away from the northern BF3 Operating Area.

The dissolved arsenic and total pesticide exceedance concentrations in upgradient monitoring well MW-07 were 2.6 and 2 ug/L, respectively. There were no VOC or SVOC exceedances, indicating that the northern BF3 Operating Area acts as a potential source of groundwater impact at and downgradient of the northern BF3 Operating Area.

However, DNAPL was observed in downgradient monitoring well WS-MW1, indicating that the northern BF3 Operating Area is a potential source of DNAPL at the Site. The Delmarva Substation area (discussed later) also appears to act a potential source of DNAPL observed in monitoring well WS-MW1. Laboratory analytical results for a sample of the DNAPL in monitoring well WS-MW1 indicate that it consists predominantly of chlorobenzene, PCE, and TCE similar to constituents found in monitoring wells BF3-MW1 and BF3-MW2, and pesticides, similar to those found in soil samples from the northern BF3 Operating Area (see **Table 17**). The DNAPL laboratory analytical results are provided in **Appendix I**.

Monitoring wells located at or downgradient of the central BF3 Operating Area include monitoring wells SM19-MW2, BF3-MW3, SM20-MW2, and WW-MW2 (see **Figure 4**). Monitoring well SM20-MW1 is located upgradient of the central BF3 Operating Area in the center of the local groundwater mound.

Monitoring wells BF3-MW3 and SM19-MW2 had total VOC exceedance concentrations of 17,385.8 and 8,175.5 µg/L, respectively, with chlorobenzene as the prevalent VOC. These wells had total SVOC exceedance concentrations of 146.57 and 284.67 ug/L, dissolved arsenic concentrations of 22

and 27 ug/L, and total pesticide exceedance concentrations of 2.49 and 11.91 ug/L, respectively (see **Figures 26** through **29**).

There was no TCE exceedance concentration in upgradient monitoring well SM20-MW1, indicating that the central BF3 Operating Area acts as a potential source of groundwater impact at and downgradient of the central BF3 Operating Area.

The concentrations of TCE in side-gradient to downgradient monitoring well SM20-MW2 (a distance of 148 feet from monitoring well BF3-MW3) and downgradient monitoring wells WW-MW2 and WW-MW3 (distances of 286 feet and 317 feet from monitoring well BF3-MW3, respectively) were orders of magnitude less than those in monitoring wells BF3-MW3 and SM19-MW2, indicating that TCE concentrations decrease with distance away from the central BF3 Operating Area. The further downgradient monitoring well, SM23-MW1, located at the southern boundary of the Site, had a TCE concentration of 5.5 ug/L, demonstrating that concentrations decrease significantly before groundwater exits the Site.

Waste Storage Area

Soil sample exceedances at the Waste Storage Area that are also exceeded in groundwater include the following analytes. This list of analytes consists of soil data from the 2021 Demolition Investigation. This is an indication that the Waste Storage Area acts as a potential source of groundwater impact at and downgradient of the Waste Storage Area for these analytes.

- Antimony
- Arsenic
- Barium
- Cadmium
- Cobalt
- Copper
- Iron
- Lead
- Selenium
- Thallium
- Mercury
- 4,4'-DDD
- 4,4'-DDE
- 4,4'-DDT
- Alpha-BHC
- Beta-BHC
- Gamma-BHC (Lindane)
- 1,2,4-Trichlorobenzene
- 1,4-Dichlorobenzene
- Benzene
- Chloroform
- Methylene Chloride
- Trichloroethene
- 2,4-Dichlorophenol

Monitoring wells located at or downgradient of the Delmarva Substation portion of the Waste Storage Area include monitoring wells SM21-MW1 and WS-MW1 (see **Figure 4**). There are no monitoring wells directly upgradient of the Delmarva Substation. The remaining portion of the Waste Storage Area is discussed previously as part of the northern BF3 Operating Area.

Monitoring well SM21-MW1 is located within the Delmarva Substation portion of the Waste Storage Area and had a total VOC exceedance concentration of 408.57 µg/L, a total SVOC exceedance concentration of 126.75 µg/L, a dissolved arsenic concentration 3.6 µg/L, and a total pesticide exceedance concentration of 160.3 ug/L (see **Figures 26** through **29**).

DNAPL was observed in downgradient monitoring well WS-MW1, indicating that the Delmarva Substation area, along with the northern BF3 Operating Area, may be a potential source of DNAPL at the Site. In addition, what appeared to be waste-like material (described as rubber, brick, sticky, glassy, plastic, and viscous with a strong odor) was observed at a depth of approximately 6 to 8 feet bgs in soil borings in the Delmarva Substation area, specifically in soil borings SBWS-06 and SBWS-06F. Laboratory analytical results for a sample of the DNAPL in monitoring well WS-MW1 indicate that it consists predominantly of pesticides, chlorobenzene, and other VOCs, similar to constituents found in soil samples from the Delmarva Substation area (see **Table 18**). The DNAPL laboratory analytical results are provided in **Appendix I**.

Wastewater Area

Soil sample exceedances at the Wastewater Area that also displayed exceedances in groundwater include the following analytes. This list of analytes consists of soil data from the 2021 Demolition Investigation. This is an indication that the Wastewater Area acts as a potential source of groundwater impact at and downgradient of the Wastewater Area for these analytes.

- Antimony
- Arsenic
- Cadmium
- Cobalt
- Copper
- Iron
- Lead
- Magnesium
- Manganese
- Selenium
- Thallium
- Zinc
- Mercury
- 4,4'-DDD
- 4,4'-DDE
- 4,4'-DDT
- Alpha-BHC
- Beta-BHC
- Gamma-BHC (Lindane)
- 1,1,2,2-Tetrachloroethane
- 1,1,2-Trichloroethane
- 1,1-Dichloroethene
- 1,2,4-Trichlorobenzene
- 1,4-Dichlorobenzene
- 2-Butanone
- 4-Methyl-2-Pentanone
- Benzene
- Chlorobenzene
- Chloroform
- cis-1,2-Dichloroethene
- Ethylbenzene
- Methylene Chloride
- Tetrachloroethene
- Toluene
- Trichloroethene
- Vinyl Chloride
- 1,1'-Biphenyl
- 1,2,4,5-Tetrachlorobenzene
- 2,4,6-Trichlorophenol
- 2,4-Dichlorophenol

- 2,4-Dinitrotoluene
- 2,6-Dinitrotoluene
- Benzo(A)Anthracene
- Benzo(A)Pyrene
- Benzo(B)Fluoranthene
- Dibenzofuran
- Naphthalene
- Nitrobenzene
- n-Nitrosodiphenylamine
- Pentachlorophenol

Monitoring wells located at or downgradient of the western portion of the Wastewater Area include monitoring wells SM22-MW1, WW-MW4, AOC16-MW1, AOC16-MW2, and MW116 (see **Figure 4**). Side-gradient wells include monitoring wells SM27-MW1 and MW-102. Monitoring well EWL-08 is located upgradient of the western portion of the Wastewater Area.

The highest exceedance concentrations for total VOCs, total SVOCs, dissolved arsenic, and total pesticides occurred in monitoring wells SM22-MW1, WW-MW4, and AOC16-MW1 and range from 1,878.7 to 4,639.4 ug/L for total VOCs, 19.4 to 254.9 ug/L for total SVOCs, 1.6 to 22 ug/L for dissolved arsenic, and 108.6 to 1,097.4 ug/L for total pesticides. The predominant VOC is chlorobenzene, while the predominant pesticides are alpha-BHC, beta-BHC, and gamma-BHC (lindane).

Concentrations in side-gradient monitoring wells SM27-MW1 and MW-102 (located approximately 90 feet and 180 feet, respectively from monitoring well WW-MW4) are less, ranging from 367 to 1,985 ug/L for total VOCs, 23.2 to 453.4 ug/L for total SVOCs, 3.4 to 17 for dissolved arsenic, and 8.68 to 339.96 ug/L for total pesticides.

Upgradient monitoring well EWL-08 had some VOC exceedance concentrations, with chlorobenzene having the highest concentration of 640 ug/L. There were no SVOC exceedance concentrations, a dissolved arsenic concentration of 12 ug/L, and a total pesticide exceedance concentration of 93.95, indicating that the western portion of the Wastewater Area acts as a potential source of groundwater impact at and downgradient of the western portion of the Wastewater Area.

Downgradient monitoring well MW-116, near the southern Site boundary and 303 feet downgradient from well SM22-MW1, had no VOC or SVOC exceedances, a dissolved arsenic concentration of 1.4 ug/L, and a total pesticide exceedance concentration of 0.089 ug/L, indicating that concentrations decrease with distance away from the western portion of the Wastewater Area and that concentrations decrease significantly before groundwater exits the Site. Downgradient monitoring well AOC16-MW2, also located near the Site boundary (approximately 302 feet downgradient of monitoring well WW-MW4) and to the west of monitoring well MW-116, had a somewhat elevated chlorobenzene concentration of 620 ug/L.

Monitoring wells located at or downgradient of the Building 16 portion of the Wastewater Area include wells WW-MW2, WW-MW3, and SM23-MW1 (see **Figure 4**). Monitoring wells located upgradient of the Building 16 portion of the Wastewater Area include monitoring wells SM21-MW2 and SM20-MW2.

The highest exceedance concentrations for total VOCs, total SVOCs, dissolved arsenic, and total pesticides occurred in monitoring wells WW-MW2 and WW-MW3 and range from 56,472 to 711,044 ug/L for total VOCs, 1,552 to 1,845 ug/L for total SVOCs, 15 to 32 ug/L for dissolved arsenic, and 5.86 to 9.69 ug/L for total pesticides. The predominant VOC in the Building 16 area is 2-butanone, unlike other areas of the Site.

Upgradient monitoring wells SM21-MW2 and SM20-MW2 had total VOC exceedance concentrations of 4.78 and 249.54 ug/L, respectively, no total SVOC exceedance concentrations, dissolved arsenic concentrations of 0.91 J and 4.1, respectively, and total pesticide exceedance concentrations of 12.282 and 0.961, respectively, indicating that the Building 16 portion of the Wastewater Area acts as a potential source of groundwater impact at and downgradient of the Building 16 portion of the Wastewater Area, particularly 2-butanone. There were no 2-butanone exceedances in upgradient or downgradient monitoring wells.

Downgradient monitoring well SM23-MW1, at the southern Site boundary and approximately 258 feet downgradient of monitoring well WW-MW3), had a total VOC exceedance concentration of 96.2 ug/L, a total SVOC exceedance concentration of 2.4 ug/L, a dissolved arsenic concentration of 3.4, and a total pesticide exceedance concentration of 2.92. The data indicate that concentrations decrease with distance away from the Building 16 portion of the Wastewater Area and that concentrations decrease significantly before groundwater exits the Site.

4.4 DATA VALIDATION

Data validation reports are provided in **Appendix D**.

5.0 FATE AND TRANSPORT

The *Quick Domenico Groundwater Fate and Transport Model* (PADEP, 2014) was used to evaluate the extent of groundwater impacts and assess potential offsite migration. Quick Domenico (QD) incorporates a constant planar source, a one-dimensional advection, and a three-dimensional dispersion, absorption, and first-order decay. QD is written as a Microsoft Excel spreadsheet. The model spreadsheets are included in **Appendix E**.

Using the groundwater contours developed from the 2015 RFI water-level measurements, DVW was divided into six separate flow areas, Areas 1 through 6 (see **Figure E1** in **Appendix E**) so that the entire downgradient boundary for the Site could be evaluated via fate and transport modeling. For purposes of modeling, the date of the release was assumed to be 40 years ago based on Site history. It was also assumed that the sources remain onsite and that steady-state conditions have been reached 40 years after the release.

The following VOCs are present in downgradient Site boundary wells at concentrations exceeding the groundwater RSLs (Tap Water or MSLs):

- Benzene
- Chlorobenzene
- Chloroform
- 1,2-Dichlorobenzene
- 1,4-Dichlorobenzene
- 1,1-Dichloroethane
- 1,2-Dichloroethane
- cis-1,2-Dichloroethene
- Ethylbenzene
- Tetrachloroethene
- 1,2,4-Trichlorobenzene
- Trichloroethene
- Vinyl Chloride

Models were run for representative VOCs, including benzene, chlorobenzene, PCE, TCE, and vinyl chloride.

Source concentrations were assumed to be the concentrations of VOCs in wells closest to and downgradient of a SWMU but upgradient of a Site boundary well. This allowed the model to be calibrated with actual data. The hydraulic conductivity value was estimated by averaging the hydraulic conductivity calculated from 2004 slug test data for six onsite DVW wells (wells MW-05, MW-06, MW-07, MW-10, MW-11, and MW-13). The models were then calibrated in accordance with the *User's Manual for the Quick Domenico Groundwater Fate-and-Transport Model* (PADEP, 2014) using actual data for downgradient wells from the 2015 RFI groundwater sampling event. Model results for each area are discussed below and model output Excel spreadsheets are included in **Appendix E**.

Area 1

Area 1 is located in the southwestern portion of the Site and is represented by downgradient Site boundary well AOC16-MW2 (see **Figure 4**). Well AOC16-MW1 is representative of the

contaminant source in this Area. The width of the area at the Site boundary is approximately 270 feet. The calibration point distance is the distance between well AOC16-MW1 and well AOC16-MW2, a distance of approximately 90 feet. The model was run for chlorobenzene since this compound comprises the majority of the total VOCs in well AOC16-MW1 and has a concentration above the RSLs (Tap Water or MCLs) at the Site boundary. The chlorobenzene concentration of 3,000 µg/L in well AOC16-MW1 was used as the source concentration and the chlorobenzene concentration of 310 µg/L in well AOC16-MW2 was used to calibrate the model. The model results indicate that concentrations of chlorobenzene above RSLs should not extend beyond the Site boundary. The model output Excel spreadsheets for chlorobenzene is included in **Appendix E**.

Area 2

Area 2 is located to the east of Area 1 in the southwestern portion of the Site and is represented by downgradient Site boundary well SM23-MW1 (see **Figure E1**). Well MW-06 represents the contaminant source in this Area. The width of the area at the Site boundary is approximately 840 feet and the calibration point distance is the distance between well MW-06 and well SM23-MW1, a distance of approximately 405 feet. The model was run for PCE and vinyl chloride since these compounds exceed both RSLs in the downgradient Site boundary well SM23-MW1. The PCE concentration of 34,000 µg/L and the vinyl chloride concentration of 38 J µg/L in well MW-06 were used as the source concentrations. The PCE concentration of 5.9 µg/L and the vinyl chloride concentration of 9.6 µg/L in well SM23-MW1 were used to calibrate the model. The model results indicate that concentrations of PCE above RSLs should not extend beyond the Site boundary and that concentrations of vinyl chloride above RSLs could potentially extend a distance of approximately 200 feet from the Site boundary in a south-southeast direction. These projections do not account for potential migration disruption due to utility trenches on Route 13. Existing further downgradient wells are located at the South Plant on the south side of Route 13. The model output Excel spreadsheets for PCE and vinyl chloride are included in **Appendix E**.

Area 3

Area 3 is located in the central portion of the Site and is represented by downgradient Site boundary well MW-05 (see **Figure E1**). Well SM17-MW 2 represents the contaminant source in this Area. The width of the area at the Site boundary is approximately 120 feet and the calibration point distance is the distance between well SM17-MW2 and well MW-05, a distance of approximately 165 feet. The model was run for the compounds benzene and chlorobenzene since these are the only two VOCs that exceed RSLs in the downgradient Site boundary well MW-05. The benzene concentration of 290 µg/L and the chlorobenzene concentration of 1,500 µg/L in well SM17-MW2 were used as the source concentrations. The benzene concentration of 0.8 µg/L and the chlorobenzene concentration of 80 µg/L in well MW-05 were used to calibrate the model. The model results indicate that concentrations of benzene and chlorobenzene above RSLs should not extend beyond the Site boundary. The model output Excel spreadsheets for benzene and chlorobenzene are included in **Appendix E**.

Area 4

Area 4 is located to the east of Area 3 in the northeastern portion of the Site and is represented by downgradient Site boundary well MW-117 (see **Figure E1**). Well SM16-MW 1 represents the contaminant source in this Area. The width of the area at the Site boundary is approximately 510 feet and the calibration point distance is the distance between well SM16-MW1 and well MW-117, a distance of approximately 625 feet. The model was run for the compounds benzene and vinyl chloride since these two VOCs exceed RSLs in the downgradient Site boundary well MW-117. The benzene concentration of 8,200 µg/L and the vinyl chloride concentration of 3,800 µg/L in well SM16-MW1 were used as the source concentrations. The benzene concentration of 22 µg/L and the vinyl chloride concentration of 19 µg/L in well MW-117 were used to calibrate the model. The model results indicate that concentrations of benzene and vinyl chloride above RSLs should not extend beyond the Site boundary. The model output Excel spreadsheets for benzene and vinyl chloride are included in **Appendix E**.

Area 5

Area 5 is located in the northeastern portion of the Site and is represented by downgradient Site boundary well MW-13 (see **Figure E1**). Well MW-1 represents the contaminant source in this Area. The width of the area at the Site boundary is approximately 570 feet and the calibration point distance is the distance between well MW-1 and well MW-13, a distance of approximately 160 feet. The model was run for the compounds TCE and vinyl chloride since these two VOCs exceed RSLs in the downgradient Site boundary well MW-13. The TCE concentration of 3,600 µg/L and the vinyl chloride concentration of 520 µg/L in well MW-1 were used as the source concentrations. The TCE concentration of 71 µg/L and the vinyl chloride concentration of 110 µg/L in well MW-13 were used to calibrate the model. The model results indicate that concentrations of TCE above RSLs extend a distance of approximately 100 feet and that concentrations of vinyl chloride above RSLs could potentially extend a distance of approximately 555 feet from the Site boundary in a south-southeast direction. These projections do not account for potential migration disruption due to utility trenches on Route 13. The model output Excel spreadsheets for TCE and vinyl chloride are included in **Appendix E**.

Monitoring well MW-104 is also located within Area 5. As requested by USEPA, additional data are necessary to evaluate the extent of groundwater exceedances downgradient of monitoring well MW-104. Honeywell has contacted MHIC (former Sunoco) representatives for access to sample existing wells on the MHIC property which are located downgradient of well MW-104, currently Honeywell continues to gain access.

Area 6

Area 6 is located in the northeastern portion of the Site and is represented by downgradient Site boundary well SM13-MW1 (see **Figure E1**). The width of the area at the Site boundary is approximately 200 feet and the calibration point distance is the distance between well SM14-MW2

and well SM13-MW1, a distance of approximately 410 feet. The model was run for the compounds benzene and vinyl chloride since these two VOCs exceed RSLs in the downgradient Site boundary well SM13-MW1. The benzene concentration of 2,200 µg/L and the vinyl chloride concentration of 270 µg/L in well SM14-MW2 were used as the source concentrations. The benzene concentration of 4.4 µg/L and the vinyl chloride concentration of 3.7 µg/L in well SM13-MW1 were used to calibrate the model. The model results indicate that concentrations of benzene above RSLs should not extend beyond the Site boundary and that concentrations of vinyl chloride above RSLs could potentially extend a distance of approximately 160 feet from the Site boundary in a south-southeast direction. These projections do not account for potential migration disruption due to utility trenches on Route 13. The model output Excel spreadsheets for benzene and vinyl chloride are included in **Appendix E**.

Based on the groundwater modeling results referenced above, and in accordance with the USEPA's requirement to delineate the groundwater plume migrating from Areas 5 and 6 as stated in its May 22, 2018 comment letter, two additional groundwater monitoring wells were installed downgradient of these areas on the south side of Route 13 in 2019. The monitoring wells were sampled and the results indicated that VOC concentrations in downgradient monitoring wells A5-01 and A6-01 did not exceed Tapwater RSLs or MCLs, with the exception of slight exceedances of the Tapwater RSLs for chloroform, TCE, and vinyl chloride in monitoring well A6-01. However, as required by USEPA, additional data are necessary to evaluate the extent of groundwater exceedances downgradient of monitoring well MW-104 (Wood, 2021).

6.0 COMPARISON OF RFI AND HHRA FINDINGS TO CA FRAMEWORK

The RFI objectives were based upon the Corrective Action Framework Technical Memorandum (Memorandum) submitted March 31, 2014 as a basis for agreement with USEPA on the scope of further RFI activities and future corrective measures. Honeywell and USEPA documented the technical approach and scope of work for the RFI in the 2015 RFI Work Plan. The scope of work for the Demolition Investigation was provided in the Demolition Site Investigation Work Plan that was approved by the USEPA on February 2, 2021.

6.1 MARCH 2014 CA FRAMEWORK TECHNICAL MEMORANDUM

The Memorandum presented the scope of further RFI activities and corrective measures based on historical RFI data. Data screening was performed to identify where additional RFI work was required to close data gaps at some SWMUs. Reasonably expected future use of the Site and receptor populations were defined as part of the data screening process. The soil and groundwater data were evaluated and six surrogate COC risk-drivers were identified to represent human health risks for direct contact soils, soils impact to groundwater, and groundwater. The preliminary corrective actions suggested in the Memorandum were as follows:

- SWMU 9 - Cover and institutional controls;
- SWMU 13, 16, 17 and AOC16NP - Excavation and removal with institutional controls;
- SWMU 14 - Institutional controls, but may also require a cover to be protective;
- SWMU 15 - Excavation and removal of a hot spot in a small area at its southwest corner; cover and institutional controls for the balance;
- SWMU 18 - Situated at the location of a planned capital project at the facility, and was excavated and removed in April 2014;
- SWMU 19 - In-situ treatment to reduce organic contaminants combined with institutional controls;
- SWMUs 21, 22, and 30 and AOC3 - Institutional controls only.

6.2 HHRA FINDINGS

A Baseline Human Health Risk Assessment (HHRA) was completed for the Site and submitted under separate cover (Wood, 2022a). The Site was grouped into four “exposure units” for the HHRA, i.e., the Central Manufacturing Area, the Eastern SWMUs, the Western SWMUs/AOCs and Wastewater Area, and SWMU 9, as shown below.

Exposure Unit Name	SWMUs/AOCs/Areas
Eastern SWMUs	SWMU 13
	SWMU 14
	SWMU 15
	SWMU 16

Western SWMUs/AOCs/Wastewater Area ("Western SWMUs")	AOCNP16
	SWMU 21-22-30
	SWMU 23
	SWMU 27
	Eastern wastewater
	Western Building 16
	Western wastewater
Central Manufacturing Area, SWMUs, AOCs ("Central SWMUs")	Administration building
	Boiler house
	Driver's shed
	Fire pumphouse
	Former UST
	BF3 plant
	Carpenter's shed
	FSA plant
	HOCAL tote storage
	Media blast shed
	MW6
	Sulfuric acid tank
	Truck scale
	SWMU 17
	SWMU 18
	SWMU 19
	SWMU 20
AOC 3	
Delmarva waste storage area	
Waste storage	
Eastern building 16	
SWMU 9	

Under current conditions, soil exposure scenarios would include outdoor and construction workers exposed to surface soil (0 to 2 feet) and subsurface soil (2 to 10 feet) in all four exposure units. Adult and adolescent trespassers are limited to exposure to surface soil at SWMU 9. Under a future scenario, construction workers may be exposed to surface and subsurface soils within all four exposure units via incidental ingestion, inhalation of airborne particulates, and dermal contact. Outdoor workers may be exposed to surface and subsurface soils.

Residential exposure to soil and groundwater, and exposure to groundwater as a drinking water source was eliminated due to current and foreseeable future industrial land use conditions, and land use restrictions.

The results of the HHRA indicated that carcinogenic risk estimates exceeded the USEPA risk threshold for current and future outdoor workers and current and future construction workers in the Eastern SWMUs and Central SWMUs exposure units and for future construction workers in the Western SWMUs and SWMU 9 exposure units. Non-carcinogenic risk estimates exceeded the USEPA threshold for current and future outdoor workers and current and future construction workers in the Eastern SWMUs, the Central SWMUs, and the Western SWMUs exposure units and for future construction workers in the SWMU 9 exposure unit.

Predicted blood lead levels (BLLs) for current/future outdoor workers, adult and adolescent trespassers, and current construction workers did not exceed the 5% limit for the percentage of the population with BLLs above 5 µg/dL in all for exposure units. However, future construction workers did exceed the USEPA threshold for soils (0-10') in all four exposure units.

A Baseline Ecological Risk Assessment (BERA) was conducted only at SWMU 9 since there is little or no area of the remainder of the Site that serves or could serve as habitat. Three potential ecological receptors were identified as having complete exposures to surficial soil contaminants: the short-tailed shrew; the American robin; and the raccoon. The BERA is included under separate cover (Wood, 2022b).

6.3 RFI FINDINGS AND RECOMMENDED CM

The RFI findings and recommendations are given below. In the event that additional data may be necessary to delineate a particular SWMU or area, it is recommended that the data be collected during the design process.

SWMU 9

The RFI data, the HHRA, and the BERA conclude that surficial materials are impacted and that exposure to these materials poses a carcinogenic risk and a non-carcinogenic risk to future construction workers, as well as a risk to ecologic receptors. Consequently, a cover system to prevent erosion and direct contact coupled with institutional controls as described in the CM Framework Technical Memorandum is an appropriate CM for this SWMU.

SWMU 13

Based on the findings of the RFI and the HHRA, exposures at the Eastern SWMUs exposure unit, which includes SWMU 13, pose a carcinogenic risk to current and future outdoor workers and future construction workers and a non-carcinogenic risk to current and future outdoor workers and

construction workers. Additionally, the RFI data show that waste in SWMU 13 is probably in contact with groundwater. Consequently, CMs such as excavation and removal, or containment, as described in the CM Framework Technical Memorandum are appropriate to consider in order to halt loading of VOCs and other constituents to groundwater. These CM components should be combined with necessary institutional controls to protect outdoor workers and construction workers.

SWMU 14

The RFI indicates that waste within SWMU 14 is limited to within three feet of ground surface and is not in direct contact with groundwater. Additionally, the HHRA indicates that exposures at the Eastern SWMUs exposure unit, which includes SWMU 14, pose a carcinogenic risk to current and future outdoor workers and future construction workers and a non-carcinogenic risk to current and future outdoor workers and construction workers. Based on these findings, CMs such as a cover system to limit infiltration and direct contact coupled with institutional controls as described in the CM Framework Technical Memorandum are appropriate to consider.

SWMU 15

The RFI data indicate that while waste is present over much of SWMU 15, only portions of SWMU 15 in its central area contain waste that includes VOCs. The RFI data also lead to a conclusion that at least portions of SWMU 15 waste are potentially in contact with groundwater (to a depth of 7 feet bgs) and are impacting groundwater with VOCs. Additionally, the HHRA indicates exposures at the Eastern SWMUs exposure unit, which includes SWMU 15, pose a carcinogenic risk to current and future outdoor workers and future construction workers and a non-carcinogenic risk to current and future outdoor workers and construction workers. Based on these findings, CMs such as a hot spot excavation and removal, with a cover system over the balance of the SWMU to reduce infiltration and limit direct contact as described in the CM Framework Technical Memorandum are appropriate to consider. These components would be coupled with institutional controls.

SWMU 16

The RFI data indicate that waste is present within SWMU 16 and that the waste includes a number VOCs. The RFI data also lead to a conclusion that SWMU 16 waste is potentially in contact with groundwater (to a depth of 10 feet bgs) and is impacting groundwater with VOCs. Additionally, the HHRA indicates exposures at the Eastern SWMUs exposure unit, which includes SWMU 16, pose a carcinogenic risk to current and future outdoor workers and future construction workers and a non-carcinogenic risk to current and future outdoor workers and construction workers. Based on these findings, CMs such as excavation and removal combined with

institutional controls as described in the CM Framework Technical Memorandum are appropriate to consider.

SWMU 17

The RFI data indicate that waste comprised primarily of VOCs is present within this SWMU to a depth of up to 10 feet. The RFI data also indicate that the waste within SWMU 17 is in contact with groundwater and that it is a source of groundwater impacts. However, groundwater it does not appear that impacted groundwater migrates away from SWMU 17 for a significant distance. Additionally, the HHRA indicates exposures in the Central Manufacturing Area exposure unit, which includes SWMU 17, pose a carcinogenic risk to current and future outdoor workers and future construction workers and a non-carcinogenic risk to current and future outdoor workers and construction workers. Based on these findings, CMs such as excavation and removal combined with institutional controls as described in the CM Framework Technical Memorandum are appropriate to consider.

SWMU 18

The RFI data indicate that the 2014 excavation and removal IM was successful in removal of waste within the SWMU. However, impacted soils with concentrations exceeding ISSLs remain in the soils surrounding the limits of the excavation and removal. Additionally, the HHRA indicates exposures in the Central Manufacturing Area exposure unit, which includes SWMU 18, pose a carcinogenic risk to current and future outdoor workers and future construction workers and a non-carcinogenic risk to current and future outdoor workers and construction workers. Because of the IM was relatively recent, groundwater impacts observed in downgradient monitoring wells during the RFI may as yet be reflective of conditions that existed prior to the IM. Based on these findings, CMs such as monitoring combined with institutional controls as described in the CM Framework Technical Memorandum are appropriate to consider.

SWMU 19

The RFI data indicate that SWMU 19 contains wastes and that the materials are impacted by VOCs, SVOCs and pesticides. In addition, wastes extend to a depth of 13 feet bgs resulting in direct contact with groundwater. Additionally, the HHRA indicates exposures in the Central Manufacturing Area exposure unit, which includes SWMU 19, pose a carcinogenic risk to current and future outdoor workers and future construction workers and a non-carcinogenic risk to current and future outdoor workers and construction workers. However, concentrations in wells further downgradient are orders of magnitude lower than those in wells near SWMU 19, indicating that groundwater impacts from SWMU 19 are limited and that concentrations decrease significantly before groundwater exits the site. Furthermore, the entire area of SWMU 19 is paved with concrete, precluding direct contact and infiltration of water, and the area is actively used in facility

operations for production of BF_3 . Based on the findings of the RFI, the CM of in situ treatment described in the CM Framework Technical Memorandum is not necessary or appropriate. A CM of monitoring coupled with institutional controls is appropriate for this SWMU.

SWMU 20

The RFI data indicate that while VOCs, SVOCs, pesticides and metals are found within SWMU 20 exceeding ISSLs, direct contact and infiltration of water are prevented by paving that covers the entire area. The HHRA indicates exposures in the Central Manufacturing Area exposure unit, which includes SWMU 20, pose a carcinogenic risk to current and future outdoor workers and future construction workers and a non-carcinogenic risk to current and future outdoor workers and construction workers. No CM was recommended in for this SWMU in the CM Framework Technical Memorandum as more data was needed. Based on the findings of the RFI, CM of monitoring coupled with institutional controls is recommended.

SWMU 21, 22, 30

The RFI data indicate that waste, due primarily to pesticides, is present within the area occupied by these three SWMUs to a depth of approximately 16 feet bgs. While waste is potentially in direct contact with groundwater, the pesticide materials in the waste are not highly soluble or mobile in groundwater. While VOCs, SVOCs, and metals were also present within the SWMUs, their concentrations did not exceed ISSLs. Groundwater concentrations downgradient of these SWMUs decrease significantly before groundwater exits the Site. The HHRA indicates exposures at the Western SWMUs exposure unit, which includes SWMUs 21, 22, and 30, pose a carcinogenic risk to future construction workers and a non-carcinogenic risk to current and future outdoor workers and construction workers. These SWMUs are covered with a substantial layer of soil (several feet) and gravel that prevents direct contact with underlying impacted materials. There are no occupied structures that are proximal to these SWMUs. Based on the findings of the RFI, the CM of maintaining the existing cover system coupled with institutional controls and monitoring described in the CM Framework Technical Memorandum is appropriate.

SWMU 23

Similar to SWMUs 21, 22 and 30 the RFI data indicate that within SWMU 23, waste due primarily to pesticides, is present within to a depth of approximately 11 feet bgs. Other contaminants did not exceed ISSLs. Waste is potentially in direct contact with groundwater, however the pesticide materials in the waste are not highly soluble or mobile in groundwater. SWMU 23 is a potential source of VOCs observed in groundwater and migrating offsite. However, there also appears to be a strong unknown source of VOCs located proximal to MW-6 nearby that is more likely the source of VOCs in the vicinity of SWMU 23. Additionally, the HHRA indicates exposures at the Western SWMUs exposure unit, which includes SWMUs 21, 22, and 30, pose a

carcinogenic risk to future construction workers and a non-carcinogenic risk to current and future outdoor workers and construction workers. No CM was identified for this SWMU in the CM Framework Technical Memorandum as more data was needed. Based on the findings of the RFI, a CM of augmenting the existing cover system coupled with institutional controls and monitoring is recommended.

SWMU 27

The RFI data from SWMU 27 indicated that waste comprised primarily of pesticides. Evidence of waste extends to a depth of 13 feet bgs. In addition to pesticides, arsenic was also present at concentrations exceeding ISSLs. Groundwater data downgradient of SWMU 27 indicate only minor impacts even though the waste is potentially in contact with groundwater. The footprint of SWMU 27 is partially covered by an unused and unoccupied building (historically a treatment plant for facility effluent) and several above ground tanks. Additionally, the HHRA indicates exposures at the Western SWMUs exposure unit, which includes SWMU 27, pose a carcinogenic risk to future construction workers and a non-carcinogenic risk to current and future outdoor workers and construction workers. No CM was identified for this SWMU in the CM Framework Technical Memorandum as more data was needed. Based on the findings of the RFI, a CM of institutional controls and monitoring are recommended.

AOC 3

The HHRA indicates exposures at the Western SWMUs exposure unit, which includes AOC 3, pose a carcinogenic risk to future construction workers and a non-carcinogenic risk to current and future outdoor workers and construction workers. Based on the historical RFI data and the HHRA, a CM of institutional controls are recommended.

AOC16 NP

There is no record of waste being disposed of in this recently identified AOC. The historical and RFI suggest that waste, primarily comprised of pesticides extends to a depth of 13 feet bgs. A number of VOCs, SVOCs, metals and pesticides exceed ISSLs within the AOC. Groundwater data indicate that groundwater impacts downgradient originate at AOC16NP, although they attenuate rapidly downgradient and are not expected to have migrated offsite. This AOC is distant from any occupied structure; consequently, vapor intrusion is not expected to be a concern. The HHRA indicates exposures at the Western SWMUs exposure unit, which includes AOC16 NP, pose a carcinogenic risk to future construction workers and a non-carcinogenic risk to current and future outdoor workers and construction workers. Based on the findings of the RFI, the CM of excavation and removal coupled with institutional controls described in the CM Framework Technical Memorandum is appropriate. A CM of containment with an impermeable cover would also be appropriate to consider.

MW6 Area

Based on the findings of the RFI and the HHRA, exposures at the Central SWMUs exposure unit, which includes the MW6 Area, pose a carcinogenic risk to current and future outdoor workers and future construction workers and a non-carcinogenic risk to current and future outdoor workers and construction workers. Additionally, the RFI data show that impacted soil in the MW6 Area is probably in contact with groundwater and is impacting groundwater, although concentrations decrease significantly before groundwater exits the Site. CMs for the MW6 Area will be evaluated as part of the CMS for the Site.

Administration Building Area

Based on the findings of the RFI and the HHRA, exposures at the Central SWMUs exposure unit, which includes the Administration Building Area, pose a carcinogenic risk to current and future outdoor workers and future construction workers and a non-carcinogenic risk to current and future outdoor workers and construction workers. The RFI data indicate that minor impacts to soil in the Administration Building Area are probably in contact with groundwater but are not impacting groundwater. CMs for the Administration Building Area will be evaluated as part of the CMS for the Site.

BF3 Operating Area

Based on the findings of the RFI and the HHRA, exposures at the Central SWMUs exposure unit, which includes the BF3 Operating Area, pose a carcinogenic risk to current and future outdoor workers and future construction workers and a non-carcinogenic risk to current and future outdoor workers and construction workers. Additionally, the RFI data show that impacted soil in the BF3 Operating Area is probably in contact with groundwater and is impacting groundwater, including the presence of DNAPL, but that concentrations decrease significantly before groundwater exits the Site. CMs for the BF3 Operating Area will be evaluated as part of the CMS for the Site.

Waste Storage Area

Based on the findings of the RFI and the HHRA, exposures at the Central SWMUs exposure unit, which includes the Waste Storage Area, pose a carcinogenic risk to current and future outdoor workers and future construction workers and a non-carcinogenic risk to current and future outdoor workers and construction workers. Additionally, the RFI data show that impacted soil in the Waste Storage Area is probably in contact with groundwater and is impacting groundwater, including the presence of DNAPL in the area downgradient of the Waste Storage Building. Groundwater in the Delmarva Substation portion of the Waste Storage Area does not appear to be significantly impacted by historic activities in this area. CMs for the Waste Storage Area will be evaluated as part of the CMS for the Site.

Wastewater Area

Based on the findings of the RFI and the HHRA, exposures at the Western SWMUs exposure unit, which includes the majority of the Wastewater Area excluding the Eastern Building 16 portion, pose a carcinogenic risk to future construction workers and a non-carcinogenic risk to current and future outdoor workers and construction workers. The HHRA indicates exposures at the Central SWMUs exposure unit, which includes the Eastern Building 16 portion of the Wastewater Area, pose a carcinogenic risk to current and future outdoor workers and future construction workers and a non-carcinogenic risk to current and future outdoor workers and construction workers. Additionally, the RFI data show that impacted soil in the Wastewater Area is probably in contact with groundwater and is impacting groundwater, although concentrations decrease significantly before groundwater exits the Site. CMs for the Wastewater Area will be evaluated as part of the CMS for the Site.

7.0 CONCLUSIONS AND RECOMMENDATIONS

The work scope and objectives presented in the 2015 Phase III RFI Work Plan were based upon a Corrective Action Framework Technical Memorandum and discussions with USEPA to utilize the RCRA Lean Process. Subsequent work plans (the 2019 Phase IV RFI Work Plan, the 2019 Supplemental SWMU 9 Work Plan, and the 2021 Demolition Site Investigation Work Plan) were designed to achieve the same objectives and generally followed the same methodologies and QA/QC as the 2015 Phase III RFI Work Plan. RFI and demolition investigation tasks were completed to delineate the soils impacts. Site-wide groundwater monitoring was enhanced by installation of monitoring wells to assess conditions in the additional investigation areas and to evaluate the potential for DNAPL. Conclusions and recommendations drawn from the RFI and demolition investigation are presented below.

North Plant

Soil and Waste

SWMUs, AOCs, and additional investigation areas were evaluated in accordance with the screening criteria presented in **Section 2.7** to estimate the horizontal and vertical extents of waste for the SWMUs and AOCs and impacts for the additional areas. The approximate surface area, depth, and volume of waste and impacted areas are summarized below and depicted on **Plates 1 through 19**.

SWMU, AOC, or Area	Surface Area (square feet)	Depth (feet bgs)	Volume (cubic feet)
SWMU 13	26,970	7 to 13	279,860
SWMU 14	18,630	3	55,890
SWMU 15	32,770	7	212,970
SWMU 16	2,120	6.5	13,780
SWMU 17	3,550	1 to 12	21,880
SWMU 18*	780	4 to 4.5	3,315
SWMU 19	9,010	13	114,300
SWMU 20	5,980	12	71,750
SWMU 21, 22, 30	81,110	16	1,216,650
SWMU 23	1,210	11 to 22	12,850
SWMU 27	12,920	13	162,500
AOC 16NP	6,770	13	77,380
MW 6 Area	14,545	6	87,270
Administration Building Area	2,827	2	5,654
BF3 Operating Area	31,985	6	191,910
Waste Storage Area	4,587	8	36,696
Wastewater Area	65,788	3	197,364

Notes:

feet bgs = feet below ground surface

SWMU 9 delineation is assumed to be the property boundary down to native soils

* = Soil excavated to a depth of 4 feet bgs and removed in 2014 as part of a capital project

Groundwater

The evaluation of soil and groundwater concentrations indicates that SWMUs 13, 14, 15, 16, 18, 21/22/30, AOC 16 NP, the BF3 Operating Area, the Waste Storage Area, and the Wastewater Area have impacted groundwater. DNAPL was observed in one monitoring well (well WS-MW1), downgradient of the BF3 Operating Area and the Waste Storage Area. Minor impacts to groundwater were observed from SWMUs 17, 19, 20, 23, and 27 compared to other SWMUs, AOCs, and additional areas. Groundwater impacts at SWMUs 14 and 18 may reflect contributions from further upgradient sources. AOC 3 and the Administration Area do not show impacted groundwater.

Groundwater concentrations in downgradient wells at the property boundary are significantly lower than those at and immediately downgradient of SWMUs, AOCs, and additional areas, indicating that concentrations decrease significantly before groundwater exits the Site.

Fate and transport modeling was conducted to evaluate the extent of groundwater impacts and assess potential offsite migration. The Site was divided into six separate flow areas so that the entire downgradient boundary for the Site could be evaluated for VOCs in downgradient property boundary wells (**Figure E1 in Appendix E**). The results indicated the potential for VOC migration at concentrations exceeding the groundwater RSLs (Tap Water or MCLs) at the property boundaries downgradient of Areas 2, 5, and 6. There are existing monitoring wells further downgradient of Area 2 at the South Plant. To evaluate Areas 5 and 6, two additional groundwater monitoring wells were installed on the south side of Route 13 in 2019. The monitoring wells were sampled and the results indicated that VOC concentrations in downgradient monitoring wells did not exceed Tapwater RSLs or MCLs, with the exception of slight exceedances of the Tapwater RSLs for chloroform, TCE, and vinyl chloride in monitoring well A6-01. However, as requested by USEPA, additional data are necessary to evaluate the extent of groundwater exceedances downgradient of monitoring well MW-104. Honeywell has contacted MHIC (former Sunoco) representatives for access to sample existing wells on the MHIC property which are located downgradient of well MW-104, currently Honeywell is attempting to gain access.

SWMU 9

Investigations of the geotechnical properties of the sludge pile and underlying native soils were conducted at SWMU-9 in 2015 and 2018. The subsurface was characterized as Fill (including Waste Fill, consisting of reddish brown and light gray silt-like material clay, and Industrial Fill,

consisting of glass shards, scrap metal, wood, and silty sand to gravel) underlain by Native Material (silt and clay above sand and gravel).

The results of the slope stability analysis indicated that there are locations where the Factor of Safety (FS) for landfill closure of 1.5 is not satisfied for the existing (i.e., capping) and/or alternate use (i.e., regrading) scenarios evaluated. However, there is no reason to expect imminent failure, and the FS for these areas can be improved using engineering measures. The results of the preliminary settlement analyses indicate that the range of settlement is less than 1.5 feet to approximately 5 feet for the alternate use (regrading) scenario and greater than one foot to approximately 3 feet for the existing use (capping) scenario.

Results from investigations conducted in 2003, 2010, and 2019 indicate that soil analytes which exceeded the criteria for chemical evidence of waste included arsenic, selenium, benzene hexachloride (BHC)-isomers, and pesticides. Groundwater analytes arsenic, BHC-isomers, and pesticides may be related to the SWMU waste. However, arsenic and lead are also present in high concentrations in groundwater upgradient of SWMU 9.

The 2019 groundwater sampling event included the collection of samples from four Sunoco monitoring wells located immediately adjacent to SMWU 9 on the west side of Middle Creek (monitoring wells MW-48, MW-557, MW-559, and MW-560, see **Figures 30** through **33**). A sample was not collected from Sunoco monitoring well MW-558 since it contained light nonaqueous phase liquid (LNAPL). The data indicated the following regarding MCL exceedances:

- VOCs. The concentrations of benzene and chlorobenzene in Sunoco monitoring well MW-559 were significantly higher than those in the SMWU 9 monitoring wells.
- SVOCs. Benzo(a)pyrene in one monitoring well at SWMU 9 (SM9-MW1) and pentachlorophenol in one Sunoco monitoring well (Sunoco well MW-557) exceeded MCLs.
- Dissolved metals. The concentrations of arsenic were significantly higher in monitoring wells MW-18 and MW-19 and Sunoco monitoring well MW-557 than those in other SWMU 9 monitoring wells.

A review of groundwater data from Sunoco monitoring wells further from Middle Creek to the east and southeast of SWMU 9 showed arsenic concentrations in monitoring wells along the shoreline as high as 1,360,000 ug/L, several orders of magnitude higher than arsenic concentrations in SWMU 9 monitoring wells (GHD, 2017). The arsenic concentrations in Sunoco monitoring wells decrease significantly away from the shoreline to the northeast of SWMU 9 (from several hundred to less than a hundred ug/L). Benzene and chlorobenzene concentrations in Sunoco monitoring well MW-509, located on the east side of Middle Creek to the east of SWMU 9, were 180 ug/L and 240 ug/L, respectively. In comparison, SWMU 9 benzene concentrations which ranged from 0.05 J to 19 ug/L and SWMU 9 chlorobenzene concentrations which range from 0.06 J to 67 ug/L, except for monitoring well MW-15, which had a chlorobenzene concentration of 160 ug/L. SWMU 9 monitoring well is located adjacent to Sunoco near Sunoco monitoring well MW-558 which

contained LNAPL. These data demonstrate that SWMU 9 is not the source of impacts on Sunoco property.

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TABLES

Table 1. SWMU 9 Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location				SM09-SB01-01	SM09-SB01-02	SM09-SB01-02	SM09-SB01-03	SM09-SB02-01	SM09-SB02-02	SM09-SB02-03	SM09-SB03-01	SM09-SB03-02	SM09-SB03-03	SM09-SB04-01
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	SM09-SB01-010529031 5/29/2003	SM09-SB01-020529031 5/29/2003	SM09-SB01-020604031 6/4/2003	SM09-SB01-030529031 5/29/2003	SM09-SB02-010530031 5/30/2003	SM09-SB02-020530031 5/30/2003	SM09-SB02-030530031 5/30/2003	SM09-SB03-010530031 5/30/2003	SM09-SB03-020530031 5/30/2003	SM09-SB03-030530031 5/30/2003	SM09-SB04-010602031 6/2/2003
Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Metals															
Aluminum	1100000	600000		mg/kg	95500	17400	13400	31200	3310	5280	13600	95500	24900	18400	130000
Antimony	470	7	5.4	mg/kg	7.3 U	5.5 U	5.7 U	22 B	5.1 U	5.8 U	5.5 U	6.6 U	5.5 U	77.9	6.2 U
Arsenic	3	0.03	5.8	mg/kg	7.1 U	5.4 U	5.6 U	743	5 U	5.6 U	5.4 U	6.5 U	47.1	6850	6.1 U
Barium	220000	3200	1640	mg/kg	23.3 B	267	252	726	263	360	471	35 B	303	1000	106 B
Beryllium	2300	380	64	mg/kg	0.5 B	0.6 B	0.7 B	0.8 B	0.5 B	1 B	0.3 U	0.4 B	0.4 B	1.2 B	0.7 B
Boron	230000	260		mg/kg	4.9 B	1 B	0.9 U	0.8 U	0.8 U	0.9 U	0.9 U	2.9 B	0.9 U	0.9 U	23.2
Cadmium	100	2.8	7.6	mg/kg	0.6 U	0.8 B	0.8 B	7.9	0.4 U	0.5 U	1.4 B	0.6 U	3.3 B	9.4	0.5 U
Calcium				mg/kg	102000	238000	243000	169000	268000	247000	257000	37300	179000	134000	65400
Chromium			3600000	mg/kg	96.8	25.3	17.9	33.9	6.8 B	7.2 B	19	92.7	36.4	64.6	99.7
Cobalt	350	5.4		mg/kg	4.4 U	9.4 B	11.5 B	16.2 B	3.1 U	3.5 U	3.3 U	4.1 B	83.6	54.1 B	10.4 B
Copper	47000	560	920	mg/kg	9.7 B	97.1	119	6280	5.2 B	2.9 U	6.2 B	22.7 B	316	388	106
Iron	820000	7000		mg/kg	3690	15500	20900	40900	912	1200	1530	6240	93200	74600	8900
Lead	800		280	mg/kg	57.1	347	415	2480	85.7	95.6	184	84.5	338	5410	205
Magnesium				mg/kg	449 U	2860 B	3040 B	334 U	314 U	354 U	337 U	405 U	341 U	1420 B	382 U
Manganese	26000	560		mg/kg	27.4	31.9	32.3	26.4	12.3 B	8.5 B	10.6 B	23.9	63.1	100	81.1
Nickel	22000	520		mg/kg	4.5 B	7.8 B	5.1 B	4.9 B	2.8 U	3.1 U	3 U	3.7 B	8.3 B	15.7 B	80.1
Potassium				mg/kg	1310 B	377 U	390 U	545 B	539 B	393 U	373 U	2040 B	378 U	1320 B	869 B
Selenium	5800	10.4	5.2	mg/kg	5.9 U	7	5.4 B	9.9	4.1 U	4.7 U	4.4 U	5.4 U	129	170	5 U
Silver	5800	16		mg/kg	2.6 U	2 U	2 U	5.1 B	1.8 U	3.6 B	1.9 U	2.3 U	2.5 B	6.5 B	2.2 U
Sodium				mg/kg	779 U	590 U	610 U	580 U	545 U	615 U	585 U	704 U	592 U	640 U	664 U
Thallium	12	0.28	2.8	mg/kg	0.6 U	0.6 B	0.5 B	16.1	0.4 U	0.8 B	0.4 U	0.5 U	2	9.1	0.5 U
Vanadium	5800	1720		mg/kg	81.9	20.7 B	15.7 B	52.3 B	5 B	8.8 B	28.1 B	105	23.3 B	43.3 B	91.5
Zinc	350000	7400		mg/kg	20.9 B	173	209	1670	9.2 B	9.2 B	22.3 B	19.1 B	499	1510	705
Mercury	46	0.66	2	mg/kg	0.1	4	2.7	4.5	13.7	5.4	2.4	0.5	0.6	48.2	1
Pesticides															
4,4'-DDD	9.6	0.15		mg/kg											
4,4'-DDE	9.3	0.22		mg/kg											
4,4'-DDT	8.5	1.54		mg/kg											
Aldrin	0.18	0.003		mg/kg											
Alpha-BHC	0.36	0.0084		mg/kg											
Beta-BHC	1.3	0.003		mg/kg											
cis-Chlordane	500	9.8		mg/kg											
Delta-BHC				mg/kg											
Dieldrin	0.14	0.00142		mg/kg											
Endosulfan I				mg/kg											
Endosulfan II				mg/kg											
Endosulfan Sulfate	4900	42		mg/kg											
Endrin	250	1.84	1.62	mg/kg											
Endrin Aldehyde				mg/kg											
Endrin Ketone				mg/kg											
Gamma-BHC (Lindane)	2.5	0.0048	0.024	mg/kg											
Heptachlor	0.63	0.0024	0.66	mg/kg											
Heptachlor Epoxide	0.33	0.00056	0.082	mg/kg											
Methoxychlor	4100	40	44	mg/kg											
Toxaphene	2.1	0.22	9.2	mg/kg											
trans-Chlordane	500	28		mg/kg											
Volatile Organic Compounds															
1,1,1-Trichloroethane	36000	56	1.4	mg/kg											
1,1,2,2-Tetrachloroethane	2.7	0.0006		mg/kg											
1,1,2-Trichloro-1,2,2-Trifluoroethane	28000	520		mg/kg											
1,1,2-Trichloroethane	5	0.00178	0.032	mg/kg											
1,1-Dichloroethane	16	0.0156		mg/kg											
1,1-Dichloroethene	1000	2	0.05	mg/kg											
1,2,3-Trichlorobenzene	930	0.42		mg/kg											
1,2,4-Trichlorobenzene	110	0.068	4	mg/kg											
1,2-Dibromo-3-Chloropropane	0.064	0.000028	0.00172	mg/kg											
1,2-Dibromoethane	0.16	0.000042	0.00028	mg/kg											
1,2-Dichlorobenzene	9300	6	11.6	mg/kg											
1,2-Dichloroethane	2	0.00096	0.028	mg/kg											
1,2-Dichloropropane	11	0.0056	0.034	mg/kg											
1,3-Dichlorobenzene				mg/kg											
1,4-Dichlorobenzene	11	0.0092	1.44	mg/kg											
1,4-Dioxane	24	0.00188		mg/kg											

Table 1. SWMU 9 Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	SM09-SB01-01 SM09-SB01-010529031 5/29/2003		SM09-SB01-02 SM09-SB01-020529031 5/29/2003		SM09-SB01-02 SM09-SB01-020604031 6/4/2003		SM09-SB01-03 SM09-SB01-030529031 5/29/2003		SM09-SB02-01 SM09-SB02-010530031 5/30/2003		SM09-SB02-02 SM09-SB02-020530031 5/30/2003		SM09-SB02-03 SM09-SB02-030530031 5/30/2003		SM09-SB03-01 SM09-SB03-010530031 5/30/2003		SM09-SB03-02 SM09-SB03-020530031 5/30/2003		SM09-SB03-03 SM09-SB03-030530031 5/30/2003		SM09-SB04-01 SM09-SB04-010602031 6/2/2003			
					Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
2-Butanone	190000	24		mg/kg																								
2-Hexanone	1300	0.176		mg/kg																								
4-Methyl-2-Pentanone	140000	28		mg/kg																								
Acetone	1100000	74		mg/kg																								
Benzene	5.1	0.0046	0.052	mg/kg																								
Bromochloromethane	630	0.42		mg/kg																								
Bromodichloromethane	1.3	0.00072	0.44	mg/kg																								
Bromoform	86	0.0174	0.42	mg/kg																								
Bromomethane	30	0.038		mg/kg																								
Carbon Disulfide	3500	4.8		mg/kg																								
Carbon Tetrachloride	2.9	0.0036	0.038	mg/kg																								
Chlorobenzene	1300	1.06	1.36	mg/kg																								
Chloroethane	23000	48		mg/kg																								
Chloroform	1.4	0.00122	0.44	mg/kg																								
Chloromethane	460	0.98		mg/kg																								
cis-1,2-Dichloroethene	2300	0.22	0.42	mg/kg																								
cis-1,3-Dichloropropene				mg/kg																								
Cyclohexane	27000	260		mg/kg																								
Dibromochloromethane	39	0.0046	0.42	mg/kg																								
Dichlorodifluoromethane	370	6		mg/kg																								
Ethylbenzene	25	0.034	15.6	mg/kg																								
Isopropylbenzene	9900	14.8		mg/kg																								
m&p-Xylenes				mg/kg																								
Methyl Acetate	1200000	82		mg/kg																								
Methyl Tert-Butyl Ether	210	0.064		mg/kg																								
Methylcyclohexane				mg/kg																								
Methylene Chloride	1000	0.058	0.026	mg/kg																								
o-Xylene	2800	3.8		mg/kg																								
Styrene	35000	26	2.2	mg/kg																								
Tetrachloroethene	100	0.102	0.046	mg/kg																								
Toluene	47000	15.2	13.8	mg/kg																								
Total Xylenes	2500	3.8	198	mg/kg																								
trans-1,2-Dichloroethene	300	0.42	0.62	mg/kg																								
trans-1,3-Dichloropropene				mg/kg																								
Trichloroethene	6	0.0036	0.036	mg/kg																								
Trichlorofluoromethane	350000	66		mg/kg																								
Vinyl Chloride	1.7	0.00013	0.0138	mg/kg																								
Semi-Volatile Organic Compounds																												
1,1'-Biphenyl	200	0.174		mg/kg																								
1,2,4,5-Tetrachlorobenzene	35	0.0158		mg/kg																								
2,3,4,6-Tetrachlorophenol	25000	3.6		mg/kg																								
2,4,5-Trichlorophenol	82000	80		mg/kg																								
2,4,6-Trichlorophenol	210	0.08		mg/kg																								
2,4-Dichlorophenol	2500	0.46		mg/kg																								
2,4-Dimethylphenol	16000	8.4		mg/kg																								
2,4-Dinitrophenol	1600	0.88		mg/kg																								
2,4-Dinitrotoluene	7.4	0.0064		mg/kg																								
2,6-Dinitrotoluene	1.5	0.00134		mg/kg																								
2-Chloronaphthalene	60000	78		mg/kg																								
2-Chlorophenol	5800	1.78		mg/kg																								
2-Methylnaphthalene	3000	3.8		mg/kg																								
2-Methylphenol	41000	15		mg/kg																								
2-Nitroaniline	8000	1.6		mg/kg																								
2-Nitrophenol				mg/kg																								
3,3'-Dichlorobenzidine	5.1	0.0164		mg/kg																								
3-Nitroaniline				mg/kg																								
4,6-Dinitro-2-Methylphenol	66	0.052		mg/kg																								
4-Bromophenyl Phenyl Ether				mg/kg																								
4-Chloro-3-Methylphenol	82000	34		mg/kg																								
4-Chloroaniline	11	0.0032		mg/kg																								
4-Chlorophenyl Phenyl Ether				mg/kg																								
4-Methylphenol	16000	6		mg/kg																								
4-Nitroaniline	110	0.032		mg/kg																								
4-Nitrophenol				mg/kg																								
Acenaphthene	45000	110		mg/kg																								

**Table 1. SWMU 9 Soil Analytical Results
RCRA Facility Investigation Report
Honeywell Delaware Valley Works
Claymont, Delaware
Wood Project No. 3482210786**

Parameter	Location			Units	SM09-SB01-01		SM09-SB01-02		SM09-SB01-02		SM09-SB01-03		SM09-SB02-01		SM09-SB02-02		SM09-SB02-03		SM09-SB03-01		SM09-SB03-02		SM09-SB03-03		SM09-SB04-01			
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20		Sample ID	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result
Acenaphthylene				mg/kg																								
Acetophenone	120000	11.6		mg/kg																								
Anthracene	230000	1160		mg/kg																								
Atrazine	10	0.004	0.038	mg/kg																								
Benzaldehyde	820	0.082		mg/kg																								
Benzo(A)Anthracene	21	0.22		mg/kg																								
Benzo(A)Pyrene	2.1	0.58	4.8	mg/kg																								
Benzo(B)Fluoranthene	21	6		mg/kg																								
Benzo(G,H,I)perylene				mg/kg																								
Benzo(K)Fluoranthene	210	58		mg/kg																								
bis-(2-Chloroethoxy)Methane	2500	0.26		mg/kg																								
bis-(2-Chloroethyl)Ether	1	0.00072		mg/kg																								
bis(2-Chloroisopropyl)Ether				mg/kg																								
bis-(2-Ethylhexyl)Phthalate	160	26	28	mg/kg																								
Butylbenzyl Phthalate	1200	4.8		mg/kg																								
Caprolactam	400000	50		mg/kg																								
Carbazole				mg/kg																								
Chrysene	2100	180		mg/kg																								
Dibenzo(a,h)Anthracene	2.1	1.92		mg/kg																								
Dibenzofuran	1200	3		mg/kg																								
Diethyl Phthalate	660000	122		mg/kg																								
Dimethyl Phthalate				mg/kg																								
Di-n-Butyl Phthalate	82000	46		mg/kg																								
Di-n-Octyl Phthalate	8200	1140		mg/kg																								
Fluoranthene	30000	1780		mg/kg																								
Fluorene	30000	108		mg/kg																								
Hexachlorobenzene	0.96	0.0024	0.26	mg/kg																								
Hexachlorobutadiene	5.3	0.0054		mg/kg																								
Hexachlorocyclopentadiene	7.5	0.026	3.2	mg/kg																								
Hexachloroethane	8	0.004		mg/kg																								
Indeno(1,2,3-Cd)Pyrene	21	19.6		mg/kg																								
Isophorone	2400	0.52		mg/kg																								
Naphthalene	8.6	0.0076		mg/kg																								
Nitrobenzene	22	0.00184		mg/kg																								
n-Nitroso-di-n-Propylamine	0.33	0.000162		mg/kg																								
n-Nitrosodiphenylamine	470	1.34		mg/kg																								
Pentachlorophenol	4	0.00114	0.028	mg/kg																								
Phenanthrene				mg/kg																								
Phenol	250000	66		mg/kg																								
Pyrene	23000	260		mg/kg																								

Notes:
Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), Industrial Soil Screening Level (SSL) (November 2021)
Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20
Exceeds the EPA RSL, Maximum Contaminant Level (MCL) SSL assuming a DAF of 20
Blanks indicate RSL not established or constituent not analyzed
RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0
U = undetected
J = estimated value
J+ = estimated biased high
J- = estimated biased low
R = rejected
MG/KG - milligram per kilogram
SWMU = Solid Waste Management Unit
RCRA = Resource Conservation and Recovery Act
Sample depth shown in Sample ID (e.g., SBBF3-04_6-8 indicates 6 to 8-foot sample)
DUP = Duplicate sample
Exceedances shown may exceed one or more criteria if available

Table 1. SWMU 9 Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location				SM09-SB04-02	SM09-SB04-03	SM09-SB05-01	SM09-SB05-02	SM09-SB05-02	SM09-SB06-01	SM09-SB06-02	SM09-SB03	SM09-SB05	SP-1	SP-10
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	SM09-SB04-020602031 6/2/2003	SM09-SB04-030602031 6/2/2003	SM09-SB05-010604031 6/4/2003	SM09-SB05-020604031 6/4/2003	SM09-SB05-020604031 6/4/2003	SM09-SB06-010604031 6/4/2003	SM09-SB06-020604031 6/4/2003	M9-SB3 (7.0-8.0)_07171 7/17/2015	M9-SB5 (1.5-2.0)_07151 7/15/2015	SP-1 7/7/10 7/7/2010	SP-10 7/7/10 7/7/2010
Metals															
Aluminum	1100000	600000		mg/kg	81000	19100	8710	30200	26900	50700	17200				
Antimony	470	7	5.4	mg/kg	6.4 U	24.8 B	5.5 B	5.6 U	5.7 U	8.2 B	21.8 B				
Arsenic	3	0.03	5.8	mg/kg	6.3 U	176	205	16.7	25.1	700	324	18.5	13.2	973	0.24 JB
Barium	220000	3200	1640	mg/kg	47.4 B	308	319	122 B	80.9 B	1060	607	56	74.2		
Beryllium	2300	380	64	mg/kg	0.5 B	0.5 B	0.7 B	0.5 B	0.6 B	0.8 B	0.7 B				
Boron	230000	260		mg/kg	5.3 B	0.8 U	0.8 U	0.9 U	0.9 U	2 B	0.8 U				
Cadmium	100	2.8	7.6	mg/kg	0.5 U	5.5	0.5 B	0.5 U	0.5 U	5.1 B	4 B	0.62 J	0.288 J		
Calcium				mg/kg	182000	125000	221000	241000	236000	125000	150000				
Chromium			3600000	mg/kg	96.2	48.9	29.9		31.4	74.7		160	103		
Cobalt	350	5.4		mg/kg	4.1 B	140	16.5 B	5.3 B	5.8 B	11.9 B	60.3				
Copper	47000	560	920	mg/kg	25.8 B	447	89.9	38.7	90.4	229	521				
Iron	820000	7000		mg/kg	5920	184000	24500	13000	14500	21500	97200				
Lead	800		280	mg/kg	57.3	421	238	93.2	118	969	2010	88.6	139	3400	39.1
Magnesium				mg/kg	498 B	707 B	9200	4260 B	4440 B	775 B	2040 B				
Manganese	26000	560		mg/kg	24.5	61	73.1	25.8	27	56.9	80				
Nickel	22000	520		mg/kg	3.5 U	15.6 B	6 B	3.5 B	3.1 U	8 B	10.6 B				
Potassium				mg/kg	436 U	361 U	883 B	380 U	390 U	402 U	494 B				
Selenium	5800	10.4	5.2	mg/kg	5.2 U	271	15.2	7.8	10	26	117	4.23 U	16.4 U		
Silver	5800	16		mg/kg	2.3 U	8.8 B	1.9 U	2 U	2 U	2.1 U	3.2 B	5.29 U	0.818 U		
Sodium				mg/kg	682 U	565 U	580 U	595 U	610 U	1290 B	783 B				
Thallium	12	0.28	2.8	mg/kg	0.5 U	4	0.5 B	0.4 U	0.4 U	2.1	3.6				
Vanadium	5800	1720		mg/kg	77	31.1 B	15.9 B	27.1 B	30.5 B	60.9 B	37.6 B				
Zinc	350000	7400		mg/kg	85.4	1030	141	49.1	59.9	951	1460				
Mercury	46	0.66	2	mg/kg	0.7	3.6	2.3	2.1	2	17.5	19.9	0.108 J	0.228		
Pesticides															
4,4'-DDD	9.6	0.15		mg/kg										22	0.0019
4,4'-DDE	9.3	0.22		mg/kg										9.3	0.0016
4,4'-DDT	8.5	1.54		mg/kg										55	0.0055
Aldrin	0.18	0.003		mg/kg										0.86 U	0.00093 U
Alpha-BHC	0.36	0.00084		mg/kg										2.4	0.00093 U
Beta-BHC	1.3	0.003		mg/kg										2.2	0.00093 U
cis-Chlordane	500	9.8		mg/kg										0.86 U	0.00093 U
Delta-BHC				mg/kg										0.32	0.00014 J
Dieldrin	0.14	0.00142		mg/kg										0.18 J	0.001
Endosulfan I				mg/kg										0.86 U	0.00093 U
Endosulfan II				mg/kg										0.19	0.00031 J
Endosulfan Sulfate	4900	42		mg/kg										0.86 U	0.00061 J
Endrin	250	1.84	1.62	mg/kg										0.86 U	0.00093 U
Endrin Aldehyde				mg/kg										0.86 U	0.00093 U
Endrin Ketone				mg/kg										0.86 U	0.00016 J
Gamma-BHC (Lindane)	2.5	0.0048	0.024	mg/kg										1.4	0.0013
Heptachlor	0.63	0.0024	0.66	mg/kg										0.86 U	0.00093 U
Heptachlor Epoxide	0.33	0.00056	0.082	mg/kg										0.86 U	0.00093 U
Methoxychlor	4100	40	44	mg/kg										1.7 U	0.0019 U
Toxaphene	2.1	0.22	9.2	mg/kg										34 U	0.037 U
trans-Chlordane	500	28		mg/kg										0.67 J	0.00093 U
Volatile Organic Compounds															
1,1,1-Trichloroethane	36000	56	1.4	mg/kg											
1,1,2,2-Tetrachloroethane	2.7	0.0006		mg/kg											
1,1,2-Trichloro-1,2,2-Trifluoroethane	28000	520		mg/kg											
1,1,2-Trichloroethane	5	0.00178	0.032	mg/kg											
1,1-Dichloroethane	16	0.0156		mg/kg											
1,1-Dichloroethene	1000	2	0.05	mg/kg											
1,2,3-Trichlorobenzene	930	0.42		mg/kg											
1,2,4-Trichlorobenzene	110	0.068		mg/kg											
1,2-Dibromo-3-Chloropropane	0.064	0.000028	0.00172	mg/kg											
1,2-Dibromoethane	0.16	0.000042	0.00028	mg/kg											
1,2-Dichlorobenzene	9300	6	11.6	mg/kg											
1,2-Dichloroethane	2	0.00096	0.028	mg/kg											
1,2-Dichloropropane	11	0.0056	0.034	mg/kg											
1,3-Dichlorobenzene				mg/kg											
1,4-Dichlorobenzene	11	0.0092	1.44	mg/kg											
1,4-Dioxane	24	0.00188		mg/kg											

Table 1. SWMU 9 Soil Analytical Results
RCRA Facility Investigation Report
Honeywell Delaware Valley Works
Claymont, Delaware
Wood Project No. 3482210786

Parameter	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	SM09-SB04-02 SM09-SB04-020602031 6/2/2003		SM09-SB04-03 SM09-SB04-030602031 6/2/2003		SM09-SB05-01 SM09-SB05-010604031 6/4/2003		SM09-SB05-02 SM09-SB05-020604031 6/4/2003		SM09-SB05-02 SM09-SB05-020604031 6/4/2003		SM09-SB06-01 SM09-SB06-010604031 6/4/2003		SM09-SB06-02 SM09-SB06-020604031 6/4/2003		SM9-SB03 M9-SB3 (7.0-8.0)_071715 7/17/2015		SM9-SB05 M9-SB5 (1.5-2.0)_071515 7/15/2015		SP-1 SP-1 7/7/10 7/7/2010		SP-10 SP-10 7/7/10 7/7/2010				
					Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual			
2-Butanone	190000	24		mg/kg																									
2-Hexanone	1300	0.176		mg/kg																									
4-Methyl-2-Pentanone	140000	28		mg/kg																									
Acetone	1100000	74		mg/kg																									
Benzene	5.1	0.0046	0.052	mg/kg																									
Bromochloromethane	630	0.42		mg/kg																									
Bromodichloromethane	1.3	0.00072	0.44	mg/kg																									
Bromoform	86	0.0174	0.42	mg/kg																									
Bromomethane	30	0.038		mg/kg																									
Carbon Disulfide	3500	4.8		mg/kg																									
Carbon Tetrachloride	2.9	0.0036	0.038	mg/kg																									
Chlorobenzene	1300	1.06	1.36	mg/kg																									
Chloroethane	23000	48		mg/kg																									
Chloroform	1.4	0.00122	0.44	mg/kg																									
Chloromethane	460	0.98		mg/kg																									
cis-1,2-Dichloroethene	2300	0.22	0.42	mg/kg																									
cis-1,3-Dichloropropene				mg/kg																									
Cyclohexane	27000	260		mg/kg																									
Dibromochloromethane	39	0.0046	0.42	mg/kg																									
Dichlorodifluoromethane	370	6		mg/kg																									
Ethylbenzene	25	0.034	15.6	mg/kg																									
Isopropylbenzene	9900	14.8		mg/kg																									
m&p-Xylenes				mg/kg																									
Methyl Acetate	1200000	82		mg/kg																									
Methyl Tert-Butyl Ether	210	0.064		mg/kg																									
Methylcyclohexane				mg/kg																									
Methylene Chloride	1000	0.058	0.026	mg/kg																									
o-Xylene	2800	3.8		mg/kg																									
Styrene	35000	26	2.2	mg/kg																									
Tetrachloroethene	100	0.102	0.046	mg/kg																									
Toluene	47000	15.2	13.8	mg/kg																									
Total Xylenes	2500	3.8	198	mg/kg																									
trans-1,2-Dichloroethene	300	0.42	0.62	mg/kg																									
trans-1,3-Dichloropropene				mg/kg																									
Trichloroethene	6	0.0036	0.036	mg/kg																									
Trichlorofluoromethane	350000	66		mg/kg																									
Vinyl Chloride	1.7	0.00013	0.0138	mg/kg																									
Semi-Volatile Organic Compounds																													
1,1'-Biphenyl	200	0.174		mg/kg																									
1,2,4,5-Tetrachlorobenzene	35	0.0158		mg/kg																									
2,3,4,6-Tetrachlorophenol	25000	3.6		mg/kg																									
2,4,5-Trichlorophenol	82000	80		mg/kg																									
2,4,6-Trichlorophenol	210	0.08		mg/kg																									
2,4-Dichlorophenol	2500	0.46		mg/kg																									
2,4-Dimethylphenol	16000	8.4		mg/kg																									
2,4-Dinitrophenol	1600	0.88		mg/kg																									
2,4-Dinitrotoluene	7.4	0.0064		mg/kg																									
2,6-Dinitrotoluene	1.5	0.00134		mg/kg																									
2-Chloronaphthalene	60000	78		mg/kg																									
2-Chlorophenol	5800	1.78		mg/kg																									
2-Methylnaphthalene	3000	3.8		mg/kg																									
2-Methylphenol	41000	15		mg/kg																									
2-Nitroaniline	8000	1.6		mg/kg																									
2-Nitrophenol				mg/kg																									
3,3'-Dichlorobenzidine	5.1	0.0164		mg/kg																									
3-Nitroaniline				mg/kg																									
4,6-Dinitro-2-Methylphenol	66	0.052		mg/kg																									
4-Bromophenyl Phenyl Ether				mg/kg																									
4-Chloro-3-Methylphenol	82000	34		mg/kg																									
4-Chloroaniline	11	0.0032		mg/kg																									
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RCRA Facility Investigation Report
Honeywell Delaware Valley Works
Claymont, Delaware
Wood Project No. 3482210786**

Parameter	Location			Units	SM09-SB04-02		SM09-SB04-03		SM09-SB05-01		SM09-SB05-02		SM09-SB05-02		SM09-SB06-01		SM09-SB06-02		SM9-SB03		SM9-SB05		SP-1		SP-10			
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20		Sample ID	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result
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 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	SP-11 SP-11 7/7/10 7/7/2010		SP-12 SP-12 7/7/10 7/7/2010		SP-13 SP-13 7/8/10 7/8/2010		SP-14 SP-14 7/8/10 7/8/2010		SP-15 SP-15 7/8/10 7/8/2010		SP-16 SP-16 7/8/10 7/8/2010		SP-16 SP-16 7/8/10 DUP 7/8/2010		SP-17 SP-17 7/8/10 7/8/2010		SP-18 SP-18 7/8/10 7/8/2010		SP-19 SP-19 7/8/10 7/8/2010		SP-2 SP-2 7/7/10 7/7/2010			
					Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
2-Butanone	190000	24		mg/kg																								
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Carbon Tetrachloride	2.9	0.0036	0.038	mg/kg																								
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Chloroethane	23000	48		mg/kg																								
Chloroform	1.4	0.00122	0.44	mg/kg																								
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cis-1,2-Dichloroethene	2300	0.22	0.42	mg/kg																								
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Cyclohexane	27000	260		mg/kg																								
Dibromochloromethane	39	0.0046	0.42	mg/kg																								
Dichlorodifluoromethane	370	6		mg/kg																								
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Isopropylbenzene	9900	14.8		mg/kg																								
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Methylene Chloride	1000	0.058	0.026	mg/kg																								
o-Xylene	2800	3.8		mg/kg																								
Styrene	35000	26	2.2	mg/kg																								
Tetrachloroethene	100	0.102	0.046	mg/kg																								
Toluene	47000	15.2	13.8	mg/kg																								
Total Xylenes	2500	3.8	198	mg/kg																								
trans-1,2-Dichloroethene	300	0.42	0.62	mg/kg																								
trans-1,3-Dichloropropene				mg/kg																								
Trichloroethene	6	0.0036	0.036	mg/kg																								
Trichlorofluoromethane	350000	66		mg/kg																								
Vinyl Chloride	1.7	0.00013	0.0138	mg/kg																								
Semi-Volatile Organic Compounds																												
1,1'-Biphenyl	200	0.174		mg/kg																								
1,2,4,5-Tetrachlorobenzene	35	0.0158		mg/kg																								
2,3,4,6-Tetrachlorophenol	25000	3.6		mg/kg																								
2,4,5-Trichlorophenol	82000	80		mg/kg																								
2,4,6-Trichlorophenol	210	0.08		mg/kg																								
2,4-Dichlorophenol	2500	0.46		mg/kg																								
2,4-Dimethylphenol	16000	8.4		mg/kg																								
2,4-Dinitrophenol	1600	0.88		mg/kg																								
2,4-Dinitrotoluene	7.4	0.0064		mg/kg																								
2,6-Dinitrotoluene	1.5	0.00134		mg/kg																								
2-Chloronaphthalene	60000	78		mg/kg																								
2-Chlorophenol	5800	1.78		mg/kg																								
2-Methylnaphthalene	3000	3.8		mg/kg																								
2-Methylphenol	41000	15		mg/kg																								
2-Nitroaniline	8000	1.6		mg/kg																								
2-Nitrophenol				mg/kg																								
3,3'-Dichlorobenzidine	5.1	0.0164		mg/kg																								
3-Nitroaniline				mg/kg																								
4,6-Dinitro-2-Methylphenol	66	0.052		mg/kg																								
4-Bromophenyl Phenyl Ether				mg/kg																								
4-Chloro-3-Methylphenol	82000	34		mg/kg																								
4-Chloroaniline	11	0.0032		mg/kg																								
4-Chlorophenyl Phenyl Ether				mg/kg																								
4-Methylphenol	16000	6		mg/kg																								
4-Nitroaniline	110	0.032		mg/kg																								
4-Nitrophenol				mg/kg																								
Acenaphthene	45000	110		mg/kg																								

Table 1. SWMU 9 Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date			SP-11 SP-11 7/7/10 7/7/2010		SP-12 SP-12 7/7/10 7/7/2010		SP-13 SP-13 7/8/10 7/8/2010		SP-14 SP-14 7/8/10 7/8/2010		SP-15 SP-15 7/8/10 7/8/2010		SP-16 SP-16 7/8/10 7/8/2010		SP-16 SP-16 7/8/10 DUP 7/8/2010		SP-17 SP-17 7/8/10 7/8/2010		SP-18 SP-18 7/8/10 7/8/2010		SP-19 SP-19 7/8/10 7/8/2010		SP-2 SP-2 7/7/10 7/7/2010		
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Acenaphthylene																										
Acetophenone	120000	11.6		mg/kg																						
Anthracene	230000	1160		mg/kg																						
Atrazine	10	0.004	0.038	mg/kg																						
Benzaldehyde	820	0.082		mg/kg																						
Benzo(A)Anthracene	21	0.22		mg/kg																						
Benzo(A)Pyrene	2.1	0.58	4.8	mg/kg																						
Benzo(B)Fluoranthene	21	6		mg/kg																						
Benzo(G,H,I)perylene				mg/kg																						
Benzo(K)Fluoranthene	210	58		mg/kg																						
bis-(2-Chloroethoxy)Methane	2500	0.26		mg/kg																						
bis-(2-Chloroethyl)Ether	1	0.000072		mg/kg																						
bis(2-Chloroisopropyl)Ether				mg/kg																						
bis-(2-Ethylhexyl)Phthalate	160	26	28	mg/kg																						
Butylbenzyl Phthalate	1200	4.8		mg/kg																						
Caprolactam	400000	50		mg/kg																						
Carbazole				mg/kg																						
Chrysene	2100	180		mg/kg																						
Dibenzo(a,h)Anthracene	2.1	1.92		mg/kg																						
Dibenzofuran	1200	3		mg/kg																						
Diethyl Phthalate	660000	122		mg/kg																						
Dimethyl Phthalate				mg/kg																						
Di-n-Butyl Phthalate	82000	46		mg/kg																						
Di-n-Octyl Phthalate	8200	1140		mg/kg																						
Fluoranthene	30000	1780		mg/kg																						
Fluorene	30000	108		mg/kg																						
Hexachlorobenzene	0.96	0.0024	0.26	mg/kg																						
Hexachlorobutadiene	5.3	0.0054		mg/kg																						
Hexachlorocyclopentadiene	7.5	0.026	3.2	mg/kg																						
Hexachloroethane	8	0.004		mg/kg																						
Indeno(1,2,3-Cd)Pyrene	21	19.6		mg/kg																						
Isophorone	2400	0.52		mg/kg																						
Naphthalene	8.6	0.0076		mg/kg																						
Nitrobenzene	22	0.00184		mg/kg																						
n-Nitroso-di-n-Propylamine	0.33	0.000162		mg/kg																						
n-Nitrosodiphenylamine	470	1.34		mg/kg																						
Pentachlorophenol	4	0.00114	0.028	mg/kg																						
Phenanthrene				mg/kg																						
Phenol	250000	66		mg/kg																						
Pyrene	23000	260		mg/kg																						

Notes:
 Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), Industrial Soil Screening Level (SSL) (November 2021)
 Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20
 Exceeds the EPA RSL, Maximum Contaminant Level (MCL) SSL assuming a DAF of 20
 Blanks indicate RSL not established or constituent not analyzed
 RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0
 U = undetected
 J = estimated value
 J+ = estimated biased high
 J- = estimated biased low
 R = rejected
 MG/KG - milligram per kilogram
 SWMU = Solid Waste Management Unit
 RCRA = Resource Conservation and Recovery Act
 Sample depth shown in Sample ID (e.g., SBBF3-04_6-8 indicates 6 to 8-foot sample)
 DUP = Duplicate sample
 Exceedances shown may exceed one or more criteria if available

Table 1. SWMU 9 Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date				SP-20 SP-20 7/8/10 7/8/2010		SP-21 SP-21 7/8/10 7/8/2010		SP-3 SP-3 7/7/10 7/7/2010		SP-4 SP-4 7/7/10 7/7/2010		SP-5 SP-5 7/7/10 7/7/2010		SP-6 SP-6 7/7/10 7/7/2010		SP-7 SP-7 7/7/10 7/7/2010		SP-8 SP-8 7/7/10 7/7/2010		SP-9 SP-9 7/7/10 7/7/2010		B-1 SBB1100119-01 10/1/2019		B-1 SBB1100119-1416 10/1/2019			
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual		
Metals																												
Aluminum	1100000	600000		mg/kg																					24700		34100	
Antimony	470	7	5.4	mg/kg																					4.46	J	12.5	J
Arsenic	3	0.03	5.8	mg/kg	5520		102		84		179		159		94.1		37.5		50.2		8.9			168		1050		
Barium	220000	3200	1640	mg/kg																					485		1800	
Beryllium	2300	380	64	mg/kg																				0.319	J	0.958		
Boron	230000	260		mg/kg																								
Cadmium	100	2.8	7.6	mg/kg																				0.417	J	7.29		
Calcium				mg/kg																				45800		29300		
Chromium			3600000	mg/kg																				54.4		122		
Cobalt	350	5.4		mg/kg																				23.8		32.6		
Copper	47000	560	920	mg/kg																				130		309		
Iron	820000	7000		mg/kg																				43700		51700		
Lead	800		280	mg/kg	3590		2410		314		1230		250		323		477		244		143			430		1370		
Magnesium				mg/kg																				8500		4280		
Manganese	26000	560		mg/kg																				356		168		
Nickel	22000	520		mg/kg																				20.7		27.8		
Potassium				mg/kg																				12200		3230		
Selenium	5800	10.4	5.2	mg/kg																				13.7		72.1		
Silver	5800	16		mg/kg																				1.92		5.51		
Sodium				mg/kg																				292		3610		
Thallium	12	0.28	2.8	mg/kg																				8.15		18.3	U	
Vanadium	5800	1720		mg/kg																				91.1		84.3		
Zinc	350000	7400		mg/kg																				254		789		
Mercury	46	0.66	2	mg/kg																				4.73		13.5		
Pesticides																												
4,4'-DDD	9.6	0.15		mg/kg	0.012		0.094		1.6		0.062		0.37		0.55		0.31		0.3		0.017			7.8	J	20	J-	
4,4'-DDE	9.3	0.22		mg/kg	0.0036	U	0.11		1.4		0.087		0.14		0.74		0.79		0.31		0.021			2		18	J-	
4,4'-DDT	8.5	1.54		mg/kg	0.096		0.5		4.5		0.25		0.85		1		1.1		0.5		0.063			14		0.047	J-	
Aldrin	0.18	0.003		mg/kg	0.05		0.034		0.096	U	0.0092	U	0.021	U	0.019	U	0.23		0.019	U	0.00097	U		0.0042	U	0.0064	UJ	
Alpha-BHC	0.36	0.00084		mg/kg	0.0036	U	0.0095	U	0.096	U	0.0017	J	0.021	U	0.019	U	0.017	U	0.019	U	0.00097	U		0.0069		0.0064	UJ	
Beta-BHC	1.3	0.003		mg/kg	0.0028	JPG	0.0095	U	0.096	U	0.0092	U	0.021	U	0.019	U	0.0056	J	0.017	U	0.00097	U		0.08		0.0064	UJ	
cis-Chlordane	500	9.8		mg/kg	0.0036	U	0.0095	U	0.096	U	0.0092	U	0.021	U	0.019	U	0.009	J	0.019	U	0.00097	U		0.0042	U	0.0064	UJ	
Delta-BHC				mg/kg	0.011		0.0062	JPG	0.096	U	0.0092	U	0.021	U	0.019	U	0.017	U	0.019	U	0.00097	U		0.021		0.0064	UJ	
Dieldrin	0.14	0.00142		mg/kg	0.0057		0.013		0.49		0.0092	U	0.0064	J	0.09		0.017	U	0.092		0.0044			0.0042	U	0.0064	UJ	
Endosulfan I				mg/kg	0.0012	JPG	0.0095	U	0.096	U	0.0092	U	0.021	U	0.019	U	0.017	U	0.019	U	0.00097	U		0.0042	U	0.0064	UJ	
Endosulfan II				mg/kg	0.0036	U	0.0095	U	0.096	U	0.0092	U	0.021	U	0.019	U	0.017	U	0.019	U	0.00097	U		0.0042	U	0.0064	UJ	
Endosulfan Sulfate	4900	42		mg/kg	0.0034	J	0.0038	JPG	0.096	U	0.0092	U	0.021	U	0.019	U	0.017	U	0.019	U	0.00023	J		0.0042	U	0.0064	UJ	
Endrin	250	1.84	1.62	mg/kg	0.0036	U	0.051		0.74		0.065		0.021	U	0.14		0.22		0.019	U	0.00097	U		0.0042	U	0.0064	UJ	
Endrin Aldehyde				mg/kg	0.0036	U	0.0095	U	0.096	U	0.0092	U	0.021	U	0.019	U	0.017	U	0.019	U	0.00097	U		0.0042	U	0.0064	UJ	
Endrin Ketone				mg/kg	0.0036	U	0.0091	JPG	0.096	U	0.0092	U	0.021	U	0.019	J	0.0097	J	0.019	U	0.00054	J		0.0042	U	0.0064	UJ	
Gamma-BHC (Lindane)	2.5	0.0048	0.024	mg/kg	0.0064		0.0038	JPG	0.096	U	0.0092	U	0.021	U	0.0063	J	0.017	U	0.019	U	0.0004	J		0.03	J	0.0064	UJ	
Heptachlor	0.63	0.0024	0.66	mg/kg	0.014		0.0095	U	0.096	U	0.0092	U	0.021	U	0.019	U	0.061	J	0.019	U	0.00097	U		0.0042	U	0.0064	UJ	
Heptachlor Epoxide	0.33	0.00056	0.082	mg/kg	0.027		0.0095	U	0.096	U	0.0092	U	0.021	U	0.019	U	0.28		0.019	U	0.00097	U		0.0042	U	0.0064	UJ	
Methoxychlor	4100	40	44	mg/kg	0.0072	U	0.019	U	0.19	U	0.018	U	0.043	U	0.038	U	0.034	U	0.038	U	0.0019	U		0.0082	U	0.012	UJ	
Toxaphene	2.1	0.22	9.2	mg/kg	0.14	U	0.38	U	3.8	U	0.37	U	0.86	U	0.77	U	0.69	U	0.76	U	0.039	U		0.11	U	0.16	UJ	
trans-Chlordane	500	28		mg/kg	0.046		0.039		0.036		0.0092	U	0.021	U	0.016	J	0.18	J	0.033		0.00097	U		0.0042	U	0.0064	UJ	
Volatile Organic Compounds																												
1,1,1-Trichloroethane	36000	56	1.4	mg/kg																				0.006	U	10	U	
1,1,2,2-Tetrachloroethane	2.7	0.0006		mg/kg																				0.006	U	10	U	
1,1,2-Trichloro-1,2,2-Trifluoroethane	28000	520		mg/kg																				0.012	U	21	U	
1,1,2-Trichloroethane	5	0.00178	0.032	mg/kg																				0.006	U	10	U	
1,1-Dichloroethane	16	0.0156		mg/kg																				0.006	U	10	U	
1,1-Dichloroethene	1000	2	0.05	mg/kg																				0.006	U	10	U	
1,2,3-Trichlorobenzene	930	0.42		mg/kg																				0.012	U	21	U	
1,2,4-Trichlorobenzene	110	0.068		mg/kg																				0.012	U	21	UJ	
1,2-Dibromo-3-Chloropropane	0.064	0.000028	0.00172	mg/kg																				0.006	U	10	UJ	
1,2-Dibromoethane	0.16	0.000042	0.00028	mg/kg																				0.006	U	10	U	
1,2-Dichlorobenzene	9300	6	11.6	mg/kg																				0.001	J	10	U	
1,2-Dichloroethane																												

Table 1. SWMU 9 Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	SP-20 SP-20 7/8/10 7/8/2010		SP-21 SP-21 7/8/10 7/8/2010		SP-3 SP-3 7/7/10 7/7/2010		SP-4 SP-4 7/7/10 7/7/2010		SP-5 SP-5 7/7/10 7/7/2010		SP-6 SP-6 7/7/10 7/7/2010		SP-7 SP-7 7/7/10 7/7/2010		SP-8 SP-8 7/7/10 7/7/2010		SP-9 SP-9 7/7/10 7/7/2010		B-1 SBB1100119-01 10/1/2019		B-1 SBB1100119-1416 10/1/2019			
					Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
2-Butanone	190000	24		mg/kg																				0.006	J	21	U	
2-Hexanone	1300	0.176		mg/kg																				0.012	U	21	U	
4-Methyl-2-Pentanone	140000	28		mg/kg																				0.012	U	21	U	
Acetone	1100000	74		mg/kg																				0.064		41	U	
Benzene	5.1	0.0046	0.052	mg/kg																				0.004	J	10	U	
Bromochloromethane	630	0.42		mg/kg																				0.006	U	10	U	
Bromodichloromethane	1.3	0.00072	0.44	mg/kg																				0.006	U	10	U	
Bromoform	86	0.0174	0.42	mg/kg																				0.012	U	21	U	
Bromomethane	30	0.038		mg/kg																				0.006	U	10	U	
Carbon Disulfide	3500	4.8		mg/kg																				0.002	J	10	U	
Carbon Tetrachloride	2.9	0.0036	0.038	mg/kg																				0.006	U	10	U	
Chlorobenzene	1300	1.06	1.36	mg/kg																				0.015		1.7	J	
Chloroethane	23000	48		mg/kg																				0.006	U	10	U	
Chloroform	1.4	0.00122	0.44	mg/kg																				0.003	J	10	U	
Chloromethane	460	0.98		mg/kg																				0.006	U	10	U	
cis-1,2-Dichloroethene	2300	0.22	0.42	mg/kg																				0.0007	J	10	U	
cis-1,3-Dichloropropene				mg/kg																				0.006	U	10	U	
Cyclohexane	27000	260		mg/kg																				0.006	U	10	U	
Dibromochloromethane	39	0.0046	0.42	mg/kg																				0.006	U	10	U	
Dichlorodifluoromethane	370	6		mg/kg																				0.006	U	10	UJ	
Ethylbenzene	25	0.034	15.6	mg/kg																				0.006	U	10	U	
Isopropylbenzene	9900	14.8		mg/kg																				0.006	U	10	U	
m&p-Xylenes				mg/kg																				0.006	U	10	U	
Methyl Acetate	1200000	82		mg/kg																				0.006	U	10	U	
Methyl Tert-Butyl Ether	210	0.064		mg/kg																				0.006	U	10	U	
Methylcyclohexane				mg/kg																				0.006	U	10	U	
Methylene Chloride	1000	0.058	0.026	mg/kg																				0.006	U	10	U	
o-Xylene	2800	3.8		mg/kg																				0.006	U	10	U	
Styrene	35000	26	2.2	mg/kg																				0.006	U	10	U	
Tetrachloroethene	100	0.102	0.046	mg/kg																				0.01		10	U	
Toluene	47000	15.2	13.8	mg/kg																				0.001	J	10	U	
Total Xylenes	2500	3.8	198	mg/kg																				0.012	U	21	U	
trans-1,2-Dichloroethene	300	0.42	0.62	mg/kg																				0.006	U	10	U	
trans-1,3-Dichloropropene				mg/kg																				0.006	U	10	U	
Trichloroethene	6	0.0036	0.036	mg/kg																				0.003	J	10	U	
Trichlorofluoromethane	350000	66		mg/kg																				0.006	U	10	UJ	
Vinyl Chloride	1.7	0.00013	0.0138	mg/kg																				0.006	U	10	U	
Semi-Volatile Organic Compounds																												
1,1'-Biphenyl	200	0.174		mg/kg																					0.21	U	0.31	U
1,2,4,5-Tetrachlorobenzene	35	0.0158		mg/kg																				0.21	U	0.53		
2,3,4,6-Tetrachlorophenol	25000	3.6		mg/kg																				0.93	U	1.4	U	
2,4,5-Trichlorophenol	82000	80		mg/kg																				0.37	U	0.56	U	
2,4,6-Trichlorophenol	210	0.08		mg/kg																				0.32	U	0.48	U	
2,4-Dichlorophenol	2500	0.46		mg/kg																				0.24	U	0.37	U	
2,4-Dimethylphenol	16000	8.4		mg/kg																				0.37	U	0.56	U	
2,4-Dinitrophenol	1600	0.88		mg/kg																				5.6	U	8.5	U	
2,4-Dinitrotoluene	7.4	0.0064		mg/kg																				0.93	U	1.4	U	
2,6-Dinitrotoluene	1.5	0.00134		mg/kg																				0.28	U	0.42	U	
2-Chloronaphthalene	60000	78		mg/kg																				0.19	U	0.28	U	
2-Chlorophenol	5800	1.78		mg/kg																				0.21	U	0.31	U	
2-Methylnaphthalene	3000	3.8		mg/kg																				0.043	J	0.4		
2-Methylphenol	41000	15		mg/kg																				0.37	U	0.56	U	
2-Nitroaniline	8000	1.6		mg/kg																				0.28	U	0.42	U	
2-Nitrophenol				mg/kg																				0.32	U	0.48	U	
3,3'-Dichlorobenzidine	5.1	0.0164		mg/kg																				1.9	U	2.8	U	
3-Nitroaniline				mg/kg																				0.93	U	1.4	U	
4,6-Dinitro-2-Methylphenol	66	0.052		mg/kg																				2.8	U	4.2	U	
4-Bromophenyl Phenyl Ether				mg/kg																				0.28	U	0.42	U	
4-Chloro-3-Methylphenol	82000	34		mg/kg																				0.28	U	0.42	U	
4-Chloroaniline	11	0.0032		mg/kg																				0.93	U	1.4	U	
4-Chlorophenyl Phenyl Ether				mg/kg																				0.24	U	0.37	U	
4-Methylphenol	16000	6		mg/kg																				0.28	U	0.42	U	
4-Nitroaniline	110	0.032		mg/kg																				0.93	U	1.4	U	
4-Nitrophenol				mg/kg																				2.8	U	4.2	U	
Acenaphthene	45000	110		mg/kg																				0.18		0.14	U	

**Table 1. SWMU 9 Soil Analytical Results
RCRA Facility Investigation Report
Honeywell Delaware Valley Works
Claymont, Delaware
Wood Project No. 3482210786**

Parameter	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	SP-20 SP-20 7/8/10 7/8/2010		SP-21 SP-21 7/8/10 7/8/2010		SP-3 SP-3 7/7/10 7/7/2010		SP-4 SP-4 7/7/10 7/7/2010		SP-5 SP-5 7/7/10 7/7/2010		SP-6 SP-6 7/7/10 7/7/2010		SP-7 SP-7 7/7/10 7/7/2010		SP-8 SP-8 7/7/10 7/7/2010		SP-9 SP-9 7/7/10 7/7/2010		B-1 SBB1100119-01 10/1/2019		B-1 SBB1100119-1416 10/1/2019		
					Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result
Acenaphthylene				mg/kg																				0.065	J	0.14	U
Acetophenone	120000	11.6		mg/kg																				0.28	U	0.42	U
Anthracene	230000	1160		mg/kg																				0.31		0.17	
Atrazine	10	0.004	0.038	mg/kg																				2.4	U	3.7	U
Benzaldehyde	820	0.082		mg/kg																				0.93	U	1.4	U
Benzo(A)Anthracene	21	0.22		mg/kg																				0.93		0.2	
Benzo(A)Pyrene	2.1	0.58	4.8	mg/kg																				0.82		0.21	
Benzo(B)Fluoranthene	21	6		mg/kg																				1.3		0.27	
Benzo(G,H,I)perylene				mg/kg																				0.57		0.18	
Benzo(K)Fluoranthene	210	58		mg/kg																				0.44		0.083	J
bis-(2-Chloroethoxy)Methane	2500	0.26		mg/kg																				0.21	U	0.31	U
bis-(2-Chloroethyl)Ether	1	0.000072		mg/kg																				0.28	U	0.42	U
bis(2-Chloroisopropyl)Ether				mg/kg																				0.24	U	0.37	U
bis-(2-Ethylhexyl)Phthalate	160	26	28	mg/kg																				0.4	J	1.4	U
Butylbenzyl Phthalate	1200	4.8		mg/kg																				0.93	U	1.4	U
Caprolactam	400000	50		mg/kg																				0.93	U	1.4	U
Carbazole				mg/kg																				0.17	J	0.31	U
Chrysene	2100	180		mg/kg																				0.96		0.32	
Dibenz(a,h)Anthracene	2.1	1.92		mg/kg																				0.17		0.14	U
Dibenzofuran	1200	3		mg/kg																				0.1	J	0.31	U
Diethyl Phthalate	660000	122		mg/kg																				0.93	U	1.4	U
Dimethyl Phthalate				mg/kg																				0.93	U	1.4	U
Di-n-Butyl Phthalate	82000	46		mg/kg																				0.93	U	1.4	U
Di-n-Octyl Phthalate	8200	1140		mg/kg																				0.93	U	1.4	U
Fluoranthene	30000	1780		mg/kg																				2.1		0.43	
Fluorene	30000	108		mg/kg																				0.14		0.24	
Hexachlorobenzene	0.96	0.0024	0.26	mg/kg																				0.093	U	0.14	U
Hexachlorobutadiene	5.3	0.0054		mg/kg																				0.43	U	0.65	UJ
Hexachlorocyclopentadiene	7.5	0.026	3.2	mg/kg																				2.8	U	4.2	U
Hexachloroethane	8	0.004		mg/kg																				0.93	U	1.4	U
Indeno(1,2,3-Cd)Pyrene	21	19.6		mg/kg																				0.5		0.1	J
Isophorone	2400	0.52		mg/kg																				0.21	U	0.31	U
Naphthalene	8.6	0.0076		mg/kg																				0.099		0.15	J
Nitrobenzene	22	0.00184		mg/kg																				0.37	U	0.56	U
n-Nitroso-di-n-Propylamine	0.33	0.000162		mg/kg																				0.28	U	0.42	U
n-Nitrosodiphenylamine	470	1.34		mg/kg																				0.21	U	0.31	U
Pentachlorophenol	4	0.00114	0.028	mg/kg																				0.93	U	1.4	U
Phenanthrene				mg/kg																				1.4		0.3	
Phenol	250000	66		mg/kg																				0.21	U	0.31	U
Pyrene	23000	260		mg/kg																				1.6		0.61	

Notes:
Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), Industrial Soil Screening Level (SSL) (November 2021)
Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20
Exceeds the EPA RSL, Maximum Contaminant Level (MCL) SSL assuming a DAF of 20
Blanks indicate RSL not established or constituent not analyzed
RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0
U = undetected
J = estimated value
J+ = estimated biased high
J- = estimated biased low
R = rejected
MG/KG - milligram per kilogram
SWMU = Solid Waste Management Unit
RCRA = Resource Conservation and Recovery Act
Sample depth shown in Sample ID (e.g., SBBF3-04_6-8 indicates 6 to 8-foot sample)
DUP = Duplicate sample
Exceedances shown may exceed one or more criteria if available

Table 1. SWMU 9 Soil Analytical Results
RCRA Facility Investigation Report
Honeywell Delaware Valley Works
Claymont, Delaware
Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date				B-1 SBB1100119-68 10/1/2019		B-2 SBB2100119-01 10/1/2019		B-2 SBB2100119-1416 10/1/2019		B-2 SBB2100119-810 10/1/2019		B-3 SBB3100319-01 10/3/2019		B-3 SBB3100319-0810 10/3/2019		B-3 SBB3100319-1416 10/3/2019		B-3 FD100319 10/3/2019		B-4 SBB4100319-01 10/3/2019		B-4 SBB4100319-0608 10/3/2019		B-4 SBB4100319-1416 10/3/2019											
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual										
Metals																																				
Aluminum	1100000	600000		mg/kg	13000			58700			27800			5450			128000			477			42200			36700			7810			14200			29800	J
Antimony	470	7	5.4	mg/kg	3.48	J		5.21	U		23.2	J-		7.38	U		3.79	U		27.6	U		202			211			5.58	U		5.77	U		60	
Arsenic	3	0.03	5.8	mg/kg	146			48			1630			35.4			2.27	U		16.5	U		7280			8060			24.6			7.48			12200	
Barium	220000	3200	1640	mg/kg	179			87.6			671	J		99.8			11			321			2260	J		4000	J		25.9			28			6940	J
Beryllium	2300	380	64	mg/kg	0.316	J		0.324	J		0.865	J-		0.419	J		0.379	U		2.76	U		0.757			0.747			0.187	J		0.159	J		1.43	
Boron	230000	260		mg/kg																																
Cadmium	100	2.8	7.6	mg/kg	1.67			0.132	J		6.24			0.583	J		0.284	J		2.76	U		5.94			5.18			0.223	J		0.218	J		13.4	J
Calcium				mg/kg	35500			156000			47500	J		296000			4950			224000			13800			15400			263000			183000			17900	J
Chromium			3600000	mg/kg	42			61.8			155	J		33.1			8.27	J+		8.27	J+		73.6			73.6			8.36			75.7			126	J
Cobalt	350	5.4		mg/kg	67.9			24.3			32.3	J		10.1			1.76			1.72	J		8.13			5.33			2.58			2.11			7.9	
Copper	47000	560	920	mg/kg	333			118			465			75.8			10.8			4.42	J		641			550			13.8			12.6			686	
Iron	820000	7000		mg/kg	62100			24400			64100			12200			4620			1820			33700			29600			3100			4630			40000	
Lead	800		280	mg/kg	487			173			1950	J		68.7			18.2			71.1			18500			14200			29.7			27.5			4570	
Magnesium				mg/kg	4940			12000			4780			11300			656			24.4	J		2650			2280			129			204			5080	J
Manganese	26000	560		mg/kg	166			74.9			202	J		74			28.5			8.67			278			256			49.9			25.6			368	J
Nickel	22000	520		mg/kg	23.3			9.39			29.5	J		11.2			2.87			5.51	U		25.3			25.3			2.82			2.71			31.2	J
Potassium				mg/kg	2280			750			3720			990			139			81.3			1900			2010			128			208			3760	
Selenium	5800	10.4	5.2	mg/kg	11.1			10.3			116			8.4	U		3.79	U		27.6	U		300			227			2.98	J		4.49	J		48.7	
Silver	5800	16		mg/kg	2.65			2.04			9.03	J-		1.48	U		0.758	U		5.51	U		10.1			8.08			1.12	U		1.15	U		4.54	
Sodium				mg/kg	441			305			11900			6590			75.8	U		551	J+		11200			12500			155			397			4470	J
Thallium	12	0.28	2.8	mg/kg	2.41	U		3.13	U		4.76	J-		4.43	U		2.27	U		16.5	U		4.21	UJ		14.8	J		3.35	U		3.46	U		14.7	J-
Vanadium	5800	1720		mg/kg	38.7			44.5			65	J		13.7			67.1			5.51	U		78			73.7			4.89			10.4			72.9	J
Zinc	350000	7400		mg/kg	519			178			918	J		113			21.5			18.3			420			477			33.9			41.1			1370	J
Mercury	46	0.66	2	mg/kg	1.51			1.05			29.4			0.739			0.21			0.449			152			140			2.48			2.19			72.7	
Pesticides																																				
4,4'-DDD	9.6	0.15		mg/kg	10	J		1.6	J		4.7	J		2.1	J		0.047			0.61			0.2	J		0.24			0.047			0.55			0.0061	UJ
4,4'-DDE	9.3	0.22		mg/kg	2.4			1.3			1.5			1			0.037			0.077	J		0.17	J		0.44	J		0.055			0.57			0.0061	UJ
4,4'-DDT	8.5	1.54		mg/kg	5.1			3.3			0.95			1.5			0.067			1			0.0056	U		0.0056	U		0.025			0.54			0.0061	UJ
Aldrin	0.18	0.003		mg/kg	0.0038	U		0.0039	U		0.0056	U		0.0045	U		0.00073	U		0.00079	U		0.0056	U		0.0056	U		0.0008	U		0.038	U		0.0061	UJ
Alpha-BHC	0.36	0.0084		mg/kg	0.026			0.008	J		0.0071	J-		0.0025	J		0.00073	U		0.0081			0.0056	U		0.0056	U		0.0021			0.038			0.0061	UJ
Beta-BHC	1.3	0.003		mg/kg	0.0038	U		0.0039	U		0.0056	U		0.0045	U		0.00073	U		0.00079	U		0.0056	U		0.0056	U		0.0008	U		0.045	U		0.0061	UJ
cis-Chlordane	500	9.8		mg/kg	0.0038	U		0.0039	U		0.0056	U		0.0045	U		0.00073	U		0.00079	U		0.0056	U		0.0056	U		0.0008	U		0.038	U		0.0061	UJ
Delta-BHC				mg/kg	0.0064			0.0039	U		0.0056	U		0.013	J		0.00073	U		0.002			0.0056	U		0.0056	U		0.0008	U		0.045	U		0.0061	UJ
Dieldrin	0.14	0.00142		mg/kg	0.0038	U		0.0039	U		0.0056	U		0.0045	U		0.00073	U		0.00079	U		0.0056	U		0.0056	U		0.0008	U		0.077	U		0.0061	UJ
Endosulfan I				mg/kg	0.0038	U		0.0039	U		0.0056	U		0.0045	U		0.00073	U		0.00079	U		0.0056	U		0.0056	U		0.0008	U		0.038	U		0.0061	UJ
Endosulfan II				mg/kg	0.0038	U		0.0039	U		0.0056	U		0.0045	U		0.00073	U		0.00079	U		0.0056	U		0.0056	U		0.0008	U		0.1	U		0.0061	UJ
Endosulfan Sulfate	4900	42		mg/kg	0.0038	U		0.0039	U		0.0056	UJ		0.0045	U		0.00073	U		0.00079	U		0.0056	U		0.0056	U		0.0008	U		0.077	U		0.0061	UJ
Endrin	250	1.84	1.62	mg/kg	0.0038	U		0.0039	U		0.0056	UJ		0.0045	U		0.00073	U		0.00079	U		0.0056	U		0.0056	U		0.0008	U		0.077	U		0.0061	UJ
Endrin Aldehyde				mg/kg	0.0038	U		0.0039	U		0.0056	UJ		0.0045	U		0.00073	U		0.00079	U		0.0056	U		0.0056	U		0.0008	U		0.077	U		0.0061	UJ
Endrin Ketone				mg/kg	0.0038	U		0.0039	U		0.0056	U		0.0045	U		0.00073	U		0.00079	U		0.0056	U		0.0056	U		0.0008	U		0.091	U		0.0061	UJ
Gamma-BHC (Lindane)	2.5	0.0048	0.024	mg/kg	0.0038	U		0.0039	U		0.0056	UJ		0.0045	U		0.00073	U		0.00079	U		0.0056	U		0.0056	U		0.0008	U		0.013	J		0.0061	UJ
Heptachlor	0.63	0.0024	0.66	mg/kg	0.0038	U		0.0039	U		0.0056	U		0.0045	U		0.00073	U		0.00079	U		0.0056	U		0.0056	U		0.0008	U		0.038	U		0.0061	UJ
Heptachlor Epoxide	0.33	0.00056	0.082	mg/kg	0.0038	U		0.0039	U		0.0056	UJ		0.0045																						

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Parameter	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	B-1 SBB1100119-68 10/1/2019		B-2 SBB2100119-01 10/1/2019		B-2 SBB2100119-1416 10/1/2019		B-2 SBB2100119-810 10/1/2019		B-3 SBB3100319-01 10/3/2019		B-3 SBB3100319-0810 10/3/2019		B-3 SBB3100319-1416 10/3/2019		B-3 FD100319 10/3/2019		B-4 SBB4100319-01 10/3/2019		B-4 SBB4100319-0608 10/3/2019		B-4 SBB4100319-1416 10/3/2019		
					Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result
2-Butanone	190000	24		mg/kg	0.006	J	0.008	J	39	U	0.006	J	0.011	J	0.014	U	18	U	0.014	U	0.012	U	0.007	J	10	U	
2-Hexanone	1300	0.176		mg/kg	0.007	U	0.012	U	39	U	0.017	U	0.011	U	0.014	U	18	U	0.014	U	0.012	U	0.012	U	10	U	
4-Methyl-2-Pentanone	140000	28		mg/kg	0.007	U	0.012	U	39	U	0.017	U	0.011	U	0.014	U	18	U	0.014	U	0.012	U	0.012	U	10	U	
Acetone	1100000	74		mg/kg	0.042		0.07	J	77	U	0.043		0.15		0.01	J	35	U	0.1		0.009	J	0.058		20	U	
Benzene	5.1	0.0046	0.052	mg/kg	0.003	J	0.006	U	19	U	0.001	J	0.0008	J	0.007	U	8.8	U	0.015		0.006	U	0.006	U	5.1	U	
Bromochloromethane	630	0.42		mg/kg	0.004	U	0.006	U	19	U	0.009	U	0.005	U	0.007	U	8.8	U	0.007	U	0.006	U	0.006	U	5.1	U	
Bromodichloromethane	1.3	0.00072	0.44	mg/kg	0.004	U	0.006	U	19	U	0.009	U	0.005	U	0.007	U	8.8	U	0.007	U	0.006	U	0.006	U	5.1	U	
Bromoform	86	0.0174	0.42	mg/kg	0.007	U	0.012	U	39	U	0.017	U	0.011	U	0.014	U	18	U	0.014	U	0.012	U	0.012	U	10	U	
Bromomethane	30	0.038		mg/kg	0.004	U	0.006	U	19	U	0.009	U	0.005	UJ	0.007	UJ	8.8	U	0.007	UJ	0.006	UJ	0.006	UJ	5.1	U	
Carbon Disulfide	3500	4.8		mg/kg	0.011		0.004	J	19	U	0.011		0.0009	J	0.001	J	8.8	U	0.002	J	0.006	U	0.001	J	5.1	U	
Carbon Tetrachloride	2.9	0.0036	0.038	mg/kg	0.004	U	0.006	U	19	U	0.009	U	0.005	U	0.007	U	8.8	U	0.007	U	0.006	U	0.006	U	5.1	U	
Chlorobenzene	1300	1.06	1.36	mg/kg	0.065		0.004	J	19	U	0.005	J	0.005	J	0.0008	J	8.8	U	0.007	U	0.006	U	0.006	U	5.1	U	
Chloroethane	23000	48		mg/kg	0.004	U	0.006	U	19	U	0.009	U	0.005	UJ	0.007	UJ	8.8	U	0.007	UJ	0.006	UJ	0.006	UJ	5.1	U	
Chloroform	1.4	0.00122	0.44	mg/kg	0.0008	J	0.006	U	19	U	0.009	U	0.005	U	0.007	U	8.8	U	0.007	U	0.006	U	0.006	U	5.1	U	
Chloromethane	460	0.98		mg/kg	0.004	U	0.006	U	19	U	0.009	U	0.005	UJ	0.007	UJ	8.8	U	0.007	UJ	0.006	UJ	0.006	UJ	5.1	U	
cis-1,2-Dichloroethene	2300	0.22	0.42	mg/kg	0.01		0.006	U	19	U	0.009	U	0.005	U	0.007	U	8.8	U	0.007	U	0.006	U	0.006	U	5.1	U	
cis-1,3-Dichloropropene				mg/kg	0.004	U	0.006	U	19	U	0.009	U	0.005	U	0.007	U	8.8	U	0.007	U	0.006	U	0.006	U	5.1	U	
Cyclohexane	27000	260		mg/kg	0.004	U	0.006	U	19	U	0.009	U	0.005	U	0.007	U	8.8	U	0.51	J	0.006	U	0.004	J	5.1	U	
Dibromochloromethane	39	0.0046	0.42	mg/kg	0.004	U	0.006	U	19	U	0.009	U	0.005	U	0.007	U	8.8	U	0.007	U	0.006	U	0.006	U	5.1	U	
Dichlorodifluoromethane	370	6		mg/kg	0.004	U	0.006	UJ	19	UJ	0.009	U	0.005	UJ	0.007	UJ	8.8	UJ	0.007	UJ	0.006	UJ	0.006	UJ	5.1	UJ	
Ethylbenzene	25	0.034	15.6	mg/kg	0.0007	J	0.006	U	19	U	0.0008	J	0.005	U	0.007	U	8.8	U	0.058		0.006	U	0.006	U	5.1	U	
Isopropylbenzene	9900	14.8		mg/kg	0.0005	J	0.006	U	19	U	0.002	J	0.005	U	0.007	U	8.8	U	0.069		0.006	U	0.0005	J	5.1	U	
m&p-Xylenes				mg/kg	0.001	J	0.006	U	19	U	0.002	J	0.005	U	0.007	U	8.8	U	0.13		0.006	U	0.001	J	5.1	U	
Methyl Acetate	1200000	82		mg/kg	0.039		0.006	U	19	U	0.009	U	0.005	U	0.007	U	8.8	U	0.007	U	0.006	U	0.046		5.1	U	
Methyl Tert-Butyl Ether	210	0.064		mg/kg	0.004	U	0.006	U	19	U	0.009	U	0.005	U	0.007	U	8.8	U	0.007	U	0.006	U	0.006	U	5.1	U	
Methylcyclohexane				mg/kg	0.007		0.006	J	5.4	J	0.019		0.0007	J	0.007	U	8.8	U	1.1	J	0.002	J	0.017		5.1	U	
Methylene Chloride	1000	0.058	0.026	mg/kg	0.004	U	0.006	U	19	U	0.009	U	0.005	U	0.007	U	8.8	U	0.007	U	0.006	U	0.006	U	5.1	U	
o-Xylene	2800	3.8		mg/kg	0.001	J	0.006	U	1.8	J	0.0008	J	0.005	U	0.007	U	8.8	U	0.11		0.006	U	0.0007	J	5.1	U	
Styrene	35000	26	2.2	mg/kg	0.004	U	0.006	U	19	U	0.009	U	0.005	U	0.007	U	8.8	U	0.007	U	0.006	U	0.006	U	5.1	U	
Tetrachloroethene	100	0.102	0.046	mg/kg	0.0006	J	0.006	U	19	U	0.009	U	0.005	U	0.007	U	8.8	U	0.007	U	0.006	U	0.006	U	5.1	U	
Toluene	47000	15.2	13.8	mg/kg	0.002	J	0.002	J	19	U	0.002	J	0.005	U	0.007	U	8.8	U	0.052		0.006	U	0.006	U	5.1	U	
Total Xylenes	2500	3.8	198	mg/kg	0.002	J	0.012	U	39	U	0.003	J	0.011	U	0.014	U	18	U	0.24		0.012	U	0.002	J	10	U	
trans-1,2-Dichloroethene	300	0.42	0.62	mg/kg	0.002	J	0.006	U	19	U	0.009	U	0.005	U	0.007	U	8.8	U	0.007	U	0.006	U	0.006	U	5.1	U	
trans-1,3-Dichloropropene				mg/kg	0.004	U	0.006	U	19	U	0.009	U	0.005	U	0.007	U	8.8	U	0.007	U	0.006	U	0.006	U	5.1	U	
Trichloroethene	6	0.0036	0.036	mg/kg	0.005		0.006	U	19	U	0.009	U	0.005	U	0.007	U	8.8	U	0.007	U	0.006	U	0.006	U	5.1	U	
Trichlorofluoromethane	350000	66		mg/kg	0.004	U	0.006	UJ	19	UJ	0.009	U	0.005	U	0.007	U	8.8	UJ	0.007	U	0.006	U	0.006	U	5.1	UJ	
Vinyl Chloride	1.7	0.00013	0.0138	mg/kg	0.001	J	0.006	U	19	U	0.009	U	0.005	UJ	0.007	UJ	8.8	U	0.007	UJ	0.006	UJ	0.006	UJ	5.1	U	
Semi-Volatile Organic Compounds																											
1,1'-Biphenyl	200	0.174		mg/kg	0.21	U	0.22	U	1.1		0.31	U	0.2	U	0.047	U	0.29	U	0.3	U	0.043	U	0.22	U	0.72		
1,2,4,5-Tetrachlorobenzene	35	0.0158		mg/kg	0.21	U	0.22	U	0.34	U	0.31	U	0.2	U	0.047	U	0.29	U	0.3	U	0.043	U	0.22	U	0.34	U	
2,3,4,6-Tetrachlorophenol	25000	3.6		mg/kg	0.93	U	0.99	U	1.6	U	1.4	U	0.92	U	0.21	U	1.3	U	1.4	U	0.19	U	0.98	U	1.6	U	
2,4,5-Trichlorophenol	82000	80		mg/kg	0.37	U	0.39	U	0.62	U	0.57	U	0.37	U	0.085	U	0.54	U	0.55	U	0.078	U	0.39	U	0.63	U	
2,4,6-Trichlorophenol	210	0.08		mg/kg	0.32	U	0.34	U	0.53	U	0.49	U	0.31	U	0.072	U	0.45	U	0.47	U	0.066	U	0.33	U	0.53	U	
2,4-Dichlorophenol	2500	0.46		mg/kg	0.24	U	0.26	U	0.4	U	0.37	U	0.24	U	0.055	U	0.35	U	0.36	U	0.051	U	0.25	U	0.41	U	
2,4-Dimethylphenol	16000	8.4		mg/kg	0.37	U	0.39	U	0.62	U	0.57	U	0.37	UJ	0.085	UJ	0.54	UJ	0.55	UJ	0.078	UJ	0.39	UJ	0.63	UJ	
2,4-Dinitrophenol	1600	0.88		mg/kg	5.6	U	5.9	U	9.3	U	8.6	U	5.5	U	1.3	U	8	U	8.3	U	1.2	U	5.9	U	9.4	U	
2,4-Dinitrotoluene	7.4	0.0064		mg/kg	0.93	U	0.99	U	1.6	U	1.4	U	0.92	U	0.21	U	1.3	U	1.4	U	0.19	U	0.98	U	1.6	U	
2,6-Dinitrotoluene	1.5	0.00134		mg/kg	0.28	U	0.3	U	0.47	U	0.43	U	0.28	U	0.064	U	0.4	U	0.41	U	0.058	U	0.29	U	0.47	U	
2-Chloronaphthalene	60000	78		mg/kg	0.19	U	0.2	U	0.31	U	0.29	U	0.18	U	0.043	U	0.27	U	0.28	U	0.039	U	0.2	U	0.31	U	
2-Chlorophenol	5800	1.78		mg/kg	0.21	U	0.22	U	0.34	U	0.31	U	0.2	U	0.047	U	0.29	U	0.3	U	0.043	U	0.22	U	0.34	U	
2-Methylnaphthalene	3000	3.8		mg/kg	0.042	J	0.037	J	1.2		0.065	J	0.18	U	0.007	J	0.53		0.42		0.021	J	0.033	J	1.9		
2-Methylphenol	41000	15		mg/kg	0.37	U	0.39	U	0.62	U	0.57	U	0.37	U	0.085	U	0.54	U	0.55	U	0.078	U	0.39	U	0.63	U	
2-Nitroaniline	8000	1.6		mg/kg	0.28	U	0.3	U	0.47	U	0.43	U	0.28	U	0.064	U	0.4	U	0.41	U	0.058	U	0.29	U	0.47	U	
2-Nitrophenol				mg/kg	0.32	U	0.34	U	0.53	U	0.49	U	0.31	U	0.072	U	0.45	U	0.47	U	0.066	U	0.33	U	0.53	U	
3,3'-Dichlorobenzidine	5.1	0.0164		mg/kg	1.9	U	2	U	3.1	U	2.9	U	1.8	U	0.43	U	2.7	U	2.8	U	0.39	U	2	U	3.1	U	
3-Nitroaniline				mg/kg	0.93	U	0.99	U	1.6	U	1.4	U	0.92</														

**Table 1. SWMU 9 Soil Analytical Results
RCRA Facility Investigation Report
Honeywell Delaware Valley Works
Claymont, Delaware
Wood Project No. 3482210786**

Parameter	Location Sample ID Sample Date				B-1 SBB1100119-68 10/1/2019		B-2 SBB2100119-01 10/1/2019		B-2 SBB2100119-1416 10/1/2019		B-2 SBB2100119-810 10/1/2019		B-3 SBB3100319-01 10/3/2019		B-3 SBB3100319-0810 10/3/2019		B-3 SBB3100319-1416 10/3/2019		B-3 FD100319 10/3/2019		B-4 SBB4100319-01 10/3/2019		B-4 SBB4100319-0608 10/3/2019		B-4 SBB4100319-1416 10/3/2019	
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Acenaphthylene			mg/kg	0.058	J	0.099	U	0.16	U	0.066	J	0.092	U	0.021	U	0.13	J	0.14	U	0.019	U	0.098	U	0.16	U	
Acetophenone	120000	11.6	mg/kg	0.28	U	0.3	U	0.47	U	0.43	U	0.28	U	0.064	U	0.4	U	0.41	U	0.058	U	0.29	U	0.47	U	
Anthracene	230000	1160	mg/kg	0.3		0.055	J	1.6		0.12	J	0.092	U	0.021	U	0.23		0.14	J	0.013	J	0.098	U	1.1		
Atrazine	10	0.004	0.038 mg/kg	2.4	U	2.6	U	4	U	3.7	U	2.4	U	0.55	U	3.5	U	3.6	U	0.51	U	2.5	U	4.1	U	
Benzaldehyde	820	0.082	mg/kg	0.93	U	0.99	U	1.6	U	1.4	U	0.92	U	0.21	U	1.3	U	1.4	U	0.19	U	0.98	U	1.6	U	
Benzo(A)Anthracene	21	0.22	mg/kg	1.2		0.16		1.5		0.16		0.092	U	0.011	J	0.34		0.21		0.022		0.065	J	1.7		
Benzo(A)Pyrene	2.1	0.58	4.8 mg/kg	0.97		0.15		2.1		0.16		0.053	J	0.021	U	0.21		0.095	J	0.021		0.087	J	2.7		
Benzo(B)Fluoranthene	21	6	mg/kg	1.5		0.26		1		0.19		0.049	J	0.012	J	0.34		0.13	J	0.028		0.074	J	1.2		
Benzo(G,H,I)perylene			mg/kg	0.67		0.14		2.9		0.13	J	0.038	J	0.021	U	0.13	J	0.076	J	0.017	J	0.098	U	3.4		
Benzo(K)Fluoranthene	210	58	mg/kg	0.59		0.095	J	0.24		0.1	J	0.092	U	0.008	J	0.13	J	0.072	J	0.015	J	0.098	U	0.31		
bis-(2-Chloroethoxy)Methane	2500	0.26	mg/kg	0.21	U	0.22	U	0.34	U	0.31	U	0.2	U	0.047	U	0.29	U	0.3	U	0.043	U	0.22	U	0.34	U	
bis-(2-Chloroethyl)Ether	1	0.000072	mg/kg	0.28	U	0.3	U	0.47	U	0.43	U	0.28	U	0.064	U	0.4	U	0.41	U	0.058	U	0.29	U	0.47	U	
bis(2-Chloroisopropyl)Ether			mg/kg	0.24	U	0.26	U	0.4	U	0.37	U	0.24	U	0.055	U	0.35	U	0.36	U	0.051	U	0.25	U	0.41	U	
bis-(2-Ethylhexyl)Phthalate	160	26	28 mg/kg	0.93	U	0.99	U	1.6	U	1.4	U	0.92	U	0.21	U	1.3	U	1.4	U	0.19	U	0.98	U	1.6	U	
Butylbenzyl Phthalate	1200	4.8	mg/kg	0.93	U	0.99	U	1.6	U	1.4	U	0.92	U	0.21	U	1.3	U	1.4	U	0.19	U	0.98	U	1.6	U	
Caprolactam	400000	50	mg/kg	0.93	U	0.99	U	1.6	U	1.4	U	0.92	U	0.21	U	1.3	U	1.4	U	0.19	U	0.98	U	1.6	U	
Carbazole			mg/kg	0.11	J	0.22	U	0.34	U	0.31	U	0.2	U	0.047	U	0.29	U	0.3	U	0.043	U	0.22	U	0.34	U	
Chrysene	2100	180	mg/kg	1.4		0.2		2.8		0.26		0.046	J	0.014	J	0.38		0.19		0.02		0.078	J	3.6		
Dibenzo(a,h)Anthracene	2.1	1.92	mg/kg	0.13		0.099	U	0.16	U	0.14	U	0.092	U	0.021	U	0.13	U	0.14	U	0.019	U	0.098	U	0.53		
Dibenzofuran	1200	3	mg/kg	0.21	U	0.22	U	1	U	0.31	U	0.2	U	0.047	U	0.29	U	0.3	U	0.043	U	0.22	U	0.99		
Diethyl Phthalate	660000	122	mg/kg	0.93	U	0.99	U	1.6	U	1.4	U	0.92	U	0.21	U	1.3	U	1.4	U	0.19	U	0.98	U	1.6	U	
Dimethyl Phthalate			mg/kg	0.93	U	0.99	U	1.6	U	1.4	U	0.92	U	0.21	U	1.3	U	1.4	U	0.19	U	0.98	U	1.6	U	
Di-n-Butyl Phthalate	82000	46	mg/kg	0.93	U	0.99	U	1.6	U	1.4	U	0.92	U	0.21	U	1.3	U	1.4	U	0.19	U	0.98	U	1.6	U	
Di-n-Octyl Phthalate	8200	1140	mg/kg	0.93	U	0.99	U	1.6	U	1.4	U	0.92	U	0.21	U	1.3	U	1.4	U	0.19	U	0.98	U	1.6	U	
Fluoranthene	30000	1780	mg/kg	2.6		0.26		1.9		0.34		0.047	J	0.016	J	0.58		0.34		0.047		0.13		1.9		
Fluorene	30000	108	mg/kg	0.11		0.099	U	3.4		0.062	J	0.092	U	0.005	J	0.39		0.15		0.012	J	0.098	U	3.4		
Hexachlorobenzene	0.96	0.0024	0.26 mg/kg	0.093	U	0.099	U	0.16	U	0.14	U	0.092	U	0.021	U	0.13	U	0.14	U	0.019	U	0.098	U	0.16	U	
Hexachlorobutadiene	5.3	0.0054	mg/kg	0.43	U	0.45	UJ	0.71	UJ	0.66	U	0.42	U	0.098	U	0.62	U	0.63	U	0.09	U	0.45	U	0.72	U	
Hexachlorocyclopentadiene	7.5	0.026	3.2 mg/kg	2.8	U	3	U	4.7	U	4.3	U	2.8	U	0.64	U	4	U	4.1	U	0.58	U	2.9	U	4.7	U	
Hexachloroethane	8	0.004	mg/kg	0.93	U	0.99	U	1.6	U	1.4	U	0.92	U	0.21	U	1.3	U	1.4	U	0.19	U	0.98	U	1.6	U	
Indeno(1,2,3-Cd)Pyrene	21	19.6	mg/kg	0.57		0.1		0.53		0.095	J	0.028	J	0.021	U	0.12	J	0.058	J	0.011	J	0.098	U	0.63		
Isophorone	2400	0.52	mg/kg	0.21	U	0.22	U	0.34	U	0.31	U	0.2	U	0.047	U	0.29	U	0.3	U	0.043	U	0.22	U	0.34	U	
Naphthalene	8.6	0.0076	mg/kg	0.068	J	0.099	UJ	0.16	UJ	0.096	J	0.092	U	0.021	U	0.32		0.32		0.019	U	0.098	U	3.1		
Nitrobenzene	22	0.00184	mg/kg	0.37	U	0.39	U	0.62	U	0.57	U	0.37	U	0.085	U	0.54	U	0.55	U	0.078	U	0.39	U	0.63	U	
n-Nitroso-di-n-Propylamine	0.33	0.000162	mg/kg	0.28	U	0.3	U	0.47	U	0.43	U	0.28	U	0.064	U	0.4	U	0.41	U	0.058	U	0.29	U	0.47	U	
n-Nitrosodiphenylamine	470	1.34	mg/kg	0.21	U	0.22	U	0.34	U	0.31	U	0.2	U	0.047	U	0.33		0.3	U	0.043	U	0.22	U	0.34	U	
Pentachlorophenol	4	0.00114	0.028 mg/kg	0.93	U	0.99	U	1.6	U	1.4	U	0.92	U	0.21	U	1.3	U	1.4	U	0.19	U	0.98	U	1.6	U	
Phenanthrene			mg/kg	0.71		0.16		9.2		0.21		0.031	J	0.01	J	1	J	0.56	J	0.051		0.1		9.9		
Phenol	250000	66	mg/kg	0.21	U	0.22	U	0.34	U	0.31	U	0.2	U	0.047	U	0.29	U	0.3	U	0.043	U	0.22	U	0.34	U	
Pyrene	23000	260	mg/kg	2.3		0.26		5.4		0.38		0.059	J	0.016	J	0.55		0.33		0.045		0.14		5.8		

Notes:
Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), Industrial Soil Screening Level (SSL) (November 2021)
Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20
Exceeds the EPA RSL, Maximum Contaminant Level (MCL) SSL assuming a DAF of 20
Blanks indicate RSL not established or constituent not analyzed
RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0
U = undetected
J = estimated value
J+ = estimated biased high
J- = estimated biased low
R = rejected
MG/KG - milligram per kilogram
SWMU = Solid Waste Management Unit
RCRA = Resource Conservation and Recovery Act
Sample depth shown in Sample ID (e.g., SBBF3-04_6-8 indicates 6 to 8-foot sample)
DUP = Duplicate sample
Exceedances shown may exceed one or more criteria if available

Table 1. SWMU 9 Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date				MW-123S SBMW123S-01 10/1/2019		MW-123S SBMW123S-1012 10/1/2019		MW-123S SBMW123S-1416 10/1/2019		MW-123S FD10011901 10/1/2019		MW-124S SBMW124S-01 9/30/2019		MW-124S SBMW124S-1012 9/30/2019		MW-124S SBMW124S-1416 9/30/2019		
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	
Metals																			
Aluminum	1100000	600000		mg/kg	29600			14300			J	13100	J	12300			2700		27800
Antimony	470	7	5.4	mg/kg	3.62	J		3.46	J		J	11.5	J	4.85	U		6.23	U	12.2
Arsenic	3	0.03	5.8	mg/kg	46.6			14.4			J	301	J	119			3.74	U	14100
Barium	220000	3200	1640	mg/kg	55.4			175			J	302	J	185			110		5240
Beryllium	2300	380	64	mg/kg	0.419	J		0.584	U		J	0.253	J	0.633			0.623	U	1.14
Boron	230000	260		mg/kg															
Cadmium	100	2.8	7.6	mg/kg	0.333	J		0.584	U		J	4.7	J	1.39	J		0.418	J	0.896
Calcium				mg/kg	203000			242000			J	226000	J	18100			269000		19900
Chromium			3600000	mg/kg	41.7			15.3			J	35.6	J	30.8			5.6		122
Cobalt	350	5.4		mg/kg	12.9			10.8			J	7.11	J	7.68			0.653		19.9
Copper	47000	560	920	mg/kg	72.8			37.4			J	681	J	119	J		9.51		493
Iron	820000	7000		mg/kg	17600			18400			J	20500	J	47000			758		34800
Lead	800		280	mg/kg	126			64.7			J	14000	J	477	J		235		2000
Magnesium				mg/kg	862			373			J	2800	J	1490	J		2440		5370
Manganese	26000	560		mg/kg	71.9			28.6			J	190	J	61.1	J		139		26
Nickel	22000	520		mg/kg	9.13			2.72			J	22.3	J	6.74	J		17.8		29.9
Potassium				mg/kg	606			269			J	2000	J	2020			1730		187
Selenium	5800	10.4	5.2	mg/kg	7.64			7.9			J	208	J	27.2	J		25.7		99.6
Silver	5800	16		mg/kg	1.26			0.955	J		J	9.81	J	2.3	J		1.6		1.25
Sodium				mg/kg	233			1230			J	8830	J	7030			223		623
Thallium	12	0.28	2.8	mg/kg	1.18	J		3.51	U		J	51.3	J	3.7	UJ		2.91	U	3.74
Vanadium	5800	1720		mg/kg	27.7			7.52			J	79.1	J	17.9	J		38.4		1.25
Zinc	350000	7400		mg/kg	186			38.1			J	620	J	35.5	J		150		256
Mercury	46	0.66	2	mg/kg	0.846			0.502			J	106	J	4.69	J		1.23		0.19
Pesticides																			
4,4'-DDD	9.6	0.15		mg/kg	0.37	J		0.46	J		J+	6.4	J+	0.11	J-		0.29	J	2.7
4,4'-DDE	9.3	0.22		mg/kg	0.36			0.13			J+	2.8	J+	0.047	J-		0.19	J-	0.67
4,4'-DDT	8.5	1.54		mg/kg	0.66			0.16			J+	0.17	J+	0.005	UJ		0.74	J	0.0093
Aldrin	0.18	0.003		mg/kg	0.004	U		0.0044	U		U	0.0039	U	0.005	UJ		0.00081	U	0.0009
Alpha-BHC	0.36	0.0084		mg/kg	0.0094	J		0.0055	J		J+	0.08	J+	0.0034	J-		0.0042		0.0009
Beta-BHC	1.3	0.003		mg/kg	0.004	U		0.0044	U		U	0.0039	U	0.005	UJ		0.013		0.0009
cis-Chlordane	500	9.8		mg/kg	0.004	U		0.0044	U		U	0.0039	U	0.005	UJ		0.00081	U	0.0009
Delta-BHC				mg/kg	0.004	U		0.0044	U		U	0.0039	U	0.005	UJ		0.0021		0.0009
Dieldrin	0.14	0.00142		mg/kg	0.004	U		0.0044	U		U	0.0039	U	0.005	UJ		0.00081	U	0.0009
Endosulfan I				mg/kg	0.004	U		0.0044	U		U	0.0039	U	0.005	UJ		0.00081	U	0.0009
Endosulfan II				mg/kg	0.004	U		0.0044	U		J+	0.011	J+	0.005	UJ		0.00081	U	0.0009
Endosulfan Sulfate	4900	42		mg/kg	0.004	U		0.0044	U		U	0.0039	U	0.005	UJ		0.00081	U	0.0009
Endrin	250	1.84	1.62	mg/kg	0.004	U		0.0044	U		U	0.0039	U	0.005	UJ		0.00081	U	0.0009
Endrin Aldehyde				mg/kg	0.004	U		0.0044	U		U	0.0039	U	0.005	UJ		0.00081	U	0.0009
Endrin Ketone				mg/kg	0.004	U		0.0044	U		U	0.0039	U	0.005	UJ		0.00081	U	0.0009
Gamma-BHC (Lindane)	2.5	0.0048	0.024	mg/kg	0.004	U		0.0044	U		U	0.0039	U	0.005	UJ		0.0012	J	0.0009
Heptachlor	0.63	0.0024	0.66	mg/kg	0.004	U		0.0044	U		U	0.0039	U	0.005	UJ		0.00081	U	0.0009
Heptachlor Epoxide	0.33	0.00056	0.082	mg/kg	0.004	U		0.0044	U		U	0.0039	U	0.005	UJ		0.00081	U	0.0009
Methoxychlor	4100	40	44	mg/kg	0.0078	U		0.0085	U		U	0.0076	U	0.0098	UJ		0.0016	UJ	0.0017
Toxaphene	2.1	0.22	9.2	mg/kg	0.1	U		0.11	U		U	0.099	U	0.13	UJ		0.02	U	0.023
trans-Chlordane	500	28		mg/kg	0.004	U		0.0044	U		U	0.0039	U	0.005	UJ		0.00081	U	0.0009
Volatile Organic Compounds																			
1,1,1-Trichloroethane	36000	56	1.4	mg/kg	0.007	U		0.005	U		U	15	U	4	U		0.004	U	0.005
1,1,2,2-Tetrachloroethane	2.7	0.0006		mg/kg	0.007	U		0.005	U		U	15	U	4	U		0.004	U	0.005
1,1,2-Trichloro-1,2,2-Trifluoroethane	28000	520		mg/kg	0.014	U		0.009	U		U	31	U	8	U		0.009	U	0.01
1,1,2-Trichloroethane	5	0.00178	0.032	mg/kg	0.007	U		0.005	U		U	15	U	4	U		0.004	U	0.005
1,1-Dichloroethane	16	0.0156		mg/kg	0.007	U		0.005	U		U	15	U	4	U		0.004	U	0.005
1,1-Dichloroethene	1000	2	0.05	mg/kg	0.007	U		0.005	U		U	15	U	4	U		0.004	U	0.005
1,2,3-Trichlorobenzene	930	0.42		mg/kg	0.014	U		0.009	U		U	31	U	8	U		0.009	U	0.01
1,2,4-Trichlorobenzene	110	0.068	4	mg/kg	0.014	U		0.009	U		UJ	31	UJ	8	U		0.009	U	0.01
1,2-Dibromo-3-Chloropropane	0.064	0.000028	0.00172	mg/kg	0.007	U		0.005	U		UJ	15	UJ	4	U		0.004	U	0.005
1,2-Dibromoethane	0.16	0.00042	0.00028	mg/kg	0.007	U		0.005	U		U	15	U	4	U		0.004	U	0.005
1,2-Dichlorobenzene	9300	6	11.6	mg/kg	0.007	U		0.011	U		U	15	U	4	U		0.004	U	0.005
1,2-Dichloroethane	2	0.00096	0.028	mg/kg	0.007	U		0.005	U		U	15	U	4	U		0.004	U	0.005
1,2-Dichloropropane	11	0.0056	0.034	mg/kg	0.007	U		0.005	U		U	15	U	4	U		0.004	U	0.005
1,3-Dichlorobenzene				mg/kg	0.007	U		0.005	U		U	15	U	4	U		0.004	U	0.005
1,4-Dichlorobenzene	11	0.0092	1.44	mg/kg	0.007	U		0.008	U		U	15	U	4	U		0.004	U	0.005
1,4-Dioxane	24	0.00188		mg/kg	0.35	U		0.24	U		U	770	U	200	U		0.22	U	0.24

Table 1. SWMU 9 Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location				MW-123S		MW-123S		MW-123S		MW-123S		MW-124S		MW-124S		MW-124S		
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	SBMW123S-01	Qual	SBMW123S-1012	Qual	SBMW123S-1416	Qual	FD10011901	Qual	SBMW124S-01	Qual	SBMW124S-1012	Qual	SBMW124S-1416	Qual	
					10/1/2019		10/1/2019	10/1/2019		10/1/2019		9/30/2019		9/30/2019		9/30/2019		9/30/2019	
2-Butanone	190000	24		mg/kg	0.01	J	0.011			31	U	8	U	0.014		0.01	U	9.5	U
2-Hexanone	1300	0.176		mg/kg	0.014	U	0.009	U		31	U	8	U	0.009	U	0.01	U	9.5	U
4-Methyl-2-Pentanone	140000	28		mg/kg	0.014	U	0.009	U		31	U	8	U	0.009	U	0.01	U	9.5	U
Acetone	1100000	74		mg/kg	0.064		0.11			62	U	16	U	0.09		0.019	U	19	U
Benzene	5.1	0.0046	0.052	mg/kg	0.007	U	0.021			15	U	4	U	0.0008	J	0.005	U	4.8	U
Bromochloromethane	630	0.42		mg/kg	0.007	U	0.005	U		15	U	4	U	0.004	U	0.005	U	4.8	U
Bromodichloromethane	1.3	0.00072	0.44	mg/kg	0.007	U	0.005	U		15	U	4	U	0.004	U	0.005	U	4.8	U
Bromoform	86	0.0174	0.42	mg/kg	0.014	U	0.009	U		31	U	8	U	0.009	U	0.01	U	9.5	U
Bromomethane	30	0.038		mg/kg	0.007	U	0.005	UJ		15	U	4	U	0.004	U	0.005	U	4.8	U
Carbon Disulfide	3500	4.8		mg/kg	0.001	J	0.006			15	U	4	U	0.008		0.005	U	4.8	U
Carbon Tetrachloride	2.9	0.0036	0.038	mg/kg	0.007	U	0.005	U		15	U	4	U	0.004	U	0.005	U	4.8	U
Chlorobenzene	1300	1.06	1.36	mg/kg	0.007	U	0.016			15	U	4	U	0.004	U	0.004	J	4.8	U
Chloroethane	23000	48		mg/kg	0.007	U	0.005	U		15	U	4	U	0.004	U	0.005	U	4.8	U
Chloroform	1.4	0.00122	0.44	mg/kg	0.007	U	0.005	U		15	U	4	U	0.001	J	0.005	U	4.8	U
Chloromethane	460	0.98		mg/kg	0.007	U	0.005	UJ		15	U	4	U	0.004	U	0.005	U	4.8	U
cis-1,2-Dichloroethene	2300	0.22	0.42	mg/kg	0.007	U	0.005	U		15	U	4	U	0.004	U	0.005	U	4.8	U
cis-1,3-Dichloropropene				mg/kg	0.007	U	0.005	U		15	U	4	U	0.004	U	0.005	U	4.8	U
Cyclohexane	27000	260		mg/kg	0.007	U	0.002	J		15	U	4	U	0.004	U	0.005	U	4.8	U
Dibromochloromethane	39	0.0046	0.42	mg/kg	0.007	U	0.005	UJ		15	U	4	U	0.004	U	0.005	U	4.8	U
Dichlorodifluoromethane	370	6		mg/kg	0.007	U	0.001	J		15	UJ	4	UJ	0.004	U	0.005	U	4.8	UJ
Ethylbenzene	25	0.034	15.6	mg/kg	0.0009	J	0.0008	J		15	U	0.43	J	0.004	U	0.005	U	4.8	U
Isopropylbenzene	9900	14.8		mg/kg	0.007	J	0.005	U		15	U	0.36	J	0.004	U	0.005	U	4.8	U
m&p-Xylenes				mg/kg	0.002	J	0.001	J		15	U	0.85	J	0.004	U	0.005	U	4.8	U
Methyl Acetate	1200000	82		mg/kg	0.006	J	0.005	U		15	U	1	J	0.004	U	0.005	U	4.8	U
Methyl Tert-Butyl Ether	210	0.064		mg/kg	0.007	U	0.005	U		15	U	4	U	0.004	U	0.005	U	4.8	U
Methylcyclohexane				mg/kg	0.037		0.004	J		15	U	3.6	J	0.004	U	0.005	U	2	J
Methylene Chloride	1000	0.058	0.026	mg/kg	0.007	U	0.005	U		15	U	4	U	0.004	U	0.005	U	4.8	U
o-Xylene	2800	3.8		mg/kg	0.001	J	0.0006	J		15	U	0.39	J	0.004	U	0.005	U	4.8	U
Styrene	35000	26	2.2	mg/kg	0.007	U	0.005	U		15	U	4	U	0.004	U	0.005	U	4.8	U
Tetrachloroethene	100	0.102	0.046	mg/kg	0.007	U	0.005	U		15	U	4	U	0.004	U	0.005	U	4.8	U
Toluene	47000	15.2	13.8	mg/kg	0.001	J	0.002	J		15	U	0.59	J	0.0007	J	0.0006	J	4.8	U
Total Xylenes	2500	3.8	198	mg/kg	0.003	J	0.002	J		31	U	1.2	J	0.009	U	0.01	U	9.5	U
trans-1,2-Dichloroethene	300	0.42	0.62	mg/kg	0.007	U	0.005	U		15	U	4	U	0.004	U	0.005	U	4.8	U
trans-1,3-Dichloropropene				mg/kg	0.007	U	0.005	U		15	U	4	U	0.004	U	0.005	U	4.8	U
Trichloroethene	6	0.0036	0.036	mg/kg	0.007	U	0.005	U		15	U	4	U	0.004	U	0.005	U	4.8	U
Trichlorofluoromethane	350000	66		mg/kg	0.007	U	0.005	U		15	UJ	4	U	0.004	U	0.005	U	4.8	UJ
Vinyl Chloride	1.7	0.00013	0.0138	mg/kg	0.007	U	0.005	U		15	U	4	U	0.004	U	0.005	U	4.8	U
Semi-Volatile Organic Compounds																			
1,1'-Biphenyl	200	0.174		mg/kg	0.22	U	0.24	U		0.23	J	0.097	J	0.21	U	0.05	U	0.34	
1,2,4,5-Tetrachlorobenzene	35	0.0158		mg/kg	0.22	U	0.24	U		0.28	U	0.056	U	0.21	U	0.05	U	0.069	U
2,3,4,6-Tetrachlorophenol	25000	3.6		mg/kg	1	U	1.1	U		1.3	U	0.25	U	0.95	U	0.23	U	0.31	U
2,4,5-Trichlorophenol	82000	80		mg/kg	0.4	U	0.43	U		0.51	U	0.1	U	0.38	U	0.091	U	0.13	U
2,4,6-Trichlorophenol	210	0.08		mg/kg	0.34	U	0.37	U		0.43	U	0.087	U	0.32	U	0.077	U	0.11	U
2,4-Dichlorophenol	2500	0.46		mg/kg	0.26	U	0.28	U		0.33	U	0.066	U	0.25	U	0.059	U	0.52	
2,4-Dimethylphenol	16000	8.4		mg/kg	0.4	U	0.43	U		0.51	U	0.1	U	0.38	U	0.091	U	0.13	U
2,4-Dinitrophenol	1600	0.88		mg/kg	6	U	6.5	U		7.6	U	1.5	U	5.7	U	1.4	U	1.9	U
2,4-Dinitrotoluene	7.4	0.0064		mg/kg	1	U	1.1	U		1.3	U	0.25	U	0.95	U	0.23	U	0.31	U
2,6-Dinitrotoluene	1.5	0.00134		mg/kg	0.3	U	0.32	U		0.38	U	0.076	U	0.29	U	0.068	U	0.094	U
2-Chloronaphthalene	60000	78		mg/kg	0.2	U	0.22	U		0.25	U	0.051	U	0.19	U	0.045	U	0.063	U
2-Chlorophenol	5800	1.78		mg/kg	0.22	U	0.24	U		0.28	U	0.056	U	0.21	U	0.05	U	0.069	U
2-Methylnaphthalene	3000	3.8		mg/kg	0.021	J	0.22	U		2	J	0.91	J	0.022	J	0.045	U	1.9	
2-Methylphenol	41000	15		mg/kg	0.4	U	0.43	U		0.51	U	0.1	U	0.38	U	0.091	U	0.13	U
2-Nitroaniline	8000	1.6		mg/kg	0.3	U	0.32	U		0.38	U	0.076	U	0.29	U	0.068	U	0.094	U
2-Nitrophenol				mg/kg	0.34	U	0.37	U		0.43	U	0.087	U	0.32	U	0.077	U	0.11	U
3,3'-Dichlorobenzidine	5.1	0.0164		mg/kg	2	U	2.2	U		2.5	U	0.51	U	1.9	U	0.45	U	0.63	U
3-Nitroaniline				mg/kg	1	U	1.1	U		1.3	U	0.25	U	0.95	U	0.23	U	0.31	U
4,6-Dinitro-2-Methylphenol	66	0.052		mg/kg	3	U	3.2	U		3.8	U	0.76	U	2.9	U	0.68	U	0.94	U
4-Bromophenyl Phenyl Ether				mg/kg	0.3	U	0.32	U		0.38	U	0.076	U	0.29	U	0.068	U	0.094	U
4-Chloro-3-Methylphenol	82000	34		mg/kg	0.3	U	0.32	U		0.38	U	0.076	U	0.29	U	0.068	U	0.094	U
4-Chloroaniline	11	0.0032		mg/kg	1	U	1.1	U		1.3	U	0.25	U	0.95	U	0.23	U	0.31	U
4-Chlorophenyl Phenyl Ether				mg/kg	0.26	U	0.28	U		0.33	U	0.066	U	0.25	U	0.059	U	0.082	U
4-Methylphenol	16000	6		mg/kg	0.3	U	0.32	U		0.43	J	0.076	UJ	0.29	U	0.068	U	0.79	
4-Nitroaniline	110	0.032		mg/kg	1	U	1.1	U		1.3	U	0.25	U	0.95	U	0.23	U	0.31	U
4-Nitrophenol				mg/kg	3	U	3.2	U		3.8	U	0.76	U	2.9	U	0.68	U	0.94	U
Acenaphthene	45000	110		mg/kg	0.1	U	0.11	U		0.13	U	0.025	U	0.054	J	0.023	U	0.28	

**Table 1. SWMU 9 Soil Analytical Results
RCRA Facility Investigation Report
Honeywell Delaware Valley Works
Claymont, Delaware
Wood Project No. 3482210786**

Parameter	Location Sample ID Sample Date				MW-123S SBMW123S-01 10/1/2019		MW-123S SBMW123S-1012 10/1/2019		MW-123S SBMW123S-1416 10/1/2019		MW-123S FD10011901 10/1/2019		MW-124S SBMW124S-01 9/30/2019		MW-124S SBMW124S-1012 9/30/2019		MW-124S SBMW124S-1416 9/30/2019													
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual												
Acenaphthylene				mg/kg	0.1	U			0.11	U			0.24	J			0.025	UJ			0.12				0.023	U			0.35	
Acetophenone	120000	11.6		mg/kg	0.3	U			0.32	U			0.38	U			0.076	U			0.29	U			0.068	U			0.094	U
Anthracene	230000	1160		mg/kg	0.039	J			0.11	U			0.51	J			0.13	J			0.21				0.023	U			0.68	
Atrazine	10	0.004	0.038	mg/kg	2.6	U			2.8	U			3.3	U			0.66	U			2.5	U			0.59	U			0.82	U
Benzaldehyde	820	0.082		mg/kg	1	U			1.1	U			1.3	U			0.25	U			0.95	U			0.23	U			0.31	U
Benzo(A)Anthracene	21	0.22		mg/kg	0.13				0.046	J			0.57	J			0.14	J			0.62				0.023	U			0.64	
Benzo(A)Pyrene	2.1	0.58	4.8	mg/kg	0.15				0.053	J			0.36	J			0.16	J			0.59				0.023	U			0.57	
Benzo(B)Fluoranthene	21	6		mg/kg	0.18				0.075	J			0.54	J			0.091	J			1.1				0.023	U			0.45	
Benzo(G,H,I)perylene				mg/kg	0.12				0.11	U			0.22				0.16				0.54				0.023	U			0.81	
Benzo(K)Fluoranthene	210	58		mg/kg	0.076	J			0.11	U			0.2	J			0.024	J			0.3				0.023	U			0.11	
bis-(2-Chloroethoxy)Methane	2500	0.26		mg/kg	0.22	U			0.24	U			0.28	U			0.056	U			0.21	U			0.05	U			0.069	U
bis-(2-Chloroethyl)Ether	1	0.000072		mg/kg	0.3	U			0.32	U			0.38	U			0.076	U			0.29	U			0.068	U			0.094	U
bis(2-Chloroisopropyl)Ether				mg/kg	0.26	U			0.28	U			0.33	U			0.066	U			0.25	U			0.059	U			0.082	U
bis-(2-Ethylhexyl)Phthalate	160	26	28	mg/kg	1	U			1.1	U			1.3	U			0.25	U			0.95	U			0.23	U			0.31	U
Butylbenzyl Phthalate	1200	4.8		mg/kg	1	U			1.1	U			1.3	U			0.25	U			0.95	U			0.23	U			0.31	U
Caprolactam	400000	50		mg/kg	1	U			1.1	U			1.3	U			0.25	U			0.95	U			0.23	U			0.31	U
Carbazole				mg/kg	0.22	U			0.24	U			0.28	U			0.056	U			0.21	U			0.05	U			0.069	U
Chrysene	2100	180		mg/kg	0.15				0.056	J			0.78	J			0.22	J			0.64				0.023	U			1.1	
Dibenzo(a,h)Anthracene	2.1	1.92		mg/kg	0.1	U			0.11	U			0.13	UJ			0.027	J			0.15				0.023	U			0.11	
Dibenzofuran	1200	3		mg/kg	0.22	U			0.24	U			0.21	J			0.087	J			0.21	U			0.05	U			0.42	
Diethyl Phthalate	660000	122		mg/kg	1	U			1.1	U			1.3	U			0.25	U			0.95	U			0.23	U			0.31	U
Dimethyl Phthalate				mg/kg	1	U			1.1	U			1.3	U			0.25	U			0.95	U			0.23	U			0.31	U
Di-n-Butyl Phthalate	82000	46		mg/kg	1	U			1.1	U			1.3	U			0.25	U			0.95	U			0.23	U			0.31	U
Di-n-Octyl Phthalate	8200	1140		mg/kg	1	U			1.1	U			1.3	U			0.25	U			0.95	U			0.23	U			0.31	U
Fluoranthene	30000	1780		mg/kg	0.18				0.071	J			1.3	J			0.15	J			1.2				0.023	U			1.3	
Fluorene	30000	108		mg/kg	0.1	U			0.11	U			0.74	J			0.23	J			0.055	J			0.023	U			1.3	
Hexachlorobenzene	0.96	0.0024	0.26	mg/kg	0.1	U			0.11	U			0.13	U			0.025	U			0.095	U			0.023	U			0.031	U
Hexachlorobutadiene	5.3	0.0054		mg/kg	0.46	U			0.5	U			0.58	UJ			0.12	U			0.44	U			0.1	U			0.14	UJ
Hexachlorocyclopentadiene	7.5	0.026	3.2	mg/kg	3	U			3.2	U			3.8	U			0.76	U			2.9	U			0.68	U			0.94	U
Hexachloroethane	8	0.004		mg/kg	1	U			1.1	U			1.3	U			0.25	U			0.95	U			0.23	U			0.31	U
Indeno(1,2,3-Cd)Pyrene	21	19.6		mg/kg	0.097	J			0.032	J			0.15	J			0.042	J			0.43				0.023	U			0.2	
Isophorone	2400	0.52		mg/kg	0.22	U			0.24	U			0.28	U			0.056	U			0.21	U			0.05	U			0.069	U
Naphthalene	8.6	0.0076		mg/kg	0.1	U			0.11	U			0.85	J			0.15	J			0.095	U			0.023	U			0.57	J
Nitrobenzene	22	0.00184		mg/kg	0.4	U			0.43	U			0.51	U			0.1	U			0.38	U			0.091	U			0.13	U
n-Nitroso-di-n-Propylamine	0.33	0.000162		mg/kg	0.3	U			0.32	U			0.38	U			0.076	U			0.29	U			0.068	U			0.094	U
n-Nitrosodiphenylamine	470	1.34		mg/kg	0.22	U			0.24	U			0.28	U			0.056	U			0.21	U			0.05	U			0.069	U
Pentachlorophenol	4	0.00114	0.028	mg/kg	1	U			1.1	U			1.3	U			0.25	U			0.95	U			0.23	U			0.31	U
Phenanthrene				mg/kg	0.15				0.047	J			2.1	J			0.61	J			0.66				0.006	J			1.8	
Phenol	250000	66		mg/kg	0.22	U			0.24	U			0.28	U			0.056	U			0.21	U			0.05	U			0.069	U
Pyrene	23000	260		mg/kg	0.21				0.057	J			1.2	J			0.37	J			0.91				0.023	U			2.5	

Notes:
Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), Industrial Soil Screening Level (SSL) (November 2021)
Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20
Exceeds the EPA RSL, Maximum Contaminant Level (MCL) SSL assuming a DAF of 20
Blanks indicate RSL not established or constituent not analyzed
RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0
U = undetected
J = estimated value
J+ = estimated biased high
J- = estimated biased low
R = rejected
MG/KG - milligram per kilogram
SWMU = Solid Waste Management Unit
RCRA = Resource Conservation and Recovery Act
Sample depth shown in Sample ID (e.g., SBBF3-04_6-8 indicates 6 to 8-foot sample)
DUP = Duplicate sample
Exceedances shown may exceed one or more criteria if available

Table 2. SWMU 13 Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location			Units	SM13-GP07-01		SM13-GP07-02		SM13-GP08-01		SM13-GP08-02		SM13-GP08-03		SM13-GP09-01		SM13-GP09-02		SM13-GP10-01		SM13-GP10-02		SM13-GP11-01		SM13-GP11-02		SM13-GP12-01											
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20		Sample ID	Sample Date	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual								
Hexachloroethane	8	0.004		mg/kg	0.04	U			0.039	U			0.04	U			0.039	U			0.041	U			0.039	U			0.04	U			0.042	U			0.041	U
Hexachloropropene				mg/kg									0.59	U																								
Indeno(1,2,3-Cd)Pyrene	21	19.6		mg/kg	0.047	J			0.041	U			0.089	J			0.2	U			0.04	U			0.039	U			0.2	U			0.04	U			0.041	U
Isodrin				mg/kg									0.2	U																								
Isophorone	2400	0.52		mg/kg	0.04	U			0.041	U			0.039	U			0.2	U			0.04	U			0.039	U			0.2	U			0.04	U			0.041	U
Isosafrole				mg/kg									0.39	U																								
Kepone	0.23	0.0024		mg/kg																																		
Methanesulfonic Acid, Ethyl Ester				mg/kg									0.39	U																								
Methapyriline				mg/kg									0.59	U																								
Methyl Methanesulfonate		0.0032		mg/kg									0.2	U																								
Methyl Parathion	23	0.148		mg/kg																																		
Naphthalene	8.6	0.0076		mg/kg	0.04	U			0.041	U			0.099	J			0.2	U			0.04	U			0.039	U			0.2	U			0.04	U			0.041	U
Nitrobenzene	22	0.00184		mg/kg	0.04	U			0.041	U			0.99	J			0.16	J			0.39	J			0.22	J			0.17	J			0.039	U			0.041	U
n-Nitrosodiethylamine	0.015	0.0000122		mg/kg									0.39	U																								
n-Nitrosodimethylamine	0.034	0.0000054		mg/kg									0.39	U																								
n-Nitrosodi-n-Butylamine	0.46	0.00011		mg/kg									0.39	U																								
n-Nitroso-di-n-Propylamine	0.33	0.000162		mg/kg	0.04	U			0.041	U			0.039	U			0.2	U			0.04	U			0.039	U			0.2	U			0.04	U			0.041	U
n-Nitrosodiphenylamine	470	1.34		mg/kg	0.04	U			0.041	U			0.039	U			0.2	U			0.04	U			0.99	J			0.79	J			0.04	U			0.054	J
n-Nitrosomethylethylamine	0.091	0.000004		mg/kg									0.39	U																								
n-Nitrosomorpholine	0.34	0.000056		mg/kg									0.39	U																								
n-Nitrosopiperidine	0.24	0.000088		mg/kg									0.39	U																								
n-Nitrosopyrrolidine	1.1	0.00028		mg/kg									0.39	U																								
O,O,O-Triethyl Phosphorothioate				mg/kg									0.39	U																								
o-Toluidine	140	0.04		mg/kg									0.39	U																								
Pentachlorobenzene	930	0.48		mg/kg									0.39	U																								
Pentachloronitrobenzene	13	0.03		mg/kg									0.79	U																								
Pentachlorophenol	4	0.00114	0.028	mg/kg	0.2	U			0.2	U			0.2	U			0.98	U			0.2	U			0.21	U			0.2	U			0.21	U			0.21	U
Phenacetin	1000	0.194		mg/kg									0.39	U																								
Phenanthrene				mg/kg	0.04	U			0.041	U			0.3	J			0.2	U			0.04	U			0.14	J			0.34	J			0.039	U			0.04	U
Phenol	250000	66		mg/kg	0.04	U			0.041	U			0.039	U			0.2	U			0.041	U			0.039	U			0.2	U			0.04	U			0.042	U
Phorate	160	0.068		mg/kg																																		
p-Phenylenediamine	820	0.108		mg/kg									15	UJ																								
Pronamide	62000	24		mg/kg									0.79	U																								
Pyrene	23000	260		mg/kg	0.075	J			0.043	J			0.22	J			0.2	U			0.045	J			0.26	J			0.6	J			0.039	U			0.04	U
Pyridine	1200	0.136		mg/kg									0.39	U																								
Quinoline, 4-Nitro-1-Oxide-				mg/kg									2	U																								
Safrole	10	0.00118		mg/kg									0.39	U																								
Thionazine				mg/kg									0.39	U																								
Thiopyrophosphoric Acid ((Ho)2P(S)2O), Tetraethyl	410	0.104		mg/kg									0.39	U																								
Total Aramite	92	0.3		mg/kg									0.2	UJ																								

Notes:
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Table 2. SWMU 13 Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location			Units	SM13-GP12-02		SM13-GP13-01		SM13-GP13-02		SM13-GP14-01		SM13-GP14-02		SM13-GP14-03		SM13-GP14-03		SM13-GP15-01		SM13-GP15-02		SM13-GP16-01		SM13-GP16-02		SM13-GP16-02				
	Industrial SSL	Risk-Based SSL	MCL-Based SSL		Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	
	Sample ID	DAF-20	DAF-20		37982-0008-03	37982-0008-04	37982-0008-05	37982-0008-06	37982-0008-07	37982-0008-08	37982-0008-09	37982-0009-02	37982-0009-05	37982-0009-06	37982-0009-07	37982-0009-08															
1,3-Dichloropropane	23000	2.6																													
1,4-Dichlorobenzene	11	0.0092	1.44	0.001	J	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U		
1,4-Dioxane	24	0.00188																													
2,2-Dichloropropane																															
2-Butanone	190000	24		0.004	U	0.004	U	0.005	U	0.009	J	0.004	U	0.005	U	0.004	U	0.004	U	0.004	U	0.005	R	0.004	R	0.004	R	0.004	R		
2-Chloroethyl Vinyl Ether																															
2-Chlorotoluene	23000	4.6																													
2-Hexanone	1300	0.176		0.003	U	0.003	U	0.004	U	0.004	U	0.003	U	0.003	U	0.003	U	0.003	U	0.003	U	0.003	U	0.003	U	0.003	U	0.003	U		
4-Chlorotoluene	23000	4.8																													
4-Methyl-2-Pentanone	140000	28		0.003	U	0.003	U	0.004	U	0.004	U	0.003	U	0.003	U	0.003	U	0.003	U	0.003	U	0.003	U	0.003	U	0.003	U	0.003	U	0.003	U
Acetone	1100000	74		0.012	J	0.017	J	0.022	J	0.046	L	0.013	J	0.008	R	0.007	R	0.008	R	0.003	L	0.003	R	0.034	L	0.007	R	0.007	R		
Acetonitrile	3400	0.52																													
Acrolein	0.6	0.000168		0.022	U	0.02	U	0.025	U	0.024	U	0.022	U	0.023	U	0.021	U	0.022	U	0.023	U	0.023	U	0.022	U	0.02	U	0.021	U	0.021	U
Acrylonitrile	1.1	0.00022																													
Allyl Chloride	3.2	0.0046																													
Benzene	5.1	0.0046	0.052	0.009		0.0008	J	0.002	J	0.006		0.001	J	0.005	J	0.005	J	0.001	J	0.001	J	0.001	J	0.001	J	0.0005	U	0.0005	U		
Bromobenzene	1800	0.84																													
Bromochloromethane	630	0.42																													
Bromodichloromethane	1.3	0.00072	0.44	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U
Bromoform	86	0.0174	0.42	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U
Bromomethane	30	0.038		0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Butylbenzene	58000	64																													
Carbon Disulfide	3500	4.8		0.001	U	0.001	U	0.001	U	0.006		0.002	J	0.002	J	0.003	J	0.001	U	0.001	U	0.001	U	0.038		0.001	U	0.002	J		
Carbon Tetrachloride	2.9	0.0036	0.038	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U
Chlorobenzene	1300	1.06	1.36	0.001	U	0.001	U	0.001	U	0.001	J	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U
Chloroethane	23000	48		0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Chloroform	1.4	0.00122	0.44	0.001	J	0.001	U	0.003	J	0.001	U	0.002	J	0.044		0.001	U	0.001	J	0.001	J	0.001	J	0.001	J	0.001	J	0.001	J		
Chloromethane	460	0.98		0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Chloroprene	0.044	0.000196																													
cis-1,2-Dichloroethene	2300	0.22	0.42	1.3	J	0.001	U	0.003	J	0.001	U	0.001	U	0.062		0.059		0.13		0.1		0.001	U	0.001	U	0.001	U	0.001	U		
cis-1,3-Dichloropropene				0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U
cis-1,4-Dichloro-2-Butene	0.032	0.0000124																													
Cyclohexane	27000	260		0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U
Dibromochloromethane	39	0.0046	0.42	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U
Dibromomethane	99	0.042																													
Dichlorodifluoromethane	370	6		0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Ethane, Pentachloro-	36	0.0062																													
Ethyl Cyanide				0.034	U	0.03	U	0.037	U	0.035	U	0.033	U	0.035	U	0.031	U	0.033	U	0.035	U	0.032	U	0.03	U	0.032	U	0.03	U	0.032	U
Ethyl Methacrylate	7600	3		0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U
Ethylbenzene	25	0.034	15.6	0.001	U	0.001	U	0.001	U	0.014	J	0.004	J	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U
Hexachlorobutadiene	5.3	0.0054																													
Iodomethane																															
Isobutanol	350000	24																													
Isopropylbenzene	9900	14.8		0.001	U	0.001	U	0.001	U	0.004	J	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U
m&p-Xylenes																															
Methacrylonitrile	100	0.0086																													
Methyl Acetate	1200000	82		0.002	U	0.002	U	0.002	U	0.001	U	0.001	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Methyl Methacrylate	19000	6																													
Methyl Tert-Butyl Ether	210	0.064		0.0006	U	0.0005	U	0.0006	U</																						

Table 2. SWMU 13 Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location			Units	SM13-GP12-02		SM13-GP13-01		SM13-GP13-02		SM13-GP14-01		SM13-GP14-02		SM13-GP14-03		SM13-GP15-01		SM13-GP15-02		SM13-GP16-01		SM13-GP16-02		SM13-GP16-02					
	Sample ID	Sample Date	Risk-Based SSL		37982-0008-03		37982-0008-04		37982-0008-05		37982-0008-06		37982-0008-07		37982-0008-08		37982-0008-09		37982-0009-02		37982-0009-05		37982-0009-06		37982-0009-07		37982-0009-08			
					Industrial SSL	DAF-20	MCL-Based SSL	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result
1-Naphthylamine				mg/kg																										
2,2'-Oxybis(1-Chloropropane)	47000	5.2		mg/kg	0.042	U	0.04	U	0.042	U	0.21	U	0.99	U	0.041	U	0.041	U	0.041	U	0.042	U	0.04	U	0.04	U	0.04	U	0.041	U
2,3,4,6-Tetrachlorophenol	25000	3.6		mg/kg							0.42	U	0.4	U																
2,4,5-Trichlorophenol	82000	80		mg/kg	0.042	U	0.04	U	0.042	U	0.21	U	0.2	U	0.041	U	0.041	U	0.041	U	0.042	U	0.04	U	0.04	U	0.04	U	0.041	U
2,4,6-Trichlorophenol	210	0.08		mg/kg	0.042	U	0.04	U	0.042	U	0.21	U	0.2	U	0.041	U	0.041	U	0.041	U	0.042	U	0.04	U	0.04	U	0.04	U	0.041	U
2,4-Dichlorophenol	2500	0.46		mg/kg	0.042	U	0.04	U	0.042	U	0.21	U	0.2	U	0.041	U	0.041	U	0.041	U	0.042	U	0.04	U	0.04	U	0.04	U	0.041	U
2,4-Dimethylphenol	16000	8.4		mg/kg	0.042	U	0.04	U	0.042	U	0.21	U	0.2	U	0.041	U	0.041	U	0.041	U	0.042	U	0.04	U	0.04	U	0.04	U	0.041	U
2,4-Dinitrophenol	1600	0.88		mg/kg	0.85	U	0.79	U	0.84	U	4.2	UJ	4	U	0.81	U	0.81	U	0.82	U	0.84	U	0.81	U	0.81	U	0.81	U	0.82	U
2,4-Dinitrotoluene	7.4	0.0064		mg/kg	0.085	U	1.1		2.1		0.42	U	23		0.46		0.39	J	0.082	U	0.084	U	0.2	J	9.3		14			
2,6-Dichlorophenol				mg/kg							0.42	U	0.4	U																
2,6-Dinitrotoluene	1.5	0.00134		mg/kg	0.042	U	1.5		2.2		0.21	U	56		0.2	J	0.29	J	0.041	U	0.042	U	0.04	U	0.8		1.5			
2-Acetylaminofluorene (TIC)	0.6	0.0015		mg/kg							0.42	U	0.4	U																
2-Chloronaphthalene	60000	78		mg/kg	0.042	U	0.04	U	0.042	U	0.21	U	0.2	U	0.041	U	0.041	U	0.041	U	0.042	U	0.04	U	0.04	U	0.04	U	0.041	U
2-Chlorophenol	5800	1.78		mg/kg	0.042	U	0.04	U	0.042	U	0.21	U	0.2	U	0.041	U	0.041	U	0.041	U	0.042	U	0.04	U	0.04	U	0.04	U	0.041	U
2-Methylnaphthalene	3000	3.8		mg/kg	0.042	U	0.04	U	0.042	U	0.21	U	0.2	U	0.041	U	0.041	U	0.041	U	0.042	U	0.04	U	0.04	U	0.04	U	0.041	U
2-Methylphenol	41000	15		mg/kg	0.042	U	0.04	U	0.042	U	0.21	U	0.2	U	0.041	U	0.041	U	0.041	U	0.042	U	0.04	U	0.04	U	0.04	U	0.041	U
2-Naphthylamine	1.3	0.004		mg/kg							1	U	0.99	U																
2-Nitroaniline	8000	1.6		mg/kg	0.042	U	0.04	U	0.042	U	0.21	U	0.2	U	0.041	U	0.041	U	0.041	U	0.042	U	0.04	U	0.04	U	0.04	U	0.041	U
2-Nitrophenol				mg/kg	0.042	U	0.04	U	0.042	U	0.21	U	0.2	U	0.041	U	0.041	U	0.041	U	0.042	U	0.04	U	0.04	U	0.04	U	0.041	U
2-Picoline				mg/kg							0.42	U	0.4	U																
3,3'-Dichlorobenzidine	5.1	0.0164		mg/kg	0.085	U	0.079	U	0.084	U	0.42	U	0.4	U	0.081	U	0.081	U	0.082	U	0.084	U	0.081	U	0.081	U	0.081	U	0.082	U
3,3'-Dimethylbenzidine	0.21	0.00086		mg/kg							1	U	0.99	U																
3-Methylcholanthrene	0.1	0.044		mg/kg							0.42	U	0.4	U																
3-Nitroaniline				mg/kg	0.085	U	0.079	U	0.084	U	0.42	U	0.4	U	0.081	U	0.081	U	0.082	U	0.084	U	0.081	U	0.081	U	0.081	U	0.082	U
4,6-Dinitro-2-Methylphenol	66	0.052		mg/kg	0.21	U	0.2	U	0.21	U	1	UJ	0.99	U	0.2	U	0.2	U	0.21	U	0.21	U	0.2	U	0.2	U	0.2	U	0.2	U
4-Aminobiphenyl	0.11	0.0003		mg/kg							1	U	0.99	U																
4-Bromophenyl Phenyl Ether				mg/kg	0.042	U	0.04	U	0.042	U	0.21	U	0.2	U	0.041	U	0.041	U	0.041	U	0.042	U	0.04	U	0.04	U	0.04	U	0.041	U
4-Chloro-3-Methylphenol	82000	34		mg/kg	0.085	U	0.079	U	0.084	U	0.42	U	0.4	U	0.081	U	0.081	U	0.082	U	0.084	U	0.081	U	0.081	U	0.081	U	0.082	U
4-Chloroaniline	11	0.0032		mg/kg	0.042	U	0.04	U	0.042	U	0.21	U	0.2	U	0.041	U	0.041	U	0.041	U	0.042	U	0.04	U	0.04	U	0.04	U	0.041	U
4-Chlorophenyl Phenyl Ether				mg/kg	0.042	U	0.04	U	0.042	U	0.21	U	0.2	U	0.041	U	0.041	U	0.041	U	0.042	U	0.04	U	0.04	U	0.04	U	0.041	U
4-Methylphenol	16000	6		mg/kg	0.085	U	0.079	U	0.084	U	0.42	U	0.4	U	0.081	U	0.081	U	0.082	U	0.084	U	0.081	U	0.081	U	0.081	U	0.082	U
4-Nitroaniline	110	0.032		mg/kg	0.085	U	0.079	U	0.084	U	0.42	U	0.4	U	0.081	U	0.081	U	0.082	U	0.084	U	0.081	U	0.081	U	0.081	U	0.082	U
4-Nitrophenol				mg/kg	0.21	U	0.2	U	0.21	U	1	U	0.99	U	0.2	U	0.2	U	0.21	U	0.21	U	0.2	U	0.2	U	0.2	U	0.2	U
5-Nitro-o-Toluidine	260	0.092		mg/kg							1	U	9.6																	
7,12-Dimethylbenz(A)Anthracene	0.0084	0.00198		mg/kg							0.21	U	0.2	U																
Acenaphthene	45000	110		mg/kg	0.042	U	0.04	U	0.042	U	0.21	U	0.2	U	0.041	U	0.041	U	0.041	U	0.042	U	0.04	U	0.04	U	0.04	U	0.041	U
Acenaphthylene				mg/kg	0.042	U	0.04	U	0.042	U	0.21	U	0.2	U	0.041	U	0.041	U	0.041	U	0.042	U	0.04	U	0.04	U	0.04	U	0.041	U
Acetophenone	120000	11.6		mg/kg	0.085	U	0.079	U	0.084	U	0.42	U	0.4	U	0.081	U	0.081	U	0.082	U	0.084	U	0.081	U	0.081	U	0.081	U	0.082	U
Aniline	400	0.092		mg/kg							0.43	J	2.5																	
Anthracene	230000	1160		mg/kg	0.042	U	0.04	U	0.042	U	0.21	U	0.2	U	0.041	U	0.041	U	0.041	U	0.042	U	0.049	J	0.04	U	0.04	U	0.041	U
Atrazine	10	0.004	0.038	mg/kg	0.042	U	0.04	U	0.042	U	0.21	UJ	0.2	UJ	0.041	U	0.041	U	0.041	U	0.042	U	0.04	U	0.04	U	0.04	U	0.041	U
Azobenzene	26	0.0186		mg/kg																										
Benzaldehyde	820	0.082		mg/kg	0.042	U	0.04	U	0.042	U	0.21	UJ	0.2	UJ	0.041	U	0.041	U	0.041	U	0.042	U	0.04	U	0.04	U	0.04	U	0.041	U
Benzenamine, N,N-Dimethyl-4-(Pehnylazo)-	0.5	0.00042		mg/kg							0.42	U	0.4	U																
Benzenethanamine, Alpha, Alpha-Dimethyl-				mg/kg							0.21	UJ	0.2	U																
Benzidine	0.01	0.0000056		mg/kg							4.2	U	4	U																
Benzo(A)Anthracene	21	0.22		mg/kg	0.042	U	0.04	U	0.042	U	0.21	U	0.2	U	0.041	U	0.041	U	0.043	J	0.042	U	0.04	U	0.0					

Table 2. SWMU 13 Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location			Units	SM13-GP12-02		SM13-GP13-01		SM13-GP13-02		SM13-GP14-01		SM13-GP14-02		SM13-GP14-03		SM13-GP14-03		SM13-GP15-01		SM13-GP15-02		SM13-GP16-01		SM13-GP16-02		SM13-GP16-02			
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20		Sample ID	Sample Date	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Hexachloroethane	8	0.004		mg/kg	0.042	U	0.04	U	0.042	U	0.21	U	0.2	U	0.041	U	0.041	U	0.041	U	0.042	U	0.04	U	0.04	U	0.04	U	0.041	U
Hexachloropropene				mg/kg							0.63	U	0.6	U																
Indeno(1,2,3-Cd)Pyrene	21	19.6		mg/kg	0.042	U	0.04	U	0.042	U	0.21	U	0.2	U	0.041	U	0.041	U	0.041	U	0.042	U	0.04	U	0.04	U	0.04	U	0.041	U
Isodrin				mg/kg							0.21	UJ	0.2	U																
Isophorone	2400	0.52		mg/kg	0.042	U	0.04	U	0.042	U	0.21	U	0.2	U	0.041	U	0.041	U	0.041	U	0.042	U	0.04	U	0.04	U	0.04	U	0.041	U
Isosafrole				mg/kg							0.42	U	0.4	U																
Kepon	0.23	0.0024		mg/kg																										
Methanesulfonic Acid, Ethyl Ester				mg/kg							0.42	U	0.4	U																
Methapyriline				mg/kg							0.63	UJ	0.6	U																
Methyl Methanesulfonate		0.0032		mg/kg							0.21	U	0.2	U																
Methyl Parathion	23	0.148		mg/kg																										
Naphthalene	8.6	0.0076		mg/kg	0.042	U	0.04	U	0.042	U	0.21	U	0.2	U	0.041	U	0.041	U	0.041	U	0.042	U	0.04	U	0.04	U	0.04	U	0.041	U
Nitrobenzene	22	0.00184		mg/kg	0.042	U	0.04	U	0.042	U	0.21	U	0.2	U	0.041	U	0.041	U	0.041	U	0.042	U	0.04	U	0.04	U	0.04	U	0.041	U
n-Nitrosodiethylamine	0.015	0.0000122		mg/kg							0.42	U	0.4	U																
n-Nitrosodimethylamine	0.034	0.0000054		mg/kg							0.42	U	0.4	U																
n-Nitrosodi-n-Butylamine	0.46	0.00011		mg/kg							0.42	U	0.4	U																
n-Nitroso-di-n-Propylamine	0.33	0.000162		mg/kg	0.042	U	0.04	U	0.042	U	0.21	U	0.2	U	0.041	U	0.041	U	0.041	U	0.042	U	0.04	U	0.04	U	0.04	U	0.041	U
n-Nitrosodiphenylamine	470	1.34		mg/kg	0.042	U	0.04	U	0.042	U	0.21	U	0.2	U	0.041	U	0.041	U	0.041	U	0.042	U	0.11	J	0.04	U	0.04	U	0.041	U
n-Nitrosomethylethylamine	0.091	0.000004		mg/kg							0.42	U	0.4	U																
n-Nitrosomorpholine	0.34	0.000056		mg/kg							0.42	U	0.4	U																
n-Nitrosopiperidine	0.24	0.000088		mg/kg							0.42	U	0.4	U																
n-Nitrosopyrrolidine	1.1	0.00028		mg/kg							0.42	U	0.4	U																
O,O,O-Triethyl Phosphorothioate				mg/kg							0.42	U	0.4	U																
o-Toluidine	140	0.04		mg/kg							0.42	U	0.4	U																
Pentachlorobenzene	930	0.48		mg/kg							0.42	U	0.4	U																
Pentachloronitrobenzene	13	0.03		mg/kg							0.84	U	0.79	U																
Pentachlorophenol	4	0.00114	0.028	mg/kg	0.21	U	0.2	U	0.21	U	1	U	0.99	U	0.2	U	0.2	U	0.21	U	0.21	U	0.2	U	0.2	U	0.2	U	0.2	U
Phenacetin	1000	0.194		mg/kg							0.42	U	0.4	U																
Phenanthrene				mg/kg	0.042	U	0.04	U	0.042	U	0.21	U	0.2	U	0.041	U	0.041	U	0.068	J	0.042	U	0.19	J	0.04	U	0.04	U	0.041	U
Phenol	250000	66		mg/kg	0.042	U	0.04	U	0.042	U	0.21	U	0.2	U	0.041	U	0.041	U	0.041	U	0.042	U	0.04	U	0.04	U	0.04	U	0.041	U
Phorate	160	0.068		mg/kg																										
p-Phenylenediamine	820	0.108		mg/kg							16	UJ	15	UJ																
Pronamide	62000	24		mg/kg							0.84	U	0.79	U																
Pyrene	23000	260		mg/kg	0.042	U	0.04	U	0.042	U	0.21	U	0.2	U	0.041	U	0.041	U	0.08	J	0.042	U	0.12	J	0.04	U	0.04	U	0.041	U
Pyridine	1200	0.136		mg/kg							0.42	U	0.4	U																
Quinoline, 4-Nitro-1-Oxide-				mg/kg							2.1	UJ	2	U																
Safrole	10	0.00118		mg/kg							0.42	U	0.4	U																
Thionazine				mg/kg							0.42	U	0.4	U																
Thiopyrophosphoric Acid ((Ho)2P(S)2O), Tetraethyl	410	0.104		mg/kg							0.42	U	0.4	U																
Total Aramite	92	0.3		mg/kg							0.21	UJ	0.2	UJ																

Notes:
 Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), Industrial Soil Screening Level (SSL) (November 2021)
 Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20
 Exceeds the EPA RSL, Maximum Contaminant Level (MCL) SSL assuming a DAF of 20
 Blanks indicate RSL not established or constituent not analyzed
 RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0
 U = undetected
 J = estimated value
 J+ = estimated biased high
 J- = estimated biased low
 R = rejected
 MG/KG = milligram per kilogram
 SWMU = Solid Waste Management Unit
 RCRA = Resource Conservation and Recovery Act
 Sample depth shown in Sample ID (e.g., SBBF3-04_6-8 indicates 6 to 8-foot sample)
 DUP = Duplicate sample
 Exceedances shown may exceed one or more criteria if available

Table 2. SWMU 13 Soil Analytical Results
RCRA Facility Investigation Report
Honeywell Delaware Valley Works
Claymont, Delaware
Wood Project No. 3482210786

Parameter	Location Sample ID			Units	SM13-GP16-03 37982-0009-09 11/9/2004		SM13-GP17-01 37982-0009-11 11/9/2004		SM13-GP17-02 37982-0009-12 11/9/2004		SM13-GP19-01 37982-0010-01 11/9/2004		SM13-GP19-02 37982-0010-02 11/9/2004		SM13-GP19-03 37982-0010-03 11/9/2004		SM13-GP21-01 37982-0011-02 11/10/2004		SM13-GP21-02 37982-0011-03 11/10/2004		SM13-GP22-01 37982-0011-04 11/10/2004		SM13-GP22-02 37982-0011-07 11/10/2004		SM13-GP22-03 37982-0011-08 11/10/2004		SM13-GP23-01 37982-0011-09 11/10/2004			
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20		Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Metals																														
Aluminum	1100000	600000		mg/kg				16300						11900		16100			28400								23400		14800	
Antimony	470	7	5.4	mg/kg	0.866	U		0.869	U		0.855	U		0.876	U	0.876	U		0.937	U		0.87	U		0.899	U	0.917	U	0.89	
Arsenic	3	0.03	5.8	mg/kg	5.3		5.51		6.01		18.7		5.43	J	12.5		4.19	J	6.06	J	8.61	J	4.95	J	6.06	J	4.95	J	5.48	J
Barium	220000	3200	1640	mg/kg	52.4	J		72.6	J		136	J		305	J	256	J		194	J		65.4	J		84.4	J	51.7	J	56.6	
Beryllium	2300	380	64	mg/kg	0.618	B		0.457	B		0.786	B		0.672	B	0.528	B		0.594	J		0.661	J		0.621	J	0.735	J	0.49	J
Cadmium	100	2.8	7.6	mg/kg	0.0655	U		0.0657	U		0.244	J		0.884	J	8.2			0.506	J		0.709	J		0.593	J	0.135	J	0.9	
Calcium				mg/kg				1840	J					10200		1520	J		813	J						1060	J	1160	J	
Chromium			3600000	mg/kg	58.1			38			28.2			94.2		60.7			32.2			26.5			28		28.8		30.9	
Cobalt	350	5.4		mg/kg	5.92			3.66			7.92			9.88		7.46			8.76			2.47			6.22		7.6		2.89	
Copper	47000	560	920	mg/kg	9.48			9.69			21.2			118		103			115			9.09	L		8.12	L	17.4	L	5.09	
Iron	820000	7000		mg/kg				23600								25900			22200			20000				20400		21800		
Lead	800		280	mg/kg	13.7			9.16			27.9			338		228			359			11.1			11.9		22.8		13.2	
Magnesium				mg/kg				2630						5940		2510			2040							1480		2230		
Manganese	26000	560		mg/kg				92.5	J					153		263			49.2							61.3		106		
Nickel	22000	520		mg/kg	10			10.5			17.3			195		17.7			11.3			9.07			13.1		13.5		7.54	
Potassium				mg/kg				1510	K					1660		1160	K		1290	K						1070	K	1050	K	
Selenium	5800	10.4	5.2	mg/kg	1.01	U		1.01	U		0.994	U		1.01	U	1.01	U		1.05	U		1.09	U		1.01	UL	1.04	U	1.07	
Silver	5800	16		mg/kg	0.152	U		0.153	U		0.15	U		0.153	U	0.152	U		0.154	U		0.158	U		0.165	U	0.153	UL	0.158	U
Sodium				mg/kg				35.6	U					104	J	114	J		47.2	J						114	J	178		
Thallium	12	0.28	2.8	mg/kg	1.35	J		1.43	J		1.69	J		1.67	J	1.63	J		2.02	J		2.01	J		1.85	J	1.38	J	1.12	
Tin	700000	60000		mg/kg	2.91	B					2.97	B		48		17.7										5.29	B	11	J	
Vanadium	5800	1720		mg/kg	34.3			40.9			29.8			33.7		36.8			31.6			37.9			44.6		43.6		39.8	
Zinc	350000	7400		mg/kg	33.7			32			134			126		158			149			34			27.7	J	36.5	J	38.5	
Mercury	46	0.66	2	mg/kg	0.0348	J		0.0039	UL		0.0039	UL		0.343		0.344			0.328			0.0299	J		0.0646	J	0.0444	J	0.0245	
Pesticides																														
4,4'-DDD	9.6	0.15		mg/kg	0.039	U		0.0004	U		0.02			0.14		0.096	J		0.21			0.0013	J		0.0021	U	0.0016	J	0.0041	U
4,4'-DDE	9.3	0.22		mg/kg	0.039	U		0.0016	J		0.03			0.2		0.18			0.0085	J		0.0021	U		0.0019	J	0.0051	J	0.0042	U
4,4'-DDT	8.5	1.54		mg/kg	0.11	U		0.0011	U		0.011	U		0.22	J	0.11	U		0.074	J		0.0023	J		0.0058	U	0.0039	U	4.4	J
Aldrin	0.18	0.003		mg/kg	0.039	U		0.0004	U		0.0039	U		0.02	U	0.039	U		0.016	U		0.0042	U		0.0021	U	0.0004	U	0.0042	U
Alpha-BHC	0.36	0.00084		mg/kg	0.02	U		0.00031	U		0.002	U		0.01	U	0.02	U		0.012	U		0.00033	U		0.0017	U	0.0002	U	0.0021	U
Beta-BHC	1.3	0.003		mg/kg	0.02	U		0.00021	U		0.002	U		0.01	U	0.02	U		0.0081	U		0.00021	U		0.0011	U	0.0002	U	0.0021	U
Chlordane				mg/kg	0.47	U		0.048	U		0.24	U		0.47	U											0.0048	U	0.05	U	
cis-Chlordane	500	9.8		mg/kg				0.00021	U					0.01	J	0.00021	U		0.0011	U					0.0011	U		0.0021	U	
Delta-BHC				mg/kg	0.025	U		0.001	J		0.0025	U		0.013	U	0.025	U		0.01	J		0.00027	U		0.0014	U	0.00025	U	0.0026	U
Dieldrin	0.14	0.00142		mg/kg	0.039	U		0.0004	U		0.0039	U		0.02	U	0.039	U		0.016	U		0.00042	U		0.0021	U	0.0004	U	0.0041	U
Endosulfan I				mg/kg	0.02	U		0.00021	U		0.002	U		0.01	U	0.002	U		0.0081	U		0.00021	U		0.0011	U	0.0002	U	0.0021	U
Endosulfan II				mg/kg	0.047	U		0.00048	U		0.0048	U		0.024	U	0.047	U		0.019	U		0.00051	U		0.0026	U	0.00048	U	0.0041	U
Endosulfan Sulfate	4900	42		mg/kg	0.039	U		0.0004	U		0.0059	J		0.02	U	0.039	U		0.016	U		0.00042	U		0.0021	U	0.0004	U	0.0041	U
Endrin	250	1.84	1.62	mg/kg	0.11	U		0.0011	U		0.011	U		0.054	U	0.11	U		0.043	U		0.0011	U		0.0058	U	0.0011	U	0.011	U
Endrin Aldehyde				mg/kg	0.14	U		0.0015	U		0.014	U		0.073	U	0.14	U		0.057	U		0.0015	U		0.0078	U	0.0014	U	0.015	U
Endrin Ketone				mg/kg				0.0004	U					0.016	U	0.00042	U		0.0021	U					0.0021	U		0.0042	U	
Gamma-BHC (Lindane)	2.5	0.0048	0.024	mg/kg	0.02	U		0.00041	J		0.0046	J		0.13	J	0.042	J		0.14	J		0.00021	U		0.0011	U	0.0002	U	0.0021	U
Gamma-Chlordane				mg/kg	0.02	U		0.00021	U		0.002	U		0.01	U	0.002	U		0.0081	U		0.00021	U		0.0011	U	0.0002	U	0.0021	U
Heptachlor	0.63	0.0024	0.66	mg/kg	0.027	U		0.00028	U		0.0027	U		0.014	U	0.027	U		0.011	U		0.00029	U		0.0015	U	0.00028	U	0.0029	U
Heptachlor Epoxide	0.33	0.00056	0.082	mg/kg	0.27	U		0.0028	U		0.027	U		0.14	U	0.27	U		0.12	U		0.0029	U		0.015	U	0.0028	U	0.029	U
Methoxychlor	4100	40	44	mg/kg	0.2	U		0.0021	U		0.02	U		0.1	U	0.2	U		0.081	U		0.0021	U		0.011	U	0.021	U	0.021	U
Toxaphene	2.1	0.22	9.2	mg/kg	1.3	U		0.013	U		0.13	U		0.67	U	1.3	U		0.53	U		0.014	U		0.071	U	0.013	U	0.14	U
trans-Chlordane	500	28		mg/kg				0.0045	J							0.014	U		0.014	U		0.00037	U		0.0019	U		0.003		

Table 2. SWMU 13 Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location			SM13-GP16-03		SM13-GP17-01		SM13-GP17-02		SM13-GP19-01		SM13-GP19-02		SM13-GP19-03		SM13-GP21-01		SM13-GP21-02		SM13-GP22-01		SM13-GP22-02		SM13-GP22-03		SM13-GP23-01				
	Sample ID			37982-0009-09		37982-0009-11		37982-0009-12		37982-0010-01		37982-0010-02		37982-0010-03		37982-0011-02		37982-0011-03		37982-0011-04		37982-0011-07		37982-0011-08		37982-0011-09				
	Sample Date			11/9/2004		11/9/2004		11/9/2004		11/9/2004		11/9/2004		11/9/2004		11/10/2004		11/10/2004		11/10/2004		11/10/2004		11/10/2004		11/10/2004				
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual		
1,3-Dichloropropane	23000	2.6		mg/kg	0.001	U			0.001	U	2.1	U	0.24	U					0.001	U	0.001	U			0.001	U	0.001	U		
1,4-Dichlorobenzene	11	0.0092	1.44	mg/kg	0.001	U	0.001	U	0.001	U	28		2.2		11		0.001	U	0.001	U	0.001	U			0.001	U	0.001	U		
1,4-Dioxane	24	0.00188		mg/kg																										
2,2-Dichloropropane				mg/kg	0.001	U			0.001	U	2.1	U	0.24	U					0.001	U	0.001	U								
2-Butanone	190000	24		mg/kg	0.004	U	0.004	R	0.004	U	8.6	U	0.98	U	4	U	0.005	U	0.005	U	0.005	J	0.004	U		0.005	U	0.004	U	
2-Chloroethyl Vinyl Ether				mg/kg																										
2-Chlorotoluene	23000	4.6		mg/kg	0.001	U			0.001	U	2.1	U	0.24	U					0.001	U	0.001	U			0.001	U	0.001	U		
2-Hexanone	1300	0.176		mg/kg	0.003	U	0.003	U	0.003	U	6.4	U	0.73	U	3	U	0.003	U	0.003	U	0.003	U			0.003	U	0.003	U	0.004	U
4-Chlorotoluene	23000	4.8		mg/kg	0.001	U			0.001	U	2.1	U	0.24	U					0.001	U	0.001	U			0.001	U	0.001	U	0.003	U
4-Methyl-2-Pentanone	140000	28		mg/kg	0.003	U	0.003	U	0.003	U	6.4	U	0.73	U	3	U	0.003	U	0.003	U	0.003	U			0.003	U	0.003	U	0.004	U
Acetone	1100000	74		mg/kg	0.011	J	0.008	R	0.014	J	15	R	1.7	R	7	R	0.019	J	0.015	J	0.015	J	0.037	L	0.019	J	0.029	L	0.013	J
Acetonitrile	3400	0.52		mg/kg	0.027	R			0.025	R	54	R	6.1	R					0.025	R	0.027	R			0.027	R	0.027	R	0.001	U
Acrolein	0.6	0.000168		mg/kg	0.022	U	0.022	U	0.02	U	43	U	4.9	U	20	U	0.023	U	0.023	U	0.023	U			0.024	U	0.024	U	0.021	U
Acrylonitrile	1.1	0.00022		mg/kg	0.004	U			0.004	U	8.6	U	0.98	U					0.004	U	0.004	U			0.004	U	0.004	U		
Allyl Chloride	3.2	0.0046		mg/kg	0.001	U			0.001	U	2.1	U	0.24	U					0.001	U	0.001	U			0.001	U	0.001	U		
Benzene	5.1	0.0046	0.052	mg/kg	0.001	J	0.0005	U	0.0007	J	1.1	U	0.12	U	0.5	U	0.0006	U	0.002	J	0.003	J	0.0007	J	0.011		0.0005	U		
Bromobenzene	1800	0.84		mg/kg	0.001	U			0.001	U	2.1	U	0.24	U					0.001	U	0.001	U			0.001	U	0.001	U		
Bromochloromethane	630	0.42		mg/kg	0.001	U			0.001	U	2.1	U	0.24	U					0.001	U	0.001	U			0.001	U	0.001	U		
Bromodichloromethane	1.3	0.00072	0.44	mg/kg	0.001	U	0.001	U	0.001	U	2.1	U	0.24	U	1	U	0.001	U	0.001	U	0.001	U			0.001	U	0.001	U	0.001	U
Bromoform	86	0.0174	0.42	mg/kg	0.001	U	0.001	U	0.001	U	2.1	U	0.24	U	1	U	0.001	U	0.001	U	0.001	U			0.001	U	0.001	U	0.001	U
Bromomethane	30	0.038		mg/kg	0.002	U	0.002	U	0.002	U	4.3	U	0.49	U	2	U	0.002	U	0.002	U	0.002	U			0.002	U	0.002	U	0.002	U
Butylbenzene	58000	64		mg/kg	0.001	U			0.001	U	2.1	U	0.24	U					0.001	U	0.001	U			0.001	U	0.001	U		
Carbon Disulfide	3500	4.8		mg/kg	0.002	J	0.001	U	0.013		2.1	U	0.24	U	1	U	0.002	J	0.003	J	0.01		0.011		0.003	J	0.001	J	0.001	J
Carbon Tetrachloride	2.9	0.0036	0.038	mg/kg	0.001	U	0.001	U	0.001	U	2.1	U	0.24	U	1	U	0.001	U	0.001	U	0.001	U			0.001	U	0.001	U	0.001	U
Chlorobenzene	1300	1.06	1.36	mg/kg	0.001	U	0.001	U	0.001	U	2.1	U	0.24	U	1	U	0.001	U	0.001	U	0.001	U			0.001	U	0.001	U	0.001	U
Chloroethane	23000	48		mg/kg	0.002	U	0.002	U	0.002	U	4.3	U	0.49	U	2	U	0.002	U	0.002	U	0.002	U			0.002	U	0.002	U	0.002	U
Chloroform	1.4	0.00122	0.44	mg/kg	0.002	J	0.001	U	0.003	J	2.1	U	0.24	U	1	U	0.001	U	0.001	U	0.001	U			0.001	U	0.001	U	0.001	U
Chloromethane	460	0.98		mg/kg	0.002	U	0.002	U	0.002	U	4.3	U	0.49	U	2	U	0.002	U	0.002	U	0.002	U			0.002	U	0.002	U	0.002	U
Chloroprene	0.044	0.000196		mg/kg	0.001	U			0.001	U	2.1	U	0.24	U					0.001	U	0.001	U			0.001	U	0.001	U		
cis-1,2-Dichloroethene	2300	0.22	0.42	mg/kg	0.001	U	0.001	U	0.001	U	2.2	J	0.89	J	1.6	J	0.001	U	0.001	U	0.001	U			0.001	U	0.001	U	0.001	U
cis-1,3-Dichloropropene				mg/kg	0.001	U	0.001	U	0.001	U	2.1	U	0.24	U	1	U	0.001	U	0.001	U	0.001	U			0.001	U	0.001	U	0.001	U
cis-1,4-Dichloro-2-Butene	0.032	0.0000124		mg/kg																										
Cyclohexane	27000	260		mg/kg			0.001	U							1	U	0.001	U	0.001	U	0.001	U			0.001	U	0.001	U	0.001	U
Dibromochloromethane	39	0.0046	0.42	mg/kg	0.001	U	0.001	U	0.001	U	2.1	U	0.24	U	1	U	0.001	U	0.001	U	0.001	U			0.001	U	0.001	U	0.001	U
Dibromomethane	99	0.042		mg/kg	0.001	U			0.001	U	2.1	U	0.24	U					0.001	U	0.001	U			0.001	U	0.001	U	0.001	U
Dichlorodifluoromethane	370	6		mg/kg	0.002	U	0.002	U	0.002	U	4.3	U	0.49	U	2	U	0.002	U	0.002	U	0.002	U			0.002	U	0.002	U	0.002	U
Ethane, Pentachloro-	36	0.0062		mg/kg	0.001	U			0.001	U	2.1	U	0.24	U					0.001	U	0.001	U			0.001	U	0.001	U		
Ethyl Cyanide				mg/kg	0.032	U	0.032	U	0.03	U	64	R	7.3	R	30	U	0.035	U	0.034	U	0.03	U			0.032	U	0.035	U	0.032	U
Ethyl Methacrylate	7600	3		mg/kg	0.001	U			0.001	U	2.1	U	0.24	U					0.001	U	0.001	U			0.001	U	0.001	U		
Ethylbenzene	25	0.034	15.6	mg/kg	0.001	U	0.001	U	0.001	U	2.1	U	0.24	U	1	U	0.001	U	0.001	U	0.001	U			0.001	U	0.001	U	0.001	U
Hexachlorobutadiene	5.3	0.0054		mg/kg	0.002	U			0.002	U	4.3	U	0.49	U					0.002	U	0.002	U			0.002	U	0.002	U		
Iodomethane				mg/kg	0.003	U			0.003	U	6.4	U	0.73	U					0.003	U	0.003	U			0.003	U	0.003	U		
Isobutanol	350000	24		mg/kg	0.11	R			0.1	R	210	R	24	R					0.1	R	0.11	R			0.11	R	0.11	R		
Isopropylbenzene	9900	14.8		mg/kg	0.001	U	0.001	U	0.001	U	2.1	U	0.24	U	1	U	0.001	U	0.001	U	0.001	U			0.001	U	0.001	U	0.001	U
m&p-Xylenes				mg/kg	0.001	U			0.001	J	2.1	U	0.24	U					0.001	U										

Table 2. SWMU 13 Soil Analytical Results
RCRA Facility Investigation Report
Honeywell Delaware Valley Works
Claymont, Delaware
Wood Project No. 3482210786

Parameter	Location			Units	SM13-GP16-03		SM13-GP17-01		SM13-GP17-02		SM13-GP19-01		SM13-GP19-02		SM13-GP19-03		SM13-GP21-01		SM13-GP21-02		SM13-GP22-01		SM13-GP22-02		SM13-GP22-03		SM13-GP23-01			
	Sample ID	Sample Date	Risk-Based SSL		Industrial SSL	DAF-20	MCL-Based SSL	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	
																														37982-0009-09
1-Naphthylamine						mg/kg	0.99	U			0.99	U			0.99	U					1	U			1	U				
2,2'-Oxybis(1-Chloropropane)	47000	5.2				mg/kg	0.2	U	0.04	U	0.2	U	0.2	U	0.2	U	0.04	U	0.042	U	0.043	U	0.2	U	0.21	U	0.042	U	0.041	U
2,3,4,6-Tetrachlorophenol	25000	3.6				mg/kg	0.39	U			0.4	U	0.4	U	0.39	U							0.4	U	0.41	U				
2,4,5-Trichlorophenol	82000	80				mg/kg	0.2	U	0.04	U	0.2	U	0.2	U	0.2	U	0.04	U	0.042	U	0.043	U	0.2	U	0.21	U	0.042	U	0.041	U
2,4,6-Trichlorophenol	210	0.08				mg/kg	0.2	U	0.04	U	0.2	U	0.2	U	0.2	U	0.04	U	0.042	U	0.043	U	0.2	U	0.21	U	0.042	U	0.041	U
2,4-Dichlorophenol	2500	0.46				mg/kg	0.2	U	0.04	U	0.2	U	0.2	U	0.2	U	0.04	U	0.042	U	0.043	U	0.2	U	0.21	U	0.042	U	0.041	U
2,4-Dimethylphenol	16000	8.4				mg/kg	0.2	U	0.04	U	0.2	U	0.2	U	0.2	U	0.04	U	0.042	U	0.043	U	0.2	U	0.21	U	0.042	U	0.041	U
2,4-Dinitrophenol	1600	0.88				mg/kg	3.9	UJ	0.81	U	4	U	4	U	3.9	U	0.8	U	0.84	U	0.86	U	4	UJ	4.1	U	0.84	U	0.81	U
2,4-Dinitrotoluene	7.4	0.0064				mg/kg	20		0.16	J	17		38		15		49		0.084	U	0.086	U	0.4	U	0.41	U	0.084	U	0.081	U
2,6-Dichlorophenol						mg/kg	0.39	U			0.4	U	0.4	U	0.39	U							0.4	U	0.41	U				
2,6-Dinitrotoluene	1.5	0.00134				mg/kg	19		0.04	U	4.8		14		5		15		0.042	U	0.043	U	0.2	U	0.21	U	0.042	U	0.041	U
2-Acetylaminofluorene (TIC)	0.6	0.0015				mg/kg	0.39	U			0.4	U	0.4	U	0.39	U							0.4	U	0.41	U				
2-Chloronaphthalene	60000	78				mg/kg	0.2	U	0.04	U	0.2	U	0.2	U	0.2	U	0.04	U	0.042	U	0.043	U	0.2	U	0.21	U	0.042	U	0.041	U
2-Chlorophenol	5800	1.78				mg/kg	0.2	U	0.04	U	0.2	U	0.2	U	0.2	U	0.04	U	0.042	U	0.043	U	0.2	U	0.21	U	0.042	U	0.041	U
2-Methylnaphthalene	3000	3.8				mg/kg	0.2	U	0.04	U	0.2	U	0.2	U	0.2	U	0.12	J	0.042	U	0.043	U	0.2	U	0.21	U	0.042	U	0.041	U
2-Methylphenol	41000	15				mg/kg	0.2	U	0.04	U	0.2	U	0.2	U	0.2	U	0.04	U	0.042	U	0.043	U	0.2	U	0.21	U	0.042	U	0.041	U
2-Naphthylamine	1.3	0.004				mg/kg	0.99	U			0.99	U	1	U	0.99	U							1	U	1	U				
2-Nitroaniline	8000	1.6				mg/kg	0.2	U	0.04	U	0.2	U	0.2	U	0.2	U	0.22	J	0.042	U	0.043	U	0.22	U	0.21	U	0.042	U	0.041	U
2-Nitrophenol						mg/kg	0.2	U	0.04	U	0.2	U	0.2	U	0.2	U	0.04	U	0.042	U	0.043	U	0.2	U	0.21	U	0.042	U	0.041	U
2-Picoline						mg/kg	0.39	U			0.4	U	0.4	U	0.39	U							0.4	U	0.41	U				
3,3'-Dichlorobenzidine	5.1	0.0164				mg/kg	0.39	U	0.081	U	0.4	U	0.4	U	0.39	U	0.08	U	0.084	U	0.086	U	0.4	U	0.41	U	0.084	U	0.081	U
3,3'-Dimethylbenzidine	0.21	0.00086				mg/kg	0.99	U			0.99	U	1	U	0.99	U							1	U	1	U				
3-Methylcholanthrene	0.1	0.044				mg/kg	0.39	U			0.4	U	0.4	U	0.39	U							0.4	U	0.41	U				
3-Nitroaniline						mg/kg	0.39	U	0.081	U	0.4	U	0.55	J	0.39	U	0.53		0.084	U	0.086	U	0.4	U	0.41	U	0.084	U	0.081	U
4,6-Dinitro-2-Methylphenol	66	0.052				mg/kg	0.99	U	0.2	U	0.99	U	1	U	0.99	U	0.2	U	0.21	U	0.22	U	1	U	1	U	0.21	U	0.2	U
4-Aminobiphenyl	0.11	0.0003				mg/kg	0.99	U			0.99	U	1	U	0.99	U							1	U	1	U				
4-Bromophenyl Phenyl Ether						mg/kg	0.2	U	0.04	U	0.2	U	0.2	U	0.2	U	0.04	U	0.042	U	0.043	U	0.2	U	0.21	U	0.042	U	0.041	U
4-Chloro-3-Methylphenol	82000	34				mg/kg	0.39	UJ	0.081	U	0.4	U	0.4	U	0.39	U	0.08	U	0.084	U	0.086	U	0.4	U	0.41	U	0.084	U	0.081	U
4-Chloroaniline	11	0.0032				mg/kg	0.2	U	0.04	U	0.2	U	0.2	U	0.2	U	0.04	U	0.042	U	0.043	U	0.2	U	0.21	U	0.042	U	0.041	U
4-Chlorophenyl Phenyl Ether						mg/kg	0.2	U	0.04	U	0.2	U	0.2	U	0.2	U	0.04	U	0.042	U	0.043	U	0.2	U	0.21	U	0.042	U	0.041	U
4-Methylphenol	16000	6				mg/kg	0.39	U	0.081	U	0.4	U	0.4	U	0.39	U	0.08	U	0.084	U	0.086	U	0.4	U	0.41	U	0.084	U	0.081	U
4-Nitroaniline	110	0.032				mg/kg	0.39	U	0.081	U	0.4	U	0.4	U	0.39	U	0.18	J	0.084	U	0.086	U	0.4	U	0.41	U	0.084	U	0.081	U
4-Nitrophenol						mg/kg	0.99	U	0.2	U	0.99	U	1	U	0.99	U	0.2	U	0.21	U	0.22	U	1	U	1	U	0.21	U	0.2	U
5-Nitro-o-Toluidine	260	0.092				mg/kg	2.2	J			0.99	U	3	J									1	U	1	U				
7,12-Dimethylbenz(A)Anthracene	0.0084	0.00198				mg/kg	0.2	U			0.2	U	0.2	U	0.2	U							0.2	U	0.21	U				
Acenaphthene	45000	110				mg/kg	0.2	U	0.04	U	0.2	U	0.2	U	0.2	U	0.046	J	0.042	U	0.043	U	0.2	U	0.21	U	0.042	U	0.041	U
Acenaphthylene						mg/kg	0.2	U	0.04	U	0.2	U	0.2	U	0.2	U	0.04	U	0.042	U	0.043	U	0.2	U	0.21	U	0.042	U	0.041	U
Acetophenone	120000	11.6				mg/kg	0.39	U	0.081	U	0.4	U	0.4	U	0.39	U	0.08	U	0.084	U	0.086	U	0.4	U	0.41	U	0.084	U	0.081	U
Aniline	400	0.092				mg/kg	1.5	J			0.2	U	0.2	U	0.2	U							0.2	U	0.21	U	0.2	U	0.2	U
Anthracene	230000	1160				mg/kg	0.2	U	0.04	U	0.2	U	0.2	U	0.2	U	0.064	J	0.042	U	0.043	U	0.2	U	0.21	U	0.042	U	0.041	U
Atrazine	10	0.004	0.038			mg/kg	0.2	UJ	0.04	U	0.2	UJ	0.2	UJ	0.2	UJ	0.04	U	0.042	U	0.043	U	0.2	UJ	0.21	UJ	0.042	U	0.041	U
Azobenzene	26	0.0186				mg/kg																								
Benzaldehyde	820	0.082				mg/kg	0.2	UJ	0.04	U	0.2	UJ	0.2	UJ	0.2	UJ	0.04	U	0.042	U	0.043	U	0.2	UJ	0.21	UJ	0.042	U	0.041	U
Benzenamine, N,N-Dimethyl-4-(Pehnylazo)-	0.5	0.00042				mg/kg	0.39	U			0.4	U	0.4	U	0.39	U							0.4	U	0.41	U				
Benzenethanamine, Alpha, Alpha-Dimethyl-						mg/kg	0.2	UJ			0.2	UJ	0.2	UJ	0.2	UJ							0.2	UJ	0.21	UJ				
Benzidine	0.01	0.0000056				mg/kg	3.9	U			4	U	4	U																

Table 2. SWMU 13 Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location			Units	SM13-GP16-03		SM13-GP17-01		SM13-GP17-02		SM13-GP19-01		SM13-GP19-02		SM13-GP19-03		SM13-GP21-01		SM13-GP21-02		SM13-GP22-01		SM13-GP22-02		SM13-GP22-03		SM13-GP23-01		
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20		Sample ID	Sample Date	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result
Hexachloroethane	8	0.004		37982-0009-09	11/9/2004	0.2	U	0.04	U	0.2	U	0.2	U	0.2	U	0.04	U	0.042	U	0.043	U	0.2	U	0.21	U	0.042	U	0.041	U
Hexachloropropene						0.59	U			0.6	U	0.61	U	0.59	U							0.6	U	0.62	U				
Indeno(1,2,3-Cd)Pyrene	21	19.6				0.2	U	0.04	U	0.2	U	0.2	U	0.2	U	0.19	J	0.042	U	0.043	U	0.2	U	0.21	U	0.042	U	0.041	U
Isodrin						0.2	U			0.2	U	0.2	U	0.2	U							0.2	U	0.21	U				
Isophorone	2400	0.52				0.2	U	0.04	U	0.2	U	0.2	U	0.2	U	0.04	U	0.042	U	0.043	U	0.2	U	0.21	U	0.042	U	0.041	U
Isosafrole						0.39	U			0.4	U	0.4	U	0.39	U							0.4	U	0.41	U				
Kepon	0.23	0.0024																											
Methanesulfonic Acid, Ethyl Ester						0.39	U			0.4	U	0.4	U	0.39	U							0.4	U	0.41	U				
Methapyrene						0.59	UJ			0.6	U	0.61	U	0.59	U							0.6	UJ	0.62	U				
Methyl Methanesulfonate	23	0.0032				0.2	U			0.2	U	0.2	U	0.2	U							0.2	U	0.21	U				
Methyl Parathion	210	0.148																				0.2	U	0.21	U				
Naphthalene	8.6	0.0076				0.2	U	0.04	U	0.2	U	0.2	U	0.2	U	0.069	J	0.042	U	0.043	U	0.2	U	0.21	U	0.042	U	0.041	U
Nitrobenzene	22	0.00184				0.2	U	0.04	U	0.2	J	0.38	J	0.22	J	0.35	J	0.042	U	0.043	U	0.2	U	0.21	U	0.042	U	0.041	U
n-Nitrosodiethylamine	0.015	0.00000122				0.39	U			0.4	U	0.4	U	0.39	U							0.4	U	0.41	U				
n-Nitrosodimethylamine	0.034	0.00000054				0.39	U			0.4	U	0.4	U	0.39	U							0.4	U	0.41	U				
n-Nitrosodi-n-Butylamine	0.46	0.00011				0.39	U			0.4	U	0.4	U	0.39	U							0.4	U	0.41	U				
n-Nitroso-di-n-Propylamine	0.33	0.000162				0.2	U	0.04	U	0.2	U	0.2	U	0.2	U	0.04	U	0.042	U	0.043	U	0.2	U	0.21	U	0.042	U	0.041	U
n-Nitrosodiphenylamine	470	1.34				0.2	U	0.04	U	0.2	U	0.2	U	0.22	J	0.04	U	0.042	U	0.043	U	0.2	U	0.21	U	0.16	J	0.041	U
n-Nitrosomethylethylamine	0.091	0.000004				0.39	U			0.4	U	0.4	U	0.39	U							0.4	U	0.41	U				
n-Nitrosomorpholine	0.34	0.000056				0.39	U			0.4	U	0.4	U	0.39	U							0.4	U	0.41	U				
n-Nitrosopiperidine	0.24	0.000088				0.39	U			0.4	U	0.4	U	0.39	U							0.4	U	0.41	U				
n-Nitrosopyrrolidine	1.1	0.00028				0.39	U			0.4	U	0.4	U	0.39	U							0.4	U	0.41	U				
O,O,O-Triethyl Phosphorothioate						0.39	U			0.4	U	0.4	U	0.39	U							0.4	U	0.41	U				
o-Toluidine	140	0.04				0.39	U			0.4	U	0.4	U	0.39	U							0.4	U	0.41	U				
Pentachlorobenzene	930	0.48				0.39	U			0.4	U	0.4	U	0.39	U							0.4	U	0.41	U				
Pentachloronitrobenzene	13	0.03				0.79	U			0.79	U	0.81	U	0.79	U							0.8	U	0.83	U				
Pentachlorophenol	4	0.00114	0.028			0.99	U	0.2	U	0.99	U	1	U	0.99	U	0.2	U	0.21	U	0.22	U	1	U	1	U	0.21	U	0.2	U
Phenacetin	1000	0.194				0.39	U			0.4	U	0.4	U	0.39	U							0.4	U	0.41	U				
Phenanthrene						0.2	U	0.04	U	0.2	U	0.34	J	0.29	J	0.46		0.042	U	0.043	U	0.2	U	0.21	U	0.042	U	0.041	U
Phenol	250000	66				0.2	U	0.04	U	0.2	U	6		1.8	J	4		0.042	U	0.043	U	0.2	U	0.21	U	0.042	U	0.041	U
Phorate	160	0.068																											
p-Phenylenediamine	820	0.108				15	UJ			15	UJ	15	UJ	15	UJ							15	UJ	15	UJ				
Pronamide	62000	24				0.79	U			0.79	U	0.81	U	0.79	U							0.8	U	0.83	U				
Pyrene	23000	260				0.2	U	0.04	U	0.2	U	0.51	J	0.38	J	0.57		0.063	J	0.043	U	0.2	U	0.21	U	0.042	U	0.041	U
Pyridine	1200	0.136				0.39	U			0.4	U	0.4	U	0.39	U							0.4	U	0.41	U				
Quinoline, 4-Nitro-1-Oxide-						2	U			2	U	2	U	2	U							2	UJ	2.1	UJ				
Safrole	10	0.00118				0.39	U			0.4	U	0.4	U	0.39	U							0.4	U	0.41	U				
Thionazine						0.39	U			0.4	U	0.4	U	0.39	U							0.4	U	0.41	U				
Thiopyrophosphoric Acid ((Ho)2P(S)2O), Tetraethyl	410	0.104				0.39	U			0.4	U	0.4	U	0.39	U							0.4	U	0.41	U				
Total Aramite	92	0.3				0.2	UJ			0.2	UJ	0.2	UJ	0.2	UJ							0.2	UJ	0.21	UJ				

Notes:

Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), Industrial Soil Screening Level (SSL) (November 2021)

Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20

Exceeds the EPA RSL, Maximum Contaminant Level (MCL) SSL assuming a DAF of 20

Blanks indicate RSL not established or constituent not analyzed

RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0

U = undetected

J = estimated value

J+ = estimated biased high

J- = estimated biased low

R = rejected

MG/KG - milligram per kilogram

SWMU = Solid Waste Management Unit

RCRA = Resource Conservation and Recovery Act

Sample depth shown in Sample ID (e.g., SBBF3-04_6-8 indicates 6 to 8-foot sample)

DUP = Duplicate sample

Exceedances shown may exceed one or more criteria if available

Table 2. SWMU 13 Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location				SM13-GP23-02		SM13-GP24-01		SM13-GP24-02		SM13-GP25-01		SM13-GP25-02		SM13-GP26-01		SM13-GP26-02		SM13-GP26-02		SM13-GP27-01		SM13-GP27-02		SM13-GP27-03		SM13-GP27-03	
	Sample ID				37982-0011-10		37982-0013-02		37982-0013-03		37982-0013-04		37982-0013-05		37982-0013-06		37982-0013-08		37982-0013-07		37982-0016-01		37982-0016-02		37982-0016-03		37982-0016-05	
	Sample Date				11/10/2004		11/16/2004		11/16/2004		11/16/2004		11/16/2004		11/16/2004		11/16/2004		11/16/2004		11/17/2004		11/17/2004		11/17/2004		11/17/2004	
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Metals																												
Aluminum	1100000	600000		mg/kg	26200						22000		15300								22000							
Antimony	470	7	5.4	mg/kg	0.953	U	0.954	UL	0.858	UL	0.891	UL	0.876	UL	0.885	UL	0.909	UL	0.869	UL	0.886	UL	0.867	UL	0.886	UL	0.859	UL
Arsenic	3	0.03	5.8	mg/kg	5.01	J	5.06		0.827	J	3.3		2.2		5.64		8.49		4.92		7.16		2.99		1.26		1.16	
Barium	220000	3200	1640	mg/kg	73.2		77.8	J	79.2	J	112	J	50.7	J	53.7	J	125	J	55.4	J	38.2	J	91.2	J	77.3	J	73.9	J
Beryllium	2300	380	64	mg/kg	0.671		0.418	J	0.353	J	0.534	J	1.15		0.518	J	0.269	J	0.461	J	0.269	J	0.415	J	0.481	J	0.415	J
Cadmium	100	2.8	7.6	mg/kg	0.196	J	0.0992	J	0.065	U	0.0674	U	0.0663	U	0.067	U	0.0688	U	0.0657	U	0.067	U	0.0714	J	0.073	J	0.0917	J
Calcium				mg/kg	1160	J			731		395										945							
Chromium			3600000	mg/kg	36.5		25		24.7		33.5		24.9		31.4		30.2		29.9		25.3				19.8		17.5	
Cobalt	350	5.4		mg/kg	3.09		3.9		4.44		4.84		4		11.3		3.92		2.93		4.49		5.59		5.12		5.12	
Copper	47000	560	920	mg/kg	7.14	L	27.1	J	11.9	J	14.1	J	11	J	8.89	J	14	J	8.33	J	10.3	J	10.1	J	9.37	J	9.37	J
Iron	820000	7000		mg/kg	26000				18000		24200											24200						
Lead	800		280	mg/kg	16.9		25		10.4		13.5		10		7.81		15.9		7.45		14.9		14.5		9.51		8.92	
Magnesium				mg/kg	1770				2120		1920										2010							
Manganese	26000	560		mg/kg	65				57.1	J	68.4	J									58.9	J						
Nickel	22000	520		mg/kg	9.55		11.8		16.7		13.2		12.4		9.91		29		9.47		10.5		12.6		13.9		12.8	
Potassium				mg/kg	1410	K			1180		1130										1490							
Selenium	5800	10.4	5.2	mg/kg	1.11	U	1.11	U	0.998	U	1.04	U	1.02	U	1.03	U	1.06	U	1.01	U	1.03	U	1.01	U	1.03	U	0.998	U
Silver	5800	16		mg/kg	0.297	J	0.168	U	0.151	U	0.157	U	0.154	U	0.155	U	0.16	U	0.153	U	0.156	U	0.152	U	0.156	U	0.151	U
Sodium				mg/kg	294				74.1	B	64.4	B									461							
Thallium	12	0.28	2.8	mg/kg	3.13		1.19	U	1.23	B	1.11	U	1.09	U	2.1	B	1.7	B	2.39	B	3.15	B	1.13	B	1.1	U	1.09	B
Tin	700000	60000		mg/kg			3.88	B	1.92	B			2.78	B	2.36	B	2.35	B	2.8	B	2.38	B	1.91	B	2.38	B	1.91	B
Vanadium	5800	1720		mg/kg	47.4		35.5		22.6		32.9		31.1		36.1		43.3		22.1		43.3		22.1		18.8		18.8	
Zinc	350000	7400		mg/kg	36.8	J	46.7		55.2		35.2		41.3		29		80.9		28.6		39.3		51.9		48.5		48.5	
Mercury	46	0.66	2	mg/kg	0.118	J	0.0458	J	0.0039	J	0.0222	J	0.057	J	0.0041	J	0.0362	J	0.004	UL	0.0821	J	0.0652	J	0.0039	UL	0.0037	UL
Pesticides																												
4,4'-DDD	9.6	0.15		mg/kg	0.0088	U	0.00043	U	0.0079	U	0.0081	U	0.0079	U	0.0004	U	0.00041	U	0.0004	U	0.0041	U	0.008	U	0.008	U	0.0078	U
4,4'-DDE	9.3	0.22		mg/kg	0.0088	U	0.003	J	0.0079	U	0.0081	U	0.0079	U	0.0004	U	0.00041	U	0.0004	U	0.0041	U	0.008	U	0.008	U	0.0078	U
4,4'-DDT	8.5	1.54		mg/kg	0.024	UJ	0.0024	J	0.022	U	0.022	U	0.022	U	0.0011	U	0.0011	U	0.0011	U	19	J	0.022	U	0.022	U	0.021	U
Aldrin	0.18	0.003		mg/kg	0.0088	U	0.00043	U	0.0079	U	0.0081	U	0.0079	U	0.0004	U	0.00041	U	0.0004	U	0.0041	U	0.008	U	0.008	U	0.0078	U
Alpha-BHC	0.36	0.00084		mg/kg	0.0045	U	0.00053	J	0.0041	U	0.0064	U	0.0062	U	0.00021	U	0.0006	J	0.00021	U	0.0021	U	0.0063	U	0.0041	U	0.004	U
Beta-BHC	1.3	0.003		mg/kg	0.0045	U	0.00022	U	0.0041	U	0.0042	U	0.0041	U	0.00021	U	0.00021	U	0.00021	U	0.0021	U	0.0041	U	0.0041	U	0.004	U
Chlordane				mg/kg	0.0045	U	0.0052	U	0.096	U					0.0049	U	0.0049	U	0.0049	U	0.049	U	0.097	U	0.097	U	0.095	U
cis-Chlordane	500	9.8		mg/kg	0.0045	U			0.0042	U	0.0069	J									0.0058	J						
Delta-BHC				mg/kg	0.0056	U	0.00099	J	0.005	U	0.0052	U	0.029	J	0.00028	J	0.00064	J	0.0003	J	0.0083	J	0.0051	U	0.0051	U	0.005	U
Dieldrin	0.14	0.00142		mg/kg	0.0088	U	0.00043	U	0.0079	U	0.0081	U	0.0079	U	0.0004	U	0.00041	U	0.0004	U	0.0041	U	0.008	U	0.008	U	0.0078	U
Endosulfan I	0.0045	0.0045		mg/kg	0.0045	U	0.00022	U	0.0041	U	0.013	J	0.00021	U	0.00021	U	0.00021	U	0.00021	U	0.0021	U	0.0073	J	0.0089	J	0.0087	J
Endosulfan II				mg/kg	0.011	U	0.00052	U	0.0096	U	0.0098	U	0.0096	U	0.00049	U	0.00049	U	0.00049	U	0.0049	U	0.0097	U	0.0097	U	0.0095	U
Endosulfan Sulfate	4900	42		mg/kg	0.0088	U	0.00043	U	0.0079	U	0.0081	U	0.013	J	0.0004	U	0.00041	U	0.0004	U	14	J	0.008	U	0.008	J	0.013	J
Endrin	250	1.84	1.62	mg/kg	0.024	U	0.0012	U	0.022	U	0.022	U	0.022	U	0.0011	U	0.0011	U	0.011	U	0.022	U	0.022	U	0.022	U	0.021	U
Endrin Aldehyde				mg/kg	0.032	U	0.0015	U	0.029	U	0.029	U	0.029	U	0.0015	U	0.0015	U	0.015	U	0.029	U	0.029	U	0.029	U	0.028	U
Endrin Ketone				mg/kg	0.0088	U			0.0081	U	0.048	J									0.008	U						
Gamma-BHC (Lindane)	2.5	0.0048	0.024	mg/kg	0.0045	U	0.00022	U	0.0041	U	0.074	J	0.25	J	0.00025	J	0.00021	U	0.00021	U	0.0021	U	0.0041	U	0.12	J	0.12	J
Gamma-Chlordane				mg/kg	0.0045	U	0.00022	U	0.0041	U	0.0042	U	0.0041	U	0.00021	U	0.00021	U	0.00021	U	0.0021	U	0.0041	U	0.0041	U	0.004	U
Heptachlor	0.63	0.0024	0.66	mg/kg	0.0061	U	0.0003	U	0.0055	U	0.0057	U	0.0055	U	0.00028	U	0.00028	U	0.00028	U	0.0028	U	0.0056	U	0.0056	U	0.0054	U
Heptachlor Epoxide	0.33	0.00056	0.082	mg/kg	0.061	UJ	0.003	U	0.055	U	0.057	U	0.055	U	0.0028	U	0.0028	U	0.0028	U	0.028	U	0.056	U	0.056	U	0.054	U
Methoxychlor	4100	40		mg/kg	0.045	UJ	0.0022	U	0.041	U	0.042	U	0.041	U	0.0021	U	0.0021	U	0.0021	U	0.021	U	0.041	U	0.041	U	0.04	U
Toxaphene	2.1																											

Table 2. SWMU 13 Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location			Units	SM13-GP23-02		SM13-GP24-01		SM13-GP24-02		SM13-GP25-01		SM13-GP25-02		SM13-GP26-01		SM13-GP26-02		SM13-GP26-02		SM13-GP27-01		SM13-GP27-02		SM13-GP27-03		SM13-GP27-03					
	Industrial SSL	Risk-Based SSL	MCL-Based SSL		Sample ID	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual			
	DAF-20	DAF-20	DAF-20		Sample Date																											
1,3-Dichloropropane	23000	2.6		37982-0011-10			0.12	U		0.051	U				0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U		
1,4-Dichlorobenzene	11	0.0092	1.44	11/10/2004	0.002	J	0.82	U	0.28	U	0.051	UJ	0.21	J	0.001	U	0.001	J	0.001	U	0.001	U	0.001	U	0.001	J	0.028	J	0.14	J		
1,4-Dioxane	24	0.00188		11/16/2004																												
2,2-Dichloropropane				11/16/2004			0.12	U		0.051	U				0.001	U	0.001	U	0.001	U	0.001	U	0.001	U			0.001	UJ		0.05	U	
2-Butanone	190000	24		11/16/2004	0.005	U	0.49	U	0.2	U	0.2	UJ	0.2	U	0.004	U	0.018	L	0.004	U	0.005	R	0.004	U			0.004	R	0.004	U		
2-Chloroethyl Vinyl Ether				11/16/2004																												
2-Chlorotoluene	23000	4.6		11/16/2004			0.12	U		0.051	U				0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	UJ		0.05	U	
2-Hexanone	1300	0.176		11/16/2004	0.004	U	0.37	U	0.15	U	0.15	UJ	0.15	U	0.003	U	0.003	U	0.003	U	0.003	U	0.003	U	0.003	U	0.003	UJ		0.15	U	
4-Chlorotoluene	23000	4.8		11/16/2004			0.12	U		0.051	U				0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	UJ		0.05	U	
4-Methyl-2-Pentanone	140000	28		11/16/2004	0.004	U	0.37	U	0.15	U	0.15	UJ	0.15	U	0.003	U	0.003	U	0.003	U	0.003	U	0.003	U	0.003	U	0.003	UJ		0.15	U	
Acetone	1100000	74		11/16/2004	0.03	L	0.86	U	0.36	U	0.36	R	0.35	R	0.014	J	0.007	J	0.015	J	0.008	R	0.007	R	0.007	R	0.012	J	0.008	U		
Acetonitrile	3400	0.52		11/16/2004			3.1	U	1.3	U	1.3	U	1.3	U	0.028	R	0.026	R	0.027	R	0.028	R	0.028	R	0.028	R	0.026	R	0.026	R	1.2	U
Acrolein	0.6	0.000168		11/16/2004	0.027	U	2.5	U	1	U	1	UJ	1	U	0.022	U	0.021	R	0.021	R	0.023	R	0.023	R	0.023	R	0.02	U	0.021	R	1	U
Acrylonitrile	1.1	0.00022		11/16/2004			0.49	U	0.2	U	0.2	U	0.2	U	0.004	U	0.004	U	0.004	U	0.004	U	0.005	U	0.004	UJ	0.004	UJ		0.2	U	
Allyl Chloride	3.2	0.0046		11/16/2004			0.12	U		0.051	U				0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	UJ		0.05	U	
Benzene	5.1	0.0046	0.052	11/16/2004	0.007	U	0.062	U	0.026	U	0.026	UJ	0.025	U	0.001	J	0.0005	U	0.0006	J	0.0006	U	0.0006	U	0.006	J	0.001	J	0.025	U		
Bromobenzene	1800	0.84		11/16/2004			0.12	U		0.051	U				0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	UJ		0.05	U	
Bromochloromethane	630	0.42		11/16/2004			0.12	U		0.051	U				0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	UJ		0.05	U	
Bromodichloromethane	1.3	0.00072	0.44	11/16/2004	0.001	U	0.12	U		0.051	U	0.051	UJ	0.05	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	UJ		0.05	U
Bromoform	86	0.0174	0.42	11/16/2004	0.001	U	0.12	U		0.051	U	0.051	UJ	0.05	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	UJ		0.05	U
Bromomethane	30	0.038		11/16/2004	0.003	U	0.25	U	0.1	U	0.1	UJ	0.1	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	UJ		0.1	U	
Butylbenzene	58000	64		11/16/2004			0.12	U		0.051	U				0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	UJ		0.05	U	
Carbon Disulfide	3500	4.8		11/16/2004	0.012	U	0.12	U		0.051	U	0.051	UJ	0.05	U	0.007	U	0.005	B	0.001	B	0.002	B	0.001	J	0.001	B	0.002	B	0.001	U	
Carbon Tetrachloride	2.9	0.0036	0.038	11/16/2004	0.001	U	0.12	U		0.051	U	0.051	UJ	0.05	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	UJ		0.05	U
Chlorobenzene	1300	1.06	1.36	11/16/2004	0.001	U	0.12	U		0.051	U	0.051	UJ	0.05	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	UJ		0.05	U
Chloroethane	23000	48		11/16/2004	0.003	U	0.25	U	0.1	U	0.1	UJ	0.1	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	UJ		0.1	U	
Chloroform	1.4	0.00122	0.44	11/16/2004	0.001	U	0.12	U	1	U	0.051	UJ	0.16	J	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.005	J	0.009	J	0.05	U
Chloromethane	460	0.98		11/16/2004	0.003	U	0.25	U	0.1	U	0.1	UJ	0.1	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	UJ		0.1	U	
Chloroprene	0.044	0.000196		11/16/2004			0.12	U		0.051	U				0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	UJ		0.05	U	
cis-1,2-Dichloroethene	2300	0.22	0.42	11/16/2004	0.001	U	0.12	U		0.051	U	0.051	UJ	0.05	U	0.2		0.6		0.12	J	0.001	U	0.001	U	0.001	U	0.001	J	0.001	U	
cis-1,3-Dichloropropene				11/16/2004	0.001	U	0.12	U		0.051	U	0.051	UJ	0.05	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	UJ		0.05	U
cis-1,4-Dichloro-2-Butene	0.032	0.0000124		11/16/2004																												
Cyclohexane	27000	260		11/16/2004	0.001	U					0.051	UJ	0.05	U																		
Dibromochloromethane	39	0.0046	0.42	11/16/2004	0.001	U	0.12	U		0.051	U	0.051	UJ	0.05	U	0.001	U			0.001	U	0.001	U	0.001	U	0.001	U	0.001	UJ		0.05	U
Dibromomethane	99	0.042		11/16/2004			0.12	U		0.051	U				0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	UJ		0.05	U	
Dichlorodifluoromethane	370	6		11/16/2004	0.003	U	0.25	U	0.1	U	0.1	UJ	0.1	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	UJ		0.1	U	
Ethane, Pentachloro-	36	0.0062		11/16/2004			0.12	U		0.051	U				0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	UJ		0.05	U	
Ethyl Cyanide				11/16/2004	0.04	U	3.7	U	1.5	U	1.5	UJ	1.5	U	0.033	U	0.031	R	0.032	U	0.034	R	0.03	U			0.032	R		1.5	U	
Ethyl Methacrylate	7600	3		11/16/2004			0.12	U		0.051	U	0.051	UJ	0.05	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	UJ		0.05	U
Ethylbenzene	25	0.034	15.6	11/16/2004	0.001	U	0.12	U		0.051	U	0.051	UJ	0.05	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	UJ		0.05	U
Hexachlorobutadiene	5.3	0.0054		11/16/2004			0.25	U	0.1	U	0.1	UJ	0.1	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	UJ		0.1	U	
Iodomethane				11/16/2004			0.37	U	0.15	U					0.003	U	0.003	U	0.003	U	0.003	U	0.003									

Table 2. SWMU 13 Soil Analytical Results
RCRA Facility Investigation Report
Honeywell Delaware Valley Works
Claymont, Delaware
Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date				SM13-GP23-02 37982-0011-10 11/10/2004		SM13-GP24-01 37982-0013-02 11/16/2004		SM13-GP24-02 37982-0013-03 11/16/2004		SM13-GP25-01 37982-0013-04 11/16/2004		SM13-GP25-02 37982-0013-05 11/16/2004		SM13-GP26-01 37982-0013-06 11/16/2004		SM13-GP26-02 37982-0013-08 11/16/2004		SM13-GP26-02 37982-0013-07 11/16/2004		SM13-GP27-01 37982-0016-01 11/17/2004		SM13-GP27-02 37982-0016-02 11/17/2004		SM13-GP27-03 37982-0016-03 11/17/2004		SM13-GP27-03 37982-0016-05 11/17/2004						
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual					
1-Naphthylamine			mg/kg			0.21	U			0.2	U			0.2	U			0.2	U			0.2	U			0.2	U			0.2	U		
2,2'-Oxybis(1-Chloropropane)	47000	5.2		mg/kg		0.044	U			0.043	U			0.04	U			0.041	U			0.04	U			0.04	U			0.04	U		
2,3,4,6-Tetrachlorophenol	25000	3.6		mg/kg				0.086	U			0.08	U			0.081	U			0.082	U			0.081	U			0.082	U			0.081	U
2,4,5-Trichlorophenol	82000	80		mg/kg		0.044	U			0.043	U			0.04	U			0.041	U			0.04	U			0.041	U			0.04	U		
2,4,6-Trichlorophenol	210	0.08		mg/kg		0.044	U			0.043	U			0.04	U			0.041	U			0.04	U			0.041	U			0.04	U		
2,4-Dichlorophenol	2500	0.46		mg/kg		0.044	U			0.043	U			0.04	U			0.041	U			0.04	U			0.041	U			0.04	U		
2,4-Dimethylphenol	16000	8.4		mg/kg		0.044	U			0.043	U			0.04	U			0.041	U			0.04	U			0.041	U			0.04	U		
2,4-Dinitrophenol	1600	0.88		mg/kg		0.88	U			0.86	U			0.8	U			0.82	U			0.81	U			0.81	U			0.81	U		
2,4-Dinitrotoluene	7.4	0.0064		mg/kg		0.088	U			0.15	J			18				26				14				0.081	U			0.11	J		
2,6-Dichlorophenol				mg/kg				0.086	U			0.08	U			0.081	U			0.082	U			0.081	U			0.082	U			0.081	U
2,6-Dinitrotoluene	1.5	0.00134		mg/kg		0.044	U			0.043	U			3.2				8.3				3.7				0.041	U			0.041	U		
2-Acetylaminofluorene (TIC)	0.6	0.0015		mg/kg				0.086	U			0.08	U			0.081	U			0.082	U			0.081	U			0.082	U			0.081	U
2-Chloronaphthalene	60000	78		mg/kg		0.044	U			0.043	U			0.04	U			0.041	U			0.04	U			0.041	U			0.04	U		
2-Chlorophenol	5800	1.78		mg/kg		0.044	U			0.043	U			0.04	U			0.041	U			0.04	U			0.041	U			0.04	U		
2-Methylnaphthalene	3000	3.8		mg/kg		0.044	U			0.043	U			0.04	U			0.041	U			0.04	U			0.041	U			0.04	U		
2-Methylphenol	41000	15		mg/kg		0.044	U			0.043	U			0.04	U			0.041	U			0.04	U			0.041	U			0.04	U		
2-Naphthylamine	1.3	0.004		mg/kg				0.21	U			0.2	U			0.2	U			0.2	U			0.2	U			0.2	U			0.2	U
2-Nitroaniline	8000	1.6		mg/kg		0.044	U			0.043	U			0.04	U			0.041	U			0.04	U			0.041	U			0.04	U		
2-Nitrophenol				mg/kg		0.044	U			0.043	U			0.04	U			0.041	U			0.04	U			0.041	U			0.04	U		
2-Picoline				mg/kg				0.086	U			0.08	U			0.081	U			0.082	U			0.081	U			0.082	U			0.081	U
3,3'-Dichlorobenzidine	5.1	0.0164		mg/kg		0.088	U			0.086	U			0.08	U			0.082	U			0.08	U			0.081	U			0.082	U		
3,3'-Dimethylbenzidine	0.21	0.00086		mg/kg				0.21	U			0.2	U			0.2	U			0.2	U			0.2	U			0.2	U			0.2	U
3-Methylcholanthrene	0.1	0.0044		mg/kg				0.086	U			0.08	U			0.081	U			0.082	U			0.081	U			0.082	U			0.081	U
3-Nitroaniline				mg/kg		0.088	U			0.086	U			0.14	J			0.13	J			0.23	J			0.081	U			0.082	U		
4,6-Dinitro-2-Methylphenol	66	0.052		mg/kg		0.22	U			0.21	U			0.2	U			0.2	U			0.2	U			0.2	U			0.2	U		
4-Aminobiphenyl	0.11	0.0003		mg/kg				0.21	U			0.2	U			0.2	U			0.2	U			0.2	U			0.2	U			0.2	U
4-Bromophenyl Phenyl Ether				mg/kg		0.044	U			0.043	U			0.04	U			0.041	U			0.04	U			0.041	U			0.04	U		
4-Chloro-3-Methylphenol	82000	34		mg/kg		0.088	U			0.086	U			0.08	U			0.082	U			0.08	U			0.081	U			0.082	U		
4-Chloroaniline	11	0.0032		mg/kg		0.044	U			0.043	U			0.04	U			0.041	U			0.04	U			0.041	U			0.04	U		
4-Chlorophenyl Phenyl Ether				mg/kg		0.044	U			0.043	U			0.04	U			0.041	U			0.04	U			0.041	U			0.04	U		
4-Methylphenol	16000	6		mg/kg		0.088	U			0.086	U			0.08	U			0.082	U			0.08	U			0.081	U			0.082	U		
4-Nitroaniline	110	0.032		mg/kg		0.088	U			0.086	U			0.08	U			0.082	U			0.08	U			0.081	U			0.082	U		
4-Nitrophenol				mg/kg		0.22	U			0.21	U			0.2	U			0.2	U			0.2	U			0.2	U			0.2	U		
5-Nitro-o-Toluidine	260	0.092		mg/kg		0.21	U			0.21	U			0.81	J			1.2				0.2	U			0.2	U			1.2			
7,12-Dimethylbenz(A)Anthracene	0.0084	0.00198		mg/kg				0.043	U			0.04	U			0.041	U			0.041	U			0.041	U			0.041	U			0.04	U
Acenaphthene	45000	110		mg/kg		0.044	U			0.043	U			0.04	U			0.041	U			0.04	U			0.041	U			0.04	U		
Acenaphthylene				mg/kg		0.044	U			0.043	U			0.04	U			0.041	U			0.04	U			0.041	U			0.04	U		
Acetophenone	120000	11.6		mg/kg		0.088	U			0.086	U			0.08	U			0.082	U			0.08	U			0.081	U			0.082	U		
Aniline	400	0.092		mg/kg		0.044	U			0.043	U			0.04	U			0.041	U			0.04	U			0.041	U			0.04	U		
Anthracene	230000	1160		mg/kg		0.044	U			0.043	U			0.04	U			0.041	U			0.04	U			0.041	U			0.04	U		
Atrazine	10	0.004	0.038	mg/kg		0.044	U			0.043	UJ			0.04	UJ			0.041	UJ			0.04	UJ			0.041	UJ			0.04	UJ		
Azobenzene	26	0.0186		mg/kg				0.043	U			0.04	U			0.041	U			0.04	U			0.041	U			0.04	U			0.04	U
Benzaldehyde	820	0.082		mg/kg		0.044	U			0.043	U			0.04	U			0.041	U			0.04	U			0.041	U			0.04	U		
Benzenamine, N,N-Dimethyl-4-(Pehnylazo)-	0.5	0.00042		mg/kg				0.086	U			0.08	U			0.081	U			0.082	U			0.081	U			0.082	U			0.081	U
Benzenethanamine, Alpha, Alpha-Dimethyl-				mg/kg				0.043	UJ			0.04	UJ			0.041	UJ			0.041	UJ			0.041	UJ			0.041	UJ			0.04	UJ
Benzidine	0.01	0.000056		mg/kg				0.86	U			0.8	U			0.81	U			0.82	U			0.81	U			0.82	U			0.81	U
Benzo(A)Anthracene	21	0.22		mg/kg		0.044	U			0.043	U			0.04	U			0.041	U			0.04	U			0.041	U			0.04	U		
Benzo(A)Pyrene	2.1	0.58	4.8	mg/kg		0.044	U			0.043	U			0.04	U			0.041	U			0.04	U			0.041	U			0.04	U		
Benzo(B)Fluoranthene	21	6		mg/kg		0.044	U			0.043	U			0.04	U			0.041	U			0.04	U			0.041	U			0.04	U		
Benzo(G,H,I)perylene				mg/kg		0.044	U			0.043	U			0.04	U			0.041	U			0.04	U			0.041	U			0.04	U		
Benzo(K)Fluoranthene	210	58		mg/kg		0.044	U			0.043	U			0.04	U			0.041	U			0.04	U			0.041	U			0.04	U		
Benzoic Acid	3300000	300		mg/kg				0.21	U			0.2	U			0.2	U			0.2	U			0.2	U			0.2	U			0.2	U
Benzyl Alcohol	82000	9.6		mg/kg		0.21	U			0.21	U			0.2	U			0.2	U			0.2	U			0.2	U			0.2	U		
bis-(2-Chloroethoxy)Methane	2500	0.26		mg/kg		0.044	U			0.043	U			0.04	U			0.041	U			0.04	U			0.041	U			0.04	U		
bis-(2-Chloroethyl)Ether	1	0.000072		mg/kg		0.044	U			0.043	U			0.04	U			0.041	U			0.04	U										

Table 2. SWMU 13 Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location			Units	SM13-GP23-02		SM13-GP24-01		SM13-GP24-02		SM13-GP25-01		SM13-GP25-02		SM13-GP26-01		SM13-GP26-02		SM13-GP27-01		SM13-GP27-02		SM13-GP27-03		SM13-GP27-03				
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20		Sample ID	Sample Date	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	
Hexachloroethane	8	0.004		mg/kg	0.044	U	0.043	U	0.04	U	0.041	U	0.04	U	0.041	U	0.041	U	0.041	U	0.041	U	0.041	U	0.04	U	0.04	U	
Hexachloropropene				mg/kg			0.13	U	0.12	U			0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	
Indeno(1,2,3-Cd)Pyrene	21	19.6		mg/kg	0.044	U	0.043	U	0.04	U	0.041	U	0.04	U	0.041	U	0.041	U	0.041	U	0.041	U	0.041	U	0.04	U	0.04	U	
Isodrin				mg/kg			0.043	U	0.04	U			0.041	U	0.041	U	0.041	U	0.041	U	0.041	U	0.041	U	0.04	U	0.04	U	
Isophorone	2400	0.52		mg/kg	0.044	U	0.043	U	0.04	U	0.041	U	0.04	U	0.041	U	0.041	U	0.041	U	0.041	U	0.041	U	0.04	U	0.04	U	
Isosafrole				mg/kg			0.086	U	0.08	U			0.081	U	0.082	U	0.081	U	0.082	U	0.081	U	0.082	U	0.081	U	0.081	U	
Kepon	0.23	0.0024		mg/kg																									
Methanesulfonic Acid, Ethyl Ester				mg/kg			0.086	U	0.08	U			0.081	U	0.082	U	0.081	U	0.082	U	0.081	U	0.082	U	0.081	U	0.081	U	
Methapyrrole				mg/kg			0.13	U	0.12	U			0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	
Methyl Methanesulfonate	23	0.0032		mg/kg			0.043	U	0.04	U			0.041	U	0.041	U	0.041	U	0.041	U	0.041	U	0.041	U	0.04	U	0.04	U	
Methyl Parathion	210	0.148		mg/kg										0.041	U	0.041	U	0.041	U	0.041	U	0.041	U	0.04	U	0.04	U	0.039	U
Naphthalene	8.6	0.0076		mg/kg	0.044	U	0.043	U	0.04	U	0.041	U	0.04	U	0.041	U	0.041	U	0.041	U	0.041	U	0.041	U	0.04	U	0.04	U	
Nitrobenzene	22	0.00184		mg/kg	0.044	U	0.043	U	0.04	U	0.15	J	0.04	U	0.041	U	0.041	U	0.041	U	0.041	U	0.041	U	0.04	U	0.04	U	
n-Nitrosodiethylamine	0.015	0.0000122		mg/kg			0.086	U	0.08	U			0.081	U	0.082	U	0.081	U	0.082	U	0.081	U	0.082	U	0.081	U	0.081	U	
n-Nitrosodimethylamine	0.034	0.0000054		mg/kg			0.086	U	0.08	U			0.081	U	0.082	U	0.081	U	0.082	U	0.081	U	0.082	U	0.081	U	0.081	U	
n-Nitrosodi-n-Butylamine	0.46	0.00011		mg/kg			0.086	U	0.08	U			0.081	U	0.082	U	0.081	U	0.082	U	0.081	U	0.082	U	0.081	U	0.081	U	
n-Nitroso-di-n-Propylamine	0.33	0.000162		mg/kg	0.044	U	0.043	U	0.04	U	0.041	U	0.04	U	0.041	U	0.041	U	0.041	U	0.041	U	0.041	U	0.04	U	0.04	U	
n-Nitrosodiphenylamine	470	1.34		mg/kg	0.28	J	0.043	U	0.04	U	0.041	U	0.04	U	0.041	U	0.041	U	0.041	U	0.041	U	0.041	U	0.04	U	0.04	U	
n-Nitrosomethylethylamine	0.091	0.000004		mg/kg			0.086	U	0.08	U			0.081	U	0.082	U	0.081	U	0.082	U	0.081	U	0.082	U	0.081	U	0.081	U	
n-Nitrosomorpholine	0.34	0.000056		mg/kg			0.086	U	0.08	U			0.081	U	0.082	U	0.081	U	0.082	U	0.081	U	0.082	U	0.081	U	0.081	U	
n-Nitrosopiperidine	0.24	0.000088		mg/kg			0.086	U	0.08	U			0.081	U	0.082	U	0.081	U	0.082	U	0.081	U	0.082	U	0.081	U	0.081	U	
n-Nitrosopyrrolidine	1.1	0.00028		mg/kg			0.086	U	0.08	U			0.081	U	0.082	U	0.081	U	0.082	U	0.081	U	0.082	U	0.081	U	0.081	U	
O,O,O-Triethyl Phosphorothioate				mg/kg			0.086	U	0.08	U			0.081	U	0.082	U	0.081	U	0.082	U	0.081	U	0.082	U	0.081	U	0.081	U	
o-Toluidine	140	0.04		mg/kg			0.13	J	0.13	J			0.081	U	0.082	U	0.081	U	0.082	U	0.081	U	0.082	U	0.081	U	0.081	U	
Pentachlorobenzene	930	0.48		mg/kg			0.086	U	0.08	U			0.081	U	0.082	U	0.081	U	0.082	U	0.081	U	0.082	U	0.081	U	0.081	U	
Pentachloronitrobenzene	13	0.03		mg/kg			0.17	U	0.16	U			0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	
Pentachlorophenol	4	0.00114	0.028	mg/kg	0.22	U	0.21	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	
Phenacetin	1000	0.194		mg/kg			0.086	U	0.08	U			0.081	U	0.082	U	0.081	U	0.082	U	0.081	U	0.082	U	0.081	U	0.081	U	
Phenanthrene				mg/kg	0.044	U	0.072	J	0.04	U	0.041	U	0.04	U	0.041	U	0.041	U	0.041	U	0.041	U	0.041	U	0.04	U	0.04	U	
Phenol	250000	66		mg/kg	0.044	U	0.043	U	2.4		0.18	J	1.2		0.041	U	0.041	U	0.041	U	0.041	U	0.041	U	0.041	U	0.31	J	
Phorate	160	0.068		mg/kg																									
p-Phenylenediamine	820	0.108		mg/kg			3.2	UJ	3	UJ			3	UJ	3.1	UJ	3.1	UJ	3.1	UJ	3.1	UJ	3.1	UJ	3	UJ	3	UJ	
Pronamide	62000	24		mg/kg			0.17	U	0.16	U			0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	0.16	U	
Pyrene	23000	260		mg/kg	0.044	U	0.054	J	0.04	U	0.041	U	0.04	U	0.041	U	0.041	U	0.041	U	0.041	U	0.041	U	0.04	U	0.04	U	
Pyridine	1200	0.136		mg/kg			0.086	U	0.08	U			0.081	U	0.082	U	0.081	U	0.082	U	0.081	U	0.082	U	0.081	U	0.081	U	
Quinoline, 4-Nitro-1-Oxide-				mg/kg			0.43	U	0.4	U			0.41	U	0.41	U	0.41	U	0.41	U	0.41	U	0.41	U	0.4	U	0.39	U	
Safrole	10	0.00118		mg/kg			0.086	U	0.08	U			0.081	U	0.082	U	0.081	U	0.082	U	0.081	U	0.082	U	0.081	U	0.081	U	
Thionazine				mg/kg			0.086	U	0.08	U			0.081	U	0.082	U	0.081	U	0.082	U	0.081	U	0.082	U	0.081	U	0.081	U	
Thiopyrophosphoric Acid ((Ho)2P(S)2O), Tetraethyl	410	0.104		mg/kg			0.086	U	0.08	U			0.081	U	0.082	U	0.081	U	0.082	U	0.081	U	0.082	U	0.081	U	0.081	U	
Total Aramite	92	0.3		mg/kg			0.043	UJ	0.04	UJ			0.041	UJ	0.041	UJ	0.041	UJ	0.041	UJ	0.041	UJ	0.041	UJ	0.04	UJ	0.039	UJ	

Notes:

Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), Industrial Soil Screening Level (SSL) (November 2021)

Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20

Exceeds the EPA RSL, Maximum Contaminant Level (MCL) SSL assuming a DAF of 20

Blanks indicate RSL not established or constituent not analyzed

RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0

U = undetected

J = estimated value

J+ = estimated biased high

J- = estimated biased low

R = rejected

MG/KG - milligram per kilogram

SWMU = Solid Waste Management Unit

RCRA = Resource Conservation and Recovery Act

Sample depth shown in Sample ID (e.g., SBBF3-04_6-8 indicates 6 to 8-foot sample)

DUP = Duplicate sample

Exceedances shown may exceed one or more criteria if available

Table 2. SWMU 13 Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location Sample ID			Units	SM13-GP27-04 37982-0016-06 11/17/2004		SM13-GP27-04 37982-0016-07 11/17/2004		SM13-GP28-01 37982-0016-08 11/17/2004		SM13-GP28-02 37982-0016-09 11/17/2004		SM13-GP29-01 37982-0016-12 11/17/2004		SM13-GP29-02 37982-0017-01 11/17/2004		SM13-GP29-03 37982-0017-02 11/17/2004		SM13-GP29-03 37982-0017-03 11/17/2004		SM13-GP30-01 37982-0017-04 11/17/2004		SM13-GP30-02 37982-0017-05 11/17/2004		SM13-GP31-01 37982-0018-03 11/18/2004		SM13-GP31-02 37982-0018-04 11/18/2004				
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20		Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	
Metals																															
Aluminum	1100000	600000		mg/kg	16900		16000		21300		14600		12200		15400		14100		21800		13800								21900	J	
Antimony	470	7	5.4	mg/kg	0.92	UL	0.918	UL	0.877	UL	0.876	UL	0.9	UL	0.864	UL	0.865	UL	0.882	UL	0.85	UL					0.998	J	0.897	U	
Arsenic	3	0.03	5.8	mg/kg	3.83		4.17		5.89		3.76		5.57		1.29		1.1	J	1.4		0.836	UL					35	J	6.86	J	
Barium	220000	3200	1640	mg/kg	87.1	J	80.4	J	89.5	J	88.1	J	67.1	B	56.5	J	70.2	J	69.4	J	88.1	J	73.9	J	1120	J			50.9	J	
Beryllium	2300	380	64	mg/kg	0.387	J	0.376	J	1.08		0.618		0.518	J	0.571	J	0.743		0.448	J		0.624						1.16	0.946		
Cadmium	100	2.8	7.6	mg/kg	0.0697	U	0.0695	U	0.0782	J	0.156	J	0.0876	J	0.0654	U	0.0654	U	0.0775	J	0.0999	J	0.0938	J		1.37		0.156	J		
Calcium				mg/kg	909		993		4150		511		2810		1090		1120		1110		858							6280	J		
Chromium			3600000	mg/kg	24.5		25.6		37		23		16.9		29.7		20.5		23.1		19				24			43.5			
Cobalt	350	5.4		mg/kg	5.04		4.61		8.01		5.24		5.83		4.73		5.6		5.27		8.66		5.93				9.32		9.37		
Copper	47000	560	920	mg/kg	12.5	J	12.4	J	13.7	J	9.54	J	11.7	J	10.6	J	11.5	J	13.5	J	11.1	J	11.1	J	189				12.6		
Iron	820000	7000		mg/kg	27400		26000		27400		15800		13200		18600		18600		11200		11300								31400		
Lead	800		280	mg/kg	21.2		26.8		41.7		9.51		21.8		7.9		9.3		9.94		13		10.1			659	J		9.2	J	
Magnesium				mg/kg	2170		2000		4430		2130		1570		2430		2300		3060		2250								4000		
Manganese	26000	560		mg/kg	89.2	J	94.4	J	210	J	46.1	J	154	J	83.7	J	79.7	J	98.5	J	76.4	J							296		
Nickel	22000	520		mg/kg	13.4		12.7		16.4		9.21		15.4		12.5		15.3		18.9		15.5				20.6			16.6			
Potassium				mg/kg	1720		1760		1950		997		838		1150		1070		1300		1110								1780		
Selenium	5800	10.4	5.2	mg/kg	1.07	U	1.07	U	1.02	U	1.02	U	1.05	U	1	U	1.03	U	0.988	U	0.972	U			1.04	U		1.04	U		
Silver	5800	16		mg/kg	0.162	U	0.161	U	0.154	U	0.154	U	0.158	U	0.152	U	0.152	U	0.155	U	0.149	U	0.147	U		0.71		0.158	U		
Sodium				mg/kg	575		471		193	B	171	B	70.7	B	72.7	B	71.3	B	107	B									38.1	B	
Thallium	12	0.28	2.8	mg/kg	1.14	U	1.59	B	3.12	B	2.12	B	1.45	B	1.82	B	1.1	U	1.06	U	1.55	B					1.72	J	1.11	U	
Tin	700000	60000		mg/kg									2.13	B													10.3	J			
Vanadium	5800	1720		mg/kg	38.9		36.5		48.1		22.1		24.2		25.3		26.8		23.8		21.8							34.5	J	46.3	J
Zinc	350000	7400		mg/kg	47.2		45.8		58.6		37.7		39.2		37.2		48.1		52.9		48.9							446	J	44.3	J
Mercury	46	0.66	2	mg/kg	0.0738	J	0.0538	J	0.0462	J	0.085	J	0.0431	J	0.0039	UL	0.0121	B	0.0123	B	0.004	UL			0.0157	J		0.774	L	0.0399	J
Pesticides																															
4,4'-DDD	9.6	0.15		mg/kg	0.0082	U	0.0082	U	0.0041	U	0.008	U	0.02	U	0.0078	U	0.0079	U	0.0079	U	0.00039	U	0.00038	U		1.1		0.0004	U		
4,4'-DDE	9.3	0.22		mg/kg	0.0082	U	0.0082	U	0.0041	U	0.008	U	0.02	U	0.0078	U	0.0079	U	0.0079	U	0.00039	U	0.00038	U		5.7		0.00077	J		
4,4'-DDT	8.5	1.54		mg/kg	0.022	U	0.022	U	0.011	U	0.022	U	0.055	U	0.021	U	0.021	U	0.021	U	0.0011	U	0.001	U		2.7	J	0.0011	U		
Aldrin	0.18	0.03		mg/kg	0.0082	U	0.0082	U	0.0041	U	0.008	U	0.02	U	0.0078	U	0.0079	U	0.0079	U	0.00039	U	0.00038	U		0.08	U	0.0004	U		
Alpha-BHC	0.36	0.00084		mg/kg	0.0065	U	0.0065	U	0.0032	U	0.0063	U	0.016	U	0.004	U	0.0062	U	0.0062	U	0.00031	U	0.00048	J		0.041	U	0.00032	U		
Beta-BHC	1.3	0.003		mg/kg	0.0042	U	0.0042	U	0.0021	U	0.0041	U	0.01	U	0.004	U	0.0041	U	0.0041	U	0.0002	U	0.0002	U		0.041	U	0.00021	U		
Chlordane				mg/kg									0.094	U														0.97	U		
cis-Chlordane	500	9.8		mg/kg	0.0092	J	0.0071	J	0.0021	U	0.0074	J	0.01	U	0.0059	J	0.0059	J	0.0059	J	0.0002	U	0.0002	U				0.00021	U		
Delta-BHC				mg/kg	0.0052	U	0.0052	U	0.0026	U	0.0051	U	0.013	U	0.005	U	0.005	U	0.00025	U	0.00024	U	0.00024	U		0.051	U	0.00026	U		
Dieldrin	0.14	0.00142		mg/kg	0.0082	U	0.0082	U	0.0041	U	0.008	U	0.02	U	0.0078	U	0.0079	U	0.0079	U	0.00039	U	0.00038	U		0.08	U	0.0004	U		
Endosulfan I				mg/kg	0.0042	U	0.0042	U	0.0021	U	0.0041	U	0.01	U	0.004	U	0.0041	U	0.0041	U	0.0002	U	0.0002	U		0.041	U	0.00021	U		
Endosulfan II				mg/kg	0.01	U	0.0099	U	0.005	U	0.0097	U	0.025	U	0.0094	U	0.013	J	0.015	J	0.00048	U	0.00047	U		0.097	U	0.00049	U		
Endosulfan Sulfate	4900	42		mg/kg	0.0082	U	0.0082	U	0.0041	U	0.008	U	0.02	U	0.0078	U	0.0079	U	0.0079	U	0.00039	U	0.00038	U		0.08	U	0.0004	U		
Endrin	250	1.84	1.62	mg/kg	0.022	U	0.022	U	0.011	U	0.022	U	0.055	U	0.021	U	0.021	U	0.021	U	0.0011	U	0.001	U		0.22	U	0.0011	U		
Endrin Aldehyde				mg/kg	0.03	U	0.03	U	0.015	U	0.029	U	0.074	U	0.029	U	0.029	U	0.014	U	0.0014	U	0.0014	U		0.29	U	0.0015	U		
Endrin Ketone				mg/kg	0.0082	U	0.0082	U	0.0041	U	0.008	U	0.02	U	0.014	J	0.014	J	0.00039	U	0.00038	U	0.00038	U				0.0004	U		
Gamma-BHC (Lindane)	2.5	0.0048	0.024	mg/kg	0.16	J	0.11	J	0.0021	U	0.0041	U	0.01	U	0.004	U	0.0058	J	0.0061	J	0.0002	U	0.0002	U		0.041	U	0.00021	U		
Gamma-Chlordane				mg/kg	0.0042	U	0.0042	U	0.0021	U	0.0041	U	0.01	U	0.004	U	0.004	U	0.0002	U	0.0002	U	0.0002	U		0.041	U	0.00021	U		
Heptachlor	0.63	0.0024	0.66	mg/kg	0.0057	U	0.0057	U	0.0029	U	0.0056	U	0.014	U	0.0054	U	0.0055	U	0.0055	U	0.00027	U	0.00027	U		0.055	U	0.00028	U		
Heptachlor Epoxide	0.33	0.00056	0.082	mg/kg	0.057	U	0.057	U	0.029	U	0.056	U	0.14	U	0.054	U	0.055	U	0.055	U	0.0027	U	0.0027	U		0.55	U	0.0028	U		
Methoxychlor	4100	40	44																												

Table 2. SWMU 13 Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location			Units	SM13-GP27-04		SM13-GP27-04		SM13-GP28-01		SM13-GP28-02		SM13-GP29-01		SM13-GP29-02		SM13-GP29-03		SM13-GP30-01		SM13-GP30-02		SM13-GP31-01		SM13-GP31-02					
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20		Sample ID	Sample Date	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual		
Hexachloroethane	8	0.004		37982-0016-06	11/17/2004	0.041	U	0.041	U	0.041	U	0.04	U	0.041	U	0.039	U	0.04	U	0.04	U	0.04	U	0.039	U	0.2	U	0.041	U	
Hexachloropropene																0.12	U									0.6	U			
Indeno(1,2,3-Cd)Pyrene	21	19.6				0.041	U	0.041	U	0.041	U	0.04	U	0.041	U	0.039	U	0.04	U	0.04	U	0.04	U	0.039	U	0.36	J	0.041	U	
Isodrin																0.039	U									0.2	U			
Isophorone	2400	0.52				0.041	U	0.041	U	0.041	U	0.04	U	0.041	U	0.039	U	0.04	U	0.04	U	0.04	U	0.039	U	0.2	U	0.041	U	
Isosafrole																0.079	U									0.4	U			
Kepon	0.23	0.0024																												
Methanesulfonic Acid, Ethyl Ester																0.079	U										0.4	U		
Methapyriline																0.12	U										0.6	U		
Methyl Methanesulfonate		0.0032														0.039	U									0.2	U			
Methyl Parathion	210	0.148																												
Naphthalene	8.6	0.0076				0.041	U	0.041	U	0.041	U	0.04	U	0.041	U	0.039	U	0.04	U	0.04	U	0.04	U	0.039	U	0.2	U	0.041	U	
Nitrobenzene	22	0.00184				0.041	U	0.041	U	0.066	J	0.21	J	0.13	J	0.039	U	0.04	U	0.04	U	0.04	U	0.039	U	0.2	U	0.041	U	
n-Nitrosodiethylamine	0.015	0.00000122														0.079	U									0.4	U			
n-Nitrosodimethylamine	0.034	0.00000054														0.079	U									0.4	U			
n-Nitrosodi-n-Butylamine	0.46	0.00011														0.079	U									0.4	U			
n-Nitroso-di-n-Propylamine	0.33	0.000162				0.041	U	0.041	U	0.041	U	0.04	U	0.041	U	0.039	U	0.04	U	0.04	U	0.04	U	0.039	U	0.2	U	0.041	U	
n-Nitrosodiphenylamine	470	1.34				0.041	U	0.041	U	0.041	U	0.04	U	0.041	U	0.039	U	0.04	U	0.04	U	0.04	U	0.039	U	0.2	U	0.041	U	
n-Nitrosomethylethylamine	0.091	0.000004														0.079	U									0.4	U			
n-Nitrosomorpholine	0.34	0.000056														0.079	U									0.4	U			
n-Nitrosopiperidine	0.24	0.000088														0.079	U									0.4	U			
n-Nitrosopyrrolidine	1.1	0.00028														0.079	U									0.4	U			
O,O,O-Triethyl Phosphorothioate																0.079	U										0.4	U		
o-Toluidine	140	0.04														0.079	U									0.4	U			
Pentachlorobenzene	930	0.48														0.079	U									0.4	U			
Pentachloronitrobenzene	13	0.03														0.16	U									0.8	U			
Pentachlorophenol	4	0.00114	0.028			0.21	U	0.21	U	0.21	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U	1	U	0.2	U	
Phenacetin	1000	0.194														0.079	U									0.4	U			
Phenanthrene						0.041	U	0.041	U	0.041	U	0.04	U	0.09	J	0.039	U	0.04	U	0.04	U	0.04	U	0.039	U	0.24	J	0.041	U	
Phenol	250000	66				0.082	J	0.058	J	0.041	U	0.04	U	0.099	J	0.055	J	0.67		0.86		0.04	U	0.039	U	0.29	J	0.041	U	
Phorate	160	0.068																												
p-Phenylenediamine	820	0.108														2.9	UJ									15	UJ			
Pronamide	62000	24														0.16	U									0.8	U			
Pyrene	23000	260				0.041	U	0.041	U	0.041	U	0.04	U	0.062	J	0.039	U	0.04	U	0.04	U	0.04	U	0.039	U	0.66	J	0.041	U	
Pyridine	1200	0.136														0.079	U									0.4	U			
Quinoline, 4-Nitro-1-Oxide-																0.39	U									2	UJ			
Safrole	10	0.00118														0.079	U									0.4	U			
Thionazine																0.079	U									0.4	U			
Thiopyrophosphoric Acid ((Ho)2P(S)2O), Tetraethyl	410	0.104														0.079	U									0.4	U			
Total Aramite	92	0.3														0.039	UJ									0.2	UJ			

Notes:
 Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), Industrial Soil Screening Level (SSL) (November 2021)
 Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20
 Exceeds the EPA RSL, Maximum Contaminant Level (MCL) SSL assuming a DAF of 20
 Blanks indicate RSL not established or constituent not analyzed
 RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0
 U = undetected
 J = estimated value
 J+ = estimated biased high
 J- = estimated biased low
 R = rejected
 MG/KG - milligram per kilogram
 SWMU = Solid Waste Management Unit
 RCRA = Resource Conservation and Recovery Act
 Sample depth shown in Sample ID (e.g., SBBF3-04_6-8 indicates 6 to 8-foot sample)
 DUP = Duplicate sample
 Exceedances shown may exceed one or more criteria if available

Table 2. SWMU 13 Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location				SM13-GP31-03		SM13-GP31-04		SM13-GP31-04		SM13-GP32-01		SM13-GP32-02		SM13-GP32-03		SM13-GP33-01		SM13-GP33-02		SM13-GP34-01		SM13-GP34-02		SM13-GP35-01		SM13-GP35-02			
	Sample ID				37982-0018-05		37982-0018-06		37982-0018-07		37982-0018-08		37982-0018-09		37982-0018-10		37982-0018-11		37982-0018-12		37982-0019-01		37982-0019-02		37982-0019-03		37982-0019-04			
	Sample Date				11/18/2004		11/18/2004		11/18/2004		11/18/2004		11/18/2004		11/18/2004		11/18/2004		11/18/2004		11/18/2004		11/18/2004		11/18/2004		11/18/2004			
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual		
Metals																														
Aluminum	1100000	600000		mg/kg			16900	J	16000	J	19400	J			10700	J	17300	J	10900	J	34800	J	18000	J					22600	J
Antimony	470	7	5.4	mg/kg	0.855	U	0.87	U	0.843	U	0.856	U	0.869	U	0.846	U	0.888	U	0.873	U	0.922	U	0.862	U	0.907	U	0.912	U	0.912	U
Arsenic	3	0.03	5.8	mg/kg	1.2	J	1.31	J	1.08	J	3.94	J	2.07	J	1.36	J	6.33	J	1.16	J	2.39	J	1.89	J	6.76	J	4.56	J	4.56	J
Barium	220000	3200	1640	mg/kg	76.6	J	83.6	J	86.8	J	97.5	J	80.7	J	65.2	J	53.8	J	60.5	J	103	J	87	J	78.6	J	94.2	J	94.2	J
Beryllium	2300	380	64	mg/kg	0.723	U	0.914	U	0.831	U	0.751	U	0.733	U	0.506	J	0.73	U	0.592	U	0.688	U	0.727	U	0.745	U	0.768	U	0.768	U
Cadmium	100	2.8	7.6	mg/kg	0.0808	J	0.107	J	0.101	J	0.118	J	0.107	J	0.0869	J	0.161	J	0.0814	J	0.0698	U	0.0944	J	0.138	J	0.134	J	0.134	J
Calcium				mg/kg			334	J	357	J	1790	J			431	J	1040	J	604	J	679	J	327	J					1790	J
Chromium			3600000	mg/kg	22.1		23.9		22.4		26.7		26.6		17.2		31.8		17.7		30.2		24.1		29.9		29.9		33.6	
Cobalt	350	5.4		mg/kg	7.06		6.81		6.21		7.66		5.95		4.74		9.19		4.55		4.92		6.9		4.76		5.54		5.54	
Copper	47000	560	920	mg/kg	12.4		13.2		12		9.62		11.7		7.84		12.2		9.86		8.62		12.5		9.41		9.41		9.41	
Iron	820000	7000		mg/kg			14200		12900		17000				113000		28300		14900		13200		11000				21200		21200	
Lead	800		280	mg/kg	12.4	J	14.1	J	12.5	J	9.26	J	13.2	J	6.77	J	8.53	J	8.38	J	14.8	J	11.6	J	24.2	J	15.8	J	15.8	J
Magnesium				mg/kg			2800		2560		3000				2180		3020		1980		2450		2650				3620		3620	
Manganese	26000	560		mg/kg			89		84.7		149		68.8		181		77.6		47.6		98.5		136				136		136	
Nickel	22000	520		mg/kg	17.9		17.5		16		15.4		15.6		12.4		14.1		12.6		12.6		17.3		11.4		14.1		14.1	
Potassium				mg/kg			1100		1120		1820				846		1670		644		1360		1250				1550		1550	
Selenium	5800	10.4	5.2	mg/kg	0.993	U	1.01	U	0.98	U	0.994	U	1.01	U	0.983	U	1.03	U	1.01	U	1.07	U	1	U	1.05	U	1.06	U	1.06	U
Silver	5800	16		mg/kg	0.15	U	0.153	U	0.148	U	0.15	U	0.153	U	0.149	U	0.156	U	0.153	U	0.162	U	0.151	U	0.159	U	0.16	U	0.16	U
Sodium				mg/kg			86.9	B	84.5	B	107	B	76.2	B	105	B	108	B	89.1	B	108	B	179	B	113	B	113	B	113	B
Thallium	12	0.28	2.8	mg/kg	1.06	U	1.08	U	1.05	U	1.06	U	1.08	U	1.05	U	1.11	U	1.15	U	1.07	U	1.13	U	1.13	U	1.13	U	1.13	U
Tin	700000	60000		mg/kg	2.17	B					2.31	B																		
Vanadium	5800	1720		mg/kg	27.5	J	30.7	J	27.2	J	35.6	J	31.7	J	18.7	J	41.7	J	19.9	J	36.6	J	28.3	J	42	J	41.4	J	41.4	J
Zinc	350000	7400		mg/kg	51	J	51.8	J	48.1	J	35.5	J	45.2	J	39	J	37.5	J	40.2	J	32.6	J	53.5	J	34.1	J	35.6	J	35.6	J
Mercury	46	0.66	2	mg/kg	0.0043	J	0.0037	UL	0.0038	UL	0.0069	J	0.0039	UL	0.0221	J	0.0221	J	0.0171	J	0.0404	J	0.0266	J	0.032	J	0.0075	J	0.0075	J
Pesticides																														
4,4'-DDD	9.6	0.15		mg/kg	0.00039	U	0.00039	U	0.00039	U	0.00039	U	0.0081	U	0.00039	U	0.001	J	0.037		0.00042	U	0.00039	U	0.0037		0.0013	J	0.0013	J
4,4'-DDE	9.3	0.22		mg/kg	0.00039	U	0.00039	U	0.0006	J	0.00088	J	0.009	J	0.00039	U	0.00097	J	0.024		0.00056	J	0.00072	J	0.0047		0.0028	J	0.0028	J
4,4'-DDT	8.5	1.54		mg/kg	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.022	U	0.0011	U	0.0021	J	0.036	J	0.0012	U	0.0011	U	0.0048		0.0032	J	0.0032	J
Aldrin	0.18	0.003		mg/kg	0.00039	U	0.00039	U	0.00039	U	0.00039	U	0.0081	U	0.00039	U	0.0004	U	0.002	U	0.00042	U	0.00039	U	0.00041	U	0.00042	U	0.00042	U
Alpha-BHC	0.36	0.00084		mg/kg	0.0002	U	0.00031	U	0.00031	U	0.00031	U	0.0042	U	0.00031	U	0.00032	U	0.0016	U	0.00033	U	0.00031	U	0.00021	U	0.00033	U	0.00033	U
Beta-BHC	1.3	0.003		mg/kg	0.0002	U	0.0002	U	0.0002	U	0.0002	U	0.0042	U	0.0002	U	0.00021	U	0.014	J	0.00022	U	0.00036	J	0.00064	J	0.00022	U	0.00022	U
Chlordane				mg/kg	0.0047	U					0.098	U											0.005	U						
cis-Chlordane	500	9.8		mg/kg			0.0002	U	0.0002	U	0.0002	U	0.0002	U	0.0002	U	0.00021	U	0.0015	J	0.00022	U	0.0002	U			0.00022	U	0.00022	U
Delta-BHC				mg/kg	0.00025	U	0.00025	U	0.00025	U	0.0011	J	0.00025	U	0.00025	U	0.0013	U	0.00027	U	0.00027	U	0.00025	U	0.00026	U	0.00027	U	0.00027	U
Dieldrin	0.14	0.00142		mg/kg	0.00039	U	0.00039	U	0.00039	U	0.00039	U	0.0081	U	0.00039	U	0.0004	U	0.002	U	0.00042	U	0.00039	U	0.00041	U	0.00042	U	0.00042	U
Endosulfan I				mg/kg	0.0002	U	0.0002	U	0.0002	U	0.0002	U	0.0042	U	0.0002	U	0.00022	U	0.0002	U	0.00022	U	0.0002	U	0.00021	U	0.00022	U	0.00022	U
Endosulfan II				mg/kg	0.00047	U	0.00047	U	0.00047	U	0.00047	U	0.0098	U	0.00048	U	0.00048	U	0.0024	U	0.00051	U	0.00047	U	0.0005	U	0.00051	U	0.00051	U
Endosulfan Sulfate	4900	42		mg/kg	0.00039	U	0.00039	U	0.00039	U	0.00039	U	0.0081	U	0.00039	U	0.0004	U	0.002	U	0.00042	U	0.00039	U	0.00041	U	0.00042	U	0.00042	U
Endrin	250	1.84	1.62	mg/kg	0.0011	U	0.0011	U	0.0011	U	0.0011	U	0.022	U	0.0011	U	0.0015	U	0.0055	U	0.0012	U	0.0011	U	0.0011	U	0.0011	U	0.0011	U
Endrin Aldehyde				mg/kg	0.0014	U	0.0014	U	0.0014	U	0.0014	U	0.029	U	0.0014	U	0.0015	U	0.0073	U	0.0015	U	0.0014	U	0.0015	U	0.0015	U	0.0015	U
Endrin Ketone				mg/kg	0.00039	U	0.00039	U	0.00039	U	0.00039	U	0.00039	U	0.00039	U	0.0004	U	0.002	U	0.00042	U	0.00039	U			0.00042	U	0.00042	U
Gamma-BHC (Lindane)	2.5	0.0048	0.024	mg/kg	0.0002	U	0.0002	U	0.0002	U	0.0002	U	0.0042	U	0.00053	J	0.00021	U	0.001	U	0.00022	U	0.0002	U	0.00021	U	0.00022	U	0.00022	U
Gamma-Chlordane				mg/kg	0.0002	U	0.0002	U	0.0002	U	0.0002	U	0.0042	U	0.00022	U	0.00021	U	0.001	U	0.00022	U	0.0002	U	0.00021	U	0.00022	U	0.00022	

Table 2. SWMU 13 Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date				SM13-GP31-03 37982-0018-05 11/18/2004		SM13-GP31-04 37982-0018-06 11/18/2004		SM13-GP31-04 37982-0018-07 11/18/2004		SM13-GP32-01 37982-0018-08 11/18/2004		SM13-GP32-02 37982-0018-09 11/18/2004		SM13-GP32-03 37982-0018-10 11/18/2004		SM13-GP33-01 37982-0018-11 11/18/2004		SM13-GP33-02 37982-0018-12 11/18/2004		SM13-GP34-01 37982-0019-01 11/18/2004		SM13-GP34-02 37982-0019-02 11/18/2004		SM13-GP35-01 37982-0019-03 11/18/2004		SM13-GP35-02 37982-0019-04 11/18/2004							
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual						
1-Naphthylamine				mg/kg	0.98	U						1	U																					
2,2'-Oxybis(1-Chloropropane)	47000	5.2		mg/kg	0.2	U		0.039	U		0.039	U		0.039	U		0.04	U		0.04	U		0.041	U		0.043	U	0.039	U	0.21	U		0.042	U
2,3,4,6-Tetrachlorophenol	25000	3.6		mg/kg	0.39	U								0.41	U																			
2,4,5-Trichlorophenol	82000	80		mg/kg	0.2	U		0.039	U		0.039	U		0.039	U		0.04	U		0.04	U		0.041	U		0.043	U	0.039	U	0.21	U		0.042	U
2,4,6-Trichlorophenol	210	0.08		mg/kg	0.2	U		0.039	U		0.039	U		0.039	U		0.04	U		0.04	U		0.041	U		0.043	U	0.039	U	0.21	U		0.042	U
2,4-Dichlorophenol	2500	0.46		mg/kg	0.2	U		0.039	U		0.039	U		0.039	U		0.04	U		0.04	U		0.041	U		0.043	U	0.039	U	0.21	U		0.042	U
2,4-Dimethylphenol	16000	8.4		mg/kg	0.2	U		0.039	U		0.039	U		0.039	U		0.04	U		0.04	U		0.041	U		0.043	U	0.039	U	0.21	U		0.042	U
2,4-Dinitrophenol	1600	0.88		mg/kg	3.9	U		0.78	U		0.79	U		0.79	U		4.1	UJ		0.81	U		0.81	U		0.86	U	0.78	U	4.1	U		0.85	U
2,4-Dinitrotoluene	7.4	0.0064		mg/kg	0.39	U		0.18	J		0.18	J		0.079	U		0.41	U		0.081	U		0.081	U		0.086	U	0.078	U	4.1	U		0.085	U
2,6-Dichlorophenol				mg/kg	0.39	U								0.41	U																			
2,6-Dinitrotoluene	1.5	0.00134		mg/kg	0.2	U		0.039	U		0.039	U		0.039	U		0.04	U		0.04	U		0.041	U		0.043	U	0.039	U	0.21	U		0.042	U
2-Acetylaminofluorene (TIC)	0.6	0.0015		mg/kg	0.39	U								0.41	U																			
2-Chloronaphthalene	60000	78		mg/kg	0.2	U		0.039	U		0.039	U		0.039	U		0.04	U		0.04	U		0.041	U		0.043	U	0.039	U	0.21	U		0.042	U
2-Chlorophenol	5800	1.78		mg/kg	0.2	U		0.039	U		0.039	U		0.039	U		0.04	U		0.04	U		0.041	U		0.043	U	0.039	U	0.21	U		0.042	U
2-Methylnaphthalene	3000	3.8		mg/kg	0.2	U		0.039	U		0.039	U		0.039	U		0.04	U		0.04	U		0.041	U		0.043	U	0.039	U	0.21	U		0.042	U
2-Methylphenol	41000	15		mg/kg	0.2	U		0.039	U		0.039	U		0.039	U		0.04	U		0.04	U		0.041	U		0.043	U	0.039	U	0.21	U		0.042	U
2-Naphthylamine	1.3	0.004		mg/kg	0.98	U								1	U																			
2-Nitroaniline	8000	1.6		mg/kg	0.2	U		0.039	U		0.039	U		0.039	U		0.04	U		0.04	U		0.041	U		0.043	U	0.039	U	0.21	U		0.042	U
2-Nitrophenol				mg/kg	0.2	U		0.039	U		0.039	U		0.039	U		0.04	U		0.04	U		0.041	U		0.043	U	0.039	U	0.21	U		0.042	U
2-Picoline				mg/kg	0.39	U								0.41	U																			
3,3'-Dichlorobenzidine	5.1	0.0164		mg/kg	0.39	U		0.078	U		0.078	U		0.079	U		0.079	U		0.081	U		0.081	U		0.086	U	0.078	U	4.1	U		0.085	U
3,3'-Dimethylbenzidine	0.21	0.00086		mg/kg	0.98	U								1	U																			
3-Methylcholanthrene	0.1	0.044		mg/kg	0.39	U								0.41	U																			
3-Nitroaniline				mg/kg	0.39	U		0.078	U		0.078	U		0.079	U		0.079	U		0.081	U		0.081	U		0.086	U	0.078	U	4.1	U		0.085	U
4,6-Dinitro-2-Methylphenol	66	0.052		mg/kg	0.98	U		0.2	U		0.2	U		1	U		0.2	U		0.2	U		0.2	U		0.2	U	0.2	U	1	U		0.21	U
4-Aminobiphenyl	0.11	0.0003		mg/kg	0.98	U								1	U																			
4-Bromophenyl Phenyl Ether				mg/kg	0.2	U		0.039	U		0.039	U		0.039	U		0.04	U		0.04	U		0.041	U		0.043	U	0.039	U	0.21	U		0.042	U
4-Chloro-3-Methylphenol	82000	34		mg/kg	0.39	U		0.078	U		0.078	U		0.079	U		0.079	U		0.081	U		0.081	U		0.086	U	0.078	U	4.1	U		0.085	U
4-Chloroaniline	11	0.0032		mg/kg	0.2	U		0.039	U		0.039	U		0.039	U		0.04	U		0.04	U		0.041	U		0.043	U	0.039	U	0.21	U		0.042	U
4-Chlorophenyl Phenyl Ether				mg/kg	0.2	U		0.039	U		0.039	U		0.039	U		0.04	U		0.04	U		0.041	U		0.043	U	0.039	U	0.21	U		0.042	U
4-Methylphenol	16000	6		mg/kg	0.39	U		0.078	U		0.078	U		0.079	U		0.079	U		0.081	U		0.081	U		0.086	U	0.078	U	4.1	U		0.085	U
4-Nitroaniline	110	0.032		mg/kg	0.39	U		0.078	U		0.078	U		0.079	U		0.079	U		0.081	U		0.081	U		0.086	U	0.078	U	4.1	U		0.085	U
4-Nitrophenol				mg/kg	0.98	U		0.2	U		0.2	U		1	U		0.2	U		0.2	U		0.2	U		0.2	U	0.2	U	1	U		0.21	U
5-Nitro-o-Toluidine	260	0.092		mg/kg	0.98	U								1	U																			
7,12-Dimethylbenz(A)Anthracene	0.0084	0.00198		mg/kg	0.2	U								0.2	U																			
Acenaphthene	45000	110		mg/kg	0.2	U		0.039	U		0.039	U		0.039	U		0.04	U		0.04	U		0.041	U		0.043	U	0.039	U	0.21	U		0.042	U
Acenaphthylene				mg/kg	0.2	U		0.039	U		0.039	U		0.039	U		0.04	U		0.04	U		0.041	U		0.043	U	0.039	U	0.21	U		0.042	U
Acetophenone	120000	11.6		mg/kg	0.39	U		0.078	U		0.078	U		0.079	U		0.079	U		0.081	U		0.081	U		0.086	U	0.078	U	4.1	U		0.085	U
Aniline	400	0.092		mg/kg	0.2	U								0.2	U																			
Anthracene	230000	1160		mg/kg	0.2	U		0.039	U		0.039	U		0.039	U		0.04	U		0.04	U		0.041	U		0.043	U	0.039	U	0.21	U		0.042	U
Atrazine	10	0.004	0.038	mg/kg	0.2	UJ		0.039	U		0.039	U		0.039	U		0.04	U		0.04	U		0.041	U		0.043	U	0.039	U	0.21	U		0.042	U
Azobenzene	26	0.0186		mg/kg	0.2	U								0.2	UJ																			
Benzaldehyde	820	0.082		mg/kg	0.2	UJ		0.039	U		0.039	U		0.039	U		0.04	U		0.04	U		0.041	U		0.043	U	0.039	U	0.21	UJ		0.042	U
Benzenamine, N,N-Dimethyl-4-(Pehnylazo)-	0.5																																	

Table 2. SWMU 13 Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location			Units	SM13-GP31-03		SM13-GP31-04		SM13-GP31-04		SM13-GP32-01		SM13-GP32-02		SM13-GP32-03		SM13-GP33-01		SM13-GP33-02		SM13-GP34-01		SM13-GP34-02		SM13-GP35-01		SM13-GP35-02		
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20		Sample ID	Sample Date	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result
Hexachloroethane	8	0.004		37982-0018-05	11/18/2004	0.2	U	0.039	U	0.039	U	0.039	U	0.2	U	0.04	U	0.04	U	0.041	U	0.043	U	0.039	U	0.21	U	0.042	U
Hexachloropropene						0.59	U							0.61	U											0.62	U		
Indeno(1,2,3-Cd)Pyrene	21	19.6				0.2	U	0.039	U	0.039	U	0.039	U	0.2	U	0.04	U	0.04	U	0.041	U	0.043	U	0.039	U	0.21	U	0.042	U
Isodrin						0.2	U							0.2	U											0.21	U		
Isophorone	2400	0.52				0.2	U	0.039	U	0.039	U	0.039	U	0.2	U	0.04	U	0.04	U	0.041	U	0.043	U	0.039	U	0.21	U	0.042	U
Isosafrole						0.39	U							0.41	U											0.41	U		
Kepon	0.23	0.0024																											
Methanesulfonic Acid, Ethyl Ester						0.39	U							0.41	U											0.41	U		
Methapyriline						0.59	U							0.61	U											0.62	U		
Methyl Methanesulfonate		0.0032				0.2	U							0.2	U											0.21	U		
Methyl Parathion	23	0.148																											
Naphthalene	8.6	0.0076				0.2	U	0.039	U	0.039	U	0.039	U	0.2	U	0.04	U	0.04	U	0.041	U	0.043	U	0.039	U	0.21	U	0.042	U
Nitrobenzene	22	0.00184				0.2	U	0.039	U	0.039	U	0.039	U	0.2	U	0.04	U	0.04	U	0.041	U	0.043	U	0.039	U	0.21	U	0.042	U
n-Nitrosodiethylamine	0.015	0.0000122				0.39	U							0.41	U											0.41	U		
n-Nitrosodimethylamine	0.034	0.0000054				0.39	U							0.41	U											0.41	U		
n-Nitrosodi-n-Butylamine	0.46	0.00011				0.39	U							0.41	U											0.41	U		
n-Nitroso-di-n-Propylamine	0.33	0.000162				0.2	U	0.039	U	0.039	U	0.039	U	0.2	U	0.04	U	0.04	U	0.041	U	0.043	U	0.039	U	0.21	U	0.042	U
n-Nitrosodiphenylamine	470	1.34				0.2	U	0.039	U	0.039	U	0.039	U	0.2	U	0.04	U	0.04	U	0.041	U	0.043	U	0.039	U	0.21	U	0.042	U
n-Nitrosomethylethylamine	0.091	0.000004				0.39	U							0.41	U											0.41	U		
n-Nitrosomorpholine	0.34	0.000056				0.39	U							0.41	U											0.41	U		
n-Nitrosopiperidine	0.24	0.000088				0.39	U							0.41	U											0.41	U		
n-Nitrosopyrrolidine	1.1	0.00028				0.39	U							0.41	U											0.41	U		
O,O,O-Triethyl Phosphorothioate						0.39	U							0.41	U											0.41	U		
o-Toluidine	140	0.04				0.39	U							0.41	U											0.41	U		
Pentachlorobenzene	930	0.48				0.39	U							0.41	U											0.41	U		
Pentachloronitrobenzene	13	0.03				0.79	U							0.81	U											0.83	U		
Pentachlorophenol	4	0.00114	0.028			0.98	U	0.2	U	0.2	U	0.2	U	1	U	0.2	U	0.2	U	0.2	U	0.21	U	0.2	U	1	U	0.21	U
Phenacetin	1000	0.194				0.39	U							0.41	U											0.41	U		
Phenanthrene						0.2	U	0.039	U	0.039	U	0.039	U	0.2	U	0.04	U	0.04	U	0.041	U	0.043	U	0.039	U	0.21	U	0.042	U
Phenol	250000	66				0.2	U	0.039	U	0.039	U	0.039	U	0.2	U	0.04	U	0.04	U	0.041	U	0.043	U	0.039	U	0.21	U	0.042	U
Phorate	160	0.068																											
p-Phenylenediamine	820	0.108				15	UJ							15	UJ											15	UJ		
Pronamide	62000	24				0.79	U							0.81	U											0.83	U		
Pyrene	23000	260				0.2	U	0.039	U	0.039	U	0.039	U	0.2	U	0.04	U	0.04	U	0.041	U	0.043	U	0.039	U	0.21	U	0.042	U
Pyridine	1200	0.136				0.39	U							0.41	U											0.41	U		
Quinoline, 4-Nitro-1-Oxide-						2	UJ							2	UJ											2.1	UJ		
Safrole	10	0.00118				0.39	U							0.41	U											0.41	U		
Thionazine						0.39	U							0.41	U											0.41	U		
Thiopyrophosphoric Acid ((Ho)2P(S)2O), Tetraethyl	410	0.104				0.39	U							0.41	U											0.41	U		
Total Aramite	92	0.3				0.2	UJ							0.2	UJ											0.21	UJ		

Notes:
 Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), Industrial Soil Screening Level (SSL) (November 2021)
 Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20
 Exceeds the EPA RSL, Maximum Contaminant Level (MCL) SSL assuming a DAF of 20
 Blanks indicate RSL not established or constituent not analyzed
 RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0
 U = undetected
 J = estimated value
 J+ = estimated biased high
 J- = estimated biased low
 R = rejected
 MG/KG = milligram per kilogram
 SWMU = Solid Waste Management Unit
 RCRA = Resource Conservation and Recovery Act
 Sample depth shown in Sample ID (e.g., SBBF3-04_6-8 indicates 6 to 8-foot sample)
 DUP = Duplicate sample
 Exceedances shown may exceed one or more criteria if available

Table 2. SWMU 13 Soil Analytical Results
RCRA Facility Investigation Report
Honeywell Delaware Valley Works
Claymont, Delaware
Wood Project No. 3482210786

Parameter	Location				SM13-GP35-03		SM13-GP35-04		SM13-GP36-01		SM13-GP36-02		SM13-GP37-01		SM13-GP37-02		SM13-GP37-03		SM13-GP38-01		SM13-GP38-02		SM13-SB01		SM13-SB01			
	Sample ID				37982-0019-05		37982-0019-06		37982-0020-02		37982-0020-03		37982-0020-05		37982-0020-06		37982-0020-07		37982-0020-08		37982-0020-09		37982-0020-10		SM13-SB1-SS_072115		SM13-SB1-(6-7)_072115	
	Sample Date				11/18/2004		11/18/2004		11/19/2004		11/19/2004		11/19/2004		11/19/2004		11/19/2004		11/19/2004		11/19/2004		11/19/2004		7/21/2015		7/21/2015	
	Industrial SSL	Risk-Based SSL	MCL-Based SSL	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual		
Metals																												
Aluminum	1100000	600000		mg/kg	16300	J			12700		13000				9590		10200		12700		12300		19400		17900			
Antimony	470	7	5.4	mg/kg	0.883	U	0.855	U	0.872	UL	0.885	UL	0.871	UL	0.846	UL	0.875	UL	0.844	UL	0.888	UL	0.867	UL	5.87	2.38	U	
Arsenic	3	0.03	5.8	mg/kg	4.14	J	1.02	J	3.44	J	1.86	J	3.49	J	4.96	J	1.35	J	1.8	J	3.29	J	1.74	J	5.57	3.24	U	
Barium	220000	3200	1640	mg/kg	106	J	95.4	J	61.8	J	87.6	J	57.2	J	51.8	J	33	J	33.3	J	42.5	J	37.9	J	291	64.1	U	
Beryllium	2300	380	64	mg/kg	1.05	J	0.55	J	0.324	J	0.658	J	0.677	J	0.625	J	0.493	J	0.534	J	0.685	J	0.203	J	1.52	0.498	J	
Cadmium	100	2.8	7.6	mg/kg	0.214	J	0.0889	J	0.066	U	0.067	U	0.0659	U	0.064	U	0.0662	U	0.0638	U	0.0672	U	0.0656	U	1.51	0.595	U	
Calcium				mg/kg	622	J			2650	K	1090	K			468	K	489	K	1020	K	496	K	77900		840			
Chromium			3600000	mg/kg	25.3		21.7		30.5		22		23.8		30.2		15.2		16.8		22		310		199		20	
Cobalt	350	5.4		mg/kg	16.3		6.15		3.02		4.88		6.18		2.42		3.03		2.94		3.53		5.34		1.95			
Copper	47000	560	920	mg/kg	1.4		10.3		9.13	L	12.7	L	12.5	L	5.92	L	7.75	L	2010	L	1990	L	7.73	L	1990	3.33		
Iron	820000	7000		mg/kg	24600				13800		12900				11400		16100		20700		9190		24200		10400			
Lead	800		280	mg/kg	11	J	12.8	J	13.9		7.96		23.5		19.5		6.05		7.42		7.01		6.3		1990	12.1		
Magnesium				mg/kg	3110				2270		2630				1350		1770		2090		1530		16600		1160			
Manganese	26000	560		mg/kg	192				79.9		63.1				48.4		61.1		76.7		52.7		1800		55.3			
Nickel	22000	520		mg/kg	22.3		17.3		6.88		13.8		10.6		6.91		8.76		7.62		10.2		21.8		7.1			
Potassium				mg/kg	1150				986	K	1470	K			840	K	915	K	915	K	1030	K	8040		3280			
Selenium	5800	10.4	5.2	mg/kg	1.03	U	0.993	U	1.01	U	1.03	U	1.01	U	0.983	U	1.02	U	0.98	U	1.01	U	3.13		2.38	U		
Silver	5800	16		mg/kg	0.155	U	0.15	U	0.153	U	0.155	U	0.153	U	0.149	U	0.154	U	0.148	U	0.156	U	0.152	U	0.407	0.595	U	
Sodium				mg/kg	193				92.3	B	36.2	UL			86.8	B	78.9	B	36.4	UL	140	B	1910		572			
Thallium	12	0.28	2.8	mg/kg	1.1	U	1.06	U	1.08	U	1.1	U	1.08	U	1.05	U	1.09	U	1.05	U	1.1	U	1.08	U	1.53	J	3.57	U
Tin	700000	60000		mg/kg			2.23	B			3.29	B			2.19	B												
Vanadium	5800	1720		mg/kg	27.4	J	24.8	J	29.9		28.5		33.4		40.4		18.4		22.2		30.2		21.7		37.7		27.7	
Zinc	350000	7400		mg/kg	68.2	J	46.5	J	26.8		49.1		45.6		33		28.3		32.3		476		1080		24.6			
Mercury	46	0.66	2	mg/kg	0.0216	J	0.0038	UL	0.0257	J	0.004	UL	0.0505	J	0.0177	J	0.0071	J	0.0083	J	0.013	J	0.0316	J	1.29		0.0234	J
Pesticides																												
4,4'-DDD	9.6	0.15		mg/kg	0.00039	U	0.00039	U	0.011		0.0004	U	0.002	U	0.004	U	0.0004	U	0.00038	U	0.0021	U	0.004	U	0.04		0.016	
4,4'-DDE	9.3	0.22		mg/kg	0.00039	U	0.00054	J	0.0054	J	0.0004	U	0.002	U	0.004	U	0.0004	U	0.00038	U	0.0021	U	0.0044	J	0.61		0.004	U
4,4'-DDT	8.5	1.54		mg/kg	0.0011	U	0.0011	U	0.023		0.0011	U	0.0054	U	0.015	J	0.0011	U	0.001	U	0.0056	U	0.011	U	0.074		0.19	
Aldrin	0.18	0.003		mg/kg	0.00039	U	0.00039	U	0.002	U	0.0004	U	0.002	U	0.004	U	0.0004	U	0.00038	U	0.0021	U	0.004	U	0.0037	U	0.004	U
Alpha-BHC	0.36	0.00084		mg/kg	0.00031	U	0.0002	U	0.0016	U	0.00032	U	0.001	U	0.002	U	0.00032	U	0.0003	U	0.0016	U	0.0031	U	0.0037	U	0.004	U
Beta-BHC	1.3	0.003		mg/kg	0.0002	U	0.0002	U	0.001	U	0.00021	U	0.001	U	0.002	U	0.00021	U	0.0002	U	0.0011	U	0.0021	U	0.0037	U	0.004	U
Chlordane				mg/kg			0.0047	U			0.048	U																
cis-Chlordane	500	9.8		mg/kg	0.0002	U			0.001	U	0.00021	U			0.00021	U	0.0002	U	0.0011	U	0.0086	J	0.0037	U	0.004	U		
Delta-BHC				mg/kg	0.00025	U	0.00025	U	0.0013	U	0.00026	U	0.0013	U	0.0025	U	0.00024	U	0.00025	U	0.0025	U	0.0037	U	0.004	U		
Dieldrin	0.14	0.00142		mg/kg	0.00039	U	0.00039	U	0.002	U	0.0004	U	0.002	U	0.004	U	0.0004	U	0.00038	U	0.0021	U	0.004	U	0.0037	U	0.004	U
Endosulfan I				mg/kg	0.0002	U	0.0002	U	0.001	U	0.00021	U	0.001	U	0.002	U	0.00021	U	0.0002	U	0.0011	U	0.0028	J	0.0037	U	0.004	U
Endosulfan II				mg/kg	0.00048	U	0.00047	U	0.0024	U	0.00049	U	0.0024	U	0.0048	U	0.00049	U	0.00047	U	0.0025	U	0.0098	J	0.0037	U	0.004	U
Endosulfan Sulfate	4900	42		mg/kg	0.00039	U	0.00039	U	0.002	U	0.0004	U	0.002	U	0.004	U	0.0004	U	0.00038	U	0.0021	U	0.004	U	0.0037	U	0.004	U
Endrin	250	1.84	1.62	mg/kg	0.0011	U	0.0011	U	0.0055	U	0.0011	U	0.0054	U	0.011	U	0.0011	U	0.0056	U	0.011	U	0.011	U	0.0037	U	0.004	U
Endrin Aldehyde				mg/kg	0.0014	U	0.0014	U	0.0073	U	0.0015	U	0.0072	U	0.014	U	0.0015	U	0.0014	U	0.0075	U	0.014	U	0.0037	U	0.004	U
Endrin Ketone				mg/kg	0.00039	U	0.0004	U	0.002	U	0.0004	U	0.002	U	0.004	U	0.00038	U	0.0021	U	0.0021	U	0.004	U	0.0037	U	0.004	U
Gamma-BHC (Lindane)	2.5	0.0048	0.024	mg/kg	0.0002	U	0.0002	U	0.001	U	0.00021	U	0.001	U	0.002	U	0.00021	U	0.0002	U	0.0011	U	0.0021	U	0.0037	U	0.004	U
Gamma-Chlordane				mg/kg	0.0002	U	0.0002	U	0.001	U	0.00021	U	0.001	U	0.002	U	0.00021	U	0.0002	U	0.0011	U	0.0021	U	0.0037	U	0.004	U
Heptachlor	0.63	0.0024	0.66	mg/kg	0.00027	U	0.00027	U	0.0014	U	0.00028	U	0.0014	U	0.0028	U	0.00028	U	0.00027	U	0.0014	U	0.0028	U	0.0037	U	0.004	U
Heptachlor Epoxide	0.33	0.00056	0.082	mg/kg	0.00027	U	0.00027	U	0.014	U	0.00028	U	0.014	U	0.028	U	0.00028	U	0.00027	U	0.014	U	0.018	U	0.0037	U	0.004	U
Methoxychlor	4100	40	44	mg/kg	0.002	U	0.002	U	0.01	U	0.0021	U	0.01	U	0.02	U	0.0021	U	0.002	U	0.011	U	0.021	U	0.0071	U		

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 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date			SM13-GP35-03 37982-0019-05 11/18/2004	SM13-GP35-04 37982-0019-06 11/18/2004	SM13-GP36-01 37982-0020-02 11/19/2004	SM13-GP36-02 37982-0020-03 11/19/2004	SM13-GP37-01 37982-0020-05 11/19/2004	SM13-GP37-02 37982-0020-06 11/19/2004	SM13-GP37-03 37982-0020-07 11/19/2004	SM13-GP37-03 37982-0020-08 11/19/2004	SM13-GP38-01 37982-0020-09 11/19/2004	SM13-GP38-02 37982-0020-10 11/19/2004	SM13-SB01 SM13-SB1-SS_072115 7/21/2015	SM13-SB01 SM13-SB1-(6-7)_072115 7/21/2015	
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
1-Naphthylamine				mg/kg			0.98	U		1	U					
2,2'-Oxybis(1-Chloropropane)	47000	5.2		mg/kg	0.04	U	0.2	U	0.04	U	0.041	U	0.2	U	0.041	U
2,3,4,6-Tetrachlorophenol	25000	3.6		mg/kg			0.39	U			0.4	U	0.4	U		
2,4,5-Trichlorophenol	82000	80		mg/kg	0.04	U	0.2	U	0.04	U	0.041	U	0.2	U	0.041	U
2,4,6-Trichlorophenol	210	0.08		mg/kg	0.04	U	0.2	U	0.04	U	0.041	U	0.2	U	0.041	U
2,4-Dichlorophenol	2500	0.46		mg/kg	0.04	U	0.2	U	0.04	U	0.041	U	0.2	U	0.041	U
2,4-Dimethylphenol	16000	8.4		mg/kg	0.04	U	0.2	U	0.04	U	0.041	U	0.2	U	0.041	U
2,4-Dinitrophenol	1600	0.88		mg/kg	0.8	U	3.9	U	0.81	U	0.81	U	4	U	0.81	U
2,4-Dinitrotoluene	7.4	0.0064		mg/kg	0.08	U	0.39	U	0.081	U	0.081	U	0.4	U	0.081	U
2,6-Dichlorophenol				mg/kg			0.39	U			0.4	U	0.4	U		
2,6-Dinitrotoluene	1.5	0.00134		mg/kg	0.04	U	0.2	U	0.04	U	0.041	U	0.2	U	0.041	U
2-Acetylaminofluorene (TIC)	0.6	0.0015		mg/kg			0.39	U			0.4	U	0.4	U		
2-Chloronaphthalene	60000	78		mg/kg	0.04	U	0.2	U	0.04	U	0.041	U	0.2	U	0.041	U
2-Chlorophenol	5800	1.78		mg/kg	0.04	U	0.2	U	0.04	U	0.041	U	0.2	U	0.041	U
2-Methylnaphthalene	3000	3.8		mg/kg	0.04	U	0.2	U	0.04	U	0.041	U	0.2	U	0.041	U
2-Methylphenol	41000	15		mg/kg	0.04	U	0.2	U	0.04	U	0.041	U	0.2	U	0.041	U
2-Naphthylamine	1.3	0.004		mg/kg			0.98	U			1	U	1	U		
2-Nitroaniline	8000	1.6		mg/kg	0.04	U	0.2	U	0.04	U	0.041	U	0.2	U	0.041	U
2-Nitrophenol				mg/kg	0.04	U	0.2	U	0.04	U	0.041	U	0.2	U	0.041	U
2-Picoline				mg/kg			0.39	U			0.4	U	0.4	U		
3,3'-Dichlorobenzidine	5.1	0.0164		mg/kg	0.08	U	0.39	U	0.081	U	0.081	U	0.4	U	0.081	U
3,3'-Dimethylbenzidine	0.21	0.00086		mg/kg			0.98	U			1	U	1	U		
3-Methylcholanthrene	0.1	0.0044		mg/kg			0.39	U			0.4	U	0.4	U		
3-Nitroaniline				mg/kg	0.08	U	0.39	U	0.081	U	0.081	U	0.4	U	0.081	U
4,6-Dinitro-2-Methylphenol	66	0.052		mg/kg	0.2	U	0.98	U	0.2	U	0.2	U	1	U	0.19	U
4-Aminobiphenyl	0.11	0.0003		mg/kg			0.98	U			1	U	1	U		
4-Bromophenyl Phenyl Ether				mg/kg	0.04	U	0.2	U	0.04	U	0.041	U	0.2	U	0.041	U
4-Chloro-3-Methylphenol	82000	34		mg/kg	0.08	U	0.39	U	0.081	U	0.081	U	0.4	U	0.081	U
4-Chloroaniline	11	0.0032		mg/kg	0.04	U	0.2	U	0.04	U	0.041	U	0.2	U	0.041	U
4-Chlorophenyl Phenyl Ether				mg/kg	0.04	U	0.2	U	0.04	U	0.041	U	0.2	U	0.041	U
4-Methylphenol	16000	6		mg/kg	0.08	U	0.39	U	0.081	U	0.081	U	0.4	U	0.081	U
4-Nitroaniline	110	0.032		mg/kg	0.08	U	0.39	U	0.081	U	0.081	U	0.4	U	0.081	U
4-Nitrophenol				mg/kg	0.2	U	0.98	U	0.2	U	0.2	U	1	U	0.19	U
5-Nitro-o-Toluidine	260	0.092		mg/kg			0.98	U			1	U	1	U		
7,12-Dimethylbenz(A)Anthracene	0.0084	0.00198		mg/kg			0.2	U			0.2	U	0.2	U		
Acenaphthene	45000	110		mg/kg	0.04	U	0.2	U	0.04	U	0.041	U	0.2	U	0.041	U
Acenaphthylene				mg/kg	0.04	U	0.2	U	0.04	U	0.041	U	0.2	U	0.041	U
Acetophenone	120000	11.6		mg/kg	0.08	U	0.39	U	0.081	U	0.081	U	0.4	U	0.081	U
Aniline	400	0.092		mg/kg			0.2	U			0.2	U	0.2	U		
Anthracene	230000	1160		mg/kg	0.04	U	0.2	U	0.04	U	0.041	U	0.2	U	0.041	U
Atrazine	10	0.004	0.038	mg/kg	0.04	U	0.2	UJ	0.04	U	0.041	U	0.2	U	0.041	U
Azobenzene	26	0.0186		mg/kg			0.2	UJ			0.2	U	0.2	U		
Benzaldehyde	820	0.082		mg/kg	0.04	U	0.2	U	0.04	U	0.041	U	0.2	U	0.041	U
Benzenamine, N,N-Dimethyl-4-(Pehnylazo)-	0.5	0.00042		mg/kg			0.39	U			0.4	U	0.4	U		
Benzenethanamine, Alpha, Alpha-Dimethyl-				mg/kg			0.2	UJ			0.2	U	0.2	U		
Benzidine	0.01	0.0000056		mg/kg			3.9	U			4	U	4	U		
Benzo(A)Anthracene	21	0.22		mg/kg	0.04	U	0.2	U	0.04	U	0.041	U	0.2	U	0.041	U
Benzo(A)Pyrene	2.1	0.58	4.8	mg/kg	0.04	U	0.2	U	0.04	U	0.041	U	0.2	U	0.041	U
Benzo(B)Fluoranthene	21	6		mg/kg	0.04	U	0.2	U	0.04	U	0.041	U	0.2	U	0.041	U
Benzo(G,H,I)perylene				mg/kg	0.04	U	0.2	U	0.04	U	0.041	U	0.2	U	0.041	U
Benzo(K)Fluoranthene	210	58		mg/kg	0.04	U	0.2	U	0.04	U	0.041	U	0.2	U	0.041	U
Benzoic Acid	3300000	300		mg/kg			0.98	UJ			1	U	1	U		
Benzyl Alcohol	82000	9.6		mg/kg			0.98	U			1	U	1	U		
bis-(2-Chloroethoxy)Methane	2500	0.26		mg/kg	0.04	U	0.2	U	0.04	U	0.041	U	0.2	U	0.041	U
bis-(2-Chloroethyl)Ether	1	0.000072		mg/kg	0.04	U	0.2	U	0.04	U	0.041	U	0.2	U	0.041	U
bis-(2-Chloroisopropyl)Ether				mg/kg												
bis-(2-Ethylhexyl)Phthalate	160	26	28	mg/kg	0.12	U	0.59	U	0.12	U	0.12	U	0.6	U	0.12	U
Butylbenzyl Phthalate	1200	4.8		mg/kg	0.08	U	0.39	U	0.081	U	0.081	U	0.4	U	0.081	U
Caprolactam	400000	50		mg/kg												
Carbazole				mg/kg	0.04	U	0.2	U	0.04	U	0.041	U	0.2	U	0.041	U
Chlorobenzilate	21	0.02		mg/kg			0.2	U			0.2	U	0.2	U		
Chrysene	2100	180		mg/kg	0.04	U	0.2	U	0.04	U	0.041	U	0.2	U	0.041	U
Diallate	38	0.016		mg/kg			0.2	U			0.2	U	0.2	U		
Dibenzo(a,h)Anthracene	2.1	1.92		mg/kg	0.04	U	0.2	U	0.04	U	0.041	U	0.2	U	0.041	U
Dibenzofuran	1200	3		mg/kg	0.04	U	0.2	U	0.04	U	0.041	U	0.2	U	0.041	U
Diethyl Phthalate	660000	122		mg/kg	0.08	U	0.39	U	0.081	U	0.081	U	0.4	U	0.081	U
Dimethoate	1800	0.198		mg/kg			0.2	U			0.2	U	0.2	U		
Dimethyl Phthalate				mg/kg	0.08	U	0.39	U	0.081	U	0.081	U	0.4	U	0.081	U
Di-n-Butyl Phthalate	82000	46		mg/kg	0.08	U	0.39	U	0.081	U	0.081	U	0.4	U	0.081	U
Di-n-Octyl Phthalate	8200	1140		mg/kg	0.08	U	0.39	U	0.081	U	0.081	U	0.4	U	0.081	U
Dinoseb	820	2.6	1.24	mg/kg												
Disulfoton	33	0.0188		mg/kg												
Ethane, Pentachloro-	36	0.0062		mg/kg												
Ethyl Methacrylate	7600	3		mg/kg												
Ethyl Parathion	4900	8.6		mg/kg												
Famphur				mg/kg												
Fluoranthene	30000	1780		mg/kg	0.04	U	0.2	U	0.064	J	0.041	U	0.2	U	0.041	U
Fluorene	30000	108		mg/kg	0.04	U	0.2	U	0.04	U	0.041	U	0.2	U	0.041	U
Hexachlorobenzene	0.96	0.0024	0.26	mg/kg	0.04	U	0.2	U	0.04	U	0.041	U	0.2	U	0.041	U
Hexachlorobutadiene	5.3	0.0054		mg/kg	0.08	U	0.39	U	0.081	U	0.081	U	0.4	U	0.081	U
Hexachlorocyclopentadiene	7.5	0.026	3.2	mg/kg	0.2	U	0.98	U	0.2	U	0.2	U	1	U	0.19	U

Table 2. SWMU 13 Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location			Units	SM13-GP35-03		SM13-GP35-04		SM13-GP36-01		SM13-GP36-02		SM13-GP37-01		SM13-GP37-02		SM13-GP37-03		SM13-GP38-01		SM13-GP38-02		SM13-SB01		SM13-SB01													
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20		Sample ID	Sample Date	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual										
Hexachloroethane	8	0.004		mg/kg	0.04	U			0.04	U			0.041	U			0.041	U			0.039	U			0.042	U			0.04	U			0.18	U			0.2	U
Hexachloropropene				mg/kg					0.59	U					0.6	U			0.6	U																		
Indeno(1,2,3-Cd)Pyrene	21	19.6		mg/kg	0.04	U			0.2	U			0.04	U			0.041	U			0.039	U			0.042	U			0.07	J			0.069			0.02	U	
Isodrin				mg/kg					0.2	U					0.2	U			0.2	U																		
Isophorone	2400	0.52		mg/kg	0.04	U			0.2	U			0.04	U			0.041	U			0.039	U			0.042	U			0.04	U			0.036	U			0.039	U
Isosafrole				mg/kg					0.39	U					0.4	U			0.4	U																		
Kepon	0.23	0.0024		mg/kg																																		
Methanesulfonic Acid, Ethyl Ester				mg/kg					0.39	U					0.4	U			0.4	U																		
Methapyriline				mg/kg					0.59	U					0.6	U			0.6	U																		
Methyl Methanesulfonate		0.0032		mg/kg					0.2	U					0.2	U			0.2	U																		
Methyl Parathion	23	0.148		mg/kg																																		
Naphthalene	8.6	0.0076		mg/kg	0.04	U			0.2	U			0.04	U			0.041	U			0.039	U			0.042	U			0.3	J			0.087			0.007	J	
Nitrobenzene	22	0.00184		mg/kg	0.04	U			0.2	U			0.04	U			0.041	U			0.039	U			0.042	U			0.04	U			0.036	U			0.039	U
n-Nitrosodiethylamine	0.015	0.00000122		mg/kg					0.39	U					0.4	U			0.4	U																		
n-Nitrosodimethylamine	0.034	0.00000054		mg/kg					0.39	U					0.4	U			0.4	U																		
n-Nitrosodi-n-Butylamine	0.46	0.00011		mg/kg					0.39	U					0.4	U			0.4	U																		
n-Nitroso-di-n-Propylamine	0.33	0.000162		mg/kg	0.04	U			0.2	U			0.04	U			0.041	U			0.039	U			0.042	U			0.04	U			0.036	U			0.039	U
n-Nitrosodiphenylamine	470	1.34		mg/kg	0.04	U			1.34	U			0.04	U			0.041	U			0.039	U			0.042	U			0.1	J			0.036	U			0.039	U
n-Nitrosomethylethylamine	0.091	0.000004		mg/kg					0.39	U					0.4	U			0.4	U																		
n-Nitrosomorpholine	0.34	0.000056		mg/kg					0.39	U					0.4	U			0.4	U																		
n-Nitrosopiperidine	0.24	0.000088		mg/kg					0.39	U					0.4	U			0.4	U																		
n-Nitrosopyrrolidine	1.1	0.00028		mg/kg					0.39	U					0.4	U			0.4	U																		
O,O,O-Triethyl Phosphorothioate				mg/kg					0.39	U					0.4	U			0.4	U																		
o-Toluidine	140	0.04		mg/kg					0.39	U					0.4	U			0.4	U																		
Pentachlorobenzene	930	0.48		mg/kg					0.39	U					0.4	U			0.4	U																		
Pentachloronitrobenzene	13	0.03		mg/kg					0.79	U					0.8	U			0.8	U																		
Pentachlorophenol	4	0.00114	0.028	mg/kg	0.2	U			0.98	U			0.2	U			0.2	U			0.19	U			0.21	U			0.2	U			0.18	U			0.2	U
Phenacetin	1000	0.194		mg/kg					0.39	U					0.4	U			0.4	U																		
Phenanthrene				mg/kg	0.04	U			0.2	U			0.083	J			0.041	U			0.039	U			0.042	U			0.15	J			0.12			0.02	U	
Phenol	250000	66		mg/kg	0.04	U			0.2	U			0.041	U			0.041	U			0.039	U			0.042	U			0.04	U			0.05			0.039	U	
Phorate	160	0.068		mg/kg																																		
p-Phenylenediamine	820	0.108		mg/kg					15	UJ					15	U			15	U																		
Pronamide	62000	24		mg/kg					0.79	U					0.8	U			0.8	U																		
Pyrene	23000	260		mg/kg	0.04	U			0.2	U			0.059	J			0.041	U			0.039	U			0.12	J			0.11	J			0.12			0.02	U	
Pyridine	1200	0.136		mg/kg					0.39	U					0.4	U			0.4	U																		
Quinoline, 4-Nitro-1-Oxide-				mg/kg					2	UJ					2	U			2	U																		
Safrole	10	0.00118		mg/kg					0.39	U					0.4	U			0.4	U																		
Thionazine				mg/kg					0.39	U					0.4	U			0.4	U																		
Thiopyrophosphoric Acid ((Ho)2P(S)2O), Tetraethyl	410	0.104		mg/kg					0.39	U					0.4	U			0.4	U																		
Total Aramite	92	0.3		mg/kg					0.2	UJ					0.2	U			0.2	U																		

Notes:
 Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), Industrial Soil Screening Level (SSL) (November 2021)
 Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20
 Exceeds the EPA RSL, Maximum Contaminant Level (MCL) SSL assuming a DAF of 20
 Blanks indicate RSL not established or constituent not analyzed
 RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0
 U = undetected
 J = estimated value
 J+ = estimated biased high
 J- = estimated biased low
 R = rejected
 MG/KG - milligram per kilogram
 SWMU = Solid Waste Management Unit
 RCRA = Resource Conservation and Recovery Act
 Sample depth shown in Sample ID (e.g., SBBF3-04_6-8 indicates 6 to 8-foot sample)
 DUP = Duplicate sample
 Exceedances shown may exceed one or more criteria if available

Table 2. SWMU 13 Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location			SM13-SB01		SM13-SB02		SM13-SB03		SM13-SB03		SM13-SB04		SM13-SS02		SM13-SS03		SM13-TP05-01		SM13-TP05-01		SM13-TP07-01		
	Sample ID	Sample Date	Sample Date	SM13-SB1(9-10)_072115	7/21/2015	SM13-SB2(9-10)_072115	7/21/2015	SM13-SB3(4-5)_072115	7/21/2015	SM13-SB3(9-10)_072115	7/21/2015	SM13-SB4(2-7.3.1)_082115	8/21/2015	SM13-SS02_100615	10/6/2015	SM13-SS03_100615	10/6/2015	SM13-TP05-010429031	4/29/2003	SM13-TP05-010429031D	4/29/2003	SM13-TP07-010429031	4/29/2003	
	Industrial SSL	Risk-Based SSL	MCL-Based SSL	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result
1-Naphthylamine																								
2,2'-Oxybis(1-Chloropropane)	47000	5.2																						
2,3,4,6-Tetrachlorophenol	25000	3.6																						
2,4,5-Trichlorophenol	82000	8.0																						
2,4,6-Trichlorophenol	210	0.08																						
2,4-Dichlorophenol	2500	0.46																						
2,4-Dimethylphenol	16000	8.4																						
2,4-Dinitrophenol	1600	0.88																						
2,4-Dinitrotoluene	7.4	0.0064																						
2,6-Dichlorophenol																								
2,6-Dinitrotoluene	1.5	0.00134																						
2-Acetylaminofluorene (TIC)	0.6	0.0015																						
2-Chloronaphthalene	60000	78																						
2-Chlorophenol	5800	1.78																						
2-Methylnaphthalene	3000	3.8																						
2-Methylphenol	41000	15																						
2-Naphthylamine	1.3	0.004																						
2-Nitroaniline	8000	1.6																						
2-Nitrophenol																								
2-Picoline																								
3,3'-Dichlorobenzidine	5.1	0.0164																						
3,3'-Dimethylbenzidine	0.21	0.00086																						
3-Methylcholanthrene	0.1	0.044																						
3-Nitroaniline																								
4,6-Dinitro-2-Methylphenol	66	0.052																						
4-Aminobiphenyl	0.11	0.0003																						
4-Bromophenyl Phenyl Ether																								
4-Chloro-3-Methylphenol	82000	34																						
4-Chloroaniline	11	0.0032																						
4-Chlorophenyl Phenyl Ether																								
4-Methylphenol	16000	6																						
4-Nitroaniline	110	0.032																						
4-Nitrophenol																								
5-Nitro-o-Toluidine	260	0.092																						
7,12-Dimethylbenz(A)Anthracene	0.0084	0.00198																						
Acenaphthene	45000	110																						
Acenaphthylene																								
Acetophenone	120000	11.6																						
Aniline	400	0.092																						
Anthracene	230000	1160																						
Atrazine	10	0.004	0.038																					
Azobenzene	26	0.0186																						
Benzaldehyde	820	0.082																						
Benzenamine, N,N-Dimethyl-4-(Pehnylazo)-	0.5	0.00042																						
Benzeneethanamine, Alpha, Alpha-Dimethyl-																								
Benzidine	0.01	0.0000056																						
Benzo(A)Anthracene	21	0.22																						
Benzo(A)Pyrene	2.1	0.58	4.8																					
Benzo(B)Fluoranthene	21	6																						
Benzo(G,H,I)perylene																								
Benzo(K)Fluoranthene	210	58																						
Benzoic Acid	3300000	300																						
Benzyl Alcohol	82000	9.6																						
bis-(2-Chloroethoxy)Methane	2500	0.26																						
bis-(2-Chloroethyl)Ether	1	0.000072																						
bis-(2-Chloroisopropyl)Ether																								
bis-(2-Ethylhexyl)Phthalate	160	26	28																					
Butylbenzyl Phthalate	1200	4.8																						
Caprolactam	400000	50																						
Carbazole																								
Chlorobenzilate	21	0.02																						
Chrysene	2100	180																						
Diallate	38	0.016																						
Dibenzo(a,h)Anthracene	2.1	1.92																						
Dibenzofuran	1200	3																						
Diethyl Phthalate	660000	122																						
Dimethoate	1800	0.198																						
Dimethyl Phthalate																								
Di-n-Butyl Phthalate	82000	46																						
Di-n-Octyl Phthalate	8200	1140																						
Dinoseb	820	2.6	1.24																					
Disulfoton	33	0.0188																						
Ethane, Pentachloro-	36	0.0062																						
Ethyl Methacrylate	7600	3																						
Ethyl Parathion	4900	8.6																						
Famphur																								
Fluoranthene	30000	1780																						
Fluorene	30000	108																						

Table 2. SWMU 13 Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location			Units	SM13-SB01		SM13-SB02		SM13-SB03		SM13-SB03		SM13-SB04		SM13-SS02		SM13-SS03		SM13-TP05-01		SM13-TP05-01		SM13-TP07-01			
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20		Sample ID	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result
Hexachloroethane	8	0.004		SM13-SB1(9-10)_072115	0.22	U	0.2	U	0.19	U	0.2	U	0.2	U	0.18	U	0.18	U	0.39	U	0.39	U	0.39	U	0.39	U
Hexachloropropene				SM13-SB2(9-10)_072115																						
Indeno(1,2,3-Cd)Pyrene	21	19.6		SM13-SB3(4-5)_072115	0.022	U	0.021	U	0.013	J	0.02	U	0.011	J	0.007	J	0.009	J	0.39	U	0.39	U	0.39	U	0.39	U
Isodrin				SM13-SB3(9-10)_072115																						
Isophorone	2400	0.52		SM13-SB4(2.7-3.1)_082115	0.044	U	0.041	U	0.039	U	0.039	U	0.04	U	0.036	U	0.037	U	0.39	U	0.39	U	0.39	U	0.39	U
Isosafrole				SM13-SS02_100615																						
Kepon	0.23	0.0024		SM13-SS03_100615																						
Methanesulfonic Acid, Ethyl Ester				SM13-TP05-010429031																						
Methapyriline				SM13-TP05-010429031D																						
Methyl Methanesulfonate	23	0.0032		SM13-TP07-010429031																						
Methyl Parathion	210	0.148																								
Naphthalene	8.6	0.0076			0.1		0.006	J	0.019	J	0.02	U	0.019	J	0.018	U	0.019	U	0.39	U	0.39	U	0.39	U	0.39	U
Nitrobenzene	22	0.00184			0.044	U	0.041	U	0.039	U	0.039	U	0.074	J	0.036	U	0.037	U	0.053	J	0.041	J	0.041	J	0.041	J
n-Nitrosodiethylamine	0.015	0.00000122																								
n-Nitrosodimethylamine	0.034	0.00000054																								
n-Nitrosodi-n-Butylamine	0.46	0.00011																								
n-Nitroso-di-n-Propylamine	0.33	0.000162			0.044	U	0.041	U	0.039	U	0.039	U	0.04	U	0.036	U	0.037	U	0.39	U	0.39	U	0.39	U	0.39	U
n-Nitrosodiphenylamine	470	1.34			0.044	U	0.041	U	0.039	U	0.039	U	0.032	J	0.036	U	0.037	U	0.39	U	0.39	U	0.39	U	0.39	U
n-Nitrosomethylethylamine	0.091	0.000004																								
n-Nitrosomorpholine	0.34	0.000056																								
n-Nitrosopiperidine	0.24	0.000088																								
n-Nitrosopyrrolidine	1.1	0.00028																								
O,O,O-Triethyl Phosphorothioate																										
o-Toluidine	140	0.04																								
Pentachlorobenzene	930	0.48																								
Pentachloronitrobenzene	13	0.03																								
Pentachlorophenol	4	0.00114	0.028		0.22	U	0.21	U	0.2	U	0.2	U	0.2	U	0.18	U	0.19	U	0.99	U	0.99	U	0.99	U	0.99	U
Phenacetin	1000	0.194																								
Phenanthrene					0.022	U	0.021	U	0.032	U	0.02	U	0.02	U	0.004	J	0.004	J	0.39	U	0.39	U	0.39	U	0.44	J
Phenol	250000	66			0.044	U	0.041	U	0.039	U	0.039	U	0.04	U	0.036	U	0.037	U	0.39	U	0.39	U	0.095	J	0.73	J
Phorate	160	0.068																								
p-Phenylenediamine	820	0.108																								
Pronamide	62000	24																								
Pyrene	23000	260			0.022	U	0.004	J	0.03	U	0.02	U	0.015	J	0.011	J	0.011	J	0.39	U	0.39	U	0.39	U	0.48	J
Pyridine	1200	0.136																								
Quinoline, 4-Nitro-1-Oxide-																										
Safrole	10	0.00118																								
Thionazine																										
Thiopyrophosphoric Acid ((Ho)2P(S)2O), Tetraethyl	410	0.104																								
Total Aramite	92	0.3																								

Notes:

Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), Industrial Soil Screening Level (SSL) (November 2021)

Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20

Exceeds the EPA RSL, Maximum Contaminant Level (MCL) SSL assuming a DAF of 20

Blanks indicate RSL not established or constituent not analyzed

RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0

U = undetected

J = estimated value

J+ = estimated biased high

J- = estimated biased low

R = rejected

MG/KG = milligram per kilogram

SWMU = Solid Waste Management Unit

RCRA = Resource Conservation and Recovery Act

Sample depth shown in Sample ID (e.g., SBBF3-04_6-8 indicates 6 to 8-foot sample)

DUP = Duplicate sample

Exceedances shown may exceed one or more criteria if available

Table 3. SWMU 14 Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	SM14-SB01 SM14-SB1-SS_072215 7/22/2015		SM14-SB01 SM14-SB1-(13-13.5)_072215 7/22/2015		SM14-SB02 SM14-SB2-SS_072215 7/22/2015		SM14-SB02 SM14-SB2-(4-5)_072215 7/22/2015		SM14-SS01 SM14-SS1_090815 9/8/2015		SM14-SS02 SM14-SS2_090815 9/8/2015		SM14-SS03 SM14-SS3_080615 8/6/2015		SM14-SS04 SM14-SS4_090815 9/8/2015		SM14-SS05 SM14-SS5_090815 9/8/2015		SM14-SS05 DUP7-090815 9/8/2015		SM14-TP03-01 SM14-TP03-010414031 4/14/2003			
					Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
1,4-Dioxane	24	0.00188		mg/kg																								
1,4-Naphthoquinone				mg/kg																								
1-Naphthylamine				mg/kg																								
2,2'-Oxybis(1-Chloropropane)	47000	5.2		mg/kg																								1.3 U
2,3,4,6-Tetrachlorophenol	25000	3.6		mg/kg	0.17 U		0.21 U		0.18 U		0.2 U		0.17 U		0.18 U		0.18 U		0.18 U		0.17 U		0.17 U		0.17 U		0.17 U	
2,4,5-Trichlorophenol	82000	80		mg/kg	0.034 U		0.042 U		0.036 U		0.04 U		0.035 U		0.027 J		0.036 U		0.036 U		0.034 U		0.034 U		0.034 U		3.4 U	
2,4,6-Trichlorophenol	210	0.08		mg/kg	0.034 U		0.04 U		0.036 U		0.04 U		0.035 U		0.02 J		0.036 U		0.036 U		0.034 U		0.034 U		0.034 U		1.3 U	
2,4-Dichlorophenol	2500	0.46		mg/kg	0.034 U		0.042 U		0.036 U		0.04 U		0.035 U		0.029 J		0.036 U		0.036 U		0.034 U		0.034 U		0.034 U		1.3 U	
2,4-Dimethylphenol	16000	8.4		mg/kg	0.034 U		0.042 U		0.036 U		0.04 U		0.035 U		0.036 U		0.036 U		0.036 U		0.034 U		0.034 U		0.034 U		1.3 U	
2,4-Dinitrophenol	1600	0.88		mg/kg	1 U		1.3 U		1.1 U		1.2 U		1 U		1.1 U		1.1 U		1.1 U		1 U		1 U		1 U		3.4 U	
2,4-Dinitrotoluene	7.4	0.0064		mg/kg	0.17 U		0.21 U		0.18 U		0.2 U		0.17 U		0.18 U		0.18 U		0.18 U		0.23 J		0.17 U		0.17 U		5.4	
2,6-Dichlorophenol				mg/kg																								
2,6-Dinitrotoluene	1.5	0.00134		mg/kg	0.034 U		0.042 U		0.036 U		0.04 U		0.035 U		0.035 U		0.035 U		0.036 U		0.14		0.034 U		0.034 U		1.4	
2-Acetylaminofluorene (TIC)	0.6	0.0015		mg/kg																								
2-Chloronaphthalene	60000	78		mg/kg	0.034 U		0.042 U		0.035 U		0.04 U		0.034 U		0.035 U		0.035 U		0.035 U		0.034 U		0.034 U		0.033 U		1.3 U	
2-Chlorophenol	5800	1.78		mg/kg	0.034 U		0.042 U		0.036 U		0.04 U		0.035 U		0.035 U		0.036 U		0.036 U		0.034 U		0.034 U		0.034 U		1.3 U	
2-Methylnaphthalene	3000	3.8		mg/kg	0.01 J		0.009 J		0.004 J		0.021 U		0.01 J		0.092 U		0.01 J		0.007 J		0.017 U		0.005 J		0.005 J		1.3 U	
2-Methylphenol	41000	15		mg/kg	0.034 U		0.025 J		0.036 U		0.04 U		0.035 U		0.035 U		0.036 U		0.036 U		0.034 U		0.034 U		0.034 U		1.3 U	
2-Naphthylamine	1.3	0.004		mg/kg																								
2-Nitroaniline	8000	1.6		mg/kg	0.034 U		0.042 U		0.036 U		0.04 U		0.035 U		0.035 U		0.036 U		0.036 U		0.032 J		0.034 U		0.034 U		0.54 J	
2-Nitrophenol				mg/kg	0.034 U		0.042 U		0.036 U		0.04 U		0.035 U		0.036 U		0.036 U		0.036 U		0.034 U		0.034 U		0.034 U		1.3 U	
2-Picoline				mg/kg																								
3,3'-Dichlorobenzidine	5.1	0.0164		mg/kg	0.34 U		0.42 U		0.36 U		0.4 U		0.35 U		0.35 U		0.36 U		0.36 U		0.34 U		0.34 U		0.34 U		1.3 U	
3,3'-Dimethylbenzidine	0.21	0.00086		mg/kg																								
3-Methylcholanthrene	0.1	0.044		mg/kg																								
3-Nitroaniline				mg/kg	0.083 J		0.21 U		0.18 U		0.2 U		0.17 U		0.18 U		0.18 U		0.18 U		0.18 U		0.17 U		0.17 U		3.4 U	
4,6-Dinitro-2-Methylphenol	66	0.052		mg/kg	0.52 U		0.64 U		0.53 U		0.6 U		0.52 U		0.53 U		0.54 U		0.54 U		0.53 U		0.51 U		0.51 U		3.4 U	
4-Aminobiphenyl	0.11	0.0003		mg/kg																								
4-Bromophenyl Phenyl Ether				mg/kg	0.034 U		0.042 U		0.036 U		0.04 U		0.035 U		0.035 U		0.036 U		0.036 U		0.034 U		0.034 U		0.034 U		1.3 U	
4-Chloro-3-Methylphenol	82000	34		mg/kg	0.034 U		0.042 U		0.036 U		0.04 U		0.035 U		0.036 U		0.036 U		0.036 U		0.034 U		0.034 U		0.034 U		1.3 U	
4-Chloroaniline	11	0.0032		mg/kg	0.069 U		0.085 U		0.071 U		0.081 U		0.069 U		0.07 U		0.071 U		0.071 U		0.068 U		0.068 U		0.068 U		1.3 U	
4-Chlorophenyl Phenyl Ether				mg/kg	0.034 U		0.042 U		0.036 U		0.04 U		0.035 U		0.035 U		0.036 U		0.036 U		0.034 U		0.034 U		0.034 U		1.3 U	
4-Methylphenol	16000	6		mg/kg	0.034 U		0.058 U		0.036 U		0.04 U		0.035 U		0.021 J		0.036 U		0.036 U		0.034 U		0.034 U		0.034 U		1.3 U	
4-Nitroaniline	110	0.032		mg/kg	0.17 U		0.21 U		0.18 U		0.2 U		0.17 U		0.18 U		0.18 U		0.18 U		0.18 U		0.17 U		0.17 U		3.4 U	
4-Nitrophenol				mg/kg	0.52 U		0.64 U		0.53 U		0.6 U		0.52 U		0.53 U		0.54 U		0.54 U		0.53 U		0.51 U		0.51 U		3.4 U	
5-Nitro-o-Toluidine	260	0.092		mg/kg																								
7,12-Dimethylbenz(A)Anthracene	0.0084	0.00198		mg/kg																								
Acenaphthene	45000	110		mg/kg	0.018 U		0.022 U		0.018 U		0.021 U		0.019 U		0.034 U		0.028 U		0.004 J		0.018 U		0.026 U		0.026 U		0.088 J	
Acenaphthylene				mg/kg	0.061 U		0.022 U		0.008 J		0.021 U		0.033 U		0.082 U		0.014 J		0.013 J		0.013 J		0.018 J		0.018 J		1.3 U	
Acetophenone	120000	11.6		mg/kg	0.034 U		0.042 U		0.074 U		0.04 U		0.035 U		0.035 U		0.036 U		0.036 U		0.034 U		0.034 U		0.034 U		1.3 U	
Aniline	400	0.092		mg/kg																								
Anthracene	230000	1160		mg/kg	0.061 U		0.022 U		0.011 J		0.021 U		0.085 U		0.14 U		0.062 U		0.017 J		0.062 U		0.082 U		0.082 U		0.34 J	
Atrazine	10	0.004	0.038	mg/kg	0.17 U		0.21 U		0.18 U		0.2 U		0.17 U		0.18 U		0.18 U		0.18 U		0.17 U		0.17 U		0.17 U		1.3 U	
Azobenzene	26	0.0186		mg/kg																								
Benzaldehyde	820	0.082		mg/kg	0.17 U		0.21 U		0.18 U		0.2 U		0.17 U		0.18 U		0.18 U		0.18 U		0.18 U		0.17 U		0.17 U		1.3 U	
Benzenamine, N,N-Dimethyl-4-(Pehnylazo)-	0.5	0.00042		mg/kg																								
Benzenethanamine, Alpha, Alpha-Dimethyl-				mg/kg																								
Benidine	0.01	0.000056		mg/kg																								
Benzo(A)Anthracene	21	0.22		mg/kg	0.21 U		0.007 J		0.038 U		0.021 U		0.53 U		0.38 U		0.2 U		0.067 U		0.53 U		0.7 U		0.7 U		3.3	
Benzo(A)Pyrene	2.1	0.58	4.8	mg/kg	0.26 U		0.022 U		0.048 U		0.005 J		0.48 U		0.41 U		0.21 U		0.069 U		0.5 U		0.62 U		0.62 U		2.9	
Benzo(B)Fluoranthene	21	6		mg/kg	0.47 U		0.006 J		0.071 U		0.021 U		0.78 U		0.72 U		0.33 U		0.12 U		0.9 U		1.1 U		1.1 U		3.8	
Benzo(G,H,I)perylene				mg/kg	0.34 U		0.005 J		0.048 U		0.021 U		0.44 U		0.4 U		0.16 U		0.061 U		0.46 U		0.6 U		0.6 U		2.2	
Benzo(K)Fluoranthene	210	58		mg/kg	0.22 U		0.006 J		0.027 U		0.021 U		0.31 U		0.24 U		0.15 U		0.045 U		0.39 U		0.5 U		0.5 U		4.1	
Benzoic Acid	3300000	300		mg/kg																								
Benzyl Alcohol	82000	9.6		mg/kg																								
bis-(2-Chloroethoxy)Methane	2500	0.26		mg/kg	0.034 U		0.042 U		0.036 U		0.04 U		0.035 U		0.035 U		0.036 U		0.036 U		0.034 U		0.034 U		0.034 U		1.3 U	
bis-(2-Chloroethyl)Ether	1	0.000072		mg/kg	0.034 U		0.042 U		0.036 U		0.04 U		0.035 U		0.035 U		0.036 U		0.036 U		0.034 U		0.034 U		0.034 U		1.3 U	
bis(2-Chloroisopropyl)Ether				mg/kg	0.034 U		0.042 U		0.036 U		0.04 U		0.035 U		0.035 U		0.036 U		0.036 U		0.034 U		0.034 U		0.034 U		1.3 U	
bis-(2-Ethylhexyl)Phthalate	160	26	28	mg/kg	0.33 U		0.22 U		0.11 J		0.21 U		0.18 U		0.18 U		0.18 U		0.18 U		2.7 U		2.9 U		2.9 U		7.6	
Butylbenzyl Phthalate	1200	4.8		mg/kg	0.17 U		0.21 U		0.18 U		0.2 U		0.17 U		0.18 U		0.18 U		0.18 U		0.17 U		0.17 U		0.17 U		1.3 U	
Caprolactam	400000	50		mg/kg	0.17 U		0.21 U		0.18 U		0.2 U		0.17 U		0.18 U		0.18 U		0.18 U		0.17 U		0.17 U	</				

Table 3. SWMU 14 Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date				SM14-SB01 SM14-SB1-SS_072215 7/22/2015		SM14-SB01 SM14-SB1-(13-13.5)_072215 7/22/2015		SM14-SB02 SM14-SB2-SS_072215 7/22/2015		SM14-SB02 SM14-SB2-(4-5)_072215 7/22/2015		SM14-SS01 SM14-SS1_090815 9/8/2015		SM14-SS02 SM14-SS2_090815 9/8/2015		SM14-SS03 SM14-SS3_080615 8/6/2015		SM14-SS04 SM14-SS4_090815 9/8/2015		SM14-SS05 SM14-SS5_090815 9/8/2015		SM14-SS05 DUP7-090815 9/8/2015		SM14-TP03-01 SM14-TP03-010414031 4/14/2003											
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual								
Fluorene	30000	108		mg/kg	0.018	U		0.022	U		0.004	J		0.021	U		0.019		0.032		0.024		0.005	J		0.01	J		0.023	J		0.087	J			
Hexachlorobenzene	0.96	0.0024	0.26	mg/kg	0.029			0.022	U		0.018	U		0.018	U		0.028		0.029		0.018	U	0.017	U		0.017	U		0.017	U		0.34	J			
Hexachlorobutadiene	5.3	0.0054		mg/kg	0.034	U		0.042	U		0.036	U		0.04	U		0.035	U	0.035	U	0.036	U	0.036	U		0.034	U		0.034	U		1.3	U			
Hexachlorocyclopentadiene	7.5	0.026	3.2	mg/kg	0.52	U		0.64	U		0.53	U		0.6	U		0.52	UJ	0.53	UJ	0.54	R	0.53	UJ		0.51	UJ		0.51	UJ		1.3	R			
Hexachloroethane	8	0.004		mg/kg	0.17	U		0.21	U		0.18	U		0.2	U		0.18	U	0.18	U	0.18	U	0.18	U		0.17	U		0.17	U		1.3	U			
Hexachloropropene				mg/kg																																
Indeno(1,2,3-Cd)Pyrene	21	19.6		mg/kg	0.28			0.022	U		0.033			0.021	U		0.4		0.35		0.15		0.05			0.43			0.55			2.3				
Isodrin				mg/kg																																
Isophorone	2400	0.52		mg/kg	0.034	U		0.042	U		0.036	U		0.04	U		0.035	U	0.035	U	0.036	U	0.036	U		0.034	U		0.034	U		1.3	U			
Isosafrole				mg/kg																																
Kepone	0.23	0.0024		mg/kg																																
Methanesulfonic Acid, Ethyl Ester				mg/kg																																
Methapyriline				mg/kg																																
Methyl Methanesulfonate	23	0.0032		mg/kg																																
Methyl Parathion	210	0.148		mg/kg																																
Naphthalene	8.6	0.0076		mg/kg	0.017	J		0.041			0.018	U		0.021	U		0.012	J		0.11		0.009	J		0.012	J		0.004	J		0.008	J		1.3	U	
Nitrobenzene	22	0.00184		mg/kg	0.051			0.042	U		0.021	J		0.04	U		0.059		0.035	U	0.055		0.064			0.034	U		0.034	U		0.3	J			
n-Nitrosodiethylamine	0.015	0.00000122		mg/kg																																
n-Nitrosodimethylamine	0.034	0.00000054		mg/kg																																
n-Nitrosodi-n-Butylamine	0.46	0.00011		mg/kg																																
n-Nitroso-di-n-Propylamine	0.33	0.000162		mg/kg				0.042	U		0.036	U		0.04	U		0.035	U	0.035	U	0.036	U	0.036	U		0.034	U		0.034	U		0.034	U		1.3	U
n-Nitrosodiphenylamine	470	1.34		mg/kg	0.034	U		0.042	U		0.036	U		0.04	U		0.032	J	0.035	U	0.036	U	0.036	U		0.034	U		0.034	U		0.034	U		1.3	U
n-Nitrosomethylethylamine	0.091	0.000004		mg/kg																																
n-Nitrosomorpholine	0.34	0.000056		mg/kg																																
n-Nitrosopiperidine	0.24	0.000088		mg/kg																																
n-Nitrosopyrrolidine	1.1	0.00028		mg/kg																																
O,O,O-Triethyl Phosphorothioate				mg/kg																																
o-Toluidine	140	0.04		mg/kg																																
Pentachlorobenzene	930	0.48		mg/kg																																
Pentachloronitrobenzene	13	0.03		mg/kg																																
Pentachlorophenol	4	0.00114	0.028	mg/kg	0.18	U		0.22	U		0.18	U		0.21	U		0.18	U	0.18	U	0.18	U	0.18	U		0.18	U		0.17	U		0.17	U		3.4	U
Phenacetin	1000	0.194		mg/kg																																
Phenanthrene				mg/kg	0.11			0.022	U		0.037			0.021	U		0.35		0.35		0.21		0.059			0.6			0.75							
Phenol	250000	66		mg/kg	0.099			9.3			0.036	U		0.04	U		0.035	U	0.046		0.03	J	0.036	U		0.034	U		0.034	U		0.034	U		1.3	U
Phorate	160	0.068		mg/kg																																
p-Phenylenediamine	820	0.108		mg/kg																																
Pronamide	62000	24		mg/kg																																
Pyrene	23000	260		mg/kg	0.28			0.022	U		0.067			0.021	U		0.72		0.53		0.28		0.11			1			1.3							
Pyridine	1200	0.136		mg/kg																																
Quinoline, 4-Nitro-1-Oxide-				mg/kg																																
Safrole	10	0.00118		mg/kg																																
Thionazine				mg/kg																																
Thiopyrophosphoric Acid ((Ho)2P(S)2O), Tetraethyl	410	0.104		mg/kg																																
Total Aramite	92	0.3		mg/kg																																
Cyanide, Total	150	0.3	40	mg/kg																																

Notes:
 Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), Industrial Soil Screening Level (SSL) (November 2021)
 Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20
 Exceeds the EPA RSL, Maximum Contaminant Level (MCL) SSL assuming a DAF of 20
 Blanks indicate RSL not established or constituent not analyzed
 RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0
 U = undetected
 J = estimated value
 J+ = estimated biased high
 J- = estimated biased low
 R = rejected
 MG/KG - milligram per kilogram
 SWMU = Solid Waste Management Unit
 RCRA = Resource Conservation and Recovery Act
 Sample depth shown in Sample ID (e.g., SBBF3-04_6-8 indicates 6 to 8-foot sample)
 DUP = Duplicate sample
 Exceedances shown may exceed one or more criteria if available

Table 3. SWMU 14 Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location			Units	SM14-TP06-01		SM14-TP06-01		SW14-SURFACE-01		SW14-TP07-01		SW14-TP08-01		SW14-TP09-01		SW14-TP09-01			
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20		Sample ID	Result	Qual	Sample ID	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual		
Metals																				
Aluminum	110000	60000		mg/kg							41100		13600		13400		13000			
Antimony	470	7	5.4	mg/kg	3.2	B					1.03	UL	0.843	UL	0.917	UL	0.908	UL		
Arsenic	3	0.03	5.8	mg/kg	29.6						66.4		6.78		3.85		4.12			
Barium	220000	3200	1640	mg/kg	406						3050		63.1		58.3		56.1			
Beryllium	2300	380	64	mg/kg	0.4	B					4.46		0.461	J	0.44	J	0.464	J		
Boron	230000	260		mg/kg	12.9															
Cadmium	100	2.8	7.6	mg/kg	1.5						3.95	J	0.0638	UJ	0.18	J	0.384	J		
Calcium				mg/kg							124000		683		1920		2060			
Chromium			3600000	mg/kg	106						34.6	J	27.4	J	18.6	J	17.4	J		
Cobalt	350	5.4		mg/kg	10.4						7.19		4.43		6.31		6.59			
Copper	47000	560	920	mg/kg	32700			34500			572		8.61		15		22.7			
Iron	820000	7000		mg/kg							72200		21800		13800		13000			
Lead	800		280	mg/kg	1670	J					1190		9.76		23.8		26.9			
Magnesium				mg/kg							18600		2350		1450		1450			
Manganese	26000	560		mg/kg							3690		156		293		173			
Nickel	22000	520		mg/kg	115						23.4	J	11.2	J	8.03	J	7.88	J		
Potassium				mg/kg							2300		1110		737		736			
Selenium	5800	10.4	5.2	mg/kg	8						1.2	U	0.98	U	1.07	U	1.05	U		
Silver	5800	16		mg/kg	2.1						1.34		0.148	U	0.161	U	0.159	U		
Sodium				mg/kg							726		152		37.6	U	56.9	J		
Thallium	12	0.28	2.8	mg/kg	0.3	U					10.7	J	1.05	UL	1.14	UL	1.13	UL		
Tin	700000	60000		mg/kg	230						12.8	J	1.81	B	2.41	B	2.46	B		
Vanadium	5800	1720		mg/kg	41.3						28.8		34.6		27.8		26.7			
Zinc	350000	7400		mg/kg	256	J					682	J	31.5	J	1710	J	137	J		
Mercury	46	0.66	2	mg/kg	0.8	L					0.265		0.0071	B	0.0889	B	0.037	B		
Pesticides																				
4,4'-DDD	9.6	0.15		mg/kg	6.8						1.4	J	0.093	UJ	0.029		0.021	J		
4,4'-DDE	9.3	0.22		mg/kg	2.9						8.5		0.42	J	0.017		0.024	J		
4,4'-DDT	8.5	1.54		mg/kg	28						4.1		1.8	J	0.036		0.083	J		
Aldrin	0.18	0.003		mg/kg	0.96	U					0.39	U	0.093	UJ	0.0016	U	0.0021	U	0.0042	U
Alpha-BHC	0.36	0.00084		mg/kg	0.96	U					0.2	U	0.14	J	0.0012	U	0.0059		0.0063	J
Beta-BHC	1.3	0.003		mg/kg	0.96	U					0.2	U	0.16	J	0.00081	U	0.014		0.016	
Chlordane				mg/kg	9.6	U					4.8	U								
cis-Chlordane	500	9.8		mg/kg							0.048	UJ	0.00081	U	0.0011	U	0.0022	U		
Delta-BHC				mg/kg	0.96	U					0.059	UJ	0.001	U	0.0013	U	0.0027	U		
Dieldrin	0.14	0.00142		mg/kg	1.9	U					0.39	U	0.093	UJ	0.0016	U	0.0021	U	0.0042	U
Endosulfan I				mg/kg	0.96	U					0.2	U	0.048	UJ	0.00081	U	0.0015	J	0.0022	U
Endosulfan II				mg/kg	1.9	U					0.48	U	0.11	UJ	0.0019	U	0.0025	U	0.0051	U
Endosulfan Sulfate	4900	42		mg/kg	1.9	U					0.39	U	0.093	UJ	0.0016	U	0.0021	U	0.0042	U
Endrin	250	1.84	1.62	mg/kg	1.9	U					1.1	U	0.25	UJ	0.0043	U	0.0057	U	0.011	U
Endrin Aldehyde				mg/kg	1.9	U					1.4	U	0.34	UJ	0.0057	U	0.0076	U	0.015	U
Endrin Ketone				mg/kg							0.093	UJ	0.0016	U	0.0021	U	0.0042	U		
Gamma-BHC (Lindane)	2.5	0.0048	0.024	mg/kg	0.96	U					0.2	U	0.048	UJ	0.00081	U	0.0021	J	0.0022	U
Gamma-Chlordane				mg/kg	0.2	U					0.048	UJ	0.00081	U	0.0011	U	0.0022	U		
Heptachlor	0.63	0.0024	0.66	mg/kg	0.96	U					0.27	U	0.065	UJ	0.0011	U	0.0015	U	0.0029	U
Heptachlor Epoxide	0.33	0.00056	0.082	mg/kg	0.96	U					2.7	U	0.65	UJ	0.011	U	0.015	U	0.0029	U
Methoxychlor	4100	40	44	mg/kg	9.6	UJ					2	U	0.48	UJ	0.0081	UJ	0.011	UJ	0.022	UJ
Toxaphene	2.1	0.22	9.2	mg/kg	96	U					13	U	3.1	UJ	0.052	U	0.07	U	0.14	U
trans-Chlordane	500	28		mg/kg							0.082	UJ	0.0014	U	0.0018	U	0.0037	U		
Aroclor-1016	27	0.42		mg/kg																
Aroclor-1221	0.83	0.0016		mg/kg																
Aroclor-1232	0.72	0.0016		mg/kg																
Aroclor-1242	0.95	0.024		mg/kg																
Aroclor-1248	0.94	0.024		mg/kg																
Aroclor-1254	0.97	0.04		mg/kg																
Aroclor-1260	0.99	0.11		mg/kg																
Volatile Organic Compounds																				
2,4,5-T	8200	1.36		mg/kg	0.021	UJ														
2,4,5-TP (Silvex)	6600	1.22	0.56	mg/kg	0.018	UJ														
Dimoseb	820	2.6	1.24	mg/kg	0.11	UJ														
1,1,1,2-Tetrachloroethane	8.8	0.0044		mg/kg	0.0062	U														
1,1,1-Trichloroethane	36000	56	1.4	mg/kg	0.0062	U					0.001	U	0.052	U	0.001	U	0.001	U		
1,1,2,2-Tetrachloroethane	2.7	0.0006		mg/kg	0.0062	U					0.001	U	0.052	U	0.001	U	0.001	U		
1,1,2-Trichloro-1,2,2-Trifluoroethane	28000	520		mg/kg	0.0062	U					0.002	U	0.1	U	0.002	U	0.002	U		
1,1,2-Trichloroethane	5	0.00178	0.032	mg/kg	0.0062	U					0.001	U	0.052	U	0.001	U	0.001	U		
1,1-Dichloroethane	16	0.0156		mg/kg	0.0062	U					0.001	U	0.052	U	0.001	U	0.001	U		
1,1-Dichloroethene	1000	2	0.05	mg/kg	0.0062	U					0.001	U	0.052	U	0.001	U	0.001	U		
1,1-Dichloropropene				mg/kg	0.0062	U														
1,2,3-Trichlorobenzene	930	0.42		mg/kg	0.0062	U														
1,2,3-Trichloropropane	0.11	0.000064		mg/kg	0.0062	U														
1,2,4-Trichlorobenzene	110	0.068	4	mg/kg	0.0062	U					0.001	U	0.052	U	0.001	U	0.001	U		
1,2,4-Trimethylbenzene	1800	1.62		mg/kg	0.0062	U														
1,2-Dibromo-3-Chloropropane	0.064	0.000028	0.00172	mg/kg	0.0062	U					0.002	U	0.1	U	0.002	U	0.002	U	0.002	U
1,2-Dibromoethane	0.16	0.000042	0.00028	mg/kg	0.0062	U					0.001	U	0.052	U	0.001	U	0.001	U	0.001	U
1,2-Dichlorobenzene	9300	6	11.6	mg/kg	0.0062	U					0.001	U	0.052	U	0.001	U	0.001	U	0.001	U
1,2-Dichloroethane	2	0.00096	0.028	mg/kg	0.0062	U					0.001	U	0.052	U	0.001	U	0.001	U	0.001	U
1,2-Dichloroethene (Total)				mg/kg	0.0062	U														
1,2-Dichloropropane	11	0.0056	0.034	mg/kg	0.0062	U					0.001	U	0.052	U	0.001	U	0.001	U	0.001	U

Table 3. SWMU 14 Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location				SM14-TP06-01		SM14-TP06-01		SW14-SURFACE-01		SW14-TP07-01		SW14-TP08-01		SW14-TP09-01		SW14-TP09-01	
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
1,3,5-Trimethylbenzene	1500	1.74		mg/kg	0.0062	U												
1,3-Dichlorobenzene				mg/kg	0.0062	U					0.001	U	0.052	U	0.001	U	0.001	U
1,3-Dichloropropane	23000	2.6		mg/kg	0.0062	U												
1,4-Dichlorobenzene	11	0.0092	1.44	mg/kg	0.0062	U					0.001	U	0.052	U	0.001	U	0.001	U
1,4-Dioxane	24	0.00188		mg/kg	0.31	R												
2,2-Dichloropropane				mg/kg	0.0062	U												
2-Butanone	190000	24		mg/kg	0.0062	R					0.005	U	0.21	U	0.005	U	0.005	U
2-Chloroethyl Vinyl Ether				mg/kg	0.0062	R												
2-Chlorotoluene	23000	4.6		mg/kg	0.0062	U												
2-Hexanone	1300	0.176		mg/kg	0.0062	U					0.004	U	0.16	U	0.003	U	0.003	U
4-Chlorotoluene	23000	4.8		mg/kg	0.0062	U												
4-Methyl-2-Pentanone	140000	28		mg/kg	0.0062	U					0.004	U	0.16	U	0.003	U	0.003	U
Acetone	1100000	74		mg/kg	0.012	J					0.014	J	0.36	R	0.021	J	0.019	J
Acrolein	0.6	0.000168		mg/kg	0.0062	R					0.025	U	1	U	0.023	U	0.023	U
Acrylonitrile	1.1	0.00022		mg/kg	0.0062	U												
Allyl Chloride	3.2	0.0046		mg/kg	0.0062	U												
Benzene	5.1	0.0046	0.052	mg/kg	0.0062	U					0.005	J	0.026	U	0.037	J	0.055	J
Bromobenzene	1800	0.84		mg/kg	0.0062	U												
Bromochloromethane	630	0.42		mg/kg	0.0062	U												
Bromodichloromethane	1.3	0.00072	0.44	mg/kg	0.0062	U					0.001	U	0.052	U	0.001	U	0.001	U
Bromoform	86	0.0174	0.42	mg/kg	0.0062	U					0.001	U	0.052	U	0.001	U	0.001	U
Bromomethane	30	0.038		mg/kg	0.0062	U					0.002	U	0.1	U	0.002	U	0.002	U
Butylbenzene	58000	64		mg/kg	0.0062	U												
Carbon Disulfide	3500	4.8		mg/kg	0.0062	U					0.001	U	0.052	U	0.005	J	0.008	J
Carbon Tetrachloride	2.9	0.0036	0.038	mg/kg	0.0062	U					0.001	U	0.052	U	0.001	U	0.001	U
Chlorobenzene	1300	1.06	1.36	mg/kg	0.0062	U					0.001	U	0.052	U	0.003	J	0.001	U
Chloroethane	23000	48		mg/kg	0.0062	U					0.002	U	0.1	U	0.002	U	0.002	U
Chloroform	1.4	0.00122	0.44	mg/kg	0.0062	U					0.002	J	0.052	U	0.001	U	0.001	U
Chloromethane	460	0.98		mg/kg	0.0062	U					0.002	U	0.1	U	0.002	U	0.002	U
Chloroprene	0.044	0.000196		mg/kg	0.0062	U												
cis-1,2-Dichloroethene	2300	0.22	0.42	mg/kg	0.0062	U					0.001	U	0.052	U	0.004	J	0.007	J
cis-1,3-Dichloropropene				mg/kg	0.0062	U					0.001	U	0.052	U	0.001	U	0.001	U
cis-1,4-Dichloro-2-Butene	0.032	0.0000124		mg/kg	0.0062	U												
Cyclohexane	27000	260		mg/kg							0.001	U	0.052	U	0.019	J	0.038	J
Dibromochloromethane	39	0.0046	0.42	mg/kg	0.0062	U					0.001	U	0.052	U	0.001	U	0.001	U
Dibromomethane	99	0.042		mg/kg	0.0062	U												
Dichlorodifluoromethane	370	6		mg/kg	0.0062	U					0.002	U	0.1	U	0.002	U	0.002	U
Ethyl Cyanide				mg/kg	0.025	R							1.6	U	0.034	U	0.034	U
Ethyl Methacrylate	7600	3		mg/kg	0.0062	U												
Ethylbenzene	25	0.034	15.6	mg/kg	0.0062	U					0.001	U	0.052	U	0.001	U	0.001	U
Hexachlorobutadiene	5.3	0.0054		mg/kg	0.0062	U												
Iodomethane				mg/kg	0.0062	U												
Isobutanol	350000	24		mg/kg	0.31	R												
Isopropylbenzene	9900	14.8		mg/kg	0.0062	U					0.001	U	0.052	U	0.001	U	0.001	U
m&p-Xylenes				mg/kg	0.0062	U												
Methacrylonitrile	100	0.0086		mg/kg	0.0062	U												
Methyl Acetate	1200000	82		mg/kg							0.002	U	0.1	U	0.002	U	0.002	U
Methyl Methacrylate	19000	6		mg/kg	0.0062	U												
Methyl Tert-Butyl Ether	210	0.064		mg/kg	0.0062	U					0.0006	U	0.026	U	0.0006	U	0.0006	U
Methylcyclohexane				mg/kg							0.001	U	0.052	U	0.013	J	0.028	J
Methylene Chloride	1000	0.058	0.026	mg/kg	0.0032	B					0.002	U	0.1	U	0.002	U	0.002	U
Naphthalene	8.6	0.0076		mg/kg	0.0062	U												
n-Propylbenzene	24000	24		mg/kg	0.0062	U												
o-Xylene	2800	3.8		mg/kg	0.0062	U												
p-Isopropyltoluene				mg/kg	0.0062	U												
Sec-Butylbenzene	120000	118		mg/kg	0.0062	U												
Styrene	35000	26	2.2	mg/kg	0.0062	U					0.001	U	0.052	U	0.001	U	0.001	U
Tert-Butylbenzene	120000	32		mg/kg	0.0062	U												
Tetrachloroethene	100	0.102	0.046	mg/kg	0.22	J					0.002	J	0.052	U	0.007	J	0.023	J
Tetrahydrofuran	95000	15		mg/kg	0.062	U												
Toluene	47000	15.2	13.8	mg/kg	0.0062	U					0.001	U	0.052	U	0.001	J	0.003	J
Total Xylenes	2500	3.8	198	mg/kg	0.0062	U					0.001	U	0.052	U	0.001	U	0.001	U
trans-1,2-Dichloroethene	300	0.42	0.62	mg/kg	0.0062	U					0.001	U	0.052	U	0.001	U	0.001	U
trans-1,3-Dichloropropene				mg/kg	0.0062	U					0.001	U	0.052	U	0.001	U	0.001	U
trans-1,4-Dichloro-2-Butene	0.032	0.0000124		mg/kg	0.0062	U												
Trichloroethene	6	0.0036	0.036	mg/kg	0.0084	J					0.003	J	3.5	J	0.01	J	0.029	J
Trichlorofluoromethane	350000	66		mg/kg	0.0062	U					0.002	U	0.1	U	0.002	U	0.002	U
Vinyl Acetate	3800	1.74		mg/kg	0.0062	U												
Vinyl Chloride	1.7	0.00013	0.0138	mg/kg	0.0062	U					0.001	U	0.052	U	0.001	U	0.001	U
Semi-Volatile Organic Compounds																		
1,1'-Biphenyl	200	0.174		mg/kg														
1,2,4,5-Tetrachlorobenzene	35	0.0158		mg/kg	0.76	J												
1,2,4-Trichlorobenzene	110	0.068	4	mg/kg	0.076	J												
1,2-Dichlorobenzene	9300	6	11.6	mg/kg	0.76	U												
1,2-Diphenylhydrazine/Azobenzene	2.9	0.005		mg/kg							0.22	J	0.039	U	0.05	J	0.043	J
1,3,5-Trinitrobenzene	32000	42		mg/kg	0.76	U												
1,3-Dichlorobenzene				mg/kg	0.76	U												
1,3-Dinitrobenzene	82	0.036		mg/kg	300	D												
1,4-Dichlorobenzene	11	0.0092	1.44	mg/kg	0.76	U												

Table 3. SWMU 14 Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location			Units	SM14-TP06-01		SM14-TP06-01		SW14-SURFACE-01		SW14-TP07-01		SW14-TP08-01		SW14-TP09-01		SW14-TP09-01				
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20		Sample ID	Sample Date	Sample ID	Sample Date	Sample ID	Sample Date	Sample ID	Sample Date	Sample ID	Sample Date	Sample ID	Sample Date	Sample ID	Sample Date	Sample ID	Sample Date	
1,4-Dioxane	24	0.00188		mg/kg							0.14	U		0.12	U		0.13	U		0.13	U
1,4-Naphthoquinone				mg/kg																	
1-Naphthylamine				mg/kg																	
2,2'-Oxybis(1-Chloropropane)	47000	5.2		mg/kg							0.047	U		0.039	U		0.042	U		0.043	U
2,3,4,6-Tetrachlorophenol	25000	3.6		mg/kg																	
2,4,5-Trichlorophenol	82000	80		mg/kg							0.047	U		0.039	U		0.042	U		0.043	U
2,4,6-Trichlorophenol	210	0.08		mg/kg							0.047	U		0.039	U		0.042	U		0.043	U
2,4-Dichlorophenol	2500	0.46		mg/kg							0.047	U		0.039	U		0.042	U		0.043	U
2,4-Dimethylphenol	16000	8.4		mg/kg							0.047	U		0.039	U		0.042	U		0.043	U
2,4-Dinitrophenol	1600	0.88		mg/kg							0.94	U		0.79	U		0.84	U		0.85	U
2,4-Dinitrotoluene	7.4	0.0064		mg/kg							0.094	U		0.079	U		0.084	U		0.085	U
2,6-Dichlorophenol				mg/kg																	
2,6-Dinitrotoluene	1.5	0.00134		mg/kg							0.047	U		0.039	U		0.042	U		0.043	U
2-Acetylaminofluorene (TIC)	0.6	0.0015		mg/kg																	
2-Chloronaphthalene	60000	78		mg/kg							0.047	U		0.039	U		0.042	U		0.043	U
2-Chlorophenol	5800	1.78		mg/kg							0.047	U		0.039	U		0.042	U		0.043	U
2-Methylnaphthalene	3000	3.8		mg/kg							0.047	U		0.039	U		0.042	U		0.043	U
2-Methylphenol	41000	15		mg/kg							0.047	U		0.039	U		0.042	U		0.043	U
2-Naphthylamine	1.3	0.004		mg/kg																	
2-Nitroaniline	8000	1.6		mg/kg							0.047	U		0.039	U		0.042	U		0.043	U
2-Nitrophenol				mg/kg							0.047	U		0.039	U		0.042	U		0.043	U
2-Picoline				mg/kg																	
3,3'-Dichlorobenzidine	5.1	0.0164		mg/kg							0.094	U		0.079	U		0.084	U		0.085	U
3,3'-Dimethylbenzidine	0.21	0.00086		mg/kg																	
3-Methylcholanthrene	0.1	0.044		mg/kg																	
3-Nitroaniline				mg/kg							0.094	U		0.079	U		0.084	U		0.085	U
4,6-Dinitro-2-Methylphenol	66	0.052		mg/kg							0.24	U		0.2	U		0.21	U		0.21	U
4-Aminobiphenyl	0.11	0.0003		mg/kg																	
4-Bromophenyl Phenyl Ether				mg/kg																	
4-Chloro-3-Methylphenol	82000	34		mg/kg							0.047	U		0.039	U		0.042	U		0.043	U
4-Chloroaniline	11	0.0032		mg/kg							0.047	U		0.039	U		0.042	U		0.043	U
4-Chlorophenyl Phenyl Ether				mg/kg							0.047	U		0.039	U		0.042	U		0.043	U
4-Methylphenol	16000	6		mg/kg							0.047	U		0.039	U		0.042	U		0.043	U
4-Nitroaniline	110	0.032		mg/kg							0.094	U		0.079	U		0.084	U		0.085	U
4-Nitrophenol				mg/kg							0.24	U		0.2	U		0.21	U		0.21	U
5-Nitro-o-Toluidine	260	0.092		mg/kg																	
7,12-Dimethylbenz(A)Anthracene	0.0084	0.00198		mg/kg																	
Acenaphthene	45000	110		mg/kg							0.047	U		0.039	U		0.042	U		0.043	U
Acenaphthylene				mg/kg							0.058	J		0.039	U		0.042	U		0.043	U
Acetophenone	120000	11.6		mg/kg							0.094	U		0.079	U		0.084	U		0.085	U
Aniline	400	0.092		mg/kg							1.9	U									
Anthracene	230000	1160		mg/kg							0.13	J		0.039	U		0.042	U		0.043	U
Atrazine	10	0.004	0.038	mg/kg							0.047	U		0.039	U		0.042	U		0.043	U
Azobenzene	26	0.0186		mg/kg							0.043	J									
Benzaldehyde	820	0.082		mg/kg							0.047	U		0.039	U		0.042	U		0.043	U
Benzenamine, N,N-Dimethyl-4-(Pehnylazo)-	0.5	0.00042		mg/kg																	
Benzenethanamine, Alpha, Alpha-Dimethyl-				mg/kg																	
Benzidine	0.01	0.0000056		mg/kg							1.9	U									
Benzo(A)Anthracene	21	0.22		mg/kg							0.77			0.039	U		0.089	J		0.043	U
Benzo(A)Pyrene	2.1	0.58	4.8	mg/kg							0.66			0.039	U		0.069	J		0.043	U
Benzo(B)Fluoranthene	21	6		mg/kg							1.8			0.039	U		0.09	J		0.043	U
Benzo(G,H,I)perylene				mg/kg							0.9			0.039	U		0.044	J		0.043	U
Benzo(K)Fluoranthene	210	58		mg/kg							1.3			0.039	U		0.057	J		0.043	U
Benzoic Acid	3300000	300		mg/kg							1.9	U									
Benzyl Alcohol	82000	9.6		mg/kg							0.76	U									
bis-(2-Chloroethoxy)Methane	2500	0.26		mg/kg							0.047	U		0.039	U		0.042	U		0.043	U
bis-(2-Chloroethyl)Ether	1	0.000072		mg/kg							0.047	U		0.039	U		0.042	U		0.043	U
bis(2-Chloroisopropyl)Ether				mg/kg																	
bis-(2-Ethylhexyl)Phthalate	160	26	28	mg/kg							0.38	J		0.14	U		0.12	U		0.13	J
Butylbenzyl Phthalate	1200	4.8		mg/kg							0.76	U		0.094	U		0.079	U		0.084	U
Caprolactam	400000	50		mg/kg																	
Carbazole				mg/kg							0.083	J									
Chlorobenzilate	21	0.02		mg/kg							0.76	U									
Chrysene	2100	180		mg/kg							1.3			2.8			0.039	U		0.084	J
Diallate	38	0.016		mg/kg							0.76	U									
Dibenzo(a,h)Anthracene	2.1	1.92		mg/kg							0.35	J		0.62			0.039	U		0.042	U
Dibenzofuran	1200	3		mg/kg							0.76	U		0.27	J		0.039	U		0.042	U
Diethyl Phthalate	660000	122		mg/kg							0.76	U		0.094	U		0.079	U		0.084	U
Dimethoate	1800	0.198		mg/kg							0.76	U									
Dimethyl Phthalate				mg/kg							0.76	U		0.094	U		0.079	U		0.084	U
Di-n-Butyl Phthalate	82000	46		mg/kg							0.76	U		0.094	U		0.079	U		0.084	U
Di-n-Octyl Phthalate	8200	1140		mg/kg							0.76	U		0.094	U		0.079	U		0.084	U
Dinoseb	820	2.6	1.24	mg/kg							0.76	U									
Disulfoton	33	0.0188		mg/kg							0.76	U									
Ethane, Pentachloro-	36	0.0062		mg/kg							0.76	U									
Ethyl Methacrylate	7600	3		mg/kg							0.76	U									
Ethyl Parathion	4900	8.6																			

Table 3. SWMU 14 Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location			Units	SM14-TP06-01		SM14-TP06-01		SW14-SURFACE-01		SW14-TP07-01		SW14-TP08-01		SW14-TP09-01		SW14-TP09-01			
	Industrial SSL	Risk-Based SSL	MCL-Based SSL		Sample ID	Sample Date	Sample ID	Sample Date	Sample ID	Sample Date	Sample ID	Sample Date	Sample ID	Sample Date	Sample ID	Sample Date	Sample ID	Sample Date		
Fluorene	30000	108		mg/kg	0.76	U					0.047	U		0.039	U		0.042	U	0.043	U
Hexachlorobenzene	0.96	0.0024	0.26	mg/kg	16	DJ					0.047	U		0.039	U		0.042	U	0.043	U
Hexachlorobutadiene	5.3	0.0054		mg/kg	0.76	U					0.094	U		0.079	U		0.084	U	0.085	U
Hexachlorocyclopentadiene	7.5	0.026	3.2	mg/kg	0.76	R					0.24	U		0.2	U		0.21	U	0.21	U
Hexachloroethane	8	0.004		mg/kg	0.76	U					0.047	U		0.039	U		0.042	U	0.043	U
Hexachloropropene				mg/kg	0.76	U														
Indeno(1,2,3-Cd)Pyrene	21	19.6		mg/kg	0.9						1.5			0.039	U		0.062	J	0.043	UJ
Isodrin				mg/kg	0.76	U														
Isophorone	2400	0.52		mg/kg	0.76	U					0.047	U		0.039	U		0.042	U	0.043	U
Isosafrole				mg/kg	0.76	U														
Kepone	0.23	0.0024		mg/kg	1.9	R														
Methanesulfonic Acid, Ethyl Ester				mg/kg	0.76	U														
Methapyriline				mg/kg	0.76	U														
Methyl Methanesulfonate	23	0.0032		mg/kg	0.76	U														
Methyl Parathion	210	0.148		mg/kg	0.76	U														
Naphthalene	8.6	0.0076		mg/kg	0.76	U					0.047	U		0.039	U		0.042	U	0.043	U
Nitrobenzene	22	0.00184		mg/kg	0.23	J					0.24	J		0.039	U		0.05	J	0.043	U
n-Nitrosodiethylamine	0.015	0.00000122		mg/kg	0.76	U														
n-Nitrosodimethylamine	0.034	0.00000054		mg/kg	0.76	U														
n-Nitrosodi-n-Butylamine	0.46	0.00011		mg/kg	0.76	U														
n-Nitroso-di-n-Propylamine	0.33	0.000162		mg/kg	0.76	U					0.047	U		0.039	U		0.042	U	0.043	U
n-Nitrosodiphenylamine	470	1.34		mg/kg	0.052	J					0.047	U		0.039	U		0.042	U	0.043	U
n-Nitrosomethylethylamine	0.091	0.000004		mg/kg	0.76	U														
n-Nitrosomorpholine	0.34	0.000056		mg/kg	0.76	U														
n-Nitrosopiperidine	0.24	0.000088		mg/kg	0.76	U														
n-Nitrosopyrrolidine	1.1	0.00028		mg/kg	0.76	U														
O,O,O-Triethyl Phosphorothioate				mg/kg	0.76	U														
o-Toluidine	140	0.04		mg/kg	0.76	U														
Pentachlorobenzene	930	0.48		mg/kg	0.18	J														
Pentachloronitrobenzene	13	0.03		mg/kg	0.76	U														
Pentachlorophenol	4	0.00114	0.028	mg/kg	1.9	U					0.24	U		0.2	U		0.21	U	0.21	U
Phenacetin	1000	0.194		mg/kg	0.76	U														
Phenanthrene				mg/kg	0.62	J					1.8			0.039	U		0.042	U	0.043	U
Phenol	250000	66		mg/kg	0.76	U					0.097	J		0.039	U		0.042	U	0.043	U
Phorate	160	0.068		mg/kg	0.76	U														
p-Phenylenediamine	820	0.108		mg/kg	0.76	R														
Pronamide	62000	24		mg/kg	0.76	U														
Pyrene	23000	260		mg/kg	1.3	J					1.2			0.039	U		0.13	J	0.043	U
Pyridine	1200	0.136		mg/kg	0.76	U														
Quinoline, 4-Nitro-1-Oxide-				mg/kg	0.76	R														
Safrole	10	0.00118		mg/kg	0.76	U														
Thionazine				mg/kg	0.76	U														
Thiopyrophosphoric Acid ((Ho)2P(S)2O), Tetraethyl	410	0.104		mg/kg	0.76	U														
Total Aramite	92	0.3		mg/kg	0.76	U														
Cyanide, Total	150	0.3	40	mg/kg	1.1															

Notes:

Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), Industrial Soil Screening Level (SSL) (November 2021)

Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20

Exceeds the EPA RSL, Maximum Contaminant Level (MCL) SSL assuming a DAF of 20

Blanks indicate RSL not established or constituent not analyzed

RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0

U = undetected

J = estimated value

J+ = estimated biased high

J- = estimated biased low

R = rejected

MG/KG - milligram per kilogram

SWMU = Solid Waste Management Unit

RCRA = Resource Conservation and Recovery Act

Sample depth shown in Sample ID (e.g., SBBF3-04_6-8 indicates 6 to 8-foot sample)

DUP = Duplicate sample

Exceedances shown may exceed one or more criteria if available

Table 4. SWMU 15 Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location			Units	SM15-SB01		SM15-SB01		SM15-SB01		SM15-SB02		SM15-SS02		SM15-SS03		SM15-SS03		SM15-SS04		SM15-TP01-01		SM15-TP03-01		
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20		Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result
Metals																									
Aluminum	1100000	600000		mg/kg	22800		15500				9540		16200		14500		10200		9940		12300				8700
Antimony	470	7	5.4	mg/kg	2.25 U		2.33 UJ				6.92 J		2.39 U		21.8		24.5		27		9.75				4 B
Arsenic	3	0.03	5.8	mg/kg	7.72		1.78 J				40.2		2.17 J		23.4		26.6		30.6		18.8				17
Barium	220000	320	1640	mg/kg	98.7		51.4				156		64.7		609		306		236		225				213
Beryllium	2300	380	64	mg/kg	0.569		0.681				0.481 J		0.695		1.58 J		2.72 U		2.59 U		0.558 J				0.8
Boron	230000	260		mg/kg																					15.9
Cadmium	100	2.8	7.6	mg/kg	0.562 U		0.582 U				5.94 U		0.597 U		4.09		2.05 J		1.77 J		0.594				0.5 B
Calcium				mg/kg	2520		875 J				24800		608		26600		1540		1390		24700				11000
Chromium			3600000	mg/kg	42.2		18.9 J				71.5		22.5		480		43.7		47.4		84.3				184
Cobalt	350	5.4		mg/kg	7.69		6.5				23.9		7.72		20.9		21.5		11.7		11.7				12.8
Copper	47000	560	920	mg/kg	32.7		9.23 J				210		9.23 J		248 J		3110 J		3250 J		361				1500
Iron	820000	7000		mg/kg	35000		16500 J				202000		13000		64700		138000		141000		44100				25100 J
Lead	800		280	mg/kg	35.9		10.3 J				227		9.94		2370 J		715 J		813 J		371				141 J
Magnesium				mg/kg	2760		2730				2760		3300		11200		1290		1270		13300				2220
Manganese	26000	560		mg/kg	180		100 J				1330		104		1790		588		755		381				1040 J
Nickel	22000	520		mg/kg	31.8		14.1 J				75.1		16.8		166		29.5		30.9		24.1				18.9 J
Potassium				mg/kg	1390		1270 J				1190		1510		3080		1110		1110		2490				910 J
Selenium	5800	10.4	5.2	mg/kg	3.23		1.49 J				35.4		2.39 U		12.1		32.8		34.3		14.6				2.5
Silver	5800	16		mg/kg	0.253 J		0.582 U				2.97 U		0.597 U		2.57 U		14.2		16.4		5.47				0.7 B
Sodium				mg/kg	80.8 J		139				161		139		279		107 J		105		174				119 B
Thallium	12	0.28	2.8	mg/kg	1.28 J		3.49 U				17.8 U		3.58 U		4.19 J		6.47 J		6.77 J		2.33 J				0.4 U
Tin	700000	60000		mg/kg																					
Vanadium	5800	1720		mg/kg	44.4		21.3				73.9		21.5		58.6		52.3		55.6		38.9				34.2 J
Zinc	350000	7400		mg/kg	57.7		41.7 J				85.8		53.1		775		691		680		245				148 J
Mercury	46	0.66	2	mg/kg	0.169		0.0459 J				0.866		0.0121 J		4.26		0.605		0.507		6.22				1.2 L
Pesticides																									
4,4'-DDD	9.6	0.15		mg/kg	0.15				0.081 J		0.073		0.0037		45		11		18		36			2.2 J	
4,4'-DDE	9.3	0.22		mg/kg	0.35				0.017 J		0.068		0.0011		42		5.3		7		9.9 J			1.8 J	
4,4'-DDT	8.5	1.54		mg/kg	0.57				0.075 J		0.023		0.0063		220		71		93		88 J			3 J	
Aldrin	0.18	0.003		mg/kg	0.0016 U		0.0018 U		0.0008 U		0.0016 U		0.00083 U		0.22 U		0.055 U		0.0078 U		0.0078 U			0.1 UJ	
Alpha-BHC	0.36	0.00084		mg/kg	0.027		0.06 J		0.025		0.01		0.017 J		0.17 J		2.8		2.3		0.13			0.1 UJ	
Beta-BHC	1.3	0.003		mg/kg	0.073		0.022 J		0.083		0.0039		0.022 J		2.1		7.1		8.7		2.1			0.48 J	
Chlordane				mg/kg																					1 UJ
cis-Chlordane	500	9.8		mg/kg	0.0016 U		0.0008 U		0.0018 U		0.00083 U		0.0018 U		0.22 U		0.055 U		0.05 U		0.0078 U			0.1 UJ	
Delta-BHC				mg/kg	0.0087		0.018 J		0.0018 U		0.0015		0.0018 U		0.22 U		0.081		0.072		0.055			0.1 UJ	
Dieldrin	0.14	0.00142		mg/kg	0.0016 U		0.0008 U		0.0018 U		0.00083 U		0.0018 U		0.22 U		0.055 U		0.05 U		0.0078 U			0.2 UJ	
Endosulfan I				mg/kg	0.0016 U		0.0018 U		0.0008 U		0.0018 U		0.00083 U		0.22 U		0.055 U		0.05 U		0.0078 U			0.1 UJ	
Endosulfan II				mg/kg	0.0016 U		0.0018 U		0.0008 U		0.0018 U		0.00083 U		0.22 U		0.055 U		0.05 U		0.0078 U			0.2 UJ	
Endosulfan Sulfate	4900	42		mg/kg	0.0016 U		0.0018 U		0.0008 U		0.0018 U		0.00083 U		0.22 U		0.055 U		0.05 U		0.0078 U			0.2 UJ	
Endrin	250	1.84	1.62	mg/kg	0.0016 U		0.0018 U		0.0008 U		0.0018 U		0.00083 U		0.22 U		0.055 U		0.05 U		0.0078 U			0.2 UJ	
Endrin Aldehyde				mg/kg	0.0016 U		0.0018 U		0.0008 U		0.0018 U		0.00083 U		0.22 U		0.055 U		0.05 U		0.0078 U			0.2 UJ	
Endrin Ketone				mg/kg	0.0016 U		0.0018 U		0.0008 U		0.0018 U		0.00083 U		0.22 U		0.055 U		0.05 U		0.0078 U			0.2 UJ	
Gamma-BHC (Lindane)	2.5	0.0048	0.024	mg/kg	0.0037		0.0023		0.0018 U		0.0018 U		0.00036 J		0.14 J		0.21		0.14		0.038 J			0.1 UJ	
Gamma-Chlordane				mg/kg	0.0016 U		0.0018 U		0.0008 U		0.0018 U		0.00083 U		0.22 U		0.055 U		0.05 U		0.0078 U			0.1 UJ	
Heptachlor	0.63	0.0024	0.66	mg/kg	0.0016 U		0.0018 U		0.0008 U		0.0018 U		0.00083 U		0.22 U		0.055 U		0.05 U		0.0078 U			0.1 UJ	
Heptachlor Epoxide	0.33	0.00056	0.082	mg/kg	0.0016 U		0.0018 U		0.0008 U		0.0018 U		0.00083 U		0.22 U		0.055 U		0.05 U		0.0078 U			0.1 UJ	
Methoxychlor	4100	40	44	mg/kg	0.0031 U		0.0016 U		0.0035 U		0.0016 U		0.0016 U		0.42 U		0.11 U		0.097 U		0.015 U			1 UJ	
Toxaphene	2.1	0.22	9.2	mg/kg	0.041 U		0.02 U		0.046 U		0.021 U		0.021 U		5.5 U		1.4 U		1.3 U		0.2 U			10 UJ	
trans-Chlordane	500	28		mg/kg																				0.1 UJ	
Volatile Organic Compounds																									
Aroclor-1016	27	0.42		mg/kg																					0.2 UJ
Aroclor-1221	0.83	0.0016		mg/kg																					0.2 UJ
Aroclor-1232	0.72	0.0016		mg/kg																					0.2 UJ
Aroclor-1242	0.95	0.024		mg/kg																					0.2 UJ
Aroclor-1248	0.94	0.024		mg/kg																					0.2 UJ
Aroclor-1254	0.97	0.04		mg/kg																					0.28 J
Aroclor-1260	0.99	0.11		mg/kg																					0.2 UJ
Volatile Organic Compounds																									
1,1,1,2-Tetrachloroethane	8.8	0.0044		mg/kg																					0.57 U
1,1,1-Trichloroethane	36000	56	1.4	mg/kg	0.005 U		0.005 U				0.006 U		0.001 J		0.006 U		0.006 U		0.005 U		0.004 U				

Table 4. SWMU 15 Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date			SM15-SB01 SM15-SB1-(SS)_073015 7/30/2015	SM15-SB01 SM15-SB1-(12.0-13.0)_073015 7/30/2015	SM15-SB01 SM15-SB1-(12-13)_073015 7/30/2015	SM15-SB02 SM15-SB2-(SS)_073015 7/30/2015	SM15-SB02 SM15-SB2-(10.0-10.5)_073015 7/30/2015	SM15-SS02 SM15-SS2_090815 9/8/2015	SM15-SS03 SM15-SS3_091015 9/10/2015	SM15-SS03 DUP9_091015 9/10/2015	SM15-SS04 SM15-SS4_091515 9/15/2015	SM15-TP01-01 SM15-TP01-010430031 4/30/2003	SM15-TP03-01 SM15-TP03-010430031 4/30/2003			
	Industrial SSI	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	
1,3-Dichloropropane	23000	2.6		mg/kg											0.57 U	0.0059 UJ	
1,4-Dichlorobenzene	11	0.0092	1.44	mg/kg	0.005 U	0.005 U		0.002 J	0.004 U	0.006 UJ	0.006 U	0.004 UJ	0.78	0.0059 UJ			
1,4-Dioxane	24	0.00188		mg/kg	0.25 U	0.23 U		0.14 J	0.68	0.32 U	0.28 U	0.21 U	29 R	0.3 R			
2,2-Dichloropropane				mg/kg											0.57 U	0.0059 UJ	
2-Butanone	190000	24		mg/kg	0.005 J	0.009 UJ		0.005 J	0.008 U	0.013		0.011 U	0.011 U	0.008 U	0.57 R	0.0059 R	
2-Chloroethyl Vinyl Ether				mg/kg											0.57 U	0.0059 UJ	
2-Chlorotoluene	23000	4.6		mg/kg											0.57 U	0.0059 UJ	
2-Hexanone	1300	0.176		mg/kg	0.01 U	0.009 UJ		0.012 U	0.008 U	0.013 U		0.011 U	0.011 U	0.008 U	0.57 U	0.0059 UJ	
4-Chlorotoluene	23000	4.8		mg/kg											0.57 U	0.0059 UJ	
4-Methyl-2-Pentanone	140000	28		mg/kg	0.01 U	0.009 U		0.012 U	0.008 U	0.013 U		0.011 U	0.011 U	0.008 U	0.57 U	0.0059 UJ	
Acetone	1100000	74		mg/kg	0.076	0.019 U		0.037	0.029	0.17		0.066	0.048	0.029 U	0.57 R	0.022 B	
Acrolein	0.6	0.000168		mg/kg											0.57 R	0.0059 R	
Acrylonitrile	1.1	0.00022		mg/kg											0.57 U	0.0059 UJ	
Allyl Chloride	3.2	0.0046		mg/kg											0.57 U	0.0059 UJ	
Benzene	5.1	0.0046	0.052	mg/kg	0.001 J	0.005 U		0.003 J	0.016	0.001 J	0.001 J	0.0009 J	0.0008 J	0.57 U	0.0011 J	0.0059 UJ	
Bromobenzene	1800	0.84		mg/kg											0.57 U	0.0059 UJ	
Bromochloromethane	630	0.42		mg/kg	0.005 U	0.005 U		0.006 U	0.004 U	0.006 U	0.006 U	0.005 U	0.004 U	0.57 U	0.0059 UJ	0.0059 UJ	
Bromodichloromethane	1.3	0.00072	0.44	mg/kg	0.005 U	0.005 U		0.006 U	0.004 U	0.006 U	0.006 U	0.005 U	0.004 U	0.57 U	0.0059 UJ	0.0059 UJ	
Bromoform	86	0.0174	0.42	mg/kg	0.005 U	0.005 U		0.006 U	0.005 U	0.006 U	0.006 U	0.005 U	0.004 U	0.57 U	0.0059 UJ	0.0059 UJ	
Bromomethane	30	0.038		mg/kg	0.005 U	0.005 U		0.006 U	0.004 U	0.006 U	0.006 U	0.005 U	0.004 U	0.57 U	0.0059 UJ	0.0059 UJ	
Butylbenzene	58000	64		mg/kg											0.57 U	0.0059 UJ	
Carbon Disulfide	3500	4.8		mg/kg	0.001 J	0.005 U		0.015	0.004 U	0.003 J	0.002 J	0.002 J	0.002 J	0.57 U	0.0059 UJ	0.0059 UJ	
Carbon Tetrachloride	2.9	0.0036	0.038	mg/kg	0.005 U	0.005 U		0.052	0.005 U	0.006 U	0.006 U	0.004 U	0.004 U	0.57 U	0.0059 UJ	0.0059 UJ	
Chlorobenzene	1300	1.06	1.36	mg/kg	0.005 U	0.005 U		0.006 U	0.004 J	0.006 U	0.006 U	0.005 U	0.006	0.57 U	0.0059 UJ	0.0059 UJ	
Chloroethane	23000	48		mg/kg	0.005 U	0.005 U		0.006 U	0.004 U	0.006 U	0.006 U	0.005 U	0.004 U	0.57 U	0.0059 UJ	0.0059 UJ	
Chloroform	1.4	0.00122	0.44	mg/kg	0.01	0.005 U		0.026	0.001 J	0.006 U	0.006 U	0.005 J	0.003 J	0.57 U	0.0017 B	0.0059 UJ	
Chloromethane	460	0.98		mg/kg	0.005 U	0.005 U		0.006 U	0.004 U	0.006 U	0.006 U	0.005 U	0.004 U	0.57 U	0.0059 UJ	0.0059 UJ	
Chloroprene	0.044	0.000196		mg/kg											0.57 U	0.0059 UJ	
cis-1,2-Dichloroethene	2300	0.22	0.42	mg/kg	0.004 J	0.02 J		0.009	0.022	0.006 U	0.006 U	0.005 U	0.0008 J	4.3	0.0059 UJ	0.0059 UJ	
cis-1,3-Dichloropropene				mg/kg	0.005 U	0.005 U		0.006 U	0.004 U	0.006 U	0.006 U	0.005 U	0.004 U	0.57 U	0.0059 UJ	0.0059 UJ	
cis-1,4-Dichloro-2-Butene	0.032	0.0000124		mg/kg										0.57 U	0.0059 UJ	0.0059 UJ	
Cyclohexane	27000	260		mg/kg	0.005 U	0.005 U		0.006 U	0.003 J	0.006 UJ	0.006 UJ	0.005 UJ	0.004 UJ	0.57 U	0.0059 UJ	0.0059 UJ	
Dibromochloromethane	39	0.0046	0.42	mg/kg	0.005 U	0.005 U		0.006 U	0.005 U	0.006 U	0.006 U	0.004 U	0.004 U	0.57 U	0.0059 UJ	0.0059 UJ	
Dibromomethane	99	0.042		mg/kg										0.57 U	0.0059 UJ	0.0059 UJ	
Dichlorodifluoromethane	370	6		mg/kg	0.005 U	0.005 U		0.006 U	0.004	0.006 U	0.006 U	0.005 U	0.004 U	0.57 U	0.0059 UJ	0.0059 UJ	
Ethyl Cyanide				mg/kg										2.3 R	0.024 R		
Ethyl Methacrylate	7600	3		mg/kg										0.57 U	0.0059 UJ	0.0059 UJ	
Ethylbenzene	25	0.034	15.6	mg/kg	0.005 U	0.005 U		0.006 U	0.004 U	0.006 U	0.006 U	0.005 U	0.004 U	0.57 U	0.0059 UJ	0.0059 UJ	
Hexachlorobutadiene	5.3	0.0054		mg/kg										0.57 U	0.0059 UJ	0.0059 UJ	
Iodomethane				mg/kg										0.57 U	0.0059 UJ	0.0059 UJ	
Isobutanol	350000	24		mg/kg										29 R	0.3 R		
Isopropylbenzene	9900	14.8		mg/kg	0.005 U	0.005 U		0.006 U	0.004 U	0.006 U	0.006 U	0.005 U	0.004 U	0.57 U	0.0059 UJ	0.0059 UJ	
m&p-Xylenes				mg/kg	0.005 U	0.005 U		0.006 U	0.004 J	0.006 U	0.006 U	0.005 U	0.004 U	0.57 U	0.0059 UJ	0.0059 UJ	
Methacrylonitrile	100	0.0086		mg/kg										0.57 U	0.0059 UJ	0.0059 UJ	
Methyl Acetate	1200000	82		mg/kg	0.005 U	0.005 U		0.006 U	0.004 U	0.006 U	0.006 U	0.003 J	0.004 U	0.57 U	0.0059 UJ	0.0059 UJ	
Methyl Methacrylate	19000	6		mg/kg										0.57 U	0.0059 UJ	0.0059 UJ	
Methyl Tert-Butyl Ether	210	0.064		mg/kg	0.005 U	0.005 U		0.006 U	0.004 U	0.006 U	0.006 U	0.005 U	0.004 U	0.57 U	0.0059 UJ	0.0059 UJ	
Methylcyclohexane				mg/kg	0.005 U	0.005 U		0.004 J	0.004 U	0.006 U	0.006 U	0.005 U	0.004 U	0.57 U	0.0059 UJ	0.0059 UJ	
Methylene Chloride	1000	0.058	0.026	mg/kg	0.005 U	0.005 U		0.003 J	0.011	0.006 U	0.006 U	0.005 U	0.002 J	0.57 U	0.0059 UJ	0.0059 UJ	
Naphthalene	8.6	0.0076		mg/kg										0.57 UJ	0.0059 UJ	0.0059 UJ	
n-Propylbenzene	24000	24		mg/kg										0.57 U	0.0059 UJ	0.0059 UJ	
o-Xylene	2800	3.8		mg/kg	0.005 U	0.005 U		0.006 U	0.001 J	0.006 U	0.006 U	0.005 U	0.004 U	0.57 U	0.0059 UJ	0.0059 UJ	
p-Isopropyltoluene				mg/kg										0.57 U	0.0059 UJ	0.0059 UJ	
Sec-Butylbenzene	120000	118		mg/kg										0.57 U	0.0059 UJ	0.0059 UJ	
Styrene	35000	26	2.2	mg/kg	0.005 U	0.005 U		0.006 U	0.004 U	0.006 U	0.006 U	0.005 U	0.004 U	0.57 U	0.0059 UJ	0.0059 UJ	
Tert-Butylbenzene	120000	32		mg/kg										0.57 U	0.0059 UJ	0.0059 UJ	
Tetrachloroethene	100	0.102	0.046	mg/kg	0.001 J	0.001 J		0.072	0.01	0.006 U	0.006 U	0.005 U	0.0009 J	15	0.0065 J	0.0065 J	
Tetrahydrofuran	95000	15		mg/kg										5.7 U	0.059 UJ	0.059 UJ	
Toluene	47000	15.2	13.8	mg/kg	0.005 U	0.005 U		0.006 U	0.009	0.001 J	0.006 U	0.005 U	0.004 U	0.57 U	0.03 J	0.03 J	
Total Xylenes	2500	3.8	198	mg/kg	0.005 U	0.005 U		0.006 U	0.006	0.006 U	0.006 U	0.005 U	0.004 U	0.57 U	0.0059 UJ	0.0059 UJ	
trans-1,2-Dichloroethene	300	0.42	0.62	mg/kg	0.005 U	0.002 J		0.006 U	0.004 U	0.006 U	0.006 U	0.005 U	0.004 U	0.57 U	0.0059 UJ	0.0059 UJ	
trans-1,3-Dichloropropene				mg/kg	0.005 U	0.005 U		0.006 U	0.004 U	0.006 U	0.006 U	0.005 U	0.004 U	0.57 U	0.0059 UJ	0.0059 UJ	
trans-1,4-Dichloro-2-Butene	0.032	0.0000124		mg/kg										0.57 U	0.0059 UJ	0.0059 UJ	
Trichloroethene	6	0.0036	0.036	mg/kg	0.043	0.044 J		0.033	0.24	0.006 U	0.006 U	0.005 U	0.003 J	6.7	0.0037 J	0.0037 J	
Trichlorofluoromethane	350000	66		mg/kg	0.005 U	0.005 U		0.006 U	0.004 U	0.006 U	0.006 U	0.005 U	0.004 U	0.57 U	0.0059 UJ	0.0059 UJ	
Vinyl Acetate	3800	1.74		mg/kg										0.57 U	0.0059 UJ	0.0059 UJ	
Vinyl Chloride	1.7	0.00013	0.0138	mg/kg	0.005 U	0.002 J		0.002 J	0.002 J	0.006 U	0.006 U	0.005 U	0.004 U	0.12 J	0.0059 UJ	0.0059 UJ	
Semi-Volatile Organic Compounds																	
1,1'-Biphenyl	200	0.174		mg/kg	0.19 U	0.039 U		0.2 U	0.039 U	0.17 U	0.096	0.12 J	0.2 U	0.4 U			
1,2,4,5-Tetrachlorobenzene	35	0.0158		mg/kg	0.19 U	0.039 U		0.2 U	0.039 U	0.17 U	0.023 J	0.18 U	0.2 U				
1,2,4-Trichlorobenzene	110	0.068	4	mg/kg													
1,2-Dichlorobenzene	9300	6	11.6	mg/kg													
1,3,5-Trinitrobenzene	32000	42		mg/kg													
1,3-Dichlorobenzene				mg/kg													
1,3-Dinitrobenzene	82	0.036		mg/kg													
1,4-Dichlorobenzene	11	0.0092	1.44	mg/kg													
1,4-Dioxane	24	0.00188		mg/kg													
1,4-Naphthoquinone				mg/kg													
1-Naphthylamine				mg/kg													

Table 4. SWMU 15 Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location			Units	SM15-SB01 SM15-SB1-(SS)_073015 7/30/2015		SM15-SB01 SM15-SB1-(12.0-13.0)_073015 7/30/2015		SM15-SB01 SM15-SB1-(12-13)_073015 7/30/2015		SM15-SB02 SM15-SB2-(SS)_073015 7/30/2015		SM15-SB02 SM15-SB2-(10.0-10.5)_073015 7/30/2015		SM15-SS02 SM15-SS2_090815 9/8/2015		SM15-SS03 SM15-SS3_091015 9/10/2015		SM15-SS03 DUP9_091015 9/10/2015		SM15-SS04 SM15-SS4_091515 9/15/2015		SM15-TP01-01 SM15-TP01-010430031 4/30/2003		SM15-TP03-01 SM15-TP03-010430031 4/30/2003					
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20		Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual		
Hexachlorocyclopentadiene	7.5	0.026	3.2	mg/kg	2.9	U		0.58	U			3.1	U	0.59	U		2.6	U		0.54	U		2.7	U		3	U		0.4	U
Hexachloroethane	8	0.004		mg/kg	0.96	U		0.19	U			1	U	0.2	U		0.86	U		0.18	U		0.9	U		0.99	U		0.4	U
Hexachloropropene				mg/kg																										
Indeno(1,2,3-Cd)Pyrene	21	19.6		mg/kg	0.19			0.005	J			0.21		0.02	U		5.2			0.094	J		0.19	J		0.68			0.48	
Isodrin				mg/kg																										
Isophorone	2400	0.52		mg/kg	0.19	U		0.039	U			0.2	U	0.039	U		0.17	U		0.036	U		0.18	U		0.2	U		0.4	U
Isosafrole				mg/kg																										
Kepone	0.23	0.0024		mg/kg																										
Methanesulfonic Acid, Ethyl Ester				mg/kg																										
Methapyrene				mg/kg																										
Methyl Methanesulfonate	23	0.0032		mg/kg																										
Methyl Parathion	210	0.148		mg/kg																										
Naphthalene	8.6	0.0076		mg/kg		0.098	U		0.02	U		0.13		0.02	U		0.39			0.048			0.046	J		0.13			0.028	J
Nitrobenzene	22	0.00184		mg/kg	0.19	U		0.039	U			0.19	J	0.058			0.09	J		0.022	J		0.18	U		0.2	U		0.018	J
n-Nitrosodiethylamine	0.015	0.0000122		mg/kg																										
n-Nitrosodimethylamine	0.034	0.0000054		mg/kg																										
n-Nitrosodi-n-Butylamine	0.46	0.00011		mg/kg																										
n-Nitroso-di-n-Propylamine	0.33	0.000162		mg/kg	0.19	U		0.039	U			0.2	U	0.039	U		0.17	U		0.036	U		0.18	U		0.2	U		0.4	U
n-Nitrosodiphenylamine	470	1.34		mg/kg	0.19	U		0.039	U			0.19	J	0.039	U		0.17	U		0.14			0.15	J		0.2	U		0.035	J
n-Nitrosomethylethylamine	0.091	0.000004		mg/kg																										
n-Nitrosomorpholine	0.34	0.000056		mg/kg																										
n-Nitrosopiperidine	0.24	0.000088		mg/kg																										
n-Nitrosopyrrolidine	1.1	0.00028		mg/kg																										
O,O,O-Triethyl Phosphorothioate				mg/kg																										
o-Toluidine	140	0.04		mg/kg																										
Pentachlorobenzene	930	0.48		mg/kg																										
Pentachloronitrobenzene	13	0.03		mg/kg																										
Pentachlorophenol	4	0.00114	0.028	mg/kg	0.98	U		0.2	U			1	U	0.2	U		0.88	U		0.18	U		0.92	U		1	U		1	U
Phenacetin	1000	0.194		mg/kg																										
Phenanthrene				mg/kg	0.41			0.019	J			0.38		0.02	U		0.94			0.11	J		1	J		1.4			0.97	
Phenol	250000	66		mg/kg	0.19	U		0.039	U			0.2	U	0.039	U		0.17	U		0.036	U		0.18	U		0.2	U		0.4	U
Phorate	160	0.068		mg/kg																										
p-Phenylenediamine	820	0.108		mg/kg																										
Pronamide	62000	24		mg/kg																										
Pyrene	23000	260		mg/kg	0.7			0.024				0.43		0.02	U		3.5			0.18	J		0.76	J		1.6			1.3	
Pyridine	1200	0.136		mg/kg																										
Quinoline, 4-Nitro-1-Oxide-				mg/kg																										
Safrole	10	0.00118		mg/kg																										
Thionazine				mg/kg																										
Thiopyrophosphoric Acid ((Ho)2P(S)2O), Tetraethyl	410	0.104		mg/kg																										
Total Aramite	92	0.3		mg/kg																										
Cyanide, Total	150	0.3	40	mg/kg																										

Notes:
 Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), Industrial Soil Screening Level (SSL) (November 2021)
 Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20
 Exceeds the EPA RSL, Maximum Contaminant Level (MCL) SSL assuming a DAF of 20
 Blanks indicate RSL not established or constituent not analyzed
 RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0
 U = undetected
 J = estimated value
 J+ = estimated biased high
 J- = estimated biased low
 R = rejected
 MG/KG - milligram per kilogram
 SWMU = Solid Waste Management Unit
 RCRA = Resource Conservation and Recovery Act
 Sample depth shown in Sample ID (e.g., SBBF3-04_6-8 indicates 6 to 8-foot sample)
 DUP = Duplicate sample
 Exceedances shown may exceed one or more criteria if available

Table 4. SWMU 15 Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location			Units	SM15-TP07-01		SM15-TP09-01		SM15-TP10-01	
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20		Sample ID Sample Date	Result	Qual	Result	Qual	Result
Metals										
Aluminum	1100000	600000		mg/kg	9310		15500		12600	
Antimony	470	7	5.4	mg/kg	1.5	B	0.882	UL	0.898	UL
Arsenic	3	0.03	5.8	mg/kg	18.4		7.92		6.46	
Barium	220000	3200	1640	mg/kg	189		53.1		52.7	
Beryllium	2300	380	64	mg/kg	0.5	B	0.897		0.956	
Boron	230000	260		mg/kg	5.1	B				
Cadmium	100	2.8	7.6	mg/kg	0.5	B	0.462	J	0.427	J
Calcium				mg/kg	17300		957		1670	
Chromium			3600000	mg/kg	30.2		31.6	J	27.9	J
Cobalt	350	5.4		mg/kg	8.5		7.59		6.97	
Copper	47000	560	920	mg/kg	84		15.5		16.5	
Iron	820000	7000		mg/kg	32200	J	32900		28000	
Lead	800		280	mg/kg	132	J	9.51		8.58	
Magnesium				mg/kg	8680		2980		2590	
Manganese	26000	560		mg/kg	180	J	185		195	
Nickel	22000	520		mg/kg	19.2	J	13.5	J	13.5	J
Potassium				mg/kg	1650	J	1410		1200	
Selenium	5800	10.4	5.2	mg/kg	1.3		1.02	U	1.04	U
Silver	5800	16		mg/kg	0.2	U	0.155	U	0.158	U
Sodium				mg/kg	50.4	U	36.1	U	36.8	U
Thallium	12	0.28	2.8	mg/kg	0.3	U	1.75	J	1.77	J
Tin	700000	60000		mg/kg	7.6					
Vanadium	5800	1720		mg/kg	31.5	J	41.1		38.7	
Zinc	350000	7400		mg/kg	161	J	43.7	B	40.4	B
Mercury	46	0.66	2	mg/kg	0.8	L	0.0485	J	0.0271	J
Pesticides										
4,4'-DDD	9.6	0.15		mg/kg			0.018	J	0.4	
4,4'-DDE	9.3	0.22		mg/kg			0.031		0.21	J
4,4'-DDT	8.5	1.54		mg/kg			0.016	J	1.1	
Aldrin	0.18	0.003		mg/kg			0.004	U	0.041	U
Alpha-BHC	0.36	0.00084		mg/kg			0.0032	U	0.032	U
Beta-BHC	1.3	0.003		mg/kg			0.0021	U	0.021	U
Chlordane				mg/kg						
cis-Chlordane	500	9.8		mg/kg			0.0021	U	0.021	U
Delta-BHC				mg/kg			0.0026	U	0.026	U
Dieldrin	0.14	0.00142		mg/kg			0.004	U	0.041	U
Endosulfan I				mg/kg			0.0021	U	0.021	U
Endosulfan II				mg/kg			0.0049	U	0.05	U
Endosulfan Sulfate	4900	42		mg/kg			0.014	J	0.041	U
Endrin	250	1.84	1.62	mg/kg			0.011	U	0.11	U
Endrin Aldehyde				mg/kg			0.015	U	0.15	U
Endrin Ketone				mg/kg			0.004	U	0.041	U
Gamma-BHC (Lindane)	2.5	0.0048	0.024	mg/kg			0.0025	J	0.021	U
Gamma-Chlordane				mg/kg			0.0021	U	0.021	U
Heptachlor	0.63	0.0024	0.66	mg/kg			0.0028	U	0.028	U
Heptachlor Epoxide	0.33	0.00056	0.082	mg/kg			0.028	UJ	0.28	UJ
Methoxychlor	4100	40	44	mg/kg			0.021	UJ	0.21	UJ
Toxaphene	2.1	0.22	9.2	mg/kg			0.13	U	1.4	U
trans-Chlordane	500	28		mg/kg			0.0035	U	0.036	U
Volatile Organic Compounds										
Aroclor-1016	27	0.42		mg/kg						
Aroclor-1221	0.83	0.0016		mg/kg						
Aroclor-1232	0.72	0.0016		mg/kg						
Aroclor-1242	0.95	0.024		mg/kg						
Aroclor-1248	0.94	0.024		mg/kg						
Aroclor-1254	0.97	0.04		mg/kg						
Aroclor-1260	0.99	0.11		mg/kg						
Volatile Organic Compounds										
1,1,1,2-Tetrachloroethane	8.8	0.0044		mg/kg			0.005	UJ		
1,1,1-Trichloroethane	36000	56	1.4	mg/kg			0.001	U	0.001	U
1,1,2,2-Tetrachloroethane	2.7	0.0006		mg/kg			0.001	U	0.001	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	28000	520		mg/kg			0.55		0.002	U
1,1,2-Trichloroethane	5	0.00178	0.032	mg/kg			0.001	U	0.001	U
1,1-Dichloroethane	16	0.0156		mg/kg			0.005	UJ	0.001	U
1,1-Dichloroethene	1000	2	0.05	mg/kg			0.001	U	0.001	U
1,1-Dichloropropene				mg/kg						
1,2,3-Trichlorobenzene	930	0.42		mg/kg						
1,2,3-Trichloropropane	0.11	0.000064		mg/kg			0.005	UJ		
1,2,4-Trichlorobenzene	110	0.068	4	mg/kg			0.001	U	0.001	U
1,2,4-Trimethylbenzene	1800	1.62		mg/kg						
1,2-Dibromo-3-Chloropropane	0.064	0.000028	0.00172	mg/kg			0.005	UJ	0.002	U
1,2-Dibromoethane	0.16	0.00042	0.00028	mg/kg			0.001	U	0.001	U
1,2-Dichlorobenzene	9300	6	11.6	mg/kg			0.013		0.001	U
1,2-Dichloroethane	2	0.00096	0.028	mg/kg			0.001	U	0.001	U
1,2-Dichloroethene (Total)				mg/kg			0.005	UJ		
1,2-Dichloropropane	11	0.0056	0.034	mg/kg			0.005	UJ	0.001	U
1,3,5-Trimethylbenzene	1500	1.74		mg/kg						
1,3-Dichlorobenzene				mg/kg			0.001	U	0.001	U

Table 4. SWMU 15 Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location			Units	SM15-TP07-01		SM15-TP09-01		SM15-TP10-01	
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20		Sample ID	Sample Date	Sample ID	Sample Date	Sample ID	Sample Date
1,3-Dichloropropane	23000	2.6		mg/kg						
1,4-Dichlorobenzene	11	0.0092	1.44	mg/kg			0.002	J		0.001
1,4-Dioxane	24	0.00188		mg/kg						
2,2-Dichloropropane				mg/kg						
2-Butanone	190000	24		mg/kg	0.024	J		0.004	U	0.005
2-Chloroethyl Vinyl Ether				mg/kg						
2-Chlorotoluene	23000	4.6		mg/kg						
2-Hexanone	1300	0.176		mg/kg	0.005	UJ		0.003	U	0.004
4-Chlorotoluene	23000	4.8		mg/kg						
4-Methyl-2-Pentanone	140000	28		mg/kg	0.005	UJ		0.003	U	0.004
Acetone	1100000	74		mg/kg	0.096	J		0.02	J	0.01
Acrolein	0.6	0.000168		mg/kg	0.005	R		0.021	R	0.024
Acrylonitrile	1.1	0.00022		mg/kg	0.005	UJ				
Allyl Chloride	3.2	0.0046		mg/kg	0.005	UJ				
Benzene	5.1	0.0046	0.052	mg/kg	0.0011	J		0.0007	J	0.0008
Bromobenzene	1800	0.84		mg/kg						
Bromochloromethane	630	0.42		mg/kg						
Bromodichloromethane	1.3	0.00072	0.44	mg/kg	0.005	UJ		0.001	U	0.001
Bromoform	86	0.0174	0.42	mg/kg	0.005	UJ		0.001	U	0.001
Bromomethane	30	0.038		mg/kg	0.005	UJ		0.002	U	0.002
Butylbenzene	58000	64		mg/kg						
Carbon Disulfide	3500	4.8		mg/kg	0.0044	J		0.001	U	0.001
Carbon Tetrachloride	2.9	0.0036	0.038	mg/kg	0.005	UJ		0.001	U	0.001
Chlorobenzene	1300	1.06	1.36	mg/kg	0.0043	J		0.001	U	0.001
Chloroethane	23000	48		mg/kg	0.005	UJ		0.002	U	0.002
Chloroform	1.4	0.00122	0.44	mg/kg	0.003	B		0.001	U	0.002
Chloromethane	460	0.98		mg/kg	0.005	UJ		0.002	U	0.002
Chloroprene	0.044	0.000196		mg/kg						
cis-1,2-Dichloroethene	2300	0.22	0.42	mg/kg	0.005	UJ		0.031		0.15
cis-1,3-Dichloropropene				mg/kg	0.005	UJ		0.001	U	0.001
cis-1,4-Dichloro-2-Butene	0.032	0.0000124		mg/kg						
Cyclohexane	27000	260		mg/kg				0.001	U	0.001
Dibromochloromethane	39	0.0046	0.42	mg/kg	0.005	UJ		0.001	U	0.001
Dibromomethane	99	0.042		mg/kg	0.005	UJ				
Dichlorodifluoromethane	370	6		mg/kg	0.005	UJ		0.002	U	0.002
Ethyl Cyanide				mg/kg	0.02	UJ		0.032	U	0.036
Ethyl Methacrylate	7600	3		mg/kg						
Ethylbenzene	25	0.034	15.6	mg/kg	0.005	UJ		0.001	U	0.001
Hexachlorobutadiene	5.3	0.0054		mg/kg						
Iodomethane				mg/kg	0.005	UJ				
Isobutanol	350000	24		mg/kg						
Isopropylbenzene	9900	14.8		mg/kg				0.001	U	0.001
m&p-Xylenes				mg/kg	0.005	UJ				
Methacrylonitrile	100	0.0086		mg/kg	0.005	UJ				
Methyl Acetate	1200000	82		mg/kg				0.002	U	0.002
Methyl Methacrylate	19000	6		mg/kg	0.005	UJ				
Methyl Tert-Butyl Ether	210	0.064		mg/kg				0.0005	U	0.0006
Methylcyclohexane				mg/kg				0.001	U	0.001
Methylene Chloride	1000	0.058	0.026	mg/kg	0.005	UJ		0.002	U	0.002
Naphthalene	8.6	0.0076		mg/kg						
n-Propylbenzene	24000	24		mg/kg						
o-Xylene	2800	3.8		mg/kg	0.005	UJ				
p-Isopropyltoluene				mg/kg						
Sec-Butylbenzene	120000	118		mg/kg						
Styrene	35000	26	2.2	mg/kg	0.005	UJ		0.001	U	0.001
Tert-Butylbenzene	120000	32		mg/kg						
Tetrachloroethene	100	0.102	0.046	mg/kg	0.0045	J		0.4		0.001
Tetrahydrofuran	95000	15		mg/kg						
Toluene	47000	15.2	13.8	mg/kg	0.0026	J		0.002	J	0.001
Total Xylenes	2500	3.8	198	mg/kg	0.005	UJ		0.001	U	0.001
trans-1,2-Dichloroethene	300	0.42	0.62	mg/kg	0.005	UJ		0.001	U	0.001
trans-1,3-Dichloropropene				mg/kg	0.005	UJ		0.001	U	0.001
trans-1,4-Dichloro-2-Butene	0.032	0.0000124		mg/kg	0.005	UJ				
Trichloroethene	6	0.0036	0.036	mg/kg	0.0025	J		0.018		0.23
Trichlorofluoromethane	350000	66		mg/kg	0.005	UJ		0.002	U	0.002
Vinyl Acetate	3800	1.74		mg/kg	0.005	UJ				
Vinyl Chloride	1.7	0.00013	0.0138	mg/kg	0.005	UJ		0.001	U	0.01
Semi-Volatile Organic Compounds										
1,1'-Biphenyl	200	0.174		mg/kg						
1,2,4,5-Tetrachlorobenzene	35	0.0158		mg/kg	1.9	U				
1,2,4-Trichlorobenzene	110	0.068	4	mg/kg	0.31	J				
1,2-Dichlorobenzene	9300	6	11.6	mg/kg	0.22	J				
1,3,5-Trinitrobenzene	32000	42		mg/kg	1.9	U				
1,3-Dichlorobenzene				mg/kg	1.9	U				
1,3-Dinitrobenzene	82	0.036		mg/kg	1.9	U				
1,4-Dichlorobenzene	11	0.0092	1.44	mg/kg	0.23	J				
1,4-Dioxane	24	0.00188		mg/kg				0.12	U	0.12
1,4-Naphthoquinone				mg/kg	1.9	U				
1-Naphthylamine				mg/kg	1.9	U				

Table 4. SWMU 15 Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location			Units	SM15-TP07-01		SM15-TP09-01		SM15-TP10-01	
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20		Sample ID	Sample Date	Sample ID	Sample Date	Sample ID	Sample Date
2,2'-Oxybis(1-Chloropropane)	47000	5.2		mg/kg	1.9	U	0.041	U	0.041	U
2,3,4,6-Tetrachlorophenol	25000	3.6		mg/kg	1.9	U				
2,4,5-Trichlorophenol	82000	80		mg/kg	4.7	U	0.041	U	0.041	U
2,4,6-Trichlorophenol	210	0.08		mg/kg	1.9	U	0.041	U	0.041	U
2,4-Dichlorophenol	2500	0.46		mg/kg	1.9	U	0.041	U	0.041	U
2,4-Dimethylphenol	16000	8.4		mg/kg	1.9	U	0.041	U	0.041	U
2,4-Dinitrophenol	1600	0.88		mg/kg	4.7	U	0.81	U	0.83	U
2,4-Dinitrotoluene	7.4	0.0064		mg/kg	1.9	U	8.9		0.083	U
2,6-Dichlorophenol				mg/kg	1.9	U				
2,6-Dinitrotoluene	1.5	0.00134		mg/kg	1.9	U	1.7		0.041	U
2-Acetylaminofluorene (TIC)	0.6	0.0015		mg/kg	1.9	U				
2-Chloronaphthalene	60000	78		mg/kg	1.9	U	0.041	U	0.041	U
2-Chlorophenol	5800	1.78		mg/kg	1.9	U	0.041	U	0.041	U
2-Methylnaphthalene	3000	3.8		mg/kg	1.9	U	0.041	U	0.041	U
2-Methylphenol	41000	15		mg/kg	1.9	U	0.041	U	0.041	U
2-Naphthylamine	1.3	0.004		mg/kg	1.9	U				
2-Nitroaniline	8000	1.6		mg/kg	4.7	U	0.041	U	0.041	U
2-Nitrophenol				mg/kg	1.9	U	0.041	U	0.041	U
2-Picoline				mg/kg	1.9	U				
3,3'-Dichlorobenzidine	5.1	0.0164		mg/kg	1.9	U	0.081	U	0.083	U
3,3'-Dimethylbenzidine	0.21	0.00086		mg/kg	1.9	U				
3-Methylcholanthrene	0.1	0.044		mg/kg	1.9	U				
3-Nitroaniline				mg/kg	4.7	U	0.081	U	0.083	U
4,6-Dinitro-2-Methylphenol	66	0.052		mg/kg	4.7	U	0.2	U	0.21	U
4-Aminobiphenyl	0.11	0.0003		mg/kg	1.9	U				
4-Bromophenyl Phenyl Ether				mg/kg	1.9	U	0.041	U	0.041	U
4-Chloro-3-Methylphenol	82000	34		mg/kg	1.9	U	0.081	U	0.083	U
4-Chloroaniline	11	0.0032		mg/kg	1.9	U	0.041	U	0.041	U
4-Chlorophenyl Phenyl Ether				mg/kg	1.9	U	0.041	U	0.041	U
4-Methylphenol	16000	6		mg/kg	1.9	U	0.081	U	0.083	U
4-Nitroaniline	110	0.032		mg/kg	4.7	U	0.081	U	0.083	U
4-Nitrophenol				mg/kg	4.7	U	0.2	U	0.21	U
5-Nitro-o-Toluidine	260	0.092		mg/kg	1.9	U				
7,12-Dimethylbenz(A)Anthracene	0.0084	0.00198		mg/kg	1.9	U				
Acenaphthene	45000	110		mg/kg	1.9	U	0.041	U	0.041	U
Acenaphthylene				mg/kg	1.9	U	0.041	U	0.041	U
Acetophenone	120000	11.6		mg/kg	1.9	U	0.081	U	0.083	U
Aniline	400	0.092		mg/kg	4.7	U				
Anthracene	230000	1160		mg/kg	1.9	U	0.041	U	0.041	U
Atrazine	10	0.004	0.038	mg/kg			0.041	U	0.041	U
Azobenzene	26	0.0186		mg/kg	1.9	U				
Benzaldehyde	820	0.082		mg/kg			0.041	U	0.041	U
Benzenamine, N,N-Dimethyl-4-(Pehnylazo)-	0.5	0.00042		mg/kg	1.9	U				
Benzeneethanamine, Alpha, Alpha-Dimethyl-				mg/kg	1.9	U				
Benzidine	0.01	0.000056		mg/kg	4.7	U				
Benzo(A)Anthracene	21	0.22		mg/kg	0.2	J	0.041	U	0.041	U
Benzo(A)Pyrene	2.1	0.58	4.8	mg/kg	0.21	J	0.041	U	0.041	U
Benzo(B)Fluoranthene	21	6		mg/kg	0.22	J	0.041	U	0.041	U
Benzo(G,H,I)perylene				mg/kg	0.14	J	0.041	U	0.041	U
Benzo(K)Fluoranthene	210	58		mg/kg	0.27	J	0.041	U	0.041	U
Benzoic Acid	3300000	300		mg/kg	4.7	U				
Benzyl Alcohol	82000	9.6		mg/kg	1.9	U				
bis-(2-Chloroethoxy)Methane	2500	0.26		mg/kg	1.9	U	0.041	U	0.041	U
bis-(2-Chloroethyl)Ether	1	0.00072		mg/kg	1.9	U	0.041	U	0.041	U
bis(2-Chloroisopropyl)Ether				mg/kg						
bis-(2-Ethylhexyl)Phthalate	160	26	28	mg/kg	1.9	U	0.12	U	0.12	U
Butylbenzyl Phthalate	1200	4.8		mg/kg	1.9	U	0.081	U	0.083	U
Caprolactam	400000	50		mg/kg						
Carbazole				mg/kg	1.9	U	0.041	U	0.041	U
Chlorobenzilate	21	0.02		mg/kg	1.9	U				
Chrysene	2100	180		mg/kg	0.27	J	0.041	U	0.041	U
Diallate	38	0.016		mg/kg	1.9	U				
Dibenzo(a,h)Anthracene	2.1	1.92		mg/kg	1.9	U	0.041	U	0.041	U
Dibenzofuran	1200	3		mg/kg	1.9	U	0.041	U	0.041	U
Diethyl Phthalate	660000	122		mg/kg	1.9	U	0.081	U	0.083	U
Dimethoate	1800	0.198		mg/kg	1.9	U				
Dimethyl Phthalate				mg/kg	1.9	U	0.081	U	0.083	U
Di-n-Butyl Phthalate	82000	46		mg/kg	1.9	U	0.081	U	0.083	U
Di-n-Octyl Phthalate	8200	1140		mg/kg	1.9	U	0.081	U	0.083	U
Dinoseb	820	2.6	1.24	mg/kg	1.9	U				
Disulfoton	33	0.0188		mg/kg	1.9	U				
Ethane, Pentachloro-	36	0.0062		mg/kg	1.9	U				
Ethyl Methacrylate	7600	3		mg/kg	1.9	U				
Ethyl Parathion	4900	8.6		mg/kg	1.9	U				
Famphur				mg/kg	1.9	R				
Fluoranthene	30000	1780		mg/kg	0.33	J	0.041	U	0.041	U
Fluorene	30000	108		mg/kg	1.9	U	0.041	U	0.041	U
Hexachlorobenzene	0.96	0.0024	0.26	mg/kg	1.8	J	0.041	U	0.041	U
Hexachlorobutadiene	5.3	0.0054		mg/kg	1.9	U	0.081	U	0.083	U

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 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location			Units	SM15-TP07-01		SM15-TP09-01		SM15-TP10-01		
	Industrial SSL	Risk-Based SSL	MCL-Based		Sample ID	Sample Date	Sample ID	Sample Date	Sample ID	Sample Date	
	DAF-20	DAF-20	SSL DAF-20	Result	Qual	Result	Qual	Result	Qual		
Hexachlorocyclopentadiene	7.5	0.026	3.2	mg/kg	1.9	R		0.2	U	0.21	U
Hexachloroethane	8	0.004		mg/kg	1.9	U		0.041	U	0.041	U
Hexachloropropene				mg/kg	1.9	U					
Indeno(1,2,3-Cd)Pyrene	21	19.6		mg/kg	0.13	J		0.041	U	0.041	U
Isodrin				mg/kg	1.9	U					
Isophorone	2400	0.52		mg/kg	1.9	U		0.041	U	0.041	U
Isosafrole				mg/kg	1.9	U					
Kepone	0.23	0.0024		mg/kg	4.7	R					
Methanesulfonic Acid, Ethyl Ester				mg/kg	1.9	U					
Methapyrilene				mg/kg	1.9	U					
Methyl Methanesulfonate	23	0.0032		mg/kg	1.9	U					
Methyl Parathion	210	0.148		mg/kg	1.9	U					
Naphthalene	8.6	0.0076		mg/kg	1.9	U		0.041	U	0.041	U
Nitrobenzene	22	0.00184		mg/kg	1.9	U		0.28	J	0.041	U
n-Nitrosodiethylamine	0.015	0.0000122		mg/kg	1.9	U					
n-Nitrosodimethylamine	0.034	0.0000054		mg/kg	1.9	U					
n-Nitrosodi-n-Butylamine	0.46	0.00011		mg/kg	1.9	U					
n-Nitroso-di-n-Propylamine	0.33	0.000162		mg/kg	1.9	U		0.041	U	0.041	U
n-Nitrosodiphenylamine	470	1.34		mg/kg	1.9	U		0.041	U	0.041	U
n-Nitrosomethylethylamine	0.091	0.000004		mg/kg	1.9	U					
n-Nitrosomorpholine	0.34	0.000056		mg/kg	1.9	U					
n-Nitrosopiperidine	0.24	0.000088		mg/kg	1.9	U					
n-Nitrosopyrrolidine	1.1	0.00028		mg/kg	1.9	U					
O,O,O-Triethyl Phosphorothioate				mg/kg	1.9	U					
o-Toluidine	140	0.04		mg/kg	1.9	U					
Pentachlorobenzene	930	0.48		mg/kg	1.9	U					
Pentachloronitrobenzene	13	0.03		mg/kg	1.9	U					
Pentachlorophenol	4	0.00114	0.028	mg/kg	4.7	U		0.2	U	0.21	U
Phenacetin	1000	0.194		mg/kg	1.9	U					
Phenanthrene				mg/kg	0.27	J		0.041	U	0.041	U
Phenol	250000	66		mg/kg	1.9	U		0.041	U	0.041	U
Phorate	160	0.068		mg/kg	1.9	U					
p-Phenylenediamine	820	0.108		mg/kg	1.9	R					
Pronamide	62000	24		mg/kg	1.9	U					
Pyrene	23000	260		mg/kg	0.34	J		0.041	U	0.041	U
Pyridine	1200	0.136		mg/kg	1.9	U					
Quinoline, 4-Nitro-1-Oxide-				mg/kg	1.9	U					
Safrole	10	0.00118		mg/kg	1.9	U					
Thionazine				mg/kg	1.9	U					
Thiopyrophosphoric Acid ((Ho)2P(S)2O), Tetraethyl	410	0.104		mg/kg	1.9	U					
Total Aramite	92	0.3		mg/kg	1.9	U					
Cyanide, Total	150	0.3	40	mg/kg	0.6	U					

Notes:
 Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), Industrial Soil Screening Level (SSL) (November 2021)
 Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20
 Exceeds the EPA RSL, Maximum Contaminant Level (MCL) SSL assuming a DAF of 20
 Blanks indicate RSL not established or constituent not analyzed
 RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0
 U = undetected
 J = estimated value
 J+ = estimated biased high
 J- = estimated biased low
 R = rejected
 MG/KG - milligram per kilogram
 SWMU = Solid Waste Management Unit
 RCRA = Resource Conservation and Recovery Act
 Sample depth shown in Sample ID (e.g., SBBF3-04_6-8 indicates 6 to 8-foot sample)
 DUP = Duplicate sample
 Exceedances shown may exceed one or more criteria if available

Table 5. SWMU 16 Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date			Units	B16-A B16-A112002 11/20/2002		B16-B B16-B112002 11/20/2002		B16-C B16-C112002 11/20/2002		B16-C B16-C112002FD 11/20/2002		B16-D B16-D112002 11/20/2002		B16-E B16-E112002 11/20/2002		B16-F B16-F112002 11/20/2002		B16-G B16-G112002 11/20/2002		B16-H B16-H112002 11/20/2002		B16-I B16-I112002 11/20/2002		SM16-SB01 SM16-SB1-SS_082015 8/20/2015		SM16-SB01 SM16-SB1-(9-10)_072915 7/29/2015		SM16-SB02 SM16-SB2-SS_082015 8/20/2015	
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20		Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
1,2-Dichloropropane	11	0.0056	0.034	59.64	U	14.72	U	0.0056	U	0.00597	U	0.00492	U	0.00466	U	0.00561	U	0.00538	U	0.00467	U	0.00481	U	0.28	U	0.19	U	0.15	U	
1,3-Dichlorobenzene																							0.28	U	0.19	U	0.15	U		
1,4-Dichlorobenzene	11	0.0092	1.44																				0.28	U	0.19	U	0.15	U		
1,4-Dioxane	24	0.00188		2981	R	735.8	R	0.28	R	0.298	R	0.246	R	0.2328	R	0.2803	R	0.2689	R	0.2333	R	0.2407	R	14	U	9.3	U	7.4	U	
2-Butanone	190000	24		119.3	U	29.43	U	0.0112	U	0.0119	U	0.00983	U	0.00931	U	0.01121	U	0.029	U	0.00933	U	0.00963	U	0.55	U	1.4	U	0.3	U	
2-Hexanone	1300	0.176		119.3	U	29.43	U	0.0112	U	0.0119	U	0.00983	U	0.00931	U	0.01121	U	0.01076	U	0.00933	U	0.00963	U	0.55	U	0.37	U	0.3	U	
4-Methyl-2-Pentanone	140000	28		119.3	U	29.43	U	0.0112	U	0.0119	U	0.00983	U	0.00931	U	0.01121	U	0.01076	U	0.00933	U	0.00963	U	0.55	U	0.37	U	0.3	U	
Acetone	1100000	74		119.3	B	33.7	B	0.03	B	0.0323	B	0.039	B	0.0137	B	0.0285	B	0.151	B	0.0301	B	0.0502	B	1.1	U	20	U	0.59	U	
Acetonitrile	3400	0.52		119.3	R	29.43	R	0.112	R	0.119	R	0.0983	R	0.0931	R	0.1121	R	0.1076	R	0.0933	R	0.09627	R							
Acrolein	0.6	0.000168		238.5	R	58.86	R	0.0224	R	0.0239	R	0.0197	R	0.01862	R	0.02243	R	0.02151	R	0.01866	R	0.01925	R							
Acrylonitrile	1.1	0.00022		238.5	U	58.86	U	0.0224	U	0.0239	U	0.0197	U	0.01862	U	0.02243	U	0.02151	U	0.01866	U	0.01925	U							
Allyl Chloride	3.2	0.0046		119.3	U	29.43	U	0.0112	U	0.0119	U	0.00983	U	0.00931	U	0.01121	U	0.01076	U	0.00933	U	0.00963	U							
Benzene	5.1	0.0046	0.052	84.9		14.72	U	0.0056	U	0.00597	U	0.00492	U	0.00466	U	0.0126		0.0098		0.00467	U	0.00481	U	0.28	U	0.87		0.15	U	
Bromochloromethane	630	0.42																					0.28	U	0.19	U	0.15	U		
Bromodichloromethane	1.3	0.00072	0.44	59.64	U	14.72	U	0.0056	U	0.00597	U	0.00492	U	0.00466	U	0.00561	U	0.00538	U	0.00467	U	0.00481	U	0.28	U	0.19	U	0.15	U	
Bromoform	86	0.0174	0.42	59.64	U	14.72	U	0.0056	U	0.00597	U	0.00492	U	0.00466	U	0.00561	U	0.00538	U	0.00467	U	0.00481	U	0.28	U	0.19	U	0.15	U	
Bromomethane	30	0.038		59.64	U	14.72	U	0.0056	U	0.00597	U	0.00492	U	0.00466	U	0.00561	U	0.00538	U	0.00467	U	0.00481	U	0.28	U	0.19	U	0.15	U	
Carbazole																0	U	0	U	0	U	0	0	0	0	0	0	0	0	
Carbon Disulfide	3500	4.8		59.64	U	14.72	U	0.0056	U	0.00597	U	0.00492	U	0.00466	U	0.00561	U	0.00538	U	0.00467	U	0.00481	U	0.28	U	0.19	U	0.15	U	
Carbon Tetrachloride	2.9	0.0036	0.038	59.64	U	14.72	U	0.0056	U	0.00597	U	0.00492	U	0.00466	U	0.00561	U	0.0023	J	0.00467	U	0.00481	U	0.28	U	0.19	U	0.15	U	
Chlorobenzene	1300	1.06	1.36	59.64	U	14.72	U	0.0056	U	0.00597	U	0.00492	U	0.00466	U	0.00561	U	0.00538	U	0.00467	U	0.00481	U	0.28	U	0.19	U	0.15	U	
Chloroethane	23000	48		59.64	U	14.72	U	0.0056	U	0.00597	U	0.00492	U	0.00466	U	0.00561	U	0.00538	U	0.00467	U	0.00481	U	0.28	U	0.19	U	0.15	U	
Chloroform	1.4	0.00122	0.44	59.64	J	14.72	U	0.0208	J	0.0503	J	0.00492	B	0.0017	J	0.0412	J	0.167	J	0.0028	J	0.00481	U	0.28	U	1.5	J	0.15	U	
Chloromethane	460	0.98		59.64	U	14.72	U	0.0056	U	0.00597	U	0.00492	U	0.00466	U	0.00561	U	0.00538	U	0.00467	U	0.00481	U	0.28	U	0.19	U	0.15	U	
Chloroprene	0.044	0.000196		59.64	U	14.72	U	0.0056	U	0.00597	U	0.00492	U	0.00466	U	0.00561	U	0.00538	U	0.00467	U	0.00481	U							
cis-1,2-Dichloroethene	2300	0.22	0.42																				0.28	U	8.8		3.5			
cis-1,3-Dichloropropene				59.64	U	14.72	U	0.0056	U	0.00597	U	0.00492	U	0.00466	U	0.00561	U	0.00538	U	0.00467	U	0.00481	U	0.28	U	0.19	U	0.15	U	
Cyclohexane	27000	260																					0.28	U	0.19	U	0.15	U		
Dibromochloromethane	39	0.0046	0.42	59.64	U	14.72	U	0.0056	U	0.00597	U	0.00492	U	0.00466	U	0.00561	U	0.00538	U	0.00467	U	0.00481	U	0.28	U	0.19	U	0.15	U	
Dibromomethane	99	0.042		59.64	U	14.72	U	0.0056	U	0.00597	U	0.00492	U	0.00466	U	0.00561	U	0.00538	U	0.00467	U	0.00481	U	0.28	U	0.19	U	0.15	U	
Dichlorodifluoromethane	370	6		59.64	R	14.72	R	0.0056	R	0.00597	R	0.00492	R	0.00466	R	0.00561	R	0.00538	R	0.00467	R	0.00481	R	0.28	U	0.19	U	0.15	U	
Diethyl Ether	230000	17.6																												
Ethyl Cyanide				238.5	R	58.86	R	0.0224	R	0.0239	R	0.0197	R	0.01862	R	0.02243	R	0.02151	R	0.01866	R	0.01925	R							
Ethyl Methacrylate	7600	3		119.3	U	29.43	U	0.0112	U	0.0119	U	0.00983	U	0.00931	U	0.01121	U	0.01076	U	0.00933	U	0.00963	U							
Ethylbenzene	25	0.034	15.6	623		106		0.0056	J	0.0213	J	0.00492	U	0.00466	U	0.00561	U	0.00538	U	0.00467	U	0.00481	U	0.51		3.7		0.13	J	
Iodomethane				59.64	U	14.72	U	0.0056	U	0.00597	U	0.00492	J	0.00466	U	0.00561	U	0.00538	U	0.00467	U	0.00481	U							
Isobutanol	350000	24		2981	R	735.8	R	0.28	R	0.298	R	0.246	R	0.2328	R	0.2803	R	0.2689	R	0.2333	R	0.2407	R							
Isopropylbenzene	9900	14.8																					0.28	U	0.19	U	0.15	U		
m&p-Xylenes				3070		408		0.0063	B	0.0148	B	0.00492	B	0.0013	J	0.0052	J	0.0025	J	0.00467	U	0.00481	U	0.72		5.4		0.21		
Methacrylonitrile	100	0.0086		119.3	R	29.43	R	0.112	R	0.119	R	0.0983	R	0.0931	R	0.1121	R	0.1076	R	0.0933	R	0.09627	R							
Methyl Acetate	1200000	82																					0.28	U	0.19	U	0.15	U		
Methyl Methacrylate	19000	6		119.3	U	29.43	U	0.0112	U	0.0119	U	0.00983	U	0.00931	U	0.01121	U	0.01076	U	0.00933	U	0.00963	U							
Methyl Tert-Butyl Ether	210	0.064																					0.28	U	0.19	U	0.15	U		
Methylcyclohexane																							0.28	U	0.19	U	0.15	U		
Methylene Chloride	1000	0.058	0.026	59.64	U	14.72	U	0.0056	B	0.00597	U	0.00492	B	0.0031	B	0.0114	B	0.008	B	0.0019	B	0.0023	B	0.28	U	7.2		0.15	U</	

Table 5. SWMU 16 Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date			Units	B16-A B16-A112002 11/20/2002		B16-B B16-B112002 11/20/2002		B16-C B16-C112002 11/20/2002		B16-C B16-C112002FD 11/20/2002		B16-D B16-D112002 11/20/2002		B16-E B16-E112002 11/20/2002		B16-F B16-F112002 11/20/2002		B16-G B16-G112002 11/20/2002		B16-H B16-H112002 11/20/2002		B16-I B16-I112002 11/20/2002		SM16-SB01 SM16-SB1-SS_082015 8/20/2015		SM16-SB01 SM16-SB1-(9-10)_072915 7/29/2015		SM16-SB02 SM16-SB2-SS_082015 8/20/2015	
	Industrial SSI	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20		Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
2-Chloronaphthalene	60000	78		mg/kg	0.45	UJ	0.43	UJ	0.36	UJ	0.43	UJ	0.37	UJ	0.37	UJ	0.39	UJ	0.4	UJ	0.37	UJ	0.39	UJ	0.038	U	0.038	U	0.037	U
2-Chlorophenol	5800	1.78		mg/kg	0.45	UJ	0.43	UJ	0.36	UJ	0.43	UJ	0.37	R	0.39	UJ	0.39	UJ	0.4	UJ	0.37	UJ	0.39	UJ	0.039	U	0.038	U	0.037	U
2-Methylnaphthalene	3000	3.8		mg/kg	0.55	J	0.43	UJ	0.36	UJ	0.43	UJ	0.37	UJ	0.37	UJ	0.39	UJ	0.27	J	0.37	UJ	0.39	UJ	0.02	U	0.019	U	0.037	U
2-Methylphenol	41000	15		mg/kg	0.45	UJ	0.41	J	0.36	UJ	0.43	UJ	0.37	R	0.39	UJ	0.39	UJ	0.4	UJ	0.37	UJ	0.39	UJ	0.039	U	0.038	U	0.037	U
2-Naphthylamine	1.3	0.004		mg/kg	0.45	UJ	0.43	UJ	0.36	UJ	0.43	UJ	0.37	UJ	0.39	UJ	0.39	UJ	0.4	UJ	0.37	UJ	0.39	UJ						
2-Nitroaniline	8000	1.6		mg/kg	0.9	UJ	0.85	UJ	0.83	UJ	0.86	UJ	0.83	UJ	0.83	UJ	0.83	UJ	0.83	UJ	0.83	UJ	0.83	UJ	0.039	U	0.038	U	0.037	U
2-Nitrophenol				mg/kg	0.45	UJ	0.43	UJ	0.36	UJ	0.43	UJ	0.37	UJ	0.39	UJ	0.39	UJ	0.4	UJ	0.37	UJ	0.39	UJ	0.039	U	0.038	U	0.037	U
2-Picoline				mg/kg	0.45	UJ	0.43	UJ	0.36	UJ	0.43	UJ	0.37	UJ	0.39	UJ	0.39	UJ	0.4	UJ	0.37	UJ	0.39	UJ						
3&4-Methylphenol				mg/kg	0.45	UJ	0.43	UJ	0.36	UJ	0.43	UJ	0.37	UJ	0.39	UJ	0.39	UJ	0.4	UJ	0.37	UJ	0.39	UJ						
3,3'-Dichlorobenzidine	5.1	0.0164		mg/kg	0.45	UJ	0.43	UJ	0.36	UJ	0.43	UJ	0.37	UJ	0.37	UJ	0.39	UJ	0.4	UJ	0.37	UJ	0.39	UJ	0.39	U	0.38	U	0.37	U
3,3'-Dimethylbenzidine	0.21	0.00086		mg/kg	0.45	UJ	0.43	UJ	0.36	UJ	0.43	UJ	0.37	UJ	0.37	UJ	0.39	UJ	0.4	UJ	0.37	UJ	0.39	UJ						
3-Methylcholanthrene	0.1	0.044		mg/kg	0.45	UJ	0.43	UJ	0.36	UJ	0.43	UJ	0.37	UJ	0.37	UJ	0.39	UJ	0.4	UJ	0.37	UJ	0.39	UJ						
3-Nitroaniline				mg/kg	0.9	UJ	0.85	UJ	0.83	UJ	0.86	UJ	0.83	UJ	0.83	UJ	0.83	UJ	0.83	UJ	0.83	UJ	0.83	UJ	0.19	U	0.19	U	0.19	U
4,6-Dinitro-2-Methylphenol	66	0.052		mg/kg	0.9	UJ	0.85	UJ	0.83	UJ	0.86	UJ	0.83	UJ	0.83	UJ	0.83	UJ	0.83	UJ	0.83	UJ	0.83	UJ	0.19	U	0.19	U	0.19	U
4-Aminobiphenyl	0.11	0.0003		mg/kg	0.45	UJ	0.43	UJ	0.36	UJ	0.43	UJ	0.37	UJ	0.39	UJ	0.39	UJ	0.4	UJ	0.37	UJ	0.39	UJ						
4-Bromophenyl Phenyl Ether				mg/kg	0.45	UJ	0.43	UJ	0.36	UJ	0.43	UJ	0.37	UJ	0.39	UJ	0.39	UJ	0.4	UJ	0.37	UJ	0.39	UJ	0.039	U	0.038	U	0.037	U
4-Chloro-3-Methylphenol	82000	34		mg/kg	0.45	UJ	0.43	UJ	0.36	UJ	0.43	UJ	0.37	UJ	0.37	UJ	0.39	UJ	0.4	UJ	0.37	UJ	0.39	UJ	0.039	U	0.038	U	0.037	U
4-Chloroaniline	11	0.0032		mg/kg	0.45	UJ	0.43	UJ	0.36	UJ	0.43	UJ	0.37	UJ	0.39	UJ	0.39	UJ	0.4	UJ	0.37	UJ	0.39	UJ	0.077	U	0.076	U	0.074	U
4-Chlorophenyl Phenyl Ether				mg/kg	0.45	UJ	0.43	UJ	0.36	UJ	0.43	UJ	0.37	UJ	0.37	UJ	0.39	UJ	0.4	UJ	0.37	UJ	0.39	UJ	0.039	U	0.038	U	0.037	U
4-Methylphenol	16000	6		mg/kg																				0.039	U	0.038	U	0.037	U	
4-Nitroaniline	110	0.032		mg/kg	0.9	UJ	0.85	UJ	0.83	UJ	0.86	UJ	0.83	UJ	0.83	UJ	0.83	UJ	0.83	UJ	0.83	UJ	0.83	UJ	0.19	U	0.19	U	0.19	U
4-Nitrophenol				mg/kg	0.9	UJ	0.85	UJ	0.83	UJ	0.86	UJ	0.83	UJ	0.83	UJ	0.83	UJ	0.83	UJ	0.83	UJ	0.83	UJ	0.58	U	0.57	U	0.56	U
5-Nitro-o-Toluidine	260	0.092		mg/kg	0.45	UJ	0.43	UJ	0.36	UJ	0.43	UJ	0.37	UJ	0.39	UJ	0.39	UJ	0.4	UJ	0.37	UJ	0.39	UJ						
7,12-Dimethylbenz(A)Anthracene	0.0084	0.00198		mg/kg	0.45	UJ	0.43	UJ	0.36	UJ	0.43	UJ	0.37	UJ	0.37	UJ	0.39	UJ	0.4	UJ	0.37	UJ	0.39	UJ						
Acenaphthene	45000	110		mg/kg	0.3	J	0.43	UJ	0.36	UJ	0.43	UJ	0.37	UJ	0.39	UJ	0.39	UJ	0.4	UJ	0.37	UJ	0.39	UJ	0.007	J	0.019	U	0.044	
Acenaphthylene				mg/kg	0.45	UJ	0.43	UJ	0.36	UJ	0.43	UJ	0.37	UJ	0.39	UJ	0.39	UJ	0.4	UJ	0.37	UJ	0.39	UJ	0.008	J	0.019	U	0.028	
Acetophenone	120000	11.6		mg/kg	0.45	UJ	0.43	UJ	0.36	UJ	0.43	UJ	0.37	UJ	0.39	UJ	0.39	UJ	0.4	UJ	0.37	UJ	0.39	UJ	0.039	U	0.034	J	0.055	
Aniline	400	0.092		mg/kg	0.45	UJ	0.43	UJ	0.36	UJ	0.43	UJ	0.37	UJ	0.36	J	1.9	J	0.4	UJ	0.37	UJ	0.39	UJ						
Anthracene	230000	1160		mg/kg	0.45	UJ	0.43	UJ	0.36	UJ	0.43	UJ	0.37	UJ	0.37	UJ	0.39	UJ	0.4	UJ	0.37	UJ	0.39	UJ	0.01	J	0.019	U	0.082	
Atrazine	10	0.004	0.038	mg/kg																				0.19	U	0.19	U	0.19	U	
Benzaldehyde	820	0.082		mg/kg																				0.19	U	0.19	U	0.19	U	
Benzenamine, N,N-Dimethyl-4-(Pehnylazo)-	0.5	0.00042		mg/kg	0.45	UJ	0.43	UJ	0.36	UJ	0.43	UJ	0.37	UJ	0.37	UJ	0.39	UJ	0.4	UJ	0.37	UJ	0.39	UJ						
Benzenethanamine, Alpha, Alpha-Dimethyl-				mg/kg	0.45	UJ	0.43	UJ	0.36	UJ	0.43	UJ	0.37	UJ	0.37	UJ	0.39	UJ	0.4	UJ	0.37	UJ	0.39	UJ						
Benzo(A)Anthracene	21	0.22		mg/kg	0.45	UJ	0.43	UJ	0.24	J	0.24	J	0.18	J	0.21	J	0.5	J	0.4	UJ	0.31	J	1.4	J	0.015	J	0.019	U	0.21	
Benzo(A)Pyrene	2.1	0.58	4.8	mg/kg	0.53	J	0.43	UJ	0.25	J	0.43	UJ	0.21	J	0.86	J	0.5	J	0.21	J	0.36	J	1.6	J	0.012	J	0.019	U	0.22	
Benzo(B)Fluoranthene	21	6		mg/kg	0.84	J	0.43	UJ	0.37	J	0.36	J	0.28	J	0.33	J	1.6	J	0.28	J	0.41	J	1.8	J	0.027	J	0.019	U	0.32	
Benzo(G,H,Dperylene				mg/kg	0.29	J	0.43	UJ	0.31	J	0.25	J	0.24	J	0.31	J	0.73	J	0.4	UJ	0.28	J	1.2	J	0.024	J	0.019	U	0.18	
Benzo(K)Fluoranthene	210	58		mg/kg	0.45	UJ	0.43	UJ	0.31	J	0.3	J	0.21	J	0.29	J	0.62	J	0.4	UJ	0.38	J	1.6	J	0.012	J	0.019	U	0.16	
Benzoic Acid	3300000	300		mg/kg	1.1	UJ	1.1	UJ	0.92	UJ	1.1	UJ	0.92	UJ	0.92	UJ	0.97	UJ	1	UJ	0.92	UJ	0.97	UJ						
Benzyl Alcohol	82000	9.6		mg/kg	0.45	UJ	0.43	UJ	0.36	UJ	0.43	UJ	0.37	UJ	0.37	UJ	0.39	UJ	0.4	UJ	0.37	UJ	0.39	UJ						
bis-(2-Chloroethoxy)Methane	2500	0.26		mg/kg	0.45	UJ	0.43	UJ	0.36	UJ	0.43	UJ	0.37	UJ	0.37	UJ	0.39	UJ	0.4	UJ	0.37	UJ	0.39	UJ	0.039	U	0.038	U	0.037	U
bis-(2-Chloroethyl)Ether	1	0.00072		mg/kg	0.45	UJ	0.43	UJ	0.36	UJ	0.43	UJ	0.37	UJ	0.37	UJ	0.39	UJ	0.4	UJ	0.37	UJ	0.39	UJ	0.039	U	0.038	U	0.037	U
bis(2-Chloroisopropyl)Ether				mg/kg																				0.039	U	0.038	U	0.037	U	
bis-(2-Ethylhexyl)Phthalate	160	26	28	mg/kg	0.45	UJ	0.31	J	0.5	J	0.44	J	0.3	J	0.37	UJ	0.39	UJ	0.4	UJ	0.39	J	0.69	J	0.19	J	0.19	U	0.68	
Butylbenzyl Phthalate	1200	4.8		mg/kg	0.45	UJ	0.43	UJ	0.36	UJ	0.43	UJ	0.37	UJ	0.37	UJ	0.39	UJ	0.4	UJ	0.37	UJ	0.39	UJ	0.19	U	0.19	U	0.19	U
Caprolactam	400000	50		mg/kg																				0.19	U	0.19	U	0.19	U	
Carbazole				mg/kg	0.45	UJ	0.42	UJ	0.36	UJ	0.43	UJ	0.37	UJ	0.37	UJ	0.39	UJ	0.4	UJ	0.37	UJ	0.39	UJ	0.039	U	0.038	U	0.036	J
Chlorobenzilate	21	0.02		mg/kg	0.45	UJ	0.43	UJ	0.36	UJ	0.43	UJ	0.37	UJ	0.37	UJ	0.39	UJ	0.4	UJ	0.37	UJ	0.39	UJ						
Chrysene	2100	180		mg/kg	0.95	J	0.43	UJ	0.34	J	0.34	J	0.22	J	0.23	J	1.5	J	0.28	J	0.37	J	1.5	J	0.023	J	0.019	U	0.24	
Diallate	38	0.016		mg/kg	0.45	UJ	0.43	UJ	0.36	UJ	0.43	UJ	0.37	UJ	0.37															

Table 5. SWMU 16 Soil Analytical Results
RCRA Facility Investigation Report
Honeywell Delaware Valley Works
Claymont, Delaware
Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date			Units	B16-A B16-A112002 11/20/2002		B16-B B16-B112002 11/20/2002		B16-C B16-C112002 11/20/2002		B16-C B16-C112002FD 11/20/2002		B16-D B16-D112002 11/20/2002		B16-E B16-E112002 11/20/2002		B16-F B16-F112002 11/20/2002		B16-G B16-G112002 11/20/2002		B16-H B16-H112002 11/20/2002		B16-I B16-I112002 11/20/2002		SM16-SB01 SM16-SB1-SS_082015 8/20/2015		SM16-SB01 SM16-SB1-(9-10)_072915 7/29/2015		SM16-SB02 SM16-SB2-SS_082015 8/20/2015			
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20		Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Methyl Parathion	210	0.148		mg/kg	0.45	UJ	0.43	UJ	0.36	UJ	0.43	UJ	0.37	UJ	0.37	UJ	0.39	UJ	0.4	UJ	0.37	UJ	0.39	UJ								
Naphthalene	8.6	0.0076		mg/kg	0.91	J	0.43	UJ	0.36	UJ	0.43	UJ	0.37	UJ	0.37	UJ	0.39	UJ	0.23	J	0.37	UJ	0.39	UJ	0.005	J	0.019	U			0.096	
Nitrobenzene	22	0.00184		mg/kg	0.45	UJ	0.43	UJ	0.36	UJ	0.43	UJ	0.37	UJ	0.37	UJ	0.39	UJ	0.4	UJ	0.37	UJ	0.39	UJ	0.039	U	0.038	U			0.037	U
n-Nitrosodiethylamine	0.015	0.00000122		mg/kg	0.45	UJ	0.43	UJ	0.36	UJ	0.43	UJ	0.37	UJ	0.37	UJ	0.39	UJ	0.4	UJ	0.37	UJ	0.39	UJ								
n-Nitrosodimethylamine	0.034	0.00000054		mg/kg	0.45	UJ	0.43	UJ	0.36	UJ	0.43	UJ	0.37	UJ	0.37	UJ	0.39	UJ	0.4	UJ	0.37	UJ	0.39	UJ								
n-Nitrosodi-n-Butylamine	0.46	0.00011		mg/kg	0.45	UJ	0.43	UJ	0.36	UJ	0.43	UJ	0.37	UJ	0.37	UJ	0.39	UJ	0.4	UJ	0.37	UJ	0.39	UJ								
n-Nitroso-di-n-Propylamine	0.33	0.000162		mg/kg	0.45	UJ	0.43	UJ	0.36	UJ	0.43	UJ	0.37	UJ	0.37	UJ	0.39	UJ	0.4	UJ	0.37	UJ	0.39	UJ	0.039	U	0.038	U			0.037	U
n-Nitrosodiphenylamine	470	1.34		mg/kg	0.45	UJ	0.43	UJ	0.36	UJ	0.43	UJ	0.37	UJ	0.37	UJ	0.39	UJ	0.4	UJ	0.37	UJ	0.39	UJ	0.039	U	0.038	U			0.037	U
n-Nitrosomethylethylamine	0.091	0.000004		mg/kg	0.45	UJ	0.43	UJ	0.36	UJ	0.43	UJ	0.37	UJ	0.37	UJ	0.39	UJ	0.4	UJ	0.37	UJ	0.39	UJ								
n-Nitrosomorpholine	0.34	0.000056		mg/kg	0.45	UJ	0.43	UJ	0.36	UJ	0.43	UJ	0.37	UJ	0.37	UJ	0.39	UJ	0.4	UJ	0.37	UJ	0.39	UJ								
n-Nitrosopiperidine	0.24	0.000088		mg/kg	0.45	UJ	0.43	UJ	0.36	UJ	0.43	UJ	0.37	UJ	0.37	UJ	0.39	UJ	0.4	UJ	0.37	UJ	0.39	UJ								
n-Nitrosopyrrolidine	1.1	0.00028		mg/kg	0.45	UJ	0.43	UJ	0.36	UJ	0.43	UJ	0.37	UJ	0.37	UJ	0.39	UJ	0.4	UJ	0.37	UJ	0.39	UJ								
O,O,O-Triethyl Phosphorothioate				mg/kg	0.45	UJ	0.43	UJ	0.36	UJ	0.43	UJ	0.37	UJ	0.37	UJ	0.39	UJ	0.4	UJ	0.37	UJ	0.39	UJ								
o-Toluidine	140	0.04		mg/kg	0.45	UJ	0.43	UJ	0.36	UJ	0.43	UJ	0.37	UJ	0.37	UJ	0.39	UJ	0.4	UJ	0.37	UJ	0.39	UJ								
Pentachlorobenzene	930	0.48		mg/kg	0.45	UJ	0.43	UJ	0.36	UJ	0.43	UJ	0.37	UJ	0.37	UJ	0.39	UJ	0.4	UJ	0.37	UJ	0.39	UJ								
Pentachloronitrobenzene	13	0.03		mg/kg	1.1	UJ	1.1	UJ	0.91	UJ	1.1	UJ	0.92	UJ	0.92	UJ	0.97	UJ	1	UJ	0.92	UJ	0.97	UJ								
Pentachlorophenol	4	0.00114	0.028	mg/kg	0.9	UJ	0.85	UJ	0.83	UJ	0.86	UJ	0.83	UJ	0.83	UJ	0.83	UJ	0.83	UJ	0.83	UJ	0.83	UJ	0.2	U	0.19	U			0.19	U
Phenacetin	1000	0.194		mg/kg	0.45	UJ	0.43	UJ	0.36	UJ	0.43	UJ	0.37	UJ	0.37	UJ	0.39	UJ	0.4	UJ	0.37	UJ	0.39	UJ								
Phenanthrene				mg/kg	2.8	J	0.43	UJ	0.4	J	0.5	J	0.37	UJ	0.37	UJ	1.9	J	1.1	J	0.26	J	1.3	J	0.046		0.019	U			0.29	
Phenol	250000	66		mg/kg	0.45	UJ	0.43	UJ	0.36	UJ	0.43	UJ	0.37	UJ	0.37	UJ	0.39	UJ	0.4	UJ	0.37	UJ	0.39	UJ	0.039	U	0.038	U			0.037	U
Phorate	160	0.068		mg/kg	0.45	UJ	0.43	UJ	0.36	UJ	0.43	UJ	0.37	UJ	0.37	UJ	0.39	UJ	0.4	UJ	0.37	UJ	0.39	UJ								
p-Phenylenediamine	820	0.108		mg/kg	0.45	UJ	0.43	UJ	0.36	UJ	0.43	UJ	0.37	UJ	0.37	UJ	0.39	UJ	0.4	UJ	0.37	UJ	0.39	UJ								
Pronamide	62000	24		mg/kg	0.45	UJ	0.43	UJ	0.36	UJ	0.43	UJ	0.37	UJ	0.37	UJ	0.39	UJ	0.4	UJ	0.37	UJ	0.39	UJ								
Pyrene	23000	260		mg/kg	0.42	J	0.43	UJ	0.4	J	0.46	J	0.19	J	0.23	J	0.84	J	0.31	J	0.41	J	1.8	J	0.036		0.019	U			0.36	
Pyridine	1200	0.136		mg/kg	0.45	UJ	0.43	UJ	0.36	UJ	0.43	UJ	0.37	UJ	0.37	UJ	0.39	UJ	0.4	UJ	0.37	UJ	0.39	UJ								
Quinoline, 4-Nitro-1-Oxide-				mg/kg	0.45	R	0.43	R	0.36	R	0.43	R	0.37	R	0.37	R	0.39	R	0.4	R	0.37	R	0.39	R								
Safrole	10	0.00118		mg/kg	0.45	UJ	0.43	UJ	0.36	UJ	0.43	UJ	0.37	UJ	0.37	UJ	0.39	UJ	0.4	UJ	0.37	UJ	0.39	UJ								
Thionazine				mg/kg	0.45	UJ	0.43	UJ	0.36	UJ	0.43	UJ	0.37	UJ	0.37	UJ	0.39	UJ	0.4	UJ	0.37	UJ	0.39	UJ								
Thiopyrophosphoric Acid ((Ho)2P(S)2O), Tetraethyl	410	0.104		mg/kg	0.45	UJ	0.43	UJ	0.36	UJ	0.43	UJ	0.37	UJ	0.37	UJ	0.39	UJ	0.4	UJ	0.37	UJ	0.39	UJ								
Total Aramite	92	0.3		mg/kg	0.45	UJ	0.43	UJ	0.36	UJ	0.43	UJ	0.37	UJ	0.37	UJ	0.39	UJ	0.4	UJ	0.37	UJ	0.39	UJ								
Cyanide, Total	150	0.3	40	mg/kg	7.4		1.3	U	1.1	U	1.3	U	1.1	U	1.1	U	1.2	U	1.5		1.1	U										
pH				S.U.	7.3		6.01		7.5		7.64		8.22		7.9	J	7.88	J	7.33	J	8.07	J										

Notes:
Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), Industrial Soil Screening Level (SSL) (November 2021)
Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20
Exceeds the EPA RSL, Maximum Contaminant Level (MCL) SSL assuming a DAF of 20
Blanks indicate RSL not established or constituent not analyzed
RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0
U = undetected
J = estimated value
J+ = estimated biased high
J- = estimated biased low
R = rejected
MG/KG - milligram per kilogram
SWMU = Solid Waste Management Unit
RCRA = Resource Conservation and Recovery Act
Sample depth shown in Sample ID (e.g., SBBF3-04_6-8 indicates 6 to 8-foot sample)
DUP = Duplicate sample
Exceedances shown may exceed one or more criteria if available

Table 5. SWMU 16 Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location			Units	SM16-SB02		SM16-SB03		SM16-SB03		SM16-SB03		SM16-SB04		SM16-SB04		SM16-SB5		SM16-SB5		SM16-SB5A		SM16-SB5A		SM16-SB5B		SM16-SB5C		SM16-SB5D	
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20		Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
1,2-Dichloropropane	11	0.0056	0.034	mg/kg	0.2	U	1.1	U	0.2	U	0.28	U	0.26	U	0.19	U	2.6	U			0.34	U	0.32	U	13	U	0.27	U	0.28	U
1,3-Dichlorobenzene				mg/kg	0.2	U	1.1	U	0.2	U	0.28	U	0.26	U	0.19	U	2.6	U			0.34	U	0.32	U	13	U	0.27	U	0.28	U
1,4-Dichlorobenzene	11	0.0092	1.44	mg/kg	0.2	U	0.84	J	0.2	U	0.28	U	0.056	J	0.19	U	0.62	J			0.34	U	0.32	U	13	U	0.27	U	0.28	U
1,4-Dioxane	24	0.00188		mg/kg	10	U	56	U	10	U	14	U	13	U	9.6	U	130	U			17	U	16	U	670	U	14	U	14	U
2-Butanone	190000	24		mg/kg	0.69		2.2	U	0.41	U	0.56	U	0.51	U	0.45		5.3	U			0.68	U	0.63	U	27	U	0.55	U	0.55	U
2-Hexanone	1300	0.176		mg/kg	0.41	U	2.2	U	0.41	U	0.56	U	0.51	U	0.38	U	5.3	U			0.68	U	0.63	U	27	U	0.55	U	0.55	U
4-Methyl-2-Pentanone	140000	28		mg/kg	0.41	U	2.2	U	0.41	U	0.56	U	0.51	U	0.38	U	5.3	U			0.68	U	0.63	U	27	U	0.55	U	0.55	U
Acetone	1100000	74		mg/kg	12		4.5	U	0.82	U	1.1	U	1	U	8.9		11	U			1.4	U	1.3	U	53	U	0.69	J	1.1	U
Acetonitrile	3400	0.52		mg/kg																										
Acrolein	0.6	0.000168		mg/kg																										
Acrylonitrile	1.1	0.00022		mg/kg																										
Allyl Chloride	3.2	0.0046		mg/kg																										
Benzene	5.1	0.0046	0.052	mg/kg	2.5		1.1	J	0.47		0.48		0.64		9.6		7.5				5.3		7.6		890		0.27	U	0.22	J
Bromochloromethane	630	0.42		mg/kg	0.2	U	1.1	U	0.2	U	0.28	U	0.26	U	0.19	U	2.6	U			0.34	U	0.32	U	13	U	0.27	U	0.28	U
Bromodichloromethane	1.3	0.0072	0.44	mg/kg	0.2	U	1.1	U	0.2	U	0.28	U	0.26	U	0.19	U	2.6	U			0.34	U	0.32	U	13	U	0.27	U	0.28	U
Bromoform	86	0.0174	0.42	mg/kg	0.2	U	1.1	U	0.2	U	0.28	U	0.26	U	0.19	U	5.3	U			0.68	U	0.63	U	27	U	0.55	U	0.55	U
Bromomethane	30	0.038		mg/kg	0.2	U	1.1	U	0.2	U	0.28	U	0.26	U	0.19	U	2.6	U			0.34	U	0.32	U	13	U	0.27	U	0.28	U
Carbazole				mg/kg																										
Carbon Disulfide	3500	4.8		mg/kg	0.2	U	0.61	J	0.2	U	0.28	U	0.26	U	0.19	U	2.6	U			0.34	U	0.32	U	2.8	J+	0.27	U	0.28	U
Carbon Tetrachloride	2.9	0.0036	0.038	mg/kg	0.2	U	1.1	U	0.2	U	0.28	U	0.26	U	0.19	U	2.6	U			0.34	U	0.32	U	13	U	0.27	U	0.28	U
Chlorobenzene	1300	1.06	1.36	mg/kg	0.2	U	1.1	U	0.2	U	0.28	U	0.26	U	0.19	U	2.6	U			0.34	U	0.089	J	6.8	J	0.27	U	0.28	U
Chloroethane	23000	48		mg/kg	0.2	U	1.1	U	0.2	U	0.28	U	0.26	U	0.19	U	2.6	U			0.34	U	0.32	U	13	U	0.27	U	0.28	U
Chloroform	1.4	0.00122	0.44	mg/kg	5.1		1.6		0.46		0.38		0.84		21		2.6	U			0.34	U	3.2		450		0.034	J	0.28	U
Chloromethane	460	0.98		mg/kg	0.2	U	1.1	U	0.2	U	0.28	U	0.26	U	0.19	U	2.6	U			0.34	U	0.32	U	13	U	0.27	U	0.28	U
Chloroprene	0.044	0.000196		mg/kg																										
cis-1,2-Dichloroethene	2300		0.42	mg/kg	14		120		14		15		3.8		4.2		46				5.6		26		200		2.1		0.28	U
cis-1,3-Dichloropropene				mg/kg	0.2	U	1.1	U	0.2	U	0.28	U	0.26	U	0.19	U	2.6	U			0.34	U	0.32	U	13	U	0.27	U	0.28	U
Cyclohexane	27000	260		mg/kg	0.2	U	1.1	U	0.2	U	0.28	U	2.6		0.1	J	2.1	J			0.34	U	0.32	U	280		0.033	J+	0.28	U
Dibromochloromethane	39	0.0046	0.42	mg/kg	0.2	U	1.1	U	0.2	U	0.28	U	0.26	U	0.19	U	2.6	U			0.34	U	0.32	U	13	U	0.27	U	0.28	U
Dibromomethane	99	0.042		mg/kg																										
Dichlorodifluoromethane	370	6		mg/kg	0.2	U	1.1	U	0.2	U	0.28	U	0.26	U	0.19	U	2.6	U			0.34	U	0.32	U	13	U	0.27	U	0.28	U
Diethyl Ether	230000	17.6		mg/kg													2.6	U			0.34	U	0.069	J	13	U	0.27	U	0.28	U
Ethyl Cyanide				mg/kg																										
Ethyl Methacrylate	7600	3		mg/kg																										
Ethylbenzene	25	0.034	15.6	mg/kg	1.1		78		2.3		2.5		14		1.7		220				5.4		0.036	J	1600		13		0.073	J
Iodomethane				mg/kg																										
Isobutanol	350000	24		mg/kg																										
Isopropylbenzene	9900	14.8		mg/kg	0.2	U	1.1	U	0.2	U	0.28	U	0.54		0.19	U	2.6	U			0.046	J	0.32	U	5.6	J	0.27	U	0.28	U
m&p-Xylenes				mg/kg	2.9		280		8.6		9.7		8.1		6		870				29		0.2	J	6200		27		0.28	U
Methacrylonitrile	100	0.0086		mg/kg																										
Methyl Acetate	1200000	82		mg/kg	0.2	U	1.1	U	0.2	U	0.28	U	0.26	U	0.19	U	2.6	U			0.34	U	0.32	U	13	U	0.27	U	0.28	U
Methyl Methacrylate	19000	6		mg/kg																										
Methyl Tert-Butyl Ether	210	0.064		mg/kg	0.2	U	1.1	U	0.2	U	0.28	U	0.26	U	0.19	U	2.6	U			0.34	U	0.32	U	13	U	0.27	U	0.28	U
Methylcyclohexane				mg/kg	0.2	U	1.1	U	0.2	U	0.28	U	1		0.19	U	0.75	J			0.34	U	0.32	U	9.9	J	0.27	U	0.28	U
Methylene Chloride	1000	0.058	0.026	mg/kg	0.89		1.1	U	0.2	U	0.28	U	0.26	U	0.37		2.6	U			0.34	U	0.32	U	13	U	0.27	U	0.28	U
o-Xylene	2800	3.8		mg/kg	0.63		69		2.1		2.3		3.9		1.1		96				9		0.063	J	1000		4.5		0.28	U
Styrene	35000	26	2.2	mg/kg	0.2	U	1.1	U	0.2	U	0.28	U	0.26	U	0.19	U	2.6	U			0.34	U	0.32	U	13	U	0.27	U	0.28	U
Tetrachloroethene	100	0.102	0.046	mg/kg	2.5		0.87	J	0.72		0.85		0.16	J	0.56		2	J			0.34	U	0.32	U	7.7	J	38		0.28	U
Toluene	47000	15.2	13.8	mg/kg	2.1		36		2.8		3.2		0.29		7.4		95				8.8		2		3300		0.34	U	0.28	U
Total Xylenes	2500	3.8	198	mg/kg	3.5		350		11		12		12		7.1		970				38		0.26	J	7200		32		0.55	U
trans-1,2-Dichloroethene	300	0.42	0.62	mg/kg	0.2	U	0.51	J	0.2	U	0.28	U																		

Table 5. SWMU 16 Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location			SM16-SB02		SM16-SB03		SM16-SB03		SM16-SB03		SM16-SB04		SM16-SB04		SM16-SB5		SM16-SB5		SM16-SB5A		SM16-SB5A		SM16-SB5B		SM16-SB5C		SM16-SB5D	
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
2-Chloronaphthalene	60000	78		0.038	U	0.04	U	0.038	U	0.04	U	0.04	U	0.039	U	0.042	U			0.041	U	0.042	U	0.22	U	0.039	U	0.04	U
2-Chlorophenol	5800	1.78		0.039	U	0.041	U	0.039	U	0.04	U	0.04	U	0.046	U	0.045	U			0.045	U	0.046	U	0.24	U	0.042	U	0.043	U
2-Methylnaphthalene	3000	3.8		0.02	U	0.092	U	0.02	U	0.02	U	0.21	U	0.02	U	0.078	U			0.025	U	0.027	U	5.9	U	0.019	U	0.02	U
2-Methylphenol	41000	15		0.039	U	0.075	U	0.039	U	0.04	U	0.04	U	0.035	J	0.11	U			0.054	J	0.027	J	0.33	U	0.058	U	0.059	U
2-Naphthylamine	1.3	0.004																											
2-Nitroaniline	8000	1.6		0.039	U	0.041	U	0.039	U	0.04	U	0.04	U	0.04	U	0.063	U			0.062	U	0.063	U	0.33	U	0.058	U	0.059	U
2-Nitrophenol				0.039	U	0.041	U	0.039	U	0.04	U	0.04	U	0.04	U	0.063	U			0.062	U	0.063	U	0.33	U	0.058	U	0.059	U
2-Picoline																													
3,4-Methylphenol																													
3,3'-Dichlorobenzidine	5.1	0.0164		0.39	U	0.41	U	0.39	U	0.4	U	0.4	U	0.4	U	0.21	U			0.21	U	0.21	U	1.1	U	0.19	U	0.2	U
3,3'-Dimethylbenzidine	0.21	0.00086																											
3-Methylcholanthrene	0.1	0.044																											
3-Nitroaniline				0.19	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U	0.21	U			0.21	U	0.21	U	1.1	U	0.19	U	0.2	U
4,6-Dinitro-2-Methylphenol	66	0.052		0.58	U	0.61	U	0.58	U	0.6	U	0.6	U	0.59	U	0.63	U			0.62	U	0.63	U	3.3	U	0.58	U	0.59	U
4-Aminobiphenyl	0.11	0.0003																											
4-Bromophenyl Phenyl Ether				0.039	U	0.041	U	0.039	U	0.04	U	0.04	U	0.04	U	0.046	U			0.045	U	0.046	U	0.24	U	0.042	U	0.043	U
4-Chloro-3-Methylphenol	82000	34		0.039	U	0.041	U	0.039	U	0.04	U	0.04	U	0.04	U	0.063	U			0.062	U	0.063	U	0.33	U	0.058	U	0.059	U
4-Chloroaniline	11	0.0032		0.077	U	0.081	U	0.078	U	0.08	U	0.08	U	0.079	U	0.21	U			0.21	U	0.21	U	1.1	U	0.19	U	0.2	U
4-Chlorophenyl Phenyl Ether				0.039	U	0.041	U	0.039	U	0.04	U	0.04	U	0.04	U	0.046	U			0.045	U	0.046	U	0.24	U	0.042	U	0.043	U
4-Methylphenol	16000	6		0.039	U	0.079	U	0.039	U	0.023	J	0.04	U	0.041	U	0.17	U			0.05	J	0.027	J	0.33	U	0.058	U	0.059	U
4-Nitroaniline	110	0.032		0.19	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U	0.21	U			0.21	U	0.21	U	1.1	U	0.19	U	0.2	U
4-Nitrophenol				0.58	U	0.61	U	0.58	U	0.6	U	0.6	U	0.59	U	0.63	U			0.62	U	0.63	U	3.3	U	0.58	U	0.59	U
5-Nitro-o-Toluidine	260	0.092																											
7,12-Dimethylbenz(A)Anthracene	0.0084	0.00198																											
Acenaphthene	45000	110		0.02	U	0.056	U	0.02	U	0.02	U	0.006	J	0.02	U	0.021	U			0.18	U	0.034	U	0.11	U	0.019	U	0.02	U
Acenaphthylene				0.02	U	0.13	U	0.02	U	0.02	U	0.016	J	0.02	U	0.013	J			0.012	J	0.021	U	0.11	U	0.019	U	0.02	U
Acetophenone	120000	11.6		0.039	U	0.13	U	0.039	U	0.04	U	0.29	U	0.04	U	0.21	U			0.031	J	0.063	U	0.74	U	0.058	U	0.059	U
Aniline	400	0.092		0.039	U																								
Anthracene	230000	1160		0.02	U	0.23	U	0.02	U	0.02	U	0.027	U	0.02	U	0.019	J			0.15	U	0.022	U	0.033	J	0.019	U	0.02	U
Atrazine	10	0.004	0.038	0.19	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U	0.21	U			0.21	U	0.21	U	1.1	U	0.19	U	0.2	U
Benzaldehyde	820	0.082		0.19	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U	0.21	U			0.21	U	0.21	U	1.1	U	0.19	U	0.2	U
Benzenamine, N,N-Dimethyl-4-(Pehnylazo)-	0.5	0.00042																											
Benzenethanamine, Alpha, Alpha-Dimethyl-																													
Benzo(A)Anthracene	21	0.22		0.02	U	0.096	U	0.02	U	0.02	U	0.029	U	0.02	U	0.054	U			0.2	U	0.026	U	0.045	J	0.019	U	0.02	U
Benzo(A)Pyrene	2.1	0.58	4.8	0.02	U	0.064	U	0.02	U	0.02	U	0.009	J	0.02	U	0.021	U			0.14	U	0.021	U	0.11	U	0.019	U	0.02	U
Benzo(B)Fluoranthene	21	6		0.02	U	0.26	U	0.02	U	0.02	U	0.34	U	0.02	U	0.11	U			0.12	U	0.017	J	0.21	U	0.006	J	0.02	U
Benzo(G,H,Dperylene				0.02	U	0.21	U	0.02	U	0.02	U	0.08	U	0.02	U	0.043	U			0.044	U	0.0071	J	0.066	J	0.019	U	0.02	U
Benzo(K)Fluoranthene	210	58		0.02	U	0.091	U	0.02	U	0.02	U	0.066	U	0.02	U	0.021	U			0.021	U	0.021	U	0.11	U	0.019	U	0.02	U
Benzoic Acid	3300000	300																											
Benzyl Alcohol	82000	9.6																											
bis-(2-Chloroethoxy)Methane	2500	0.26		0.039	U	0.041	U	0.039	U	0.04	U	0.04	U	0.04	U	0.046	U			0.045	U	0.046	U	0.24	U	0.042	U	0.043	U
bis-(2-Chloroethyl)Ether	1	0.00072		0.039	U	0.041	U	0.039	U	0.04	U	0.04	U	0.04	U	0.046	U			0.045	U	0.046	U	0.24	U	0.042	U	0.043	U
bis-(2-Chloroisopropyl)Ether				0.039	U	0.041	U	0.039	U	0.04	U	0.04	U	0.04	U	0.04	U												
bis-(2-Ethylhexyl)Phthalate	160	26	28	0.2	U	0.13	J	0.2	U	0.2	U	0.2	U	0.2	U	0.21	U			0.21	U	0.21	U	1.1	U	0.19	U	0.2	U
Butylbenzyl Phthalate	1200	4.8		0.19	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U	0.21	U			0.21	U	0.21	U	1.1	U	0.19	U	0.2	U
Caprolactam	400000	50		0.19	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U	0.21	U			0.21	U	0.21	U	1.1	U	0.19	U	0.2	U
Carbazole				0.039	U	0.078	U	0.039	U	0.04	U	0.031	J	0.04	U	0.029	J			0.045	U	0.046	U	0.24	U	0.042	U	0.043	U
Chlorobenzilate	21	0.02																											
Chrysene	2100	180		0.02	U	0.21	U	0.02	U	0.02	U	0.38	U	0.02	U	0.13	U			0.29	U	0.035	U	0.29	U	0.0063	J	0.02	U
Diallate	38	0.016																											
Dibenzo(a,h)Anthracene	2.1	1.92		0.02	U	0.044	U	0.02	U	0.02	U	0.036	U	0.02	U	0.021	U	</											

Table 5. SWMU 16 Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location			Units	SM16-SB02		SM16-SB03		SM16-SB03		SM16-SB03		SM16-SB04		SM16-SB04		SM16-SB5		SM16-SB5		SM16-SB5A		SM16-SB5A		SM16-SB5B		SM16-SB5C		SM16-SB5D	
	Industrial SSL	Risk-Based SSL	MCL-Based SSL		Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Methyl Parathion	210	0.148		mg/kg																										
Naphthalene	8.6	0.0076		mg/kg	0.02	U	0.32		0.02	U	0.02	U	0.061		0.02	U	0.095		0.091		0.051		0.24		0.019	U	0.02	U		
Nitrobenzene	22	0.00184		mg/kg	0.039	U	0.041	U	0.039	U	0.04	U	0.28		0.04	U	0.046	U	0.045	U	0.046	U	0.24	U	0.042	U	0.043	U		
n-Nitrosodiethylamine	0.015	0.0000122		mg/kg																										
n-Nitrosodimethylamine	0.034	0.0000054		mg/kg																										
n-Nitrosodi-n-Butylamine	0.46	0.00011		mg/kg																										
n-Nitroso-di-n-Propylamine	0.33	0.000162		mg/kg	0.039	U	0.041	U	0.039	U	0.04	U	0.04	U	0.04	U	0.063	U	0.062	U	0.063	U	0.33	U	0.058	U	0.059	U		
n-Nitrosodiphenylamine	470	1.34		mg/kg	0.039	U	0.041	U	0.039	U	0.04	U	0.021	J	0.04	U	0.028	J	0.045	U	0.046	U	0.24	U	0.042	U	0.043	U		
n-Nitrosomethylethylamine	0.091	0.000004		mg/kg																										
n-Nitrosomorpholine	0.34	0.000056		mg/kg																										
n-Nitrosopiperidine	0.24	0.000088		mg/kg																										
n-Nitrosopyrrolidine	1.1	0.00028		mg/kg																										
O,O,O-Triethyl Phosphorothioate				mg/kg																										
o-Toluidine	140	0.04		mg/kg																										
Pentachlorobenzene	930	0.48		mg/kg																										
Pentachloronitrobenzene	13	0.03		mg/kg																										
Pentachlorophenol	4	0.00114	0.028	mg/kg	0.2	U	0.21	U	0.2	U	0.2	U	0.2	U	0.2	U	0.21	U	0.21	UJ	0.21	UJ	1.1	U	0.19	U	0.2	U		
Phenacetin	1000	0.194		mg/kg																										
Phenanthrene				mg/kg	0.021		0.5		0.02	U	0.02	U	0.29		0.02	U	0.19		1.1		0.15		0.29		0.01	J	0.02	U		
Phenol	250000	66		mg/kg	0.039	U	0.041	U	0.039	U	0.04	U	0.04	U	0.04	U	0.046	U	0.21		0.13		0.24	U	0.042	U	0.043	U		
Phorate	160	0.068		mg/kg																										
p-Phenylenediamine	820	0.108		mg/kg																										
Pronamide	62000	24		mg/kg																										
Pyrene	23000	260		mg/kg	0.02	U	0.17		0.02	U	0.02	U	0.056		0.02	U	0.12		0.38		0.052		0.057	J	0.0061	J	0.02	U		
Pyridine	1200	0.136		mg/kg																										
Quinoline, 4-Nitro-1-Oxide-				mg/kg																										
Safrole	10	0.00118		mg/kg																										
Thionazine				mg/kg																										
Thiopyrophosphoric Acid ((Ho)2P(S)2O), Tetraethyl	410	0.104		mg/kg																										
Total Aramite	92	0.3		mg/kg																										
Cyanide, Total	150	0.3	40	mg/kg																										
pH				S.U.																										

Notes:
 Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), Industrial Soil Screening Level (SSL) (November 2021)
 Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20
 Exceeds the EPA RSL, Maximum Contaminant Level (MCL) SSL assuming a DAF of 20
 Blanks indicate RSL not established or constituent not analyzed
 RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0
 U = undetected
 J = estimated value
 J+ = estimated biased high
 J- = estimated biased low
 R = rejected
 MG/KG - milligram per kilogram
 SWMU = Solid Waste Management Unit
 RCRA = Resource Conservation and Recovery Act
 Sample depth shown in Sample ID (e.g., SBBF3-04_6-8 indicates 6 to 8-foot sample)
 DUP = Duplicate sample
 Exceedances shown may exceed one or more criteria if available

Table 5. SWMU 16 Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date			SM16-SB5D SM16-SB5D_7-9 3/29/2021	SM16-SB5D SM16-SB5D_8-10 3/29/2021	SM16-SB6 SM16-SB6_0-2 3/9/2021	SM16-SB6A SM16-SB6A_10-12 3/26/2021	SM16-SB6B SM16-SB6B_6-8 3/26/2021	SM16-SB7 SM16-SB7_0-2 3/8/2021	SM16-SB7 SM16-SB7_0-2 3/8/2021	SM16-SB7 SM16-SB7_4-6 3/8/2021	SM16-SB7 SM16-SB7_4-6 3/8/2021	SM16-SB7A SM16-SB7A_0-2 3/26/2021	SM16-SB7A SM16-SB7A_6-8 3/26/2021	SM16-SB7A SM16-SB7A_6-8-DUP 3/26/2021	SM16-SB7A SM16-SB7A_6-8-DUPFD 3/26/2021		
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Metals																		
Aluminum	110000	60000		mg/kg	21000			17000		9000		16000					14000	
Antimony	470	7	5.4	mg/kg	2.6	J		2.1	J	4.3	U	4.7	U				1.8	J-
Arsenic	3	0.03	5.8	mg/kg	2.4	J		4.9	J	3.8	J	7.5	J	5.4	J		3.3	J-
Barium	220000	3200	1640	mg/kg	77			62		37		78		33			48	
Beryllium	2300	380	64	mg/kg	1			0.71		0.39	J	0.78		0.42	U		0.52	
Cadmium	100	2.8	7.6	mg/kg	0.18	J		0.22	J	0.43	U	0.16	J	0.34	U		0.15	J
Calcium				mg/kg	640			1500		260		1500		870			1600	
Chromium			3600000	mg/kg	28			31		12		32		14			36	
Cobalt	350	5.4		mg/kg	6			5.2		4		6.4		0.88			9.4	
Copper	47000	560	920	mg/kg	12			12		7.1		13		19			11	
Iron	820000	7000		mg/kg	25000			20000		9400		24000		14000			16000	
Lead	800		280	mg/kg	16			12		6.9		12		19			8.4	
Magnesium				mg/kg	3200			2900		2100		3200		430			2200	
Manganese	26000	560		mg/kg	70			99		85		130		55			310	
Nickel	22000	520		mg/kg	16			13		11		15		1.5			16	
Potassium				mg/kg	1100			2500		940		1700		630			1700	
Selenium	5800	10.4	5.2	mg/kg	5.4	U		2	J	4.3	U	4.7	U	4.8			23	U
Silver	5800	16		mg/kg	1.1	U		0.93	U	0.85	U	0.93	U	0.84	U		4.5	U
Sodium				mg/kg	360			110		79	J	390		52	J		270	
Thallium	12	0.28	2.8	mg/kg	3.3	U		2.8	U	2.6	U	2.8	U	2.5	U		14	U
Tin	700000	60000		mg/kg														
Vanadium	5800	1720		mg/kg	35			39		13		43		9.3			51	
Zinc	350000	7400		mg/kg	41			49		33		35		38			41	
Mercury	46	0.66	2	mg/kg	0.07	J		0.051	J	0.07	U	0.035	J	0.068	U		0.071	U
Pesticides																		
4,4'-DDD	9.6	0.15		mg/kg	0.00082	U		0.01		0.018		0.26		0.19			0.00085	U
4,4'-DDE	9.3	0.22		mg/kg	0.00082	U		0.0014		0.0079	U	0.059		0.076			0.00085	U
4,4'-DDT	8.5	1.54		mg/kg	0.00082	U		0.012		0.0079	U	0.64		0.76	J-		0.00085	U
Aldrin	0.18	0.003		mg/kg	0.00082	U		0.00078	U	0.0079	U	0.0079	U	0.00084	U		0.00085	U
Alpha-BHC	0.36	0.00084		mg/kg	0.00082	U		0.00079	U	0.0079	U	0.071		0.00084	UJ		0.00085	UJ
Beta-BHC	1.3	0.003		mg/kg	0.00082	U		0.00059	J	0.0079	U	0.032		0.0017			0.00085	UJ
Chlordane				mg/kg														
cis-Chlordane	500	9.8		mg/kg	0.00082	U		0.00078	U	0.0079	U	0.0079	U	0.00084	U		0.00085	U
Delta-BHC				mg/kg	0.00082	U		0.00078	U	0.0079	U	0.0079	U	0.00084	U		0.00085	U
Dieldrin	0.14	0.00142		mg/kg	0.00082	U		0.00078	U	0.0079	U	0.0079	U	0.00084	U		0.00085	U
Endosulfan I				mg/kg	0.00082	U		0.00078	U	0.0079	U	0.0079	U	0.00084	U		0.00085	U
Endosulfan II				mg/kg	0.00082	U		0.00078	U	0.0079	U	0.0079	U	0.00084	U		0.00085	U
Endosulfan Sulfate	4900	42		mg/kg	0.00082	U		0.00078	U	0.0079	U	0.0079	U	0.00084	U		0.00085	U
Endrin	250	1.84	1.62	mg/kg	0.00082	U		0.00078	U	0.0079	U	0.0079	U	0.00084	U		0.00085	U
Endrin Aldehyde				mg/kg	0.00082	U		0.00078	U	0.0079	U	0.0079	U	0.00084	UJ		0.00085	U
Endrin Ketone				mg/kg	0.00082	U		0.00078	U	0.0079	U	0.0079	U	0.00084	U		0.00085	U
Gamma-BHC (Lindane)	2.5	0.0048	0.024	mg/kg	0.00082	U		0.00078	U	0.0079	U	0.0079	U	0.00084	U		0.00085	U
Gamma-Chlordane				mg/kg														
Heptachlor	0.63	0.0024	0.66	mg/kg	0.00082	U		0.00078	U	0.0079	U	0.0079	U	0.00084	U		0.00085	U
Heptachlor Epoxide	0.33	0.00056	0.082	mg/kg	0.00082	U		0.00078	U	0.0079	U	0.0079	U	0.00084	UJ		0.00085	U
Methoxychlor	4100	40	44	mg/kg	0.0016	U		0.0015	U	0.015	U	0.015	U	0.016	U		0.016	U
Toxaphene	2.1	0.22	9.2	mg/kg	0.021	U		0.02	U	0.2	U	0.21	U	0.22	U		0.021	U
trans-Chlordane	500	28		mg/kg	0.00082	U		0.00078	U	0.0079	U	0.0079	U	0.00084	UJ		0.00085	U
Volatile Organic Compounds																		
Aroclor-1016	27	0.42		mg/kg								0.096	U				0.021	U
Aroclor-1221	0.83	0.0016		mg/kg								0.096	U				0.021	U
Aroclor-1232	0.72	0.0016		mg/kg								0.096	U				0.021	U
Aroclor-1242	0.95	0.024		mg/kg								0.096	U				0.021	U
Aroclor-1248	0.94	0.024		mg/kg								0.096	U				0.021	U
Aroclor-1254	0.97	0.04		mg/kg								0.096	U				0.021	U
Aroclor-1260	0.99	0.11		mg/kg								0.096	U				0.021	U
Aroclor-1262				mg/kg								0.096	U				0.021	U
Aroclor-1268				mg/kg								0.096	U				0.021	U
Semi-Volatile Organic Compounds																		
2,4,5-T	8200	1.36		mg/kg														
2,4,5-TP (Silvex)	6600	1.22	0.56	mg/kg														
2,4-D	9600	0.9	0.36	mg/kg														
1,1,1,2-Tetrachloroethane	8.8	0.0044		mg/kg														
1,1,1-Trichloroethane	36000	56	1.4	mg/kg	0.32	U		0.25	U	0.3	U	0.29	U	0.0048	U		0.27	U
1,1,2,2-Tetrachloroethane	2.7	0.0006		mg/kg	0.32	U		0.25	U	0.3	U	0.29	U	0.0048	U		0.27	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	28000	520		mg/kg	0.65	U		0.22	J	3.5	J+	0.57	U	0.0095	U		0.54	U
1,1,2-Trichloroethane	5	0.00178	0.032	mg/kg	0.32	U		0.25	U	0.3	U	0.29	U	0.0048	U		0.27	U
1,1-Dichloroethane	16	0.0156		mg/kg	0.32	U		0.025	J	0.3	U	0.29	U	0.0048	U		0.033	J
1,1-Dichloroethene	1000	2	0.05	mg/kg	0.32	U		0.06	J	0.3	U	0.29	U	0.0048	U		0.055	J
1,2,3-Trichlorobenzene	930	0.42		mg/kg	0.65	U		0.5	U	0.6	U	0.57	U	0.0095	U		0.54	U
1,2,3-Trichloropropane	0.11	0.000064		mg/kg														
1,2,4-Trichlorobenzene	110	0.068	4	mg/kg	0.65	U		0.5	U	0.6	U	0.57	U	0.0095	U		0.54	U
1,2-Dibromo-3-Chloropropane	0.064	0.000028	0.00172	mg/kg	0.32	U		0.25	U	0.3	U	0.29	U	0.0048	U		0.27	U
1,2-Dibromoethane	0.16	0.000042	0.00028	mg/kg	0.32	U		0.25	U	0.3	U	0.29	U	0.0048	U		0.27	U
1,2-Dichlorobenzene	9300	6	11.6	mg/kg	0.32	U		0.21	J	0.25	J	0.29	U	0.00081	J		0.063	J
1,2-Dichloroethane	2	0.00096	0.028	mg/kg	0.32	U		0.25	U	0.3	U	0.29	U	0.0048	U		0.27	U

Table 5. SWMU 16 Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location			Units	SM16-SB5D SM16-SB5D_7-9 3/29/2021		SM16-SB5D SM16-SB5D_8-10 3/29/2021		SM16-SB6 SM16-SB6_0-2 3/9/2021		SM16-SB6A SM16-SB6A_10-12 3/26/2021		SM16-SB6B SM16-SB6B_6-8 3/26/2021		SM16-SB7 SM16-SB7_0-2 3/8/2021		SM16-SB7 SM16-SB7_0-2 3/8/2021		SM16-SB7 SM16-SB7_4-6 3/8/2021		SM16-SB7 SM16-SB7_4-6 3/8/2021		SM16-SB7A SM16-SB7A_0-2 3/26/2021		SM16-SB7A SM16-SB7A_6-8 3/26/2021		SM16-SB7A SM16-SB7A_6-8-DUP 3/26/2021		SM16-SB7A SM16-SB7A_6-8-DUPFD 3/26/2021						
	Industrial SSI	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20		Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual			
1,2-Dichloropropane	11	0.0056	0.034	0.32	U					0.25	U	0.3	U	0.29	U	0.0048	U					0.27	U			0.31	U	0.0046	U			0.0048	U		
1,3-Dichlorobenzene				0.32	U					0.25	U	0.3	U	0.29	U	0.0048	U					0.27	U			0.31	U	0.0046	U			0.0048	U		
1,4-Dichlorobenzene	11	0.0092	1.44	0.32	U					0.044	J	0.3	U	0.29	U	0.0048	U					0.27	U			0.31	U	0.0004	J			0.00081	J		
1,4-Dioxane	24	0.00188		16	U					13	U	15	U	14	U	0.24	U					14	U			15	U	0.23	U			0.24	U		
2-Butanone	190000	24		0.65	UJ					0.5	U	0.6	UJ	0.57	U	0.0035	J					0.54	U			0.61	U	0.0021	J+			0.0095	U		
2-Hexanone	1300	0.176		0.65	U					0.5	U	0.6	U	0.57	U	0.0095	U					0.54	U			0.61	U	0.0092	U			0.0095	U		
4-Methyl-2-Pentanone	140000	28		0.65	U					0.5	U	0.6	U	0.57	U	0.0095	U					0.54	U			0.61	U	0.0092	U			0.0095	U		
Acetone	1100000	74			U					1	U	1.2	U	1.1	U	0.028						0.96	J			1.2	U	0.04	J+			0.028	J+		
Acetonitrile	3400	0.52																																	
Acrolein	0.6	0.000168																																	
Acrylonitrile	1.1	0.00022																																	
Allyl Chloride	3.2	0.0046																																	
Benzene	5.1	0.0046	0.052							0.27		0.27	J	0.29	U	0.0048	U					0.036	J			0.31	U	0.014	J			0.047	J		
Bromochloromethane	630	0.42		0.32	U					0.25	U	0.3	U	0.29	U	0.0048	U					0.27	U			0.31	U	0.0046	U			0.0048	U		
Bromodichloromethane	1.3	0.00072	0.44	0.32	U					0.25	U	0.3	U	0.29	U	0.0048	U					0.27	U			0.31	U	0.0046	U			0.0048	U		
Bromoform	86	0.0174	0.42	0.65	U					0.5	U	0.6	U	0.57	U	0.0095	U					0.54	U			0.61	U	0.0092	U			0.0095	U		
Bromomethane	30	0.038		0.32	U					0.25	U	0.3	U	0.29	U	0.0048	U					0.27	U			0.31	U	0.0046	U			0.0048	U		
Carbazole																																			
Carbon Disulfide	3500	4.8		0.32	U					0.25	U	0.3	U	0.29	U	0.043						0.27	U			0.18	J+	0.002	J			0.003	J		
Carbon Tetrachloride	2.9	0.0036	0.038	0.32	U					0.25	U	0.26	J+	0.29	U	0.0048	U					0.27	U			0.31	U	0.0046	U			0.0048	U		
Chlorobenzene	1300	1.06	1.36	0.32	U					0.25	U	0.3	U	0.29	U	0.0048	U					0.27	U			0.034	J	0.0046	U			0.0048	U		
Chloroethane	23000	48		0.32	U					0.25	U	0.3	U	0.29	U	0.0048	U					0.27	U			0.31	U	0.0046	U			0.0048	U		
Chloroform	1.4	0.00122	0.44	0.32	U					0.09	J	0.3	U	0.29	U	0.0048	U					0.48				0.31	U	0.0046	U			0.0048	U		
Chloromethane	460	0.98		0.32	U					0.25	U	0.3	U	0.29	U	0.0048	U					0.27	U			0.31	U	0.0046	U			0.0048	U		
Chloroprene	0.044	0.000196																																	
cis-1,2-Dichloroethene	2300	0.22	0.42	0.16	J					17		0.68		0.042	J	0.0014	J					14				0.31	U	0.0014	J			0.0048	U		
cis-1,3-Dichloropropene				0.32	U					0.25	U	0.3	U	0.29	U	0.0048	U					0.27	U			0.31	U	0.0046	U			0.0048	U		
Cyclohexane	27000	260		0.32	U					0.25	U	0.1	J+	0.29	U	0.0048	U					0.27	U			0.31	U	0.0046	U			0.00071	J		
Dibromochloromethane	39	0.0046	0.42	0.32	U					0.25	U	0.3	U	0.29	U	0.0048	U					0.27	U			0.31	U	0.0046	U			0.0048	U		
Dibromomethane	99	0.042																																	
Dichlorodifluoromethane	370	6		0.32	UJ					0.25	UJ	0.3	UJ	0.29	UJ	0.0048	U					0.27	UJ			0.31	UJ	0.0046	UJ			0.0048	U		
Diethyl Ether	230000	17.6		0.32	U					0.25	U	0.068	J	0.29	U	0.0048	U					0.27	U			0.31	U	0.0012	J			0.0031	J		
Ethyl Cyanide																																			
Ethyl Methacrylate	7600	3																																	
Ethylbenzene	25	0.034	15.6							3.9		7.9		0.29	U	0.012						4.2				0.31	U	0.00071	J			0.001	J		
Iodomethane																																			
Isobutanol	350000	24																																	
Isopropylbenzene	9900	14.8		0.32	U					0.25	U	0.029	J	0.29	U	0.0048	U					0.27	U			0.31	U	0.0046	U			0.0048	U		
m&p-Xylenes				0.067	J					17		28		0.29	U	0.035						2.3				0.31	U	0.00098	J			0.0013	J		
Methacrylonitrile	100	0.0086																																	
Methyl Acetate	1200000	82		0.32	U					0.25	U	0.3	U	0.29	U	0.0048	U					0.27	U			0.099	J	0.0046	U			0.0048	U		
Methyl Methacrylate	19000	6																																	
Methyl Tert-Butyl Ether	210	0.064		0.32	U					0.25	U	0.3	U	0.29	U	0.0048	U					0.27	U			0.31	U	0.0046	U			0.0048	U		
Methylcyclohexane				0.32	U					0.25	U	0.3	U	0.29	U	0.0048	U					0.27	U			0.31	U	0.0046	U			0.0048	U		
Methylene Chloride	1000	0.058	0.026	0.32	U					0.25	U	0.3	U	0.29	U	0.0048	U					0.27	U			0.31	U	0.0046	U			0.0048	U		
o-Xylene	2800	3.8		0.32	U					3.6		4.7		0.29	U	0.0058						1.2				0.31	U	0.00056	J			0.00076	J		
Styrene	35000	26	2.2	0.32	U					0.25	U	0.3	U	0.29	U	0.0048	U					0.27	U			0.31	U	0.0046	U			0.0048	U		
Tetrachloroethene	100	0.102	0.046	0.32	U																														

Table 5. SWMU 16 Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date			Units	SM16-SB5D SM16-SB5D_7-9 3/29/2021		SM16-SB5D SM16-SB5D_8-10 3/29/2021		SM16-SB6 SM16-SB6_0-2 3/9/2021		SM16-SB6A SM16-SB6A_10-12 3/26/2021		SM16-SB6B SM16-SB6B_6-8 3/26/2021		SM16-SB7 SM16-SB7_0-2 3/8/2021		SM16-SB7 SM16-SB7_0-2 3/8/2021		SM16-SB7 SM16-SB7_4-6 3/8/2021		SM16-SB7 SM16-SB7_4-6 3/8/2021		SM16-SB7A SM16-SB7A_0-2 3/26/2021		SM16-SB7A SM16-SB7A_6-8 3/26/2021		SM16-SB7A SM16-SB7A_6-8-DUP 3/26/2021		SM16-SB7A SM16-SB7A_6-8-DUPFD 3/26/2021			
	Industrial SSI	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20		Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
2-Chloronaphthalene	60000	78		mg/kg	0.041	U			0.039	U	0.04	U	0.041	U	0.038	U			0.04	U			0.04	U	0.041	U					0.04	U
2-Chlorophenol	5800	1.78		mg/kg	0.045	U			0.043	U	0.044	U	0.045	U	0.042	U			0.044	U			0.043	U	0.045	U					0.044	U
2-Methylnaphthalene	3000	3.8		mg/kg	0.02	U			0.029	U	0.13	U	0.02	U	0.019	U			0.02	U			0.02	U	0.02	U					0.02	U
2-Methylphenol	41000	15		mg/kg	0.061	U			0.058	U	0.06	U	0.061	U	0.057	U			0.06	U			0.059	U	0.061	U					0.06	U
2-Naphthylamine	1.3	0.004		mg/kg																												
2-Nitroaniline	8000	1.6		mg/kg	0.061	U			0.058	U	0.06	U	0.061	U	0.057	U			0.06	U			0.059	U	0.061	U					0.06	U
2-Nitrophenol				mg/kg	0.061	U			0.058	U	0.06	U	0.061	U	0.057	U			0.06	U			0.059	U	0.061	U					0.06	U
2-Picoline				mg/kg																												
3,4-Methylphenol				mg/kg																												
3,3'-Dichlorobenzidine	5.1	0.0164		mg/kg	0.2	U			0.19	U	0.2	U	0.2	U	0.19	U			0.2	U			0.2	U	0.2	U					0.2	U
3,3'-Dimethylbenzidine	0.21	0.00086		mg/kg																												
3-Methylcholanthrene	0.1	0.044		mg/kg																												
3-Nitroaniline				mg/kg	0.2	U			0.19	U	0.2	U	0.2	U	0.19	U			0.2	U			0.2	U	0.2	U					0.2	U
4,6-Dinitro-2-Methylphenol	66	0.052		mg/kg	0.61	U			0.58	U	0.6	U	0.61	U	0.57	U			0.6	U			0.59	U	0.61	U					0.6	U
4-Aminobiphenyl	0.11	0.0003		mg/kg																												
4-Bromophenyl Phenyl Ether				mg/kg	0.045	U			0.043	U	0.044	U	0.045	U	0.042	U			0.044	U			0.043	U	0.045	U					0.044	U
4-Chloro-3-Methylphenol	82000	34		mg/kg	0.061	U			0.058	U	0.06	U	0.061	U	0.057	U			0.06	U			0.059	U	0.061	U					0.06	U
4-Chloroaniline	11	0.0032		mg/kg	0.2	U			0.19	U	0.2	U	0.2	U	0.19	U			0.2	U			0.2	U	0.2	U					0.2	U
4-Chlorophenyl Phenyl Ether				mg/kg	0.045	U			0.043	U	0.044	U	0.045	U	0.042	U			0.044	U			0.043	U	0.045	U					0.044	U
4-Methylphenol	16000	6		mg/kg	0.061	U			0.021	J	0.06	U	0.061	U	0.057	U			0.06	U			0.059	U	0.061	U					0.06	U
4-Nitroaniline	110	0.032		mg/kg	0.2	U			0.19	U	0.2	U	0.2	U	0.19	U			0.2	U			0.2	U	0.2	U					0.2	U
4-Nitrophenol				mg/kg	0.61	U			0.58	U	0.6	U	0.61	U	0.57	U			0.6	U			0.59	U	0.61	U					0.6	U
5-Nitro-o-Toluidine	260	0.092		mg/kg																												
7,12-Dimethylbenz(A)Anthracene	0.0084	0.00198		mg/kg																												
Acenaphthene	45000	110		mg/kg	0.02	U			0.026	U	0.16	U	0.02	U	0.019	U			0.02	U			0.006	J	0.02	U					0.02	U
Acenaphthylene				mg/kg	0.02	U			0.019	U	0.015	J	0.02	U	0.014	J			0.02	U			0.02	U	0.02	U					0.02	U
Acetophenone	120000	11.6		mg/kg	0.061	U			0.083	U	0.093	U	0.061	U	0.057	U			0.054	J			0.059	U	0.061	U					0.06	U
Aniline	400	0.092		mg/kg																												
Anthracene	230000	1160		mg/kg	0.02	U			0.005	J	0.056	U	0.02	U	0.013	J			0.02	U			0.005	J	0.02	U					0.02	U
Atrazine	10	0.004	0.038	mg/kg	0.2	U			0.19	U	0.2	U	0.2	U	0.19	U			0.2	U			0.2	U	0.2	U					0.2	U
Benzaldehyde	820	0.082		mg/kg	0.2	U			0.19	U	0.2	U	0.2	U	0.19	U			0.2	U			0.2	U	0.2	U					0.2	U
Benzenamine, N,N-Dimethyl-4-(Pehnylazo)-	0.5	0.00042		mg/kg																												
Benzenethanamine, Alpha, Alpha-Dimethyl-				mg/kg																												
Benzo(A)Anthracene	21	0.22		mg/kg	0.02	U			0.0087	J	0.074	U	0.0044	J	0.018	J			0.02	U			0.02	U	0.02	U					0.02	U
Benzo(A)Pyrene	2.1	0.58	4.8	mg/kg	0.02	U			0.019	U	0.02	U	0.02	U	0.016	J			0.02	U			0.02	U	0.02	U					0.02	U
Benzo(B)Fluoranthene	21	6		mg/kg	0.02	U			0.014	J	0.2	U	0.0069	J	0.039	U			0.02	U			0.02	U	0.02	U					0.02	U
Benzo(G,H)Dperylene				mg/kg	0.02	U			0.0074	J	0.063	U	0.02	U	0.075	U			0.02	U			0.02	U	0.02	U					0.02	U
Benzo(K)Fluoranthene	210	58		mg/kg	0.02	U			0.019	U	0.045	U	0.02	U	0.019	U			0.02	U			0.02	U	0.02	U					0.02	U
Benzoic Acid	3300000	300		mg/kg																												
Benzyl Alcohol	82000	9.6		mg/kg																												
bis-(2-Chloroethoxy)Methane	2500	0.26		mg/kg	0.045	U			0.043	U	0.044	U	0.045	U	0.042	U			0.044	U			0.043	U	0.045	U					0.044	U
bis-(2-Chloroethyl)Ether	1	0.00072		mg/kg	0.045	U			0.043	U	0.044	U	0.045	U	0.042	U			0.044	U			0.043	U	0.045	U					0.044	U
bis(2-Chloroisopropyl)Ether				mg/kg																												
bis-(2-Ethylhexyl)Phthalate	160	26	28	mg/kg	0.2	U			0.19	U	0.2	U	0.2	U	1.6	U			0.2	U			0.2	U	0.2	U					0.2	U
Butylbenzyl Phthalate	1200	4.8		mg/kg	0.2	U			0.19	U	0.2	U	0.2	U	0.19	U			0.2	U			0.2	U	0.2	U					0.2	U
Caprolactam	400000	50		mg/kg	0.2	U			0.19	U	0.2	U	0.2	U	0.19	U			0.2	U			0.2	U	0.2	U					0.2	U
Carbazole				mg/kg	0.045	U			0.043	U	0.046	U	0.045	U	0.042	U			0.044	U			0.043	U	0.045	U					0.044	U
Chlorobenzilate	21	0.02		mg/kg																												
Chrysene	2100	180		mg/kg	0.02	U			0.016	J	0.24	U	0.0053	J	0.023	U			0.02	U			0.0062	J	0.02	U					0.02	U
Diallate	38	0.016		mg/kg																												
Dibenzo(a,h)Anthracene	2.1	1.92		mg/kg	0.02	U			0.019	U	0.028	U	0.02	U	0.019	U			0.02	U			0.02	U	0.02	U					0.02	U
Dibenzofuran	1200	3		mg/kg	0.045	U			0.031	J	0.19	U	0.045	U	0.042	U			0.044	U			0.043	U	0.045	U					0.044	U
Diethyl Phthalate	660000	122		mg/kg	0.2	U			0.19	U	0.2	U	0.2	U	0.19	U			0.2	U			0.2	U	0.2	U					0.2	U
Dimethoate	1800	0.198		mg/kg																												
Dimethyl Phthalate				mg/kg	0.2	U			0.19	U	0.2	U	0.2	U	0.19	U			0.2	U			0.2	U	0.2	U					0.2	U
Di-n-Butyl Phthalate	82000	46		mg/kg	0.2	U			0.19	U	0.2	U	0.2	U	0.19	U			0.2	U			0.2	U	0.2	U					0.2	U
Di-n-Octyl Phthalate	8200	1140		mg/kg	0.2	U			0.19	U	0.2	U	0.2	U	0.19	U			0.2	U			0.2	U	0.2	U					0.2	U
Dinoseb	820	2.6	1																													

Table 5. SWMU 16 Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date			Units	SM16-SB5D SM16-SB5D_7-9 3/29/2021		SM16-SB5D SM16-SB5D_8-10 3/29/2021		SM16-SB6 SM16-SB6_0-2 3/9/2021		SM16-SB6A SM16-SB6A_10-12 3/26/2021		SM16-SB6B SM16-SB6B_6-8 3/26/2021		SM16-SB7 SM16-SB7_0-2 3/8/2021		SM16-SB7 SM16-SB7_0-2 3/8/2021		SM16-SB7 SM16-SB7_4-6 3/8/2021		SM16-SB7 SM16-SB7_4-6 3/8/2021		SM16-SB7A SM16-SB7A_0-2 3/26/2021		SM16-SB7A SM16-SB7A_6-8 3/26/2021		SM16-SB7A SM16-SB7A_6-8-DUP 3/26/2021		SM16-SB7A SM16-SB7A_6-8-DUPFD 3/26/2021		
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20		Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	
Methyl Parathion	210	0.148		mg/kg																											
Naphthalene	8.6	0.0076		mg/kg	0.02	U			0.11		0.33		0.02	U	0.019	U			0.02	U			0.02	U		0.02	U			0.02	U
Nitrobenzene	22	0.00184		mg/kg	0.045	U			0.043	U	0.044	U	0.045	U	0.042	U			0.044	U			0.043	U	0.045	U			0.044	U	
n-Nitrosodiethylamine	0.015	0.0000122		mg/kg																											
n-Nitrosodimethylamine	0.034	0.0000054		mg/kg																											
n-Nitrosodi-n-Butylamine	0.46	0.00011		mg/kg																											
n-Nitroso-di-n-Propylamine	0.33	0.000162		mg/kg	0.061	U			0.058	U	0.06	U	0.061	U	0.057	U			0.06	U			0.059	U	0.061	U			0.06	U	
n-Nitrosodiphenylamine	470	1.34		mg/kg	0.045	U			0.043	U	0.044	U	0.045	U	0.042	U			0.044	U			0.036	J	0.045	U			0.044	U	
n-Nitrosomethylethylamine	0.091	0.000004		mg/kg																											
n-Nitrosomorpholine	0.34	0.000056		mg/kg																											
n-Nitrosopiperidine	0.24	0.000088		mg/kg																											
n-Nitrosopyrrolidine	1.1	0.00028		mg/kg																											
O,O,O-Triethyl Phosphorothioate				mg/kg																											
o-Toluidine	140	0.04		mg/kg																											
Pentachlorobenzene	930	0.48		mg/kg																											
Pentachloronitrobenzene	13	0.03		mg/kg																											
Pentachlorophenol	4	0.00114	0.028	mg/kg	0.2	U			0.19	U	0.2	UJ	0.2	U	0.19	U			0.2	U			0.2	U	0.2	U			0.2	UJ	
Phenacetin	1000	0.194		mg/kg																											
Phenanthrene				mg/kg	0.02	U			0.11		1.1		0.0069	J	0.011	J			0.02	U			0.011	J	0.02	U			0.02	U	
Phenol	250000	66		mg/kg	0.045	U			0.023	J	0.025	J	0.045	U	0.042	U			0.044	U			0.043	U	0.045	U			0.044	U	
Phorate	160	0.068		mg/kg																											
p-Phenylenediamine	820	0.108		mg/kg																											
Pronamide	62000	24		mg/kg																											
Pyrene	23000	260		mg/kg	0.02	U			0.021		0.27		0.0069	J	0.023				0.02	U			0.0072	J	0.02	U			0.02	U	
Pyridine	1200	0.136		mg/kg																											
Quinoline, 4-Nitro-1-Oxide-				mg/kg																											
Safrole	10	0.00118		mg/kg																											
Thionazine				mg/kg																											
Thiopyrophosphoric Acid ((Ho)2P(S)2O), Tetraethyl	410	0.104		mg/kg																											
Total Aramite	92	0.3		mg/kg																											
Cyanide, Total	150	0.3	40	mg/kg																											
pH				S.U.																											

Notes:
 Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), Industrial Soil Screening Level (SSL) (November 2021)
 Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20
 Exceeds the EPA RSL, Maximum Contaminant Level (MCL) SSL assuming a DAF of 20
 Blanks indicate RSL not established or constituent not analyzed
 RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0
 U = undetected
 J = estimated value
 J+ = estimated biased high
 J- = estimated biased low
 R = rejected
 MG/KG - milligram per kilogram
 SWMU = Solid Waste Management Unit
 RCRA = Resource Conservation and Recovery Act
 Sample depth shown in Sample ID (e.g., SBBF3-04_6-8 indicates 6 to 8-foot sample)
 DUP = Duplicate sample
 Exceedances shown may exceed one or more criteria if available

Table 5. SWMU 16 Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location			Units	SM16-SB7B SM16-SB7B 0-2 3/29/2021		SM16-SB7B SM16-SB7B 3-5 3/29/2021		SM16-SB8 SM16-SB8 0-2 3/9/2021		SM16-SB8 SM16-SB8 11-13 3/9/2021		SM16-SB8 SM16-SB8 11-13-DUP 3/9/2021		SM16-SB8A SM16-SB8A 0-2 3/29/2021		SM16-SB8B SM16-SB8B 0-2 3/29/2021		SM16-SB8B SM16-SB8B 3-5 3/29/2021		SM16-SS01 SM16-SS1_090815 9/8/2015		SM16-SS01 DUP8-090515 9/8/2015		SM16-SS02 SM16-SS2_090815 9/8/2015		SM16-SS03 SM16-SS3_091015 9/10/2015		SM16-SS04 SM16-SS4_090815 9/8/2015						
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20		Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual			
1,2-Dichloropropane	11	0.0056	0.034	0.42	U	12	U	0.0045	U	0.29	U	0.35	U	0.28	U	0.26	U	0.31	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.21	U	0.005	U		
1,3-Dichlorobenzene				0.043	J	12	U	0.008	U	10	J	23	J	0.032	J	0.26	U	0.13	J	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.21	U	0.005	U		
1,4-Dichlorobenzene	11	0.0092	1.44	0.18	J	4.1	J	0.059	J	110	J	240	J	0.53	J	0.13	J	0.57	J	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U	0.21	U	0.005	U		
1,4-Dioxane	24	0.00188		0.22	U	580	U	0.22	U	15	U	18	U	14	U	13	U	16	U	0.25	U	0.24	U	0.23	U	0.23	U	11	U	0.24	U	0.01	U		
2-Butanone	190000	24		0.84	U	23	U	0.0019	J	0.58	U	0.7	U	0.56	U	0.52	U	0.62	U	0.01	U	0.01	U	0.009	U	0.009	U	0.43	U	0.01	U	0.01	U		
2-Hexanone	1300	0.176		0.84	U	23	U	0.009	U	0.58	U	0.7	U	0.56	U	0.52	U	0.62	U	0.01	U	0.01	U	0.009	U	0.009	U	0.43	U	0.01	U	0.01	U		
4-Methyl-2-Pentanone	140000	28		0.84	U	23	U	0.009	U	0.58	U	0.7	U	0.56	U	0.52	U	0.62	U	0.01	U	0.01	U	0.009	U	0.009	U	0.43	U	0.01	U	0.01	U		
Acetone	1100000	74		1.7	U	46	U	0.044	U	3.4	U	4.6	U	1.1	U	1	U	1.2	U	0.02	U	0.019	U	0.019	U	0.019	U	0.85	U	0.03	U	0.03	U		
Acetonitrile	3400	0.52																																	
Acrolein	0.6	0.00168																																	
Acrylonitrile	1.1	0.00022																																	
Allyl Chloride	3.2	0.0046																																	
Benzene	5.1	0.0046	0.052	0.42	U	12	U	0.0035	J	4	J	5.1	J	1.4	J	0.16	J	0.31	U	0.005	U	0.005	U	0.0006	J	0.076	J	0.004	J	0.004	J	0.004	J		
Bromochloromethane	630	0.42		0.42	U	12	U	0.0045	U	0.29	U	0.35	U	0.28	U	0.26	U	0.31	U	0.005	U	0.005	U	0.005	U	0.005	U	0.21	U	0.005	U	0.005	U	0.005	U
Bromodichloromethane	1.3	0.00072	0.44	0.42	U	12	U	0.0045	U	0.29	U	0.35	U	0.28	U	0.26	U	0.31	U	0.005	U	0.005	U	0.005	U	0.005	U	0.21	U	0.005	U	0.005	U	0.005	U
Bromoform	86	0.0174	0.42	0.84	U	23	U	0.009	U	0.58	U	0.7	U	0.56	U	0.52	U	0.62	U	0.005	U	0.005	U	0.005	U	0.005	U	0.21	U	0.005	U	0.005	U	0.005	U
Bromomethane	30	0.038		0.42	U	12	U	0.0045	U	0.29	U	0.35	U	0.28	U	0.26	U	0.31	U	0.005	U	0.005	U	0.005	U	0.005	U	0.21	U	0.005	U	0.005	U	0.005	U
Carbazole																																			
Carbon Disulfide	3500	4.8		0.42	U	12	U	0.0058	U	0.29	U	0.35	U	0.061	J+	0.12	J+	0.31	U	0.005	U	0.005	U	0.001	J	0.21	U	0.003	J	0.003	J	0.003	J		
Carbon Tetrachloride	2.9	0.0036	0.038	0.42	U	12	U	0.0045	U	0.29	U	0.35	U	0.28	U	0.26	U	0.31	U	0.005	U	0.005	U	0.005	U	0.005	U	0.76	U	0.005	U	0.005	U	0.005	U
Chlorobenzene	1300	1.06	1.36	0.42	U	12	U	0.0045	U	0.48	U	0.35	U	0.43	U	0.07	J	0.31	U	0.005	U	0.005	U	0.005	U	0.005	U	0.21	U	0.005	U	0.005	U	0.005	U
Chloroethane	23000	48		0.42	U	12	U	0.0045	U	0.29	U	0.35	U	0.28	U	0.26	U	0.31	U	0.005	U	0.005	U	0.005	U	0.005	U	0.21	U	0.005	U	0.005	U	0.005	U
Chloroform	1.4	0.00122	0.44	0.42	U	3.7	J	0.0009	J	0.25	J	0.27	J	0.28	U	0.26	U	0.31	U	0.005	U	0.005	U	0.005	U	0.005	U	0.64	U	0.006	U	0.006	U	0.006	U
Chloromethane	460	0.98		0.42	U	12	U	0.0045	U	0.29	U	0.35	U	0.28	U	0.26	U	0.31	U	0.005	U	0.005	U	0.005	U	0.005	U	0.21	U	0.005	U	0.005	U	0.005	U
Chloroprene	0.044	0.000196																																	
cis-1,2-Dichloroethene	2300	0.22	0.42			9.8		0.023		29		33		96		2.5		0.43		0.006		0.005		0.16		0.92		0.007		0.007		0.007			
cis-1,3-Dichloropropene				0.42	U	12	U	0.0045	U	0.29	U	0.35	U	0.28	U	0.26	U	0.31	U	0.005	U	0.005	U	0.005	U	0.005	U	0.21	U	0.005	U	0.005	U	0.005	U
Cyclohexane	27000	260		0.42	U	12	U	0.0045	U	0.029	J	0.35	U	0.052	J+	0.26	U	0.31	U	0.005	U	0.005	U	0.005	U	0.005	U	0.21	U	0.005	U	0.005	U	0.005	U
Dibromochloromethane	39	0.0046	0.42	0.42	U	12	U	0.0045	U	0.29	U	0.35	U	0.28	U	0.26	U	0.31	U	0.005	U	0.005	U	0.005	U	0.005	U	0.21	U	0.005	U	0.005	U	0.005	U
Dibromomethane	99	0.042		0.42	U	12	U	0.0045	U	0.29	U	0.35	U	0.28	U	0.26	U	0.31	U	0.005	U	0.005	U	0.005	U	0.005	U	0.21	U	0.005	U	0.005	U	0.005	U
Dichlorodifluoromethane	370	6		0.42	U	12	U	0.0045	U	0.047	J-	0.046	J-	0.28	U	0.26	U	0.31	U	0.005	U	0.005	U	0.005	U	0.005	U	0.21	U	0.005	U	0.005	U	0.005	U
Diethyl Ether	230000	17.6		0.42	U	12	U	0.0027	J	0.29	U	0.35	U	0.2	J	0.054	J	0.31	U																
Ethyl Cyanide																																			
Ethyl Methacrylate	7600	3																																	
Ethylbenzene	25	0.034	15.6	0.81	J	150	J	0.023	J	570	J	790	J	21	J	4.5	J	3.6	J	0.15	J	0.11	J	0.005	U	2.6	J	0.005	U	0.005	U	0.005	U		
Iodomethane																																			
Isobutanol	350000	24																																	
Isopropylbenzene	9900	14.8		0.42	U	12	U	0.00039	J	1.3	J	1.6	J	0.033	J	0.26	U	0.31	U	0.005	U	0.005	U	0.005	U	0.005	U	0.21	U	0.005	U	0.005	U	0.005	U
m&p-Xylenes				3.4	J	430	J	0.047	J	1800	J	2700	J	14	J	2.6	J	4.6	J	0.23	J	0.16	J	0.005	U	16	J	0.002	J	0.002	J	0.002	J	0.002	J
Methacrylonitrile	100	0.0086																																	
Methyl Acetate	1200000	82		0.34	J	12	U	0.0045	U	0.29	U	0.087	J	0.3	J	0.07	J	0.09	J	0.005	U	0.005	U	0.005	U	0.005	U	0.21	U	0.005	U	0.005	U	0.005	U
Methyl Methacrylate	19000	6	</																																

Table 5. SWMU 16 Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date			Units	SM16-SB7B SM16-SB7B_0-2 3/29/2021		SM16-SB7B SM16-SB7B_3-5 3/29/2021		SM16-SB8 SM16-SB8_0-2 3/9/2021		SM16-SB8 SM16-SB8_11-13 3/9/2021		SM16-SB8 SM16-SB8_11-13-DUP 3/9/2021		SM16-SB8A SM16-SB8A_0-2 3/29/2021		SM16-SB8B SM16-SB8B_0-2 3/29/2021		SM16-SB8B SM16-SB8B_3-5 3/29/2021		SM16-SS01 SM16-SS1_090815 9/8/2015		SM16-SS01 DUP8-090515 9/8/2015		SM16-SS02 SM16-SS2_090815 9/8/2015		SM16-SS03 SM16-SS3_091015 9/10/2015		SM16-SS04 SM16-SS4_090815 9/8/2015		
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20		Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	
Methyl Parathion	210	0.148		mg/kg																											
Naphthalene	8.6	0.0076		mg/kg	0.96		0.011 J		0.098 U		0.23		0.16		0.031		0.036		0.02 U		0.019		0.017 J		0.008 J		0.042 J		0.062		
Nitrobenzene	22	0.00184		mg/kg	0.26 U		0.041 U		0.22 U		0.045 U		0.045 U		0.065		0.19		0.044 U		0.036 U		0.035 U		0.037 U		0.2 U		0.036 U		
n-Nitrosodiethylamine	0.015	0.0000122		mg/kg																											
n-Nitrosodimethylamine	0.034	0.0000054		mg/kg																											
n-Nitrosodi-n-Butylamine	0.46	0.00011		mg/kg																											
n-Nitroso-di-n-Propylamine	0.33	0.000162		mg/kg	0.35 U		0.056 U		0.29 U		0.061 U		0.062 U		0.059 U		0.058 U		0.061 U		0.036 U		0.035 U		0.037 U		0.2 U		0.036 U		
n-Nitrosodiphenylamine	470	1.34		mg/kg	0.26 U		0.041 U		0.22 U		0.045 U		0.045 U		0.46		0.81		0.044 U		0.036 U		0.035 U		0.037 U		0.2 U		0.036 U		
n-Nitrosomethylethylamine	0.091	0.000004		mg/kg																											
n-Nitrosomorpholine	0.34	0.000056		mg/kg																											
n-Nitrosopiperidine	0.24	0.000088		mg/kg																											
n-Nitrosopyrrolidine	1.1	0.00028		mg/kg																											
O,O,O-Triethyl Phosphorothioate				mg/kg																											
o-Toluidine	140	0.04		mg/kg																											
Pentachlorobenzene	930	0.48		mg/kg																											
Pentachloronitrobenzene	13	0.03		mg/kg																											
Pentachlorophenol	4	0.00114	0.028	mg/kg	1.2 U		0.19 U		0.98 U		0.2 U		0.21 U		0.2 U		0.19 U		0.2 U		0.18 U		0.18 U		0.19 U		1 U		0.18 U		
Phenacetin	1000	0.194		mg/kg																											
Phenanthrene				mg/kg	1.8		0.04		0.17		0.6		0.86		0.078		0.13		0.0073 J		0.27		0.3		0.12		0.31		0.69		
Phenol	250000	66		mg/kg	0.26 U		0.041 U		0.22 U		0.045 U		0.045 U		0.043 U		0.042 U		0.044 U		0.036 U		0.035 U		0.037 U		0.2 U		0.036 U		
Phorate	160	0.068		mg/kg																											
p-Phenylenediamine	820	0.108		mg/kg																											
Pronamide	62000	24		mg/kg																											
Pyrene	23000	260		mg/kg	0.95		0.017 J		0.25		0.085 J		0.15 J		0.062		0.12		0.02 U		0.64		0.67		0.22		0.33		1.1		
Pyridine	1200	0.136		mg/kg																											
Quinoline, 4-Nitro-1-Oxide-				mg/kg																											
Safrole	10	0.00118		mg/kg																											
Thionazine				mg/kg																											
Thiopyrophosphoric Acid ((Ho)2P(S)2O), Tetraethyl	410	0.104		mg/kg																											
Total Aramite	92	0.3		mg/kg																											
Cyanide, Total	150	0.3	40	mg/kg																											
pH				S.U.																											

Notes:
 Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), Industrial Soil Screening Level (SSL) (November 2021)
 Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20
 Exceeds the EPA RSL, Maximum Contaminant Level (MCL) SSL assuming a DAF of 20
 Blanks indicate RSL not established or constituent not analyzed
 RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0
 U = undetected
 J = estimated value
 J+ = estimated biased high
 J- = estimated biased low
 R = rejected
 MG/KG - milligram per kilogram
 SWMU = Solid Waste Management Unit
 RCRA = Resource Conservation and Recovery Act
 Sample depth shown in Sample ID (e.g., SBBF3-04_6-8 indicates 6 to 8-foot sample)
 DUP = Duplicate sample
 Exceedances shown may exceed one or more criteria if available

Table 6. SWMU 17 Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location			Units	SM17-GP01-01 SM17-GP01-010430033 4/30/2003		SM17-SB01 SM17-SB1-(0-1)_072915 7/29/2015		SM17-SB01 SM17-SB1-SS_072215 7/22/2015		SM17-SB01 SM17-SB1-(4-5)_072215 7/22/2015		SM17-SB01 SM17-SB1-(10-11)_072915 7/29/2015		SM17-SB02 SM17-SB2-SS_082015 8/20/2015		SM17-SB03 SM17-SB3-(1.5-1.8)_082015 8/20/2015		SM17-SB04 SM17-SB4-(1.3-1.7)_082015 8/20/2015		SM17-SS02 SM17-SS2_090815 9/8/2015		SM17-SS03 SM17-SS3_082015 8/20/2015		SM17-SS04 SM17-SS4_090815 9/8/2015			
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20		Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Metals																												
Aluminum	1100000	600000		mg/kg				16300		13300			17000		16100		18100		20700		9420			8340		15300		9770
Antimony	470	7	5.4	mg/kg	230		10.1	11.4		2.43		2.31	U	2.12	U	2.65		10.9	UJ	21.4			8.75		8.75		25.3	
Arsenic	3	0.03	5.8	mg/kg	510		43.9	39		6.44		4.25		11.2		13		17.1		38			16.8		16.8		54.8	
Barium	220000	3200	1640	mg/kg	347		383	308		129		67.2		673		2460		92.2		634			126		126		248	
Beryllium	2300	380	64	mg/kg	0.2	B	0.363	J	0.41	J	0.762		1.39		1.2		1.76		0.657	J	0.699			0.752		0.981		
Boron	230000	260		mg/kg	37																							
Cadmium	100	2.8	7.6	mg/kg	5.8		41.7		0.581		2.7	0.283	J	0.403	J	1.82		2.71	U	1.52			0.994	J		1.54		
Calcium				mg/kg			10900	8050		2180		22900		915		113000		12000		8730			2100		2100		2100	
Chromium			3600000	mg/kg	83.7		64.6	53.4		23.3		25.4		32.7		8.05		57.6	J	47.2			32.9		32.9		67.3	
Cobalt	350	5.4		mg/kg	2.8	B	11.7	12		12.5		11.5		6.32		6.14		23.5		13.2			9.02		9.02		9.79	
Copper	47000	560	920	mg/kg	44.9		184	79.6		16.5		11.9		60.7		215		666	J	153			180		180		133	
Iron	820000	7000		mg/kg			33900	31800		17800		10800		29300		38600		167000	J	34800			55200		55200		45700	
Lead	800		280	mg/kg	428	J	108	61.6		23.4		11.9		237		1400		272		71.6	J		70.4		70.4		325	
Magnesium				mg/kg			8400	8610		1690		2350		5390		13500		1960		5840			1390		1390		11600	
Manganese	26000	560		mg/kg			280	273		362		71.3		546		511		1040		269			306		306		303	
Nickel	22000	520		mg/kg	6.1	J	28.7	30.5		20.8		21		15.6		8.86		58.9		26.2			23.5		23.5		31.8	
Potassium				mg/kg			6930	7890		881		1080		1470		586		655	J	1330			819		819		834	
Selenium	5800	10.4	5.2	mg/kg	20.3		3.67	4.9		1.98	J	1.03	J	2.06	J	10.6		12.6	J	12.5			5.85		5.85		16.8	
Silver	5800	16		mg/kg	0.8	B	1.07	2.57		0.492	J	0.193	J	0.286	J	3.01		0.842	J	5.69			1.15		1.15		12.4	
Sodium				mg/kg	420		267	339		56.2	J	74.6	J	339		300		65.5	J	160			70.3	J	70.3		143	
Thallium	12	0.28	2.8	mg/kg	0.4	U	2.1	3.81		3.58	U	1.12	J	1.2	J	1.6	J	16.3	R	2.12	J		2.91	U	2.91		2	
Tin	700000	60000		mg/kg	2810																							
Vanadium	5800	1720		mg/kg	14.9	J	68.3	63.6		35.3		40.5		37.9		10.4		72.2	J	59.9			47.6		47.6		68.9	
Zinc	350000	7400		mg/kg	14.2	J	91.6	58.1		99.5		50.6		150		3420		71.7	J	446			219		219		1590	
Mercury	46	0.66	2	mg/kg	19.9	L	24.1	12		0.0588	J	0.114	U	0.438		0.0195	J	0.048	J	2.68			0.598		0.598		3.06	
Pesticides																												
4,4'-DDD	9.6	0.15		mg/kg	580	J	30	32		2		1		0.25		0.035		0.021	U				8.2		8.2		8.2	
4,4'-DDE	9.3	0.22		mg/kg	130	UJ	1.7	1.5		0.17		0.024		0.9		0.073		0.021	U				7.2		7.2		4.5	
4,4'-DDT	8.5	1.54		mg/kg	1400	J	9	35		0.68		1.2	J	1.6		0.077	U	0.021	U				2.3	U	2.3		75	
Aldrin	0.18	0.003		mg/kg	64	UJ	0.072	0.0036	U	0.00081	U	0.008	U	0.0035	U	0.012	U	0.021	U	0.11	U		0.0036	U	0.0036		0.24	
Alpha-BHC	0.36	0.00084		mg/kg	84	J	0.91	0.88		0.051		0.36		0.028		0.012	U	0.021	U				0.26		0.26		0.38	
Beta-BHC	1.3	0.003		mg/kg	64	UJ	0.24	0.28		0.00081	U	0.033		0.44		0.1		0.021	U				1.4		1.4		0.51	
Chlordane				mg/kg	640	UJ																						
cis-Chlordane	500	9.8		mg/kg			0.072	0.0036	U	0.00081	U	0.008	U	0.0035	U	0.012	U	0.021	U	0.11	U		0.0036	U	0.0036		0.24	
Delta-BHC				mg/kg	64	UJ	0.72	0.087		0.00081	U	0.013		0.0046		0.012	U	0.021	U	0.11	U		0.042		0.042		0.24	
Dieldrin	0.14	0.00142		mg/kg	130	UJ	0.072	0.0036	U	0.00081	U	0.008	U	0.0035	U	0.012	U	0.021	U	0.11	U		0.0036	U	0.0036		0.24	
Endosulfan I				mg/kg	64	UJ	0.072	0.0036	U	0.00081	U	0.008	U	0.0035	U	0.012	U	0.021	U	0.11	U		0.0036	U	0.0036		0.24	
Endosulfan II				mg/kg	130	UJ	0.072	0.0036	U	0.00081	U	0.008	U	0.0035	U	0.012	U	0.021	U	0.11	U		0.0036	U	0.0036		0.24	
Endosulfan Sulfate	4900	42		mg/kg	130	UJ	0.072	0.0036	U	0.00081	U	0.008	U	0.0035	U	0.012	U	0.021	U	0.11	U		0.0036	U	0.0036		0.24	
Endrin	250	1.84	1.62	mg/kg	130	UJ	0.072	0.0036	U	0.00081	U	0.008	U	0.0035	U	0.012	U	0.021	U	0.11	U		0.0036	U	0.0036		0.24	
Endrin Aldehyde				mg/kg	130	UJ	0.072	0.0036	U	0.00081	U	0.008	U	0.0035	U	0.012	U	0.021	U	0.11	U		0.0036	U	0.0036		0.24	
Endrin Ketone				mg/kg			0.072	0.0036	U	0.00081	U	0.008	U	0.0035	U	0.012	U	0.021	U	0.11	U		0.0036	U	0.0036		0.24	
Gamma-BHC (Lindane)	2.5	0.0048	0.024	mg/kg	64	UJ	0.44	0.49		0.18		0.026		0.011		0.012	U	0.021	U				0.099	J	0.045		0.13	
Gamma-Chlordane				mg/kg			0.072	0.0036	U	0.00081	U	0.008	U	0.0035	U	0.012	U	0.021	U	0.11	U		0.0036	U	0.0036		0.24	
Heptachlor	0.63	0.0024	0.66	mg/kg	64	UJ	0.072	0.0036	U	0.00081	U	0.008	U	0.0035	U	0.012	U	0.021	U	0.11	U		0.0036	U	0.0036		0.24	
Heptachlor Epoxide	0.33	0.00056	0.082	mg/kg	64	UJ	0.072	0.0036	U	0.00081	U	0.008	U	0.0035	U	0.012	U	0.021	U	0.11	U		0.0036	U	0.0036		0.24	
Methoxychlor	4100	40	44	mg/kg	640	UJ	1	0.5		0.0016	U	0.087		0.0069	U	0.023	U	0.041	U				0.2	J	0.7		0.46	
Toxaphene	2.1	0.22	9.2	mg/kg	6400	UJ	1.8	0.092	U	0.021	U	0.2	U	0.09	U	0.3	U	0.53	U				2.7	U	2.7		6.1	
Aroclor-1016	27	0.42		mg/kg	110	UJ																						
Aroclor-1221	0.83	0.0016		mg/kg	110	UJ																						
Aroclor-1232	0.72	0.0016		mg/kg	110	UJ																						
Aroclor-1242	0.95	0.024		mg/kg	110	UJ																						
Aroclor-1248	0.94	0.024		mg/kg	110	U																						

Table 6. SWMU 17 Soil Analytical Results
RCRA Facility Investigation Report
Honeywell Delaware Valley Works
Claymont, Delaware
Wood Project No. 3482210786

Parameter	Location		SM17-GP01-01		SM17-SB01		SM17-SB01		SM17-SB01		SM17-SB01		SM17-SB02		SM17-SB03		SM17-SB04		SM17-SS02		SM17-SS03		SM17-SS04			
	Sample ID	Sample Date	SM17-GP01-010430033	4/30/2003	SM17-SB1-(0-1)_072915	7/29/2015	SM17-SB1-SS_072215	7/22/2015	SM17-SB1-(4-5)_072215	7/22/2015	SM17-SB1-(10-11)_072915	7/29/2015	SM17-SB2-SS_082015	8/20/2015	SM17-SB3-(1.5-1.8)_082015	8/20/2015	SM17-SB4-(1.3-1.7)_082015	8/20/2015	SM17-SS2_090815	9/8/2015	SM17-SS3_082015	8/20/2015	SM17-SS4_090815	9/8/2015		
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual		
n-Nitrosomorpholine	0.34	0.00056		mg/kg	84	U																				
n-Nitrosopiperidine	0.24	0.00088		mg/kg	84	U																				
n-Nitrosopyrrolidine	1.1	0.00028		mg/kg	84	U																				
O,O,O-Triethyl Phosphorothioate				mg/kg	84	U																				
o-Toluidine	140	0.04		mg/kg	84	U																				
Pentachlorobenzene	930	0.48		mg/kg	84	U																				
Pentachloronitrobenzene	13	0.03		mg/kg	84	U																				
Pentachlorophenol	4	0.00114	0.028	mg/kg	210	U	0.19	U	1.8	U	0.21	U	0.2	U	0.18	U	0.58	U	3.3	U	0.18	U	0.86	U	0.19	U
Phenacetin	1000	0.194		mg/kg	84	U																				
Phenanthrene				mg/kg	84	U	3.2		0.92		0.043		0.025		0.12		0.16		1.3		0.56		0.66		0.62	
Phenol	250000	66		mg/kg	12	J	36		0.35	U	13		8.4		0.035	U	0.11	U	0.64	U	0.16		0.17	U	0.11	
Phorate	160	0.068		mg/kg	84	U																				
p-Phenylenediamine	820	0.108		mg/kg	84	R																				
Pronamide	62000	24		mg/kg	84	U																				
Pyrene	23000	260		mg/kg	84	U	0.27		0.081	J	0.009	J	0.007	J	0.18		0.063		1.3		1		1.2		0.65	
Pyridine	1200	0.136		mg/kg	10	J																				
Quinoline, 4-Nitro-1-Oxide-				mg/kg	84	U																				
Safrole	10	0.00118		mg/kg	84	U																				
Thionazine				mg/kg	84	U																				
Thiopyrophosphoric Acid ((Ho)2P(S)2O), Tetraethyl	410	0.104		mg/kg	84	U																				
Total Aramite	92	0.3		mg/kg	84	U																				
Cyanide, Total	150	0.3	40	mg/kg	1.3																					

Notes:
Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), Industrial Soil Screening Level (SSL) (November 2021)
Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20
Exceeds the EPA RSL, Maximum Contaminant Level (MCL) SSL assuming a DAF of 20
Blanks indicate RSL not established or constituent not analyzed
RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0
U = undetected
J = estimated value
J+ = estimated biased high
J- = estimated biased low
R = rejected
MG/KG - milligram per kilogram
SWMU = Solid Waste Management Unit
RCRA = Resource Conservation and Recovery Act
Sample depth shown in Sample ID (e.g., SBBF3-04_6-8 indicates 6 to 8-foot sample)
DUP = Duplicate sample
Exceedances shown may exceed one or more criteria if available

Table 7. SWMU 18 Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location			SM18-TP08-01		SM18-TP09-01		SM18-TP09-01		
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	Result	Qual	Result	Qual	Result	Qual
Metals										
Aluminum	1100000	600000		mg/kg			11000			
Antimony	470	7	5.4	mg/kg			0.8	B		
Arsenic	3	0.03	5.8	mg/kg			11.4			
Barium	220000	3200	1640	mg/kg			79.9			
Beryllium	2300	380	64	mg/kg			0.7			
Cadmium	100	2.8	7.6	mg/kg			0	U		
Calcium				mg/kg			1920			
Chromium			3600000	mg/kg			26.3			
Cobalt	350	5.4		mg/kg			8.3			
Copper	47000	560	920	mg/kg			27.2			
Iron	820000	7000		mg/kg			23400	J		
Lead	800		280	mg/kg			40.4	J		
Magnesium				mg/kg			2030			
Manganese	26000	560		mg/kg			200	J		
Nickel	22000	520		mg/kg			11.8	J		
Potassium				mg/kg			823	J		
Selenium	5800	10.4	5.2	mg/kg			0.5	U		
Silver	5800	16		mg/kg			0.2	U		
Sodium				mg/kg			93.4	B		
Thallium	12	0.28	2.8	mg/kg			0.4	U		
Vanadium	5800	1720		mg/kg			30.3	J		
Zinc	350000	7400		mg/kg			45	J		
Mercury	46	0.66	2	mg/kg			0.1	L		
Pesticides										
4,4'-DDD	9.6	0.15		mg/kg			1.9	J		
4,4'-DDE	9.3	0.22		mg/kg			0.61	J		
4,4'-DDT	8.5	1.54		mg/kg			2	J		
Aldrin	0.18	0.003		mg/kg			0.1	U		
Alpha-BHC	0.36	0.00084		mg/kg			0.1	UJ		
Beta-BHC	1.3	0.003		mg/kg			0.11	J		
Chlordane				mg/kg			1	U		
cis-Chlordane	500	9.8		mg/kg			0.1	U		
Delta-BHC				mg/kg			0.1	U		
Dieldrin	0.14	0.00142		mg/kg			0.21	U		
Endosulfan I				mg/kg			0.1	U		
Endosulfan II				mg/kg			0.21	U		
Endosulfan Sulfate	4900	42		mg/kg			0.21	U		
Endrin	250	1.84	1.62	mg/kg			0.21	U		
Endrin Aldehyde				mg/kg			0.21	U		
Endrin Ketone				mg/kg			0.21	U		
Gamma-BHC (Lindane)	2.5	0.0048	0.024	mg/kg			0.1	U		
Gamma-Chlordane				mg/kg						
Heptachlor	0.63	0.0024	0.66	mg/kg			0.1	U		
Heptachlor Epoxide	0.33	0.00056	0.082	mg/kg			0.1	U		
Methoxychlor	4100	40	44	mg/kg			1	U		
Toxaphene	2.1	0.22	9.2	mg/kg			10	U		
trans-Chlordane	500	28		mg/kg			0.1	U		
Aroclor-1016	27	0.42		mg/kg			0.021	UJ		
Aroclor-1221	0.83	0.0016		mg/kg			0.021	UJ		
Aroclor-1232	0.72	0.0016		mg/kg			0.021	UJ		
Aroclor-1242	0.95	0.024		mg/kg			0.021	UJ		
Aroclor-1248	0.94	0.024		mg/kg			0.021	UJ		
Aroclor-1254	0.97	0.04		mg/kg			0.021	UJ		
Aroclor-1260	0.99	0.11		mg/kg			0.021	UJ		
Aroclor-1262				mg/kg						
Aroclor-1268				mg/kg						
Volatile Organic Compounds										
1,1,1,2-Tetrachloroethane	8.8	0.0044		mg/kg	0.48	U			0.0046	U
1,1,1-Trichloroethane	36000	56	1.4	mg/kg	0.48	U			0.0046	U
1,1,2,2-Tetrachloroethane	2.7	0.0006		mg/kg	1.6				0.0046	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	28000	520		mg/kg	0.48	U			0.0046	U
1,1,2-Trichloroethane	5	0.00178	0.032	mg/kg	0.28	J			0.0046	U
1,1-Dichloroethane	16	0.0156		mg/kg	0.48	U			0.0014	J
1,1-Dichloroethene	1000	2	0.05	mg/kg	0.48	U			0.0046	U
1,1-Dichloropropene				mg/kg	0.48	U			0.0046	U
1,2,3-Trichlorobenzene	930	0.42		mg/kg	0.48	U			0.0046	U
1,2,3-Trichloropropane	0.11	0.000064		mg/kg	0.48	U			0.0046	U
1,2,4-Trichlorobenzene	110	0.068	4	mg/kg	0.48	U			0.0046	U
1,2,4-Trimethylbenzene	1800	1.62		mg/kg	0.48	U			0.0046	U
1,2-Dibromo-3-Chloropropane	0.064	0.000028	0.00172	mg/kg	0.48	U			0.0046	U
1,2-Dibromoethane	0.16	0.000042	0.00028	mg/kg	0.48	UJ			0.0046	U
1,2-Dichlorobenzene	9300	6	11.6	mg/kg	2.5				0.0023	J
1,2-Dichloroethane	2	0.00096	0.028	mg/kg	0.46	J			0.02	
1,2-Dichloroethene (Total)				mg/kg	0.21	J			0.014	
1,2-Dichloropropane	11	0.0056	0.034	mg/kg	0.48	U			0.0046	U
1,3,5-Trimethylbenzene	1500	1.74		mg/kg	0.48	U			0.0046	U
1,3-Dichlorobenzene				mg/kg	0.48	U			0.0046	U
1,3-Dichloropropane	23000	2.6		mg/kg	0.48	U			0.0046	U
1,4-Dichlorobenzene	11	0.0092	1.44	mg/kg	3				0.0046	U
1,4-Dioxane	24	0.00188		mg/kg	24	R			2.3	L
2,2-Dichloropropane				mg/kg	0.48	U			0.0046	U
2-Butanone	190000	24		mg/kg	0.48	R			0.0046	R
2-Chloroethyl Vinyl Ether				mg/kg	0.48	U			0.0046	U
2-Chlorotoluene	23000	4.6		mg/kg	0.48	U			0.0046	U
2-Hexanone	1300	0.176		mg/kg	0.48	U			0.0046	U

Table 7. SWMU 18 Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location			SM18-TP08-01		SM18-TP09-01		SM18-TP09-01		
	Industrial SSL	Risk-Based SSL	MCL-Based SSL	Sample ID	Sample Date	Sample ID	Sample Date	Sample ID	Sample Date	
		DAF-20	DAF-20	SM18-TP08-010428031	4/28/2003	SM18-TP09-010425031	4/25/2003	SM18-TP09-010428031	4/28/2003	
				Units	Result	Qual	Result	Qual	Result	Qual
4-Chlorotoluene	23000	4.8		mg/kg	0.48	U			0.0046	U
4-Methyl-2-Pentanone	140000	28		mg/kg	0.48	U			0.0046	U
Acetone	1100000	74		mg/kg	0.48	R			0.012	B
Acrolein	0.6	0.000168		mg/kg	0.48	R			0.0046	R
Acrylonitrile	1.1	0.00022		mg/kg	0.48	U			0.0046	U
Allyl Chloride	3.2	0.0046		mg/kg	0.48	U			0.0046	U
Benzene	5.1	0.0046	0.052	mg/kg	0.48	U			0.0046	U
Bromobenzene	1800	0.84		mg/kg	0.48	U			0.0046	U
Bromochloromethane	630	0.42		mg/kg	0.48	U			0.0046	U
Bromodichloromethane	1.3	0.00072	0.44	mg/kg	0.48	U			0.0046	U
Bromoform	86	0.0174	0.42	mg/kg	0.48	U			0.0046	U
Bromomethane	30	0.038		mg/kg	0.48	U			0.0046	U
Butylbenzene	58000	64		mg/kg	0.48	U			0.0046	U
Carbon Disulfide	3500	4.8		mg/kg	0.34	J			0.0012	J
Carbon Tetrachloride	2.9	0.0036	0.038	mg/kg	13				0.0046	U
Chlorobenzene	1300	1.06	1.36	mg/kg	7.5				0.0046	U
Chloroethane	23000	48		mg/kg	0.48	U			0.0019	J
Chloroform	1.4	0.00122	0.44	mg/kg	8.2				0.014	B
Chloromethane	460	0.98		mg/kg	0.48	U			0.0046	U
Chloroprene	0.044	0.000196		mg/kg	0.48	U			0.0046	U
cis-1,2-Dichloroethene	2300	0.22	0.42	mg/kg	0.2	J			0.014	
cis-1,3-Dichloropropene				mg/kg	0.48	U			0.0046	U
cis-1,4-Dichloro-2-Butene	0.032	0.0000124		mg/kg	0.48	U			0.0046	U
Cyclohexane	27000	260		mg/kg						
Dibromochloromethane	39	0.0046	0.42	mg/kg	0.48	U			0.0046	U
Dibromomethane	99	0.042		mg/kg	0.48	U			0.0046	U
Dichlorodifluoromethane	370	6		mg/kg	0.48	U			0.0046	U
Ethyl Cyanide				mg/kg	1.9	R			0.018	R
Ethyl Methacrylate	7600	3		mg/kg	0.48	U			0.0046	U
Ethylbenzene	25	0.034	15.6	mg/kg	0.48	U			0.0046	U
Hexachlorobutadiene	5.3	0.0054		mg/kg	0.48	U			0.0046	U
Iodomethane				mg/kg	0.48	U			0.0046	U
Isobutanol	350000	24		mg/kg	24	R			0.23	R
Isopropylbenzene	9900	14.8		mg/kg	0.48	U			0.0046	U
m&p-Xylenes				mg/kg	0.48	U			0.0046	U
Methacrylonitrile	100	0.0086		mg/kg	0.48	R			0.0046	U
Methyl Acetate	1200000	82		mg/kg						
Methyl Methacrylate	19000	6		mg/kg	0.48	U			0.0046	U
Methyl Tert-Butyl Ether	210	0.064		mg/kg	0.48	U			0.0046	U
Methylcyclohexane				mg/kg						
Methylene Chloride	1000	0.058	0.026	mg/kg	0.48	U			0.0046	U
Naphthalene	8.6	0.0076		mg/kg	0.48	U			0.0046	U
n-Propylbenzene	24000	24		mg/kg	0.48	U			0.0046	U
o-Xylene	2800	3.8		mg/kg	0.48	U			0.0046	U
p-Isopropyltoluene				mg/kg	0.48	U			0.0046	U
Sec-Butylbenzene	120000	118		mg/kg	0.48	U			0.0046	U
Styrene	35000	26	2.2	mg/kg	0.48	U			0.0046	U
Tert-Butylbenzene	120000	32		mg/kg	0.48	U			0.0046	U
Tetrachloroethene	100	0.102	0.046	mg/kg	0.73	J			0.0027	J
Tetrahydrofuran	95000	15		mg/kg	4.8	U			0.046	U
Toluene	47000	15.2	13.8	mg/kg	0.48	U			0.0046	U
Total Xylenes	2500	3.8	198	mg/kg	0.48	U			0.0046	U
trans-1,2-Dichloroethene	300	0.42	0.62	mg/kg	0.48	U			0.0046	U
trans-1,3-Dichloropropene				mg/kg	0.48	U			0.0046	U
trans-1,4-Dichloro-2-Butene	0.032	0.0000124		mg/kg	0.48	U			0.0046	U
Trichloroethene	6	0.0036	0.036	mg/kg	0.48	U			0.0046	U
Trichlorofluoromethane	350000	66		mg/kg	0.48	U			0.0046	U
Vinyl Acetate	3800	1.74		mg/kg	0.48	U			0.0046	U
Vinyl Chloride	1.7	0.00013	0.0138	mg/kg	0.48	U			0.0046	U
Sem-Volatile Organic Compounds										
1,1'-Biphenyl	200	0.174		mg/kg			0.41	U		
1,2,4,5-Tetrachlorobenzene	35	0.0158		mg/kg						
2,2'-Oxybis(1-Chloropropane)	47000	5.2		mg/kg			0.41	U		
2,3,4,6-Tetrachlorophenol	25000	3.6		mg/kg						
2,4,5-Trichlorophenol	82000	80		mg/kg			1	U		
2,4,6-Trichlorophenol	210	0.08		mg/kg			0.41	U		
2,4-Dichlorophenol	2500	0.46		mg/kg			0.41	U		
2,4-Dimethylphenol	16000	8.4		mg/kg			0.41	U		
2,4-Dinitrophenol	1600	0.88		mg/kg			1	U		
2,4-Dinitrotoluene	7.4	0.0064		mg/kg			0.41	U		
2,6-Dinitrotoluene	1.5	0.00134		mg/kg			0.41	U		
2-Chloronaphthalene	60000	78		mg/kg			0.41	UJ		
2-Chlorophenol	5800	1.78		mg/kg			0.41	U		
2-Methylnaphthalene	3000	3.8		mg/kg			0.41	UJ		
2-Methylphenol	41000	15		mg/kg			0.41	U		
2-Nitroaniline	8000	1.6		mg/kg			1	U		
2-Nitrophenol				mg/kg			0.41	U		
3&4-Methylphenol				mg/kg						
3,3'-Dichlorobenzidine	5.1	0.0164		mg/kg			0.41	U		
3-Nitroaniline				mg/kg			1	U		
4,6-Dinitro-2-Methylphenol	66	0.052		mg/kg			1	U		
4-Bromophenyl Phenyl Ether				mg/kg			0.41	U		
4-Chloro-3-Methylphenol	82000	34		mg/kg			0.41	U		
4-Chloroaniline	11	0.0032		mg/kg			0.41	U		
4-Chlorophenyl Phenyl Ether				mg/kg			0.41	U		
4-Methylphenol	16000	6		mg/kg			0.41	U		

Table 7. SWMU 18 Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location			SM18-TP08-01		SM18-TP09-01		SM18-TP09-01	
	Industrial SSL	Risk-Based SSL	MCL-Based SSL	Sample ID	Sample Date	Sample ID	Sample Date	Sample ID	Sample Date
4-Nitroaniline	110	0.032		SM18-TP08-010428031	4/28/2003	SM18-TP09-010425031	4/25/2003	SM18-TP09-010428031	4/28/2003
4-Nitrophenol									
Acenaphthene	45000	110							
Acenaphthylene									
Acetophenone	120000	11.6							
Anthracene	230000	1160							
Atrazine	10	0.004	0.038						
Benzaldehyde	820	0.082							
Benzo(A)Anthracene	21	0.22							
Benzo(A)Pyrene	2.1	0.58	4.8						
Benzo(B)Fluoranthene	21	6							
Benzo(G,H,I)perylene									
Benzo(K)Fluoranthene	210	58							
bis-(2-Chloroethoxy)Methane	2500	0.26							
bis-(2-Chloroethyl)Ether	1	0.000072							
bis-(2-Chloroisopropyl)Ether									
bis-(2-Ethylhexyl)Phthalate	160	26	28						
Butylbenzyl Phthalate	1200	4.8							
Caprolactam	400000	50							
Carbazole									
Chrysene	2100	180							
Dibenzo(a,h)Anthracene	2.1	1.92							
Dibenzofuran	1200	3							
Diethyl Phthalate	660000	122							
Dimethyl Phthalate									
Di-n-Butyl Phthalate	82000	46							
Di-n-Octyl Phthalate	8200	1140							
Fluoranthene	30000	1780							
Fluorene	30000	108							
Hexachlorobenzene	0.96	0.0024	0.26						
Hexachlorobutadiene	5.3	0.0054							
Hexachlorocyclopentadiene	7.5	0.026	3.2						
Hexachloroethane	8	0.004							
Indeno(1,2,3-Cd)Pyrene	21	19.6							
Isophorone	2400	0.52							
Naphthalene	8.6	0.0076							
Nitrobenzene	22	0.00184							
n-Nitroso-di-n-Propylamine	0.33	0.000162							
n-Nitrosodiphenylamine	470	1.34							
Pentachlorophenol	4	0.00114	0.028						
Phenanthrene									
Phenol	250000	66							
Pyrene	23000	260							

Notes:
 Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), Industrial Soil Screening Level (SSL) (November 2021)
 Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20
 Exceeds the EPA RSL, Maximum Contaminant Level (MCL) SSL assuming a DAF of 20
 Blanks indicate RSL not established or constituent not analyzed
 RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0
 U = undetected
 J = estimated value
 J+ = estimated biased high
 J- = estimated biased low
 R = rejected
 MG/KG - milligram per kilogram
 SWMU = Solid Waste Management Unit
 RCRA = Resource Conservation and Recovery Act
 Sample depth shown in Sample ID (e.g., SBBF3-04_6-8 indicates 6 to 8-foot sample)
 DUP = Duplicate sample
 Exceedances shown may exceed one or more criteria if available

Table 8. SWMU 19 Soil Analytical Results
RCRA Facility Investigation Report
Honeywell Delaware Valley Works
Claymont, Delaware
Wood Project No. 3482210786

Parameter	Location		SM19-GP06-01	SM19-GP08-01	SM19-GP09-01	SM19-GP10-01	SM19-GP10-02	SM19-GP10-03	SM19-GP11-01	SM19-GP12-01	SM19-GP12-02	SM19-GP12-03	SM19-GP13-01
	Sample ID	Sample Date	37982-0004-01 11/3/2004	37982-0020-11 11/19/2004	37982-0020-12 11/19/2004	37982-0021-01 11/19/2004	37982-0021-02 11/19/2004	37982-0021-03 11/19/2004	37982-0021-04 11/19/2004	37982-0021-05 11/19/2004	37982-0021-06 11/19/2004	37982-0021-07 11/19/2004	37982-0022-02 11/22/2004
Metals													
Aluminum	1100000		600000										
Antimony	470	7	5.4										
Arsenic	3	0.03	5.8		0.856 UL	0.884 UL	0.955 UL	0.879 UL	0.855 UL	0.911 UL	0.927 UL	0.864 UL	0.899 UL
Barium	220000	3200	1640										
Beryllium	2300	380	64										
Boron	230000	260											
Cadmium	100	2.8	7.6		0.22 J	0.227 J	0.334 J	0.158 J	0.101 J	0.165 J	0.238 J	0.3 J	0.068 UJ
Calcium													
Chromium			3600000										
Cobalt	350	5.4			32.8 J	32.2 J	37.6 J	39.5 J	7.34 J	44.1 J	30 J	38 J	6.8 J
Copper	47000	560	920										
Iron	820000	7000											
Lead	800		280										
Magnesium													
Manganese	26000	560											
Nickel	22000	520			17.7 J	10.5 J	5.35 J	15.1 J	7.99 J	13.3 J	15.2 J	13.1 J	9.2 J
Potassium													
Selenium	5800	10.4	5.2		0.995 U	1.03 U	1.11 U	1.02 U	0.994 U	1.06 U	1.08 U	1 U	1.04 U
Silver	5800	16			0.15 U	0.155 U	0.833	0.154 U	0.15 U	0.16 U	0.163 U	0.152 U	0.158 U
Sodium													
Thallium	12	0.28	2.8										
Tin	700000	60000											
Vanadium	5800	1720											
Zinc	350000	7400											
Mercury	46	0.66	2		0.0252 J	0.0099 B	0.0972 J	0.0108 B	0.0078 B	0.0146 B	0.0383 J	0.0141 B	0.0077 B
Pesticides													
4,4'-DDD	9.6	0.15											
4,4'-DDE	9.3	0.22											
4,4'-DDT	8.5	1.54											
Aldrin	0.18	0.003			0.4 U	0.0004 U	0.4 U	0.43 UJ	0.0004 U	0.39 U	0.00081 U	0.0042 U	0.0004 U
Alpha-BHC	0.36	0.00084			0.21 U	0.00021 U	0.22 UJ	0.21 U	0.2 U	0.00042 U	0.016	0.0016	0.0005 J
Beta-BHC	1.3	0.003			0.21 U	0.00021 U	0.22 UJ	0.21 U	0.2 U	0.00042 U	0.018	0.00021 U	0.00044 J
Chlordane					4.9 U	0.0049 U	0.0049 U	5.2 UJ	4.9 U	0.0099 U	0.051 U	0.0049 U	0.0049 U
cis-Chlordane	500	9.8											
Delta-BHC					0.26 U	0.00026 U	0.00026 U	0.27 UJ	0.26 U	0.00052 U	0.0044 J	0.00025 U	0.00026 U
Dieldrin	0.14	0.00142			0.4 U	0.0004 U	0.0004 U	0.43 UJ	0.4 U	0.00081 U	0.0042 U	0.0004 U	0.0004 U
Endosulfan I					0.21 U	0.00021 U	0.22 UJ	0.21 U	0.22 UJ	0.00042 U	0.0022 U	0.00021 U	0.00021 U
Endosulfan II					0.49 U	0.00049 U	0.00049 U	0.52 UJ	0.49 U	0.00099 U	0.0051 U	0.00049 U	0.00049 U
Endosulfan Sulfate	4900	42			0.4 U	0.0004 U	0.43 UJ	0.4 U	0.39 U	0.00081 U	0.0042 U	0.0004 U	0.0004 U
Endrin	250	1.84	1.62		1.1 U	0.0011 U	0.0011 U	1.2 UJ	1.1 U	0.0022 U	0.011 U	0.0011 U	0.0011 U
Endrin Aldehyde					1.5 U	0.0015 U	0.0015 U	1.6 UJ	1.5 U	0.003 U	0.015 U	0.0015 U	0.0015 U
Endrin Ketone													
Gamma-BHC (Lindane)	2.5	0.0048	0.024		0.21 U	0.00021 U	0.00021 U	0.22 UJ	0.21 U	0.00042 U	0.0022 U	0.00021 U	0.00021 U
Gamma-Chlordane													
Heptachlor	0.63	0.0024	0.66		0.21 U	0.00021 U	0.00021 U	0.22 UJ	0.21 U	0.00042 U	0.0022 U	0.00021 U	0.00021 U
Heptachlor Epoxide	0.33	0.00056	0.082		0.28 U	0.00028 U	0.00028 U	0.3 UJ	0.27 U	0.00057 U	0.0029 U	0.00028 U	0.00028 U
Kepone	0.23	0.0024			2.8 U	0.0028 UJ	0.0028 UJ	3 UJ	2.8 U	0.0057 U	0.029 UJ	0.0028 UJ	0.0028 UJ
Methoxychlor	4100	40	44		2.1 U	0.0021 UJ	0.0021 UJ	2.2 UJ	2.1 U	0.0042 U	0.022 UJ	0.0021 UJ	0.0021 UJ
Toxaphene	2.1	0.22	9.2		13 U	0.013 U	0.013 U	14 UJ	13 U	0.027 U	0.14 U	0.013 U	0.013 U
trans-Chlordane	500	28											
Volatile Organic Compound													
2,4,5-T	8200	1.36											
2,4,5-TP (Silvex)	6600	1.22	0.56										
Dinoseb	820	2.6	1.24										
1,1,1,2-Tetrachloroethane	8.8	0.0044			0.001 U	0.001 U	1.3 U	2 U	0.12 U	0.001 U	0.12 U	0.049 U	0.001 U
1,1,1-Trichloroethane	36000	56	1.4		0.001 U	0.001 U	1.3 U	2 U	0.12 U	0.001 U	0.12 U	0.049 U	0.001 U
1,1,1,2,2-Tetrachloroethane	2.7	0.0006			0.001 U	0.001 U	1.3 U	2 U	0.12 U	0.001 U	0.12 U	0.049 U	0.001 U
1,1,1,2-Trichloro-1,2,2-Trifluoroethane	28000	520			0.19 J	0.002 U	2.5 U	4 U	0.24 U	0.002 U	0.24 U	0.098 U	0.002 U
1,1,2-Trichloroethane	5	0.00178	0.032		0.001 U	0.001 U	1.3 U	2 U	0.12 U	0.001 U	0.12 U	0.049 U	0.001 U
1,1-Dichloroethane	16	0.0156			0.001 U	0.001 U	1.3 U	2 U	0.12 U	0.001 U	0.12 U	0.049 U	0.001 U
1,1-Dichloroethene	1000	2	0.05		0.001 U	0.001 U	1.3 U	2 U	0.12 U	0.001 U	0.12 U	0.049 U	0.001 U
1,1-Dichloropropene					0.001 U	0.001 U	1.3 U	2 U	0.12 U	0.001 U	0.12 U	0.049 U	0.001 U
1,2,3-Trichlorobenzene	930	0.42			0.001 U	0.001 U	1.3 U	2 U	0.12 U	0.001 U	0.12 U	0.049 U	0.001 U
1,2,3-Trichloropropane	0.11	0.000064			0.001 U	0.001 U	1.3 U	2 U	0.12 U	0.001 U	0.12 U	0.049 U	0.001 U
1,2,4-Trichlorobenzene	110	0.068	4		0.001 U	0.001 U	1.3 U	2 U	0.12 U	0.001 U	0.12 U	0.049 U	0.001 U
1,2,4-Trimethylbenzene	1800	1.62			0.001 U	0.001 U	1.3 U	2 U	0.12 U	0.001 U	0.12 U	0.049 U	0.001 U
1,2-Dibromo-3-Chloropropane	0.064	0.000028	0.00172		0.002 U	0.002 U	2.5 U	4 U	0.24 U	0.002 U	0.24 U	0.098 U	0.002 U
1,2-Dibromoethane	0.16	0.000042	0.00028		0.001 U	0.001 U	1.3 U	2 U	0.12 U	0.001 U	0.12 U	0.049 U	0.001 U
1,2-Dichlorobenzene	9300	6	11.6		0.001 U	0.001 U	1.3 U	2 U	0.12 U	0.001 U	0.12 U	0.049 U	0.001 U
1,2-Dichloroethane	2	0.00096	0.028		0.001 U	0.001 U	1.3 U	2 U	0.12 U	0.001 U	0.12 U	0.049 U	0.001 U
1,2-Dichloroethene (Total)													
1,2-Dichloropropane	11	0.0056	0.034		0.001 U	0.001 U	1.3 U	2 U	0.12 U	0.001 U	0.12 U	0.049 U	0.001 U
1,3,5-Trimethylbenzene	1500	1.74			0.001 U	0.001 U	1.3 U	2 U	0.12 U	0.001 U	0.12 U	0.049 U	0.001 U
1,3-Dichlorobenzene					0.001 U	0.001 U	1.3 U	2 U	0.12 U	0.001 U	0.12 U	0.049 U	0.001 U
1,3-Dichloropropane	23000	2.6			0.001 U	0.001 U	1.3 U	2 U	0.12 U	0.001 U	0.12 U	0.049 U	0.001 U
1,4-Dichlorobenzene	11	0.0092	1.44		0.001 U	0.001 U	1.3 U	2 U	0.12 U	0.001 U	0.12 U	0.049 U	0.001 U
1,4-Dioxane	24	0.00188											
2,2-Dichloropropane					0.001 U	0.001 U	1.3 U	2 U	0.12 U	0.001 U	0.12 U	0.049 U	0.001 U

Table 8. SWMU 19 Soil Analytical Results
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Honeywell Delaware Valley Works
Claymont, Delaware
Wood Project No. 3482210786

Parameter	Risk-Based SSL		MCL-Based SSL		Units	SM19-GP06-01 37982-0004-01 11/3/2004		SM19-GP08-01 37982-0020-11 11/19/2004		SM19-GP09-01 37982-0020-12 11/19/2004		SM19-GP10-01 37982-0021-01 11/19/2004		SM19-GP10-02 37982-0021-02 11/19/2004		SM19-GP10-03 37982-0021-03 11/19/2004		SM19-GP11-01 37982-0021-04 11/19/2004		SM19-GP12-01 37982-0021-05 11/19/2004		SM19-GP12-02 37982-0021-06 11/19/2004		SM19-GP12-03 37982-0021-07 11/19/2004		SM19-GP13-01 37982-0022-02 11/22/2004				
	Industrial SSL	DAF-20	DAF-20	DAF-20		Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	
2-Butanone	190000	24			mg/kg			0.004	U	0.004	U	5.1	U	8.1	U	0.47	U	0.004	U	0.47	U	0.2	U			0.004	U		0.58	U
2-Chloroethyl Vinyl Ether					mg/kg																									
2-Chlorotoluene	23000	4.6			mg/kg			0.001	U	0.001	U	1.3	U	2	U	0.12	U	0.001	U	0.12	U	0.049	U			0.001	U		0.14	U
2-Hexanone	1300	0.176			mg/kg			0.003	U	0.003	U	3.8	U	6.1	U	0.35	U	0.003	U	0.35	U	0.15	U			0.003	U		0.43	U
4-Chlorotoluene	23000	4.8			mg/kg			0.001	U	0.001	U	1.3	U	2	U	0.12	U	0.001	U	0.12	U	0.049	U			0.001	U		0.14	U
4-Methyl-2-Pentanone	140000	28			mg/kg			0.003	U	0.003	U	3.8	U	6.1	U	0.35	U	0.003	U	0.35	U	0.15	U			0.003	U		0.43	U
Acetone	1100000	74			mg/kg			0.012	J	0.03		8.9	R	14	R	0.83	R	0.025	L	0.82	R	0.34	R			0.022	J		1	R
Acetonitrile	3400	0.52			mg/kg			0.026	R	0.025	R	32	U	50	U	3	U	0.026	R	2.9	U	1.2	U			0.028	U		3.6	U
Acrolein	0.6	0.000168			mg/kg			0.021	U	0.02	U	25	U	40	U	2.4	U	0.021	U	0.22	U	2.4	U			0.98	U		2.9	U
Acrylonitrile	1.1	0.00022			mg/kg			0.004	U	0.004	U	5.1	U	8.1	U	0.47	U	0.004	U	0.47	U	0.2	U			0.004	U		0.58	U
Allyl Chloride	3.2	0.0046			mg/kg			0.001	U	0.001	U	1.3	U	2	U	0.12	U	0.001	U	0.12	U	0.049	U			0.001	U		0.14	U
Benzene	5.1	0.0046	0.052		mg/kg			0.002	J	0.0005	U	0.63	U	1	U	0.059	U	0.0005	U	0.059	U	0.046	J			0.002	J		0.072	U
Bromobenzene	1800	0.84			mg/kg			0.001	U	0.001	U	1.3	U	2	U	0.12	U	0.001	U	0.12	U	0.049	U			0.001	U		0.14	U
Bromochloromethane	630	0.42			mg/kg			0.001	U	0.001	U	1.3	U	2	U	0.12	U	0.001	U	0.12	U	0.049	U			0.001	U		0.14	U
Bromodichloromethane	1.3	0.00072	0.44		mg/kg			0.001	U	0.001	U	1.3	U	2	U	0.12	U	0.001	U	0.12	U	0.049	U			0.001	U		0.14	U
Bromoform	86	0.0174	0.42		mg/kg			0.001	U	0.001	U	1.3	U	2	U	0.12	U	0.001	U	0.12	U	0.049	U			0.001	U		0.14	U
Bromomethane	30	0.038			mg/kg			0.002	U	0.002	U	2.5	U	4	U	0.24	U	0.002	U	0.24	U	0.098	U			0.002	U		0.29	U
Butylbenzene	58000	64			mg/kg			0.001	U	0.001	U	1.3	U	2	U	0.12	U	0.001	U	0.12	U	0.049	U			0.001	U		0.14	U
Carbon Disulfide	3500	4.8			mg/kg			0.001	U	0.001	U	1.3	U	2	U	0.12	U	0.001	U	0.12	U	0.049	U			0.016			0.14	U
Carbon Tetrachloride	2.9	0.0036	0.038		mg/kg			0.001	U	0.001	U	1.3	U	2	U	0.12	U	0.001	U	0.12	U	0.049	U			0.001	U		0.14	U
Chlorobenzene	1300	1.06	1.36		mg/kg			0.001	U	0.001	U	1000		7100		100		0.001	U	61		16				1.9		110		
Chloroethane	23000	48			mg/kg			0.002	U	0.002	U	2.5	U	4	U	0.24	U	0.002	U	0.24	U	0.098	U			0.002	U		0.29	U
Chloroform	1.4	0.00122	0.44		mg/kg			0.001	U	0.001	U	3.8	J	64		0.41	J	0.001	U	0.16	J	0.075	J			0.011			0.14	U
Chloromethane	460	0.98			mg/kg			0.002	U	0.002	U	2.5	U	4	U	0.24	U	0.002	U	0.24	U	0.098	U			0.002	U		0.29	U
Chloroprene	0.044	0.000196			mg/kg			0.001	U	0.001	U	1.3	U	2	U	0.12	U	0.001	U	0.12	U	0.049	U			0.001	U		0.14	U
cis-1,2-Dichloroethene	2300	0.22	0.42		mg/kg			0.001	U	0.001	U	1.3	U	2	U	0.12	U	0.001	U	0.12	U	0.049	U			0.001	U		0.14	U
cis-1,3-Dichloropropene					mg/kg			0.001	U	0.001	U	1.3	U	2	U	0.12	U	0.001	U	0.12	U	0.049	U			0.001	U		0.14	U
cis-1,4-Dichloro-2-Butene	0.032	0.0000124			mg/kg																									
Cyclohexane	27000	260			mg/kg																									
Dibromochloromethane	39	0.0046	0.42		mg/kg			0.001	U	0.001	U	1.3	U	2	U	0.12	U	0.001	U	0.12	U	0.049	U			0.001	U		0.14	U
Dibromomethane	99	0.042			mg/kg			0.001	U	0.001	U	1.3	U	2	U	0.12	U	0.001	U	0.12	U	0.049	U			0.001	U		0.14	U
Dichlorodifluoromethane	370	6			mg/kg			0.002	U	0.002	U	2.5	U	4	U	0.24	U	0.002	U	0.24	U	0.098	U			0.002	U		0.29	U
Ethane, Pentachloro-	36	0.0062			mg/kg			0.001	U	0.001	U	1.3	U	2	U	0.12	U	0.001	U	0.12	U	0.049	U			0.001	U		0.14	U
Ethyl Cyanide					mg/kg			0.031	U	0.03	U	38	R	61	R	3.5	R	0.031	U	3.5	R	1.5	R			0.033	R		4.3	R
Ethyl Methacrylate	7600	3			mg/kg			0.001	U	0.001	U	1.3	U	2	U	0.12	U	0.001	U	0.12	U	0.049	U			0.001	U		0.14	U
Ethylbenzene	25	0.034	15.6		mg/kg			0.001	U	0.001	U	1.3	U	2	U	0.12	U	0.001	U	0.12	U	0.049	U			0.001	U		0.14	U
Hexachlorobutadiene	5.3	0.0054			mg/kg			0.002	U	0.002	U	2.5	U	4	U	0.24	U	0.002	U	0.24	U	0.098	U			0.002	U		0.29	U
Iodomethane					mg/kg			0.003	U	0.003	U	3.8	U	6.1	U	0.35	U	0.003	U	0.35	U	0.15	U			0.003	U		0.43	U
Isobutanol	350000	24			mg/kg			0.1	R	0.1	U	130	R	200	R	12	R	0.1	R	12	R	4.9	R			0.11	R		14	R
Isopropylbenzene	9900	14.8			mg/kg			0.001	U	0.001	U	1.3	U	2	U	0.12	U	0.001	U	0.12	U	0.049	U			0.001	U		0.14	U
m&p-Xylenes					mg/kg			0.001	U	0.001	U	1.3	U	2	U	0.12	U	0.001	U	0.12	U	0.049	U			0.001	U		0.14	U
Methacrylonitrile	100	0.0086			mg/kg			0.005	U	0.005	U	6.3	U	10	U	0.59	U	0.005	U	0.59	U	0.25	U			0.006	U		0.72	U
Methyl Acetate	1200000	82			mg/kg																									
Methyl Methacrylate	19000	6			mg/kg			0.001	U	0.001	U	1.3	U	2	U	0.12	U	0.001	U	0.12	U	0.049	U			0.001	U		0.14	U
Methyl Tert-Butyl Ether	210	0.064			mg/kg			0.0005	U	0.0005	U	0.63	U	1	U	0.059	U	0.0005	U	0.059	U	0.025	U			0.0006	U		0.072	U
Methylcyclohexane					mg/kg																									
Methylene Chloride	1000	0.058	0.026		mg/kg			0.002	U	0.002	U	2.5	U	4	U	0.24	U	0.002	U	0.24	U	0.098	U			0.003	J		0.29	U
Naphthalene	8.6	0.0076			mg/kg	</																								

Table 8. SWMU 19 Soil Analytical Results
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Parameter	Location				Units	Result	Qual	SM19-GP08-01				SM19-GP09-01				SM19-GP10-01				SM19-GP10-02				SM19-GP10-03				SM19-GP11-01				SM19-GP12-01				SM19-GP12-02				SM19-GP12-03				SM19-GP13-01			
	Sample ID	Sample Date	Industrial SSI	Risk-Based SSL DAF-20				MCL-Based SSL DAF-20	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual									
																																							SM19-GP06-01 37982-0004-01 11/3/2004	SM19-GP08-01 37982-0020-11 11/19/2004	SM19-GP09-01 37982-0020-12 11/19/2004	SM19-GP10-01 37982-0021-01 11/19/2004	SM19-GP10-02 37982-0021-02 11/19/2004	SM19-GP10-03 37982-0021-03 11/19/2004	SM19-GP11-01 37982-0021-04 11/19/2004	SM19-GP12-01 37982-0021-05 11/19/2004	SM19-GP12-02 37982-0021-06 11/19/2004
2,3,4,6-Tetrachlorophenol	25000	3.6		mg/kg			0.41 U		0.41 U		0.43 U		0.41 U		0.4 U		0.41 U		0.42 U		0.4 U		0.41 U		0.42 U		0.4 U		0.41 U		0.41 U		0.47 U														
2,4,5-Trichlorophenol	82000	80		mg/kg			0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.23 U														
2,4,6-Trichlorophenol	210	0.08		mg/kg			0.2 U		0.2 U		0.22 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.23 U														
2,4-Dichlorophenol	2500	0.46		mg/kg			0.2 U		0.2 U		0.22 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.23 U														
2,4-Dimethylphenol	16000	8.4		mg/kg			0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.23 U														
2,4-Dinitrophenol	1600	0.88		mg/kg			4.1 U		4.1 U		4.3 U		4.1 U		4 U		4.1 U		4.2 U		4 U		4.1 U		4.2 U		4 U		4.1 U		4.1 U		4.7 UJ														
2,4-Dinitrotoluene	7.4	0.0064		mg/kg			0.41 U		0.41 U		0.43 UJ		0.41 U		0.4 U		0.41 U		0.42 U		0.4 U		0.41 U		0.42 U		0.4 U		0.41 U		0.41 U		0.47 U														
2,6-Dichlorophenol				mg/kg			0.41 U		0.41 U		0.43 U		0.41 U		0.4 U		0.41 U		0.42 U		0.4 U		0.41 U		0.42 U		0.4 U		0.41 U		0.41 U		0.47 U														
2,6-Dinitrotoluene	1.5	0.00134		mg/kg			0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.23 U														
2-Acetylaminofluorene (TIC)	0.6	0.0015		mg/kg			0.41 U		0.41 U		0.43 U		0.41 U		0.4 U		0.41 U		0.42 U		0.4 U		0.41 U		0.42 U		0.4 U		0.41 U		0.41 U		0.47 U														
2-Chloronaphthalene	60000	78		mg/kg			0.2 U		0.2 U		0.22 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.23 U														
2-Chlorophenol	5800	1.78		mg/kg			0.2 U		0.2 U		1.6 J		0.41 J		0.2 U		0.2 U		0.24 J		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.32 J														
2-Methylnaphthalene	3000	3.8		mg/kg			0.2 U		0.2 U		0.22 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.23 U														
2-Methylphenol	41000	15		mg/kg			0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.23 U														
2-Naphthylamine	1.3	0.004		mg/kg			1 U		1 U		1.1 UJ		1 U		0.99 U		1 U		1.1 U		1 U		1 U		1.1 U		1 U		1 U		1.2 U																
2-Nitroaniline	8000	1.6		mg/kg			0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.23 U														
2-Nitrophenol				mg/kg			0.2 U		0.2 U		0.22 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.23 U														
2-Picoline				mg/kg			0.41 U		0.41 U		0.43 U		0.41 U		0.4 U		0.41 U		0.42 U		0.4 U		0.41 U		0.42 U		0.4 U		0.41 U		0.41 U		0.47 U														
3,3'-Dichlorobenzidine	5.1	0.0164		mg/kg			0.41 U		0.41 U		0.43 U		0.41 U		0.4 U		0.41 U		0.42 U		0.4 U		0.41 U		0.42 U		0.4 U		0.41 U		0.41 U		0.47 U														
3,3'-Dimethylbenzidine	0.21	0.00086		mg/kg			1 U		1 U		1.1 UJ		1 U		0.99 U		1 U		1.1 U		1 U		1 U		1.1 U		1 U		1 U		1.2 U																
3-Methylcholanthrene	0.1	0.044		mg/kg			0.41 U		0.41 U		0.43 U		0.41 U		0.4 U		0.41 U		0.42 U		0.4 U		0.41 U		0.42 U		0.4 U		0.41 U		0.41 U		0.47 U														
3-Nitroaniline				mg/kg			0.41 U		0.41 U		0.43 U		0.41 U		0.4 U		0.41 U		0.42 U		0.4 U		0.41 U		0.42 U		0.4 U		0.41 U		0.41 U		0.47 U														
4,6-Dinitro-2-Methylphenol	66	0.052		mg/kg			1 U		1 U		1.1 U		1 U		0.99 U		1 U		1.1 U		1 U		1 U		1.1 U		1 U		1 U		1.2 U																
4-Aminobiphenyl	0.11	0.0003		mg/kg			1 U		1 U		1.1 U		1 U		0.99 U		1 U		1.1 U		1 U		1 U		1.1 U		1 U		1 U		1.2 U																
4-Bromophenyl Phenyl Ether				mg/kg			0.2 U		0.2 U		0.22 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.23 U														
4-Chloro-3-Methylphenol	82000	34		mg/kg			0.41 U		0.41 U		0.43 U		0.41 U		0.4 U		0.41 U		0.42 U		0.4 U		0.41 U		0.42 U		0.4 U		0.41 U		0.41 U		0.47 U														
4-Chloroaniline	11	0.0032		mg/kg			0.2 U		0.2 U		0.22 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.23 U														
4-Chlorophenyl Phenyl Ether				mg/kg			0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.23 U														
4-Methylphenol	16000	6		mg/kg			0.41 U		0.41 U		0.43 U		0.41 U		0.4 U		0.41 U		0.42 U		0.4 U		0.41 U		0.42 U		0.4 U		0.41 U		0.41 U		0.47 U														
4-Nitroaniline	110	0.032		mg/kg			0.41 U		0.41 U		0.43 U		0.41 U		0.4 U		0.41 U		0.42 U		0.4 U		0.41 U		0.42 U		0.4 U		0.41 U		0.41 U		0.47 U														
4-Nitrophenol				mg/kg			1 U		1 U		1.1 U		1 U		0.99 U		1 U		1.1 U		1 U		1 U		1.1 U		1 U		1 U		1.2 U																
5-Nitro-o-Toluidine	260	0.092		mg/kg			1 U		1 U		1.1 U		1 U		0.99 U		1 U		1.1 U		1 U		1 U		1.1 U		1 U		1 U		1.2 U																
7,12-Dimethylbenz(A)Anthracene	0.0084	0.00198		mg/kg			0.2 U		0.2 U		0.22 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.23 U														
Acenaphthene	45000	110		mg/kg			0.2 U		0.2 U		0.22 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.23 U														
Acenaphthylene				mg/kg			0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.23 U														
Acetophenone	120000	11.6		mg/kg			0.41 U		0.41 U		0.43 U		0.41 U		0.4 U		0.41 U		0.42 U		0.4 U		0.41 U		0.42 U		0.4 U		0.41 U		0.41 U		0.47 U														
Aniline	400	0.092		mg/kg			0.2 U		0.2 U		0.22 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.23 U														
Anthracene	230000	1160		mg/kg			0.2 U		0.2 U		0.22 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.23 U														
Atrazine	10	0.004	0.038	mg/kg			0.2 UJ		0.2 UJ		0.22 UJ		0.2 UJ		0.2 UJ		0.2 UJ		0.2 UJ		0.2 UJ		0.2 UJ		0.2 UJ		0.2 UJ		0.2 UJ		0.2 UJ		0.23 UJ														
Azobenzene	26	0.0186		mg/kg																																											
Benzaldehyde	820	0.082		mg/kg			0.2 U		0.2 U		0.22 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.23 UJ														
Benzenamine, N,N-Dimethyl-4-(Pehnylazo)-	0.5	0.00042		mg/kg			0.41 U		0.41 U		0.43 U		0.41 U		0.4 U		0.41 U		0.42 U		0.4 U		0.41 U		0.42 U		0.4 U		0.41 U		0.41 U		0.47 U														
Benzenethanamine, Alpha, Alpha-Dimethyl-				mg/kg			0.2 UJ		0.2 UJ		0.22 UJ		0.2 UJ		0.2 UJ		0.2 UJ		0.2 UJ		0.2 UJ		0.2 UJ		0.2 UJ		0.2 UJ		0.2 UJ		0.2 UJ		0.23 UJ														
Benzidine	0.01	0.0000056		mg/kg			4.1 U		4.1 U		4.3 UJ		4.1 U		4 U		4.1 U		4.2 U		4 U		4.1 U		4.2 U		4 U		4.1 U		4.1 U		4.7 U														
Benzo(A)Anthracene	21	0.22		mg/kg			0.2 U		0.2 U		0.46 J		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.27 J														
Benzo(A)Pyrene	2.1	0.58	4.8	mg/kg			0.2 U		0.2 U		0.27 J		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.23 U														
Benzo(B)Fluoranthene	21	6		mg/kg			0.2 U		0.2 U		0.51 J		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.29 J														
Benzo(G,H,I)perylene				mg/kg			0.2 U		0.2 U		0.22 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.2 U		0.23 U														
Benzo(K)Fluoranthene	210	58		mg/kg			0.2 U		0.2 U																																						

Table 8. SWMU 19 Soil Analytical Results
RCRA Facility Investigation Report
Honeywell Delaware Valley Works
Claymont, Delaware
Wood Project No. 3482210786

Parameter	Location		SM19-GP06-01		SM19-GP08-01		SM19-GP09-01		SM19-GP10-01		SM19-GP10-02		SM19-GP10-03		SM19-GP11-01		SM19-GP12-01		SM19-GP12-02		SM19-GP12-03		SM19-GP13-01			
	Sample ID	Sample Date	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Hexachloroethane			8	0.004		mg/kg																				
Hexachloropropene						mg/kg																				
Indeno(1,2,3-Cd)Pyrene			21	19.6		mg/kg																				
Isodrin						mg/kg																				
Isophorone			2400	0.52		mg/kg																				
Isosafrole						mg/kg																				
Kepon			0.23	0.0024		mg/kg																				
Methanesulfonic Acid, Ethyl Ester						mg/kg																				
Methapyrene						mg/kg																				
Methyl Methanesulfonate			23	0.0032		mg/kg																				
Methyl Parathion			210	0.148		mg/kg																				
Naphthalene			8.6	0.0076		mg/kg																				
Nitrobenzene			22	0.00184		mg/kg																				
n-Nitrosodiethylamine			0.015	0.0000122		mg/kg																				
n-Nitrosodimethylamine			0.034	0.0000054		mg/kg																				
n-Nitrosodi-n-Butylamine			0.46	0.00011		mg/kg																				
n-Nitroso-di-n-Propylamine			0.33	0.000162		mg/kg																				
n-Nitrosodiphenylamine			470	1.34		mg/kg																				
n-Nitrosomethylethylamine			0.091	0.000004		mg/kg																				
n-Nitrosomorpholine			0.34	0.000056		mg/kg																				
n-Nitrosopiperidine			0.24	0.000088		mg/kg																				
n-Nitrosopyrrolidine			1.1	0.00028		mg/kg																				
O,O,O-Triethyl Phosphorothioate						mg/kg																				
o-Toluidine			140	0.04		mg/kg																				
Pentachlorobenzene			930	0.48		mg/kg																				
Pentachloronitrobenzene			13	0.03		mg/kg																				
Pentachlorophenol			4	0.00114	0.028	mg/kg																				
Phenacetin			1000	0.194		mg/kg																				
Phenanthrene						mg/kg																				
Phenol			250000	66		mg/kg																				
Phorate			160	0.068		mg/kg																				
p-Phenylenediamine			820	0.108		mg/kg																				
Pronamide			62000	24		mg/kg																				
Pyrene			23000	260		mg/kg																				
Pyridine			1200	0.136		mg/kg																				
Quinoline, 4-Nitro-1-Oxide-						mg/kg																				
Safrole			10	0.00118		mg/kg																				
Thionazine						mg/kg																				
Thiopyrophosphoric Acid ((Ho)2P(S)2O), Tetraethyl			410	0.104		mg/kg																				
Total Aramite			92	0.3		mg/kg																				
Cyanide, Total			150	0.3	40	mg/kg																				

Notes:
Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), Industrial Soil Screening Level (SSL) (November 2021)
Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20
Exceeds the EPA RSL, Maximum Contaminant Level (MCL) SSL assuming a DAF of 20
Blanks indicate RSL not established or constituent not analyzed
RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0
U = undetected
J = estimated value
J+ = estimated biased high
J- = estimated biased low
R = rejected
MG/KG - milligram per kilogram
SWMU = Solid Waste Management Unit
RCRA = Resource Conservation and Recovery Act
Sample depth shown in Sample ID (e.g., SBBF3-04_6-8 indicates 6 to 8-foot sample)
DUP = Duplicate sample
Exceedances shown may exceed one or more criteria if available

Table 8. SWMU 19 Soil Analytical Results
RCRA Facility Investigation Report
Honeywell Delaware Valley Works
Claymont, Delaware
Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date				SM19-GP13-02 37982-0022-03 11/22/2004		SM19-GP13-03 37982-0022-04 11/22/2004		SM19-GP14-01 37982-0022-05 11/22/2004		SM19-GP14-02 37982-0022-06 11/22/2004		SM19-GP14-03 37982-0022-07 11/22/2004		SM19-GP15-01 37982-0022-08 11/22/2004		SM19-GP15-02 37982-0022-09 11/22/2004		SM19-GP15-03 37982-0022-10 11/22/2004		SM19-GP16-01 37982-0022-11 11/22/2004		SM19-GP16-02 37982-0022-12 11/22/2004		SM19-GP16-03 37982-0023-01 11/22/2004		
	Industrial SSI	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	
Metals																											
Aluminum	110000	60000		mg/kg																							
Antimony	470	7	5.4	mg/kg	0.848	UL	0.903	UL	0.884	UL	0.89	UL	0.873	UL	0.896	UL	1.01	UL	0.847	UL	0.882	UL	0.868	UL	0.827	UL	
Arsenic	3	0.03	5.8	mg/kg	1.41		1.48		10.8		0.775	J	2.29		6.73		4.75		0.549	U	9.63		3.61		0.834	J	
Barium	220000	3200	1640	mg/kg	102		33.6		46.2		104		35		79.4		57.5		173		19.7		46.6		21.6		
Beryllium	2300	380	64	mg/kg	0.539	J	0.602	J	0.179	J	0.432	J	0.668		0.0521	J	0.0341	U	0.237	J	0.34	J	0.646		0.298	J	
Boron	230000	260		mg/kg																							
Cadmium	100	2.8	7.6	mg/kg	0.0642	U	0.0684	U	0.0669	U	0.0674	U	0.0661	U	0.0678	U	0.0764	U	0.0641	U	0.107	J	0.0657	U	0.0626	U	
Calcium				mg/kg																							
Chromium			3600000	mg/kg	27.5		7.7		16.9		35.5		13.3		5.62		13.9		7.08		48.7		32.9		7.04		
Cobalt	350	5.4		mg/kg	3.65		4.72		1.1		3.34		4.07		0.194	U	0.218	U	3.57		4.97		4.67		4.46		
Copper	47000	560	920	mg/kg	13.1	L	2.62	L	8.19	L	35.7	L	12.1	L	7.06	L	3.31	L	2.36	L	127	L	10.6	L	2.12	L	
Iron	820000	7000		mg/kg																							
Lead	800		280	mg/kg	11.9		3.24		11.4		14.1		6.21		41		14.3		5.45		260		9.11		3.32		
Magnesium				mg/kg																							
Manganese	26000	560		mg/kg																							
Nickel	22000	520		mg/kg	14.5		11.8		3.51		14.5		10.9		0.78	J	1.47		7.36		13.1		13.9		7.5		
Potassium				mg/kg																							
Selenium	5800	10.4	5.2	mg/kg	0.986	U	1.05	U	1.03	U	1.03	U	1.01	U	1.04	U	2.3		0.984	U	1.02	U	1.01	U	0.961	U	
Silver	5800	16		mg/kg	0.149	U	0.159	U	0.155	U	0.156	U	0.153	U	0.157	U	0.177	U	0.149	U	0.155	U	0.152	U	0.145	U	
Sodium				mg/kg																							
Thallium	12	0.28	2.8	mg/kg	1.05	U	1.12	U	1.1	U	1.11	U	1.09	U	1.11	U	1.26	U	1.05	U	1.1	U	1.08	U	1.03	U	
Tin	700000	6000		mg/kg	2.07	B	1.58	B	2.54	B	2.11	B	1.76	B	3.97	B	4.09	B	1.55	B	7.44	J	3.8	B	1.59	B	
Vanadium	5800	1720		mg/kg	29.4		9.32		18.1		31.2		18.1		5.18		19.7		6.92		45.1		46.6		6.44		
Zinc	350000	7400		mg/kg	38.8		41.3		14		36.7		35.8		4.93		11.2		24.9		88.8		38.1		23.1		
Mercury	46	0.66	2	mg/kg	0.0441	J	0.0039	UL	0.0686	J	0.0687	J	0.0044	J	0.116	J	0.219		0.0038	UL	0.219		0.008	J	0.0038	UL	
Pesticides																											
4,4'-DDD	9.6	0.15		mg/kg	0.044		0.14		0.036	J	0.29	J	0.038		1.8	J	1.6	J	5.5		22		0.054		0.027		
4,4'-DDE	9.3	0.22		mg/kg	0.024		0.41		0.02	J	0.11		0.002	U	2.3		5.5		17		7.2		0.013	J	0.0022		
4,4'-DDT	8.5	1.54		mg/kg	0.058		0.055	U	0.15		0.84		0.0081	J	6.2		12		31		77		0.11		0.0076		
Aldrin	0.18	0.003		mg/kg	0.002	U	0.002	U	0.0083	U	0.004	U	0.002	U	0.42	U	0.45	U	0.39	U	0.41	U	0.004	U	0.00039	U	
Alpha-BHC	0.36	0.00084		mg/kg	0.001	U	0.01	U	0.013	J	0.0021	U	0.0059		0.21	U	0.23	U	0.2	U	1.8		0.0022	J	0.0022		
Beta-BHC	1.3	0.003		mg/kg	0.001	U	0.001	U	0.0043	U	0.0021	U	0.0061		0.21	U	0.23	U	0.2	U	0.49	J	0.0021	U	0.0017		
Chlordane				mg/kg	0.024	U	0.25	U	0.1	U	0.049	U	0.024	U	5	U	5.5	U	4.8	U	5	U	0.049	U	0.0047	U	
cis-Chlordane	500	9.8		mg/kg																							
Delta-BHC				mg/kg	0.0013	U	0.013	U	0.0053	U	0.0026	U	0.0013	U	0.26	U	0.29	U	0.25	U	0.26	U	0.0026	U	0.00069	B	
Dieldrin	0.14	0.00142		mg/kg	0.002	U	0.02	U	0.0083	U	0.004	U	0.002	U	0.42	U	0.45	U	0.39	U	0.41	U	0.004	U	0.00039	U	
Endosulfan I				mg/kg	0.001	U	0.01	U	0.0043	U	0.0021	U	0.001	U	0.21	U	0.23	U	0.2	U	0.21	U	0.0021	U	0.0002	B	
Endosulfan II				mg/kg	0.0024	U	0.025	U	0.01	U	0.0049	U	0.0024	U	0.5	U	0.55	U	0.48	U	0.5	U	0.0049	U	0.00047	U	
Endosulfan Sulfate	4900	42		mg/kg	0.002	U	0.02	U	0.0083	U	0.004	U	0.002	U	0.42	U	0.45	U	0.39	U	0.41	U	0.004	U	0.00039	U	
Endrin	250	1.84	1.62	mg/kg	0.0054	U	0.055	U	0.023	U	0.011	U	0.0054	U	1.1	U	1.2	U	1.1	U	1.1	U	0.011	U	0.0011	U	
Endrin Aldehyde				mg/kg	0.0072	U	0.074	U	0.03	U	0.015	U	0.0072	U	1.5	U	1.6	U	1.4	U	1.5	U	0.015	U	0.0014	U	
Endrin Ketone				mg/kg																							
Gamma-BHC (Lindane)	2.5	0.0048	0.024	mg/kg	0.001	U	0.01	U	0.0043	U	0.0021	U	0.001	U	0.21	U	0.23	U	0.2	U	0.21	U	0.0021	U	0.00021	B	
Gamma-Chlordane				mg/kg																							
Heptachlor	0.63	0.0024	0.66	mg/kg	0.001	U	0.01	U	0.0043	U	0.0021	U	0.001	U	0.21	U	0.23	U	0.2	U	0.21	U	0.0021	U	0.0002	U	
Heptachlor Epoxide	0.33	0.00056	0.082	mg/kg	0.0014	U	0.0028	U	0.0014	U	0.0028	U	0.0014	U	0.29	U	0.31	U	0.0028	U	0.29	U	0.0028	U	0.00027	U	
Kepone	0.23	0.0024		mg/kg	0.014	U	0.14	U	0.058	U	0.028	U	0.014	U	2.9	U	3.1	U	2.7	U	2.9	U	0.028	U	0.0027	U	
Methoxychlor	4100	40	44	mg/kg	0.01	U	0.1	U	0.043	U	0.021	U	0.01	U	2.1	U	2.3	U	2	U	2.1	U	0.021	U	0.002	U	
Toxaphene	2.1	0.22	9.2	mg/kg	0.066	U	0.68	U	0.28	U	0.13	U	0.066	U	14	U	15	U	13	U	14	U	0.13	U	0.013	U	
trans-Chlordane	500	28		mg/kg																							
Volatile Organic Compound																											
2,4,5-T	8200	1.36		mg/kg																							
2,4,5-TP (Silvex)	6600	1.22	0.56	mg/kg																							
Dinoseb	820	2.6	1.24	mg/kg																							
1,1,1,2-Tetrachloroethane	8.8	0.0044		mg/kg	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.55	U	1.3	U	0.001	U	0.001	U	0.001	U	0.001	U	
1,1,1-Trichloroethane	36000	56	1.4	mg/kg	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.55	U	1.3	U	0.001	U	0.001	U	0.001	U	0.001	U	
1,1,2,2-Tetrachloroethane	2.7	0.0006		mg/kg	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.55	U	1.3	U	0.001	U	0.001	U	0.001	U	0.001	U	
1,1,2-Trichloro-1,2,2-Trifluoroethane	28000	520		mg/kg	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	1.1	U	2.7	U	0.002	U	0.002	U	0.002	U	0.002	U	
1,1,2-Trichloroethane	5	0.00178	0.032	mg/kg	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.55	U	1.3	U	0.001	U	0.001	U	0.001	U	0.001	U	
1,1-Dichloroethane	16	0.0156		mg/kg	0.001	U	0.0156	U	0.001	U	0.001	U	0.001	U	0.55	U	1.3	U	0.001	U	0.001	U	0.001	U	0.001	U	
1,1-Dichloroethene	1000	2	0.05	mg/kg	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.55	U	1.3	U	0.001	U	0.001	U	0.001	U	0.001	U	
1,1-Dichloropropene				mg/kg	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.55	U	1.3	U	0.001	U	0.001	U	0.00				

Table 8. SWMU 19 Soil Analytical Results
RCRA Facility Investigation Report
Honeywell Delaware Valley Works
Claymont, Delaware
Wood Project No. 3482210786

Parameter	Industrial SSI	Risk-Based SSL		MCL-Based SSL		Units	SM19-GP13-02		SM19-GP13-03		SM19-GP14-01		SM19-GP14-02		SM19-GP14-03		SM19-GP15-01		SM19-GP15-02		SM19-GP15-03		SM19-GP16-01		SM19-GP16-02		SM19-GP16-03			
		DAF-20		DAF-20			Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
2-Butanone	190000	24				mg/kg	0.026		0.005	U	0.004	U	0.004	U	0.004	U	2.2	U	5.4	U	0.004	U	0.004	U	0.004	U	0.004	U	0.004	U
2-Chloroethyl Vinyl Ether						mg/kg																								
2-Chlorotoluene	23000	4.6				mg/kg	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.55	U	1.3	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U
2-Hexanone	1300	0.176				mg/kg	0.003	U	0.004	U	0.003	U	0.003	U	0.003	U	1.6	U	4	U	0.003	U	0.003	U	0.003	U	0.003	U	0.003	U
4-Chlorotoluene	23000	4.8				mg/kg	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.55	U	1.3	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U
4-Methyl-2-Pentanone	140000	28				mg/kg	0.003	U	0.004	U	0.003	U	0.003	U	0.003	U	1.6	U	4	U	0.003	U	0.003	U	0.003	U	0.003	U	0.003	U
Acetone	1100000	74				mg/kg	0.027	L	0.013	J	0.017	J	0.007	R	0.013	R	3.8	R	9.4	R	0.019	J	0.019	J	0.019	J	0.019	J	0.019	J
Acetonitrile	3400	0.52				mg/kg	0.029	R	0.03	R	0.028	R	0.026	R	0.026	R	14	U	33	U	0.027	UL	0.028	R	0.028	R	0.028	R	0.027	R
Acrolein	0.6	0.000168				mg/kg	0.023	U	0.024	U	0.022	U	0.022	U	0.022	U	11	U	27	U	0.022	U	0.022	U	0.022	U	0.022	U	0.022	U
Acrylonitrile	1.1	0.00022				mg/kg	0.005	U	0.005	U	0.004	U	0.004	U	0.004	U	2.2	U	5.4	U	0.004	U	0.004	U	0.004	U	0.004	U	0.004	U
Allyl Chloride	3.2	0.0046				mg/kg	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.55	U	1.3	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U
Benzene	5.1	0.0046	0.052			mg/kg	0.001	J	0.0006	U	0.0006	U	0.0005	U	0.0005	U	0.27	U	0.67	U	0.003	J	0.008	J	0.008	J	0.008	J	0.008	J
Bromobenzene	1800	0.84				mg/kg	0.001	J	0.001	U	0.001	U	0.001	U	0.001	U	0.55	U	1.3	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U
Bromochloromethane	630	0.42				mg/kg	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.55	U	1.3	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U
Bromodichloromethane	1.3	0.00072	0.44			mg/kg	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.55	U	1.3	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U
Bromoform	86	0.0174	0.42			mg/kg	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.55	U	1.3	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U
Bromomethane	30	0.038				mg/kg	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	1.1	U	2.7	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Butylbenzene	58000	64				mg/kg	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.97	J	2.3	J	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U
Carbon Disulfide	3500	4.8				mg/kg	0.001	U	0.001	J	0.001	J	0.001	J	0.001	J	0.55	U	1.3	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U
Carbon Tetrachloride	2.9	0.0036	0.038			mg/kg	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.55	U	1.3	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U
Chlorobenzene	1300	1.06	1.36			mg/kg	1.8	J	1.0	L	1.9	L	1.9	L	1.9	L	690	U	1800	U	2	L	9.7	L	10	L	10	L	1.4	L
Chloroethane	23000	48				mg/kg	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	1.1	U	2.7	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Chloroform	1.4	0.00122	0.44			mg/kg	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.55	U	1.3	U	0.002	J	0.024	J	0.024	J	0.024	J	0.024	J
Chloromethane	460	0.98				mg/kg	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	1.1	U	2.7	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Chloroprene	0.044	0.000196				mg/kg	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.55	U	1.3	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U
cis-1,2-Dichloroethene	2300	0.22	0.42			mg/kg	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.55	U	1.3	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U
cis-1,3-Dichloropropene						mg/kg	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.55	U	1.3	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U
cis-1,4-Dichloro-2-Butene	0.032	0.0000124				mg/kg																								
Cyclohexane	27000	260				mg/kg																								
Dibromochloromethane	39	0.0046	0.42			mg/kg	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.55	U	1.3	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U
Dibromomethane	99	0.042				mg/kg	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.55	U	1.3	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U
Dichlorodifluoromethane	370	6				mg/kg	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	1.1	U	2.7	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Ethane, Pentachloro-	36	0.0062				mg/kg	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.55	U	1.3	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U
Ethyl Cyanide						mg/kg	0.035	U	0.036	U	0.034	U	0.031	U	0.031	U	16	R	40	R	0.033	U	0.033	U	0.033	U	0.033	U	0.032	U
Ethyl Methacrylate	7600	3				mg/kg	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.55	U	1.3	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U
Ethylbenzene	25	0.034	15.6			mg/kg	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	2.5	J	11	J	0.001	J	0.003	J	0.003	J	0.003	J	0.003	J
Hexachlorobutadiene	5.3	0.0054				mg/kg	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U	1.1	U	2.7	U	0.002	U	0.002	U	0.002	U	0.002	U	0.002	U
Iodomethane						mg/kg	0.003	U	0.004	U	0.003	U	0.003	U	0.003	U	1.6	U	4	U	0.003	U	0.003	U	0.003	U	0.003	U	0.003	U
Isobutanol	350000	24				mg/kg	0.12	R	0.12	R	0.11	R	0.1	R	0.1	R	55	R	130	R	0.11	R	0.11	R	0.11	R	0.11	R	0.11	R
Isopropylbenzene	9900	14.8				mg/kg	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.65	J	2.3	J	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U
m&p-Xylenes						mg/kg	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	11	J	45	J	0.003	J	0.003	J	0.003	J	0.003	J	0.019	J
Methacrylonitrile	100	0.0086				mg/kg	0.006	U	0.006	U	0.006	U	0.006	U	0.006	U	2.7	U	6.7	U	0.005	U	0.005	U	0.005	U	0.005	U	0.005	U
Methyl Acetate	1200000	82				mg/kg																								
Methyl Methacrylate	19000	6				mg/kg	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U	0.55	U	1.3	U	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U
Methyl Tert-Butyl Ether	210	0.064				mg/kg	0.0006	U	0.0006	U	0.0006	U	0.0005	U	0.0005	U	0.27	U	0.67	U	0.0005	U	0.							

Table 8. SWMU 19 Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location		SM19-GP13-02	SM19-GP13-03	SM19-GP14-01	SM19-GP14-02	SM19-GP14-03	SM19-GP15-01	SM19-GP15-02	SM19-GP15-03	SM19-GP16-01	SM19-GP16-02	SM19-GP16-03													
	Sample ID		37982-0022-03	37982-0022-04	37982-0022-05	37982-0022-06	37982-0022-07	37982-0022-08	37982-0022-09	37982-0022-10	37982-0022-11	37982-0022-12	37982-0023-01													
	Sample Date		11/22/2004		11/22/2004		11/22/2004		11/22/2004		11/22/2004		11/22/2004													
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual												
2,3,4,6-Tetrachlorophenol	25000	3.6		mg/kg	0.4 U		0.41 U		0.42 U		0.41 U		0.4 U		0.42 U		0.45 U		0.4 U		0.41 U		0.41 U		0.39 U	
2,4,5-Trichlorophenol	82000	80		mg/kg	0.2 U		0.21 U		0.21 U		0.21 U		0.2 U		0.23 U		0.2 U		0.2 U		0.21 U		0.2 U		0.2 U	
2,4,6-Trichlorophenol	210	0.08		mg/kg	0.2 U		0.21 U		0.21 U		0.21 U		0.2 U		0.23 U		0.2 U		0.2 U		0.21 U		0.2 U		0.2 U	
2,4-Dichlorophenol	2500	0.46		mg/kg	0.2 U		0.21 U		0.21 U		0.21 U		0.2 U		0.23 U		0.2 U		0.2 U		0.21 U		0.2 U		0.2 U	
2,4-Dimethylphenol	16000	8.4		mg/kg	0.2 U		0.21 U		0.21 U		0.21 U		0.2 U		0.23 U		0.2 U		0.2 U		0.21 U		0.2 U		0.2 U	
2,4-Dinitrophenol	1600	0.88		mg/kg	4 U	J	4.1 U		4.2 U		4.1 U		4 U		4.2 U		4.5 U		4 U		4.1 U		4.1 U		3.9 U	
2,4-Dinitrotoluene	7.4	0.0064		mg/kg	0.4 U		0.41 U		0.42 U		0.41 U		0.4 U		0.42 U		0.45 U		0.4 U		0.41 U		0.41 U		0.39 U	
2,6-Dichlorophenol				mg/kg	0.4 U		0.41 U		0.42 U		0.41 U		0.4 U		0.42 U		0.45 U		0.4 U		0.41 U		0.41 U		0.39 U	
2,6-Dinitrotoluene	1.5	0.00134		mg/kg	0.2 U		0.21 U		0.21 U		0.21 U		0.2 U		0.23 U		0.2 U		0.2 U		0.21 U		0.2 U		0.2 U	
2-Acetylaminofluorene (TIC)	0.6	0.0015		mg/kg	0.4 U		0.41 U		0.42 U		0.41 U		0.4 U		0.42 U		0.45 U		0.4 U		0.41 U		0.41 U		0.39 U	
2-Chloronaphthalene	60000	78		mg/kg	0.2 U		0.21 U		0.21 U		0.21 U		0.2 U		0.23 U		0.2 U		0.2 U		0.21 U		0.2 U		0.2 U	
2-Chlorophenol	5800	1.78		mg/kg	0.2 U		0.21 U		0.21 U		0.21 U		0.2 U		0.97 J		0.39 J		0.2 U		0.52 J		0.2 U		0.2 U	
2-Methylnaphthalene	3000	3.8		mg/kg	0.2 U		0.21 U		0.21 U		0.21 U		0.2 U		4.4		7.7		0.2 U		0.21 U		0.2 U		0.2 U	
2-Methylphenol	41000	15		mg/kg	0.2 U		0.21 U		0.21 U		0.21 U		0.2 U		0.21 U		0.23 U		0.2 U		0.21 U		0.2 U		0.2 U	
2-Naphthylamine	1.3	0.004		mg/kg	1 U		1 U		1 U		1 U		0.99 U		1 U		1.1 U		0.99 U		1 U		1 U		0.98 U	
2-Nitroaniline	8000	1.6		mg/kg	0.2 U		0.21 U		0.21 U		0.21 U		0.2 U		0.23 U		0.2 U		0.2 U		0.21 U		0.2 U		0.2 U	
2-Nitrophenol				mg/kg	0.2 U		0.21 U		0.21 U		0.21 U		0.2 U		0.23 U		0.2 U		0.2 U		0.21 U		0.2 U		0.2 U	
2-Picoline				mg/kg	0.4 U	J	0.41 U		0.42 U		0.41 U		0.4 U		0.42 U		0.45 U		0.4 U		0.41 U		0.41 U		0.39 U	
3,3'-Dichlorobenzidine	5.1	0.0164		mg/kg	0.4 U		0.41 U		0.42 U		0.41 U		0.4 U		0.42 U		0.45 U		0.4 U		0.41 U		0.41 U		0.39 U	
3,3'-Dimethylbenzidine	0.21	0.00086		mg/kg	1 U	J	1 U		1 U		0.99 U		1 U		1.1 U		0.99 U		1 U		1 U		1 U		0.98 U	
3-Methylcholanthrene	0.1	0.044		mg/kg	0.4 U		0.41 U		0.42 U		0.41 U		0.4 U		0.42 U		0.45 U		0.4 U		0.41 U		0.41 U		0.39 U	
3-Nitroaniline				mg/kg	0.4 U		0.41 U		0.42 U		0.41 U		0.4 U		0.42 U		0.45 U		0.4 U		0.41 U		0.41 U		0.39 U	
4,6-Dinitro-2-Methylphenol	66	0.052		mg/kg	1 U		1 U		1 U		0.99 U		1 U		1.1 U		0.99 U		1 U		1 U		1 U		0.98 U	
4-Aminobiphenyl	0.11	0.0003		mg/kg	1 U		1 U		1 U		0.99 U		1 U		1.1 U		0.99 U		1 U		1 U		1 U		0.98 U	
4-Bromophenyl Phenyl Ether				mg/kg	0.2 U		0.21 U		0.21 U		0.21 U		0.2 U		0.23 U		0.2 U		0.2 U		0.21 U		0.2 U		0.2 U	
4-Chloro-3-Methylphenol	82000	34		mg/kg	0.4 U		0.41 U		0.42 U		0.41 U		0.4 U		0.42 U		0.45 U		0.4 U		0.41 U		0.41 U		0.39 U	
4-Chloroaniline	11	0.0032		mg/kg	0.2 U		0.21 U		0.21 U		0.21 U		0.2 U		0.23 U		0.2 U		0.2 U		0.21 U		0.2 U		0.2 U	
4-Chlorophenyl Phenyl Ether				mg/kg	0.2 U		0.21 U		0.21 U		0.21 U		0.2 U		0.23 U		0.2 U		0.2 U		0.21 U		0.2 U		0.2 U	
4-Methylphenol	16000	6		mg/kg	0.4 U		0.41 U		0.42 U		0.41 U		0.4 U		0.42 U		0.45 U		0.4 U		0.41 U		0.41 U		0.39 U	
4-Nitroaniline	110	0.032		mg/kg	0.4 U		0.41 U		0.42 U		0.41 U		0.4 U		0.42 U		0.45 U		0.4 U		0.41 U		0.41 U		0.39 U	
4-Nitrophenol				mg/kg	1 U		1 U		1 U		0.99 U		1 U		1.1 U		0.99 U		1 U		1 U		1 U		0.98 U	
5-Nitro-o-Toluidine	260	0.092		mg/kg	1 U		1 U		1 U		0.99 U		1 U		1.1 U		0.99 U		1 U		1 U		1 U		0.98 U	
7,12-Dimethylbenz(A)Anthracene	0.0084	0.00198		mg/kg	0.2 U		0.21 U		0.21 U		0.21 U		0.2 U		0.21 U		0.23 U		0.2 U		0.21 U		0.2 U		0.2 U	
Acenaphthene	45000	110		mg/kg	0.2 U		0.21 U		0.21 U		0.21 U		0.2 U		0.3 J		0.23 U		0.2 U		0.21 U		0.2 U		0.2 U	
Acenaphthylene				mg/kg	0.2 U		0.21 U		0.21 U		0.21 U		0.2 U		0.53 J		0.23 U		0.2 U		0.75 J		0.2 U		0.2 U	
Acetophenone	120000	11.6		mg/kg	0.4 U		0.41 U		0.42 U		0.41 U		0.4 U		0.42 U		0.45 U		0.4 U		0.41 U		0.41 U		0.39 U	
Aniline	400	0.092		mg/kg	0.2 U		0.21 U		0.21 U		0.21 U		0.2 U		0.23 U		0.2 U		0.2 U		0.21 U		0.2 U		0.2 U	
Anthracene	230000	1160		mg/kg	0.2 U		0.21 U		0.21 U		0.21 U		0.2 U		1.4 J		0.23 U		0.2 U		1 J		0.2 U		0.2 U	
Atrazine	10	0.004	0.038	mg/kg	0.2 U	J	0.21 U	J	0.21 U	J	0.21 U	J	0.2 U	J	0.21 U	J	0.23 U	J	0.2 U	J	0.21 U	J	0.2 U	J	0.2 U	J
Azobenzene	26	0.0186		mg/kg																						
Benzaldehyde	820	0.082		mg/kg	0.2 U	J	0.21 U	J	0.21 U	J	0.21 U	J	0.2 U	J	0.21 U	J	0.23 U	J	0.2 U	J	0.21 U	J	0.2 U	J	0.2 U	J
Benzenamine, N,N-Dimethyl-4-(Pehnylazo)-	0.5	0.00042		mg/kg	0.4 U		0.41 U		0.42 U		0.41 U		0.4 U		0.42 U		0.45 U		0.4 U		0.41 U		0.41 U		0.39 U	
Benzenethanamine, Alpha, Alpha-Dimethyl-				mg/kg	0.2 U	J	0.21 U	J	0.21 U	J	0.21 U	J	0.2 U	J	0.21 U	J	0.23 U	J	0.2 U	J	0.21 U	J	0.2 U	J	0.2 U	J
Benzidine	0.01	0.0000056		mg/kg	4 U	J	4.1 U		4.2 U		4.1 U		4 U		4.2 U		4.5 U		4 U		4.1 U		4.1 U		3.9 U	
Benzo(A)Anthracene	21	0.22		mg/kg	0.2 U		0.21 U		0.21 U		0.21 U		0.2 U		6		0.24 J		0.21 J		4.3		0.2 U		0.2 U	
Benzo(A)Pyrene	21	0.58	4.8	mg/kg	0.2 U		0.21 U		0.21 U		0.21 U		0.2 U		5.8		0.23 U		0.2 U		4.3		0.2 U		0.2 U	
Benzo(B)Fluoranthene		6		mg/kg	0.2 U		0.21 U		0.21 U		0.21 U		0.2 U		7.8		0.23 U		0.2 U		5.5		0.2 U		0.2 U	
Benzo(G,H,I)perylene				mg/kg	0.2 U		0.21 U		0.21 U		0.21 U		0.2 U		3.9		0.23 U		0.2 U		2.9		0.2 U		0.2 U	
Benzo(K)Fluoranthene	210	58		mg/kg	0.2 U		0.21 U		0.21 U		0.21 U		0.2 U		2.9		0.23 U		0.2 U		2.2		0.2 U		0.2 U	
Benzoic Acid	3300000	300		mg/kg	1 U		1 U		1 U		0.99 U		1 U		1.1 U		0.99 U		1 U		1 U		1 U		0.98 U	
Benzyl Alcohol	82000	9.6		mg/kg	1 U		1 U		1 U		0.99 U		1 U		1.1 U		0.99 U		1 U		1 U		1 U		0.98 U	
bis-(2-Chloroethoxy)Methane	2500	0.26		mg/kg	0.2 U		0.21 U		0.21 U		0.21 U		0.2 U		0.21 U		0.23 U		0.2 U		0.21 U		0.2 U		0.2 U	
bis-(2-Chloroethyl)Ether	1	0.000072		mg/kg	0.2 U		0.21 U		0.21 U		0.21 U		0.2 U		0.21 U		0.23 U		0.2 U		0.21 U		0.2 U		0.2 U	
bis-(2-Chloroisopropyl)Ether				mg/kg																						
bis-(2-Ethylhexyl)Phthalate	160	26	28	mg/kg	0.6 U		0.62 U		0.63 U		0.61 U		0.6 U		0.63 U		0.68 U		0.6 U		0.62 U		0.61 U		0.59 U	
Butylbenzyl Phthalate	1200	4.8		mg/kg	0.4 U		0.41 U		0.42 U		0.41 U		0.4 U		0.42 U		0.45 U		0.4 U		0.41 U		0.41 U		0.39 U	
Caprolactam	400000	50		mg/kg																						
Carbazole				mg/kg	0.2 U		0.21 U		0.21 U		0.21 U		0.2 U		0.34 J		0.23 U		0.2 U		0.21 U		0.2 U		0.2 U	
Chlorobenzilate	21	0.02		mg/kg	0.2 U		0.21 U		0.21 U		0.21 U		0.2 U		0.21 U		0.23 U		0.2 U		0.21 U		0.2 U		0.2 U	
Chrysene	2100	180		mg/kg	0.2 U		0.21 U		0.21 U		0.21 U		0.2 U		6.6		0.23 J		0.21 J		4.6		0.2 U		0.2 U	
Diallate	38	0.016		mg/kg	0.2 U		0.21 U		0.21 U		0.21 U		0.2 U		0.21 U		0.23 J		0.2 U		0.21 U		0.2 U		0.2 U	
Dibenzo(a,h)Anthracene	2.1	1.92		mg/kg	0.2 U		0.21 U	</																		

Table 8. SWMU 19 Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location		SM19-GP13-02		SM19-GP13-03		SM19-GP14-01		SM19-GP14-02		SM19-GP14-03		SM19-GP15-01		SM19-GP15-02		SM19-GP15-03		SM19-GP16-01		SM19-GP16-02		SM19-GP16-03			
	Sample ID	Sample Date	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual		
Hexachloroethane			8	0.004		mg/kg	0.2	U	0.21	U	0.21	U	0.2	U	0.21	U	0.23	U	0.2	U	0.21	U	0.2	U	0.2	U
Hexachloropropene						mg/kg	0.6	U	0.62	U	0.63	U	0.61	U	0.63	U	0.68	U	0.6	U	0.62	U	0.61	U	0.62	U
Indeno(1,2,3-Cd)Pyrene			21	19.6		mg/kg	0.2	U	0.21	U	0.21	U	0.2	U	0.2	U	4.4	U	0.23	U	0.2	U	3.2	U	0.2	U
Isodrin						mg/kg	0.2	U	0.21	U	0.21	U	0.2	U	0.2	U	0.21	U	0.23	U	0.2	U	0.21	U	0.2	U
Isophorone			2400	0.52		mg/kg	0.2	U	0.21	U	0.21	U	0.2	U	0.21	U	0.21	U	0.23	U	0.2	U	0.21	U	0.2	U
Isosafrole						mg/kg	0.4	U	0.41	U	0.42	U	0.41	U	0.4	U	0.42	U	0.45	U	0.4	U	0.41	U	0.41	U
Kepone			0.23	0.0024		mg/kg																				
Methanesulfonic Acid, Ethyl Ester						mg/kg	0.4	U	0.41	U	0.42	U	0.41	U	0.4	U	0.42	U	0.45	U	0.4	U	0.41	U	0.41	U
Methapyriline						mg/kg	0.6	UJ	0.61	U	0.62	U	0.61	U	0.63	U	0.68	U	0.6	U	0.62	U	0.61	U	0.62	U
Methyl Methanesulfonate			23	0.0032		mg/kg	0.2	U	0.21	U	0.21	U	0.2	U	0.2	U	0.21	U	0.23	U	0.2	U	0.21	U	0.2	U
Methyl Parathion			210	0.148		mg/kg																				
Naphthalene			8.6	0.0076		mg/kg	0.2	U	0.21	U	0.21	U	0.2	U	0.2	U	4.6	U	9.4	U	0.2	U	0.24	J	0.2	U
Nitrobenzene			22	0.00184		mg/kg	0.2	U	0.21	U	0.21	U	0.2	U	0.2	U	0.21	U	0.23	U	0.2	U	0.21	U	0.2	U
n-Nitrosodiethylamine			0.015	0.0000122		mg/kg	0.4	U	0.41	U	0.42	U	0.41	U	0.42	U	0.42	U	0.45	U	0.4	U	0.41	U	0.41	U
n-Nitrosodimethylamine			0.034	0.0000054		mg/kg	0.4	U	0.41	U	0.42	U	0.41	U	0.42	U	0.42	U	0.45	U	0.4	U	0.41	U	0.41	U
n-Nitrosodi-n-Butylamine			0.46	0.00011		mg/kg	0.4	U	0.41	U	0.42	U	0.41	U	0.42	U	0.42	U	0.45	U	0.4	U	0.41	U	0.41	U
n-Nitroso-di-n-Propylamine			0.33	0.000162		mg/kg	0.2	U	0.21	U	0.21	U	0.2	U	0.2	U	0.21	U	0.23	U	0.2	U	0.21	U	0.2	U
n-Nitrosodiphenylamine			470	1.34		mg/kg	0.2	U	0.21	U	0.21	U	0.2	U	0.2	U	0.21	U	0.23	U	0.2	U	0.21	U	0.2	U
n-Nitrosomethylethylamine			0.091	0.000004		mg/kg	0.4	U	0.41	U	0.42	U	0.41	U	0.42	U	0.42	U	0.45	U	0.4	U	0.41	U	0.41	U
n-Nitrosomorpholine			0.34	0.000056		mg/kg	0.4	U	0.41	U	0.42	U	0.41	U	0.42	U	0.42	U	0.45	U	0.4	U	0.41	U	0.41	U
n-Nitrosopiperidine			0.24	0.000088		mg/kg	0.4	U	0.41	U	0.42	U	0.41	U	0.42	U	0.42	U	0.45	U	0.4	U	0.41	U	0.41	U
n-Nitrosopyrrolidine			1.1	0.00028		mg/kg	0.4	U	0.41	U	0.42	U	0.41	U	0.42	U	0.42	U	0.45	U	0.4	U	0.41	U	0.41	U
O,O,O-Triethyl Phosphorothioate						mg/kg	0.4	U	0.41	U	0.42	U	0.41	U	0.42	U	0.42	U	0.45	U	0.4	U	0.41	U	0.41	U
o-Toluidine			140	0.04		mg/kg	0.4	U	0.41	U	0.42	U	0.41	U	0.4	U	0.42	U	0.45	U	0.4	U	0.41	U	0.41	U
Pentachlorobenzene			930	0.48		mg/kg	0.4	U	0.41	U	0.42	U	0.41	U	0.4	U	0.42	U	0.45	U	0.4	U	0.41	U	0.41	U
Pentachloronitrobenzene			13	0.03		mg/kg	0.8	U	0.82	U	0.84	U	0.81	U	0.79	U	0.84	U	0.91	U	0.79	U	0.83	U	0.81	U
Pentachlorophenol			4	0.00114	0.028	mg/kg	1	U	1	U	1	U	0.99	U	1	U	1.1	U	0.99	U	1	U	1	U	0.98	U
Phenacetin			1000	0.194		mg/kg	0.4	U	0.41	U	0.42	U	0.41	U	0.42	U	0.42	U	0.45	U	0.4	U	0.41	U	0.41	U
Phenanthrene						mg/kg	0.2	U	0.21	U	0.21	U	0.2	U	0.2	U	6.9	U	0.58	J	0.2	U	3.3	U	0.2	U
Phenol			250000	66		mg/kg	0.2	U	0.21	U	0.21	U	0.2	U	0.2	U	0.21	U	0.23	U	0.2	U	0.21	U	0.2	U
Phorate			160	0.068		mg/kg																				
p-Phenylenediamine			820	0.108		mg/kg	15	UJ	15	UJ	16	UJ	15	UJ	15	UJ	16	UJ	17	UJ	15	UJ	15	UJ	15	UJ
Pronamide			62000	24		mg/kg	0.8	U	0.82	U	0.84	U	0.81	U	0.79	U	0.84	U	0.91	U	0.79	U	0.83	U	0.81	U
Pyrene			23000	260		mg/kg	0.2	U	0.21	U	0.21	U	0.2	U	0.2	U	9.3	U	0.56	J	0.2	U	6.5	U	0.2	U
Pyridine			1200	0.136		mg/kg	0.4	UJ	0.41	U	0.42	U	0.41	U	0.42	U	0.42	U	0.45	U	0.4	U	0.41	U	0.41	U
Quinoline, 4-Nitro-1-Oxide-						mg/kg	2	U	2.1	U	2.1	U	2	U	2	U	2.1	U	2.3	U	2	U	2.1	U	2	U
Safrole			10	0.00118		mg/kg	0.4	U	0.41	U	0.42	U	0.41	U	0.42	U	0.42	U	0.45	U	0.4	U	0.41	U	0.41	U
Thionazine						mg/kg	0.4	U	0.41	U	0.42	U	0.41	U	0.4	U	0.42	U	0.45	U	0.4	U	0.41	U	0.41	U
Thiopyrophosphoric Acid ((Ho)2P(S)2O), Tetraethyl			410	0.104		mg/kg	0.4	U	0.41	U	0.42	U	0.41	U	0.4	U	0.42	U	0.45	U	0.4	U	0.41	U	0.41	U
Total Aramite			92	0.3		mg/kg	0.2	UJ	0.21	U	0.21	UJ	0.2	UJ	0.2	UJ	0.21	UJ	0.23	UJ	0.2	UJ	0.21	UJ	0.2	UJ
Cyanide, Total			150	0.3	40	mg/kg																				

Notes:
 Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), Industrial Soil Screening Level (SSL) (November 2021)
 Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20
 Exceeds the EPA RSL, Maximum Contaminant Level (MCL) SSL assuming a DAF of 20
 Blanks indicate RSL not established or constituent not analyzed
 RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0
 U = undetected
 J = estimated value
 J+ = estimated biased high
 J- = estimated biased low
 R = rejected
 MG/KG - milligram per kilogram
 SWMU = Solid Waste Management Unit
 RCRA = Resource Conservation and Recovery Act
 Sample depth shown in Sample ID (e.g., SBBF3-04_6-8 indicates 6 to 8-foot sample)
 DUP = Duplicate sample
 Exceedances shown may exceed one or more criteria if available

Table 8. SWMU 19 Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location			Units	SM19-SB SM19-SB-(5.5-6)_073015 7/30/2015		SM19-SB SM19-SB-(8.5-9)_073015 7/30/2015		SM19-SB SM19-SB-(11.5-12)_073015 7/30/2015		SM19-SB01 SM19-SB1-SS_100615 10/6/2015		SM19-SB01 SM19-SB1-3_072315 7/23/2015		SM19-SB01 SM19-SB1-(5.5-6.0)_073015 7/30/2015		SM19-SB01 SM19-SB1-(8.5-9.0)_073015 7/30/2015		SM19-SB01 SM19-SB1-(11.5-12.0)_073015 7/30/2015		SM19-SS01 SM19-SS01_100615 10/6/2015		SM19-SS02 SM19-SS02_100615 10/6/2015		SM19-SS03 SM19-SS03_100615 10/6/2015												
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20		Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual									
Metals																																					
Aluminum	1100000	600000		mg/kg							7630		22900		23000		18600		5740		12200		3110		16100												
Antimony	470	7	5.4	mg/kg							4.07		2.84	2.35 U	2.28 U		2.29 U		2.29 U		2.84		4.81		3.59												
Arsenic	3	0.03	5.8	mg/kg							2.91		2.71	3.02 J	1.89 J	2.04 J		2.12 U		1.61 J		1.61 J		10.2													
Barium	220000	3200	1640	mg/kg							322		76.4	94.2	67.5		27.4		298 J		355		224														
Beryllium	2300	380	64	mg/kg							0.238 J		0.854	0.696		0.605		0.266 J		0.416 J		0.0874 J		0.759													
Boron	230000	260		mg/kg																																	
Cadmium	100	2.8	7.6	mg/kg							0.687		0.625 U	0.587 U	0.571 U		0.572 U		0.53 U		0.0958 J		0.985														
Calcium				mg/kg							9390		7970	123	593		15300		2650		15300		25800														
Chromium			3600000	mg/kg							50		35.8	35.4	23.1		7.57		38.1		20.6		37.2														
Cobalt	350	5.4		mg/kg							170		4.78	4.66	4.29		2.65		10.1 J		3.51		35.6														
Copper	47000	560	920	mg/kg							48.5		12.7	11.5	10.1		3.08		30.3 J		40.5		71.9														
Iron	820000	7000		mg/kg							25200		23300	11800	11300		6320		23900		10200		28900														
Lead	800		280	mg/kg							484		19.5	8.5	10.7		3.78		7.45		354		120														
Magnesium				mg/kg							7220		4170	2720	2560		1330		9720		2040		17800														
Manganese	26000	560		mg/kg							136		112	79.5	62.4		51.4		249		66.1		283														
Nickel	22000	520		mg/kg							23.7		10	16.6	13.4		7.37		41.3		12.3		20.9														
Potassium				mg/kg							4500		2460	1930	1230		905		8150		1690		4490														
Selenium	5800	10.4	5.2	mg/kg							4.95		1.38 J	2.35 U	4.66		2.28 U		4.66		1.72 J		5.27														
Silver	5800	16		mg/kg							1.14		0.625 U	0.2 J	0.571 U		0.572 U		2.65 U		0.599 U		1.09														
Sodium				mg/kg							336		470	394	254		1380		254		1380		674														
Thallium	12	0.28	2.8	mg/kg							2.42 J		3.75 U	3.52 U	3.43 U		3.43 U		2.62 J		3.59 U		1.5 J														
Tin	700000	60000		mg/kg																																	
Vanadium	5800	1720		mg/kg							38.5		42.5	36	24.7		9.6		50.4 J		12.5		36.7														
Zinc	350000	7400		mg/kg							50.4		31.8	32.9	35		24.9		63.9 J		17.8		109														
Mercury	46	0.66	2	mg/kg							0.528		0.124 U	0.0333 J	0.112 U		0.119 U		0.106 U		0.217		0.836														
Pesticides																																					
4,4'-DDD	9.6	0.15		mg/kg							0.14		0.0047	0.39	250 J		13		1.8		370 J		6														
4,4'-DDE	9.3	0.22		mg/kg							0.15		0.0052	0.51	150 J		7.4		1.8		2500 J		0.79														
4,4'-DDT	8.5	1.54		mg/kg							0.063		0.0059	0.37	170 J		2.8		1.6		460 J		10														
Aldrin	0.18	0.003		mg/kg							0.00081 U		0.00079 U	0.00079 U	0.0041 U		0.0077 U		0.0037 U		0.0077 U		0.0042 U														
Alpha-BHC	0.36	0.0084		mg/kg							0.0021 J		0.00077 J	0.03	0.15		0.022		0.0037 U		0.68		0.0042 U														
Beta-BHC	1.3	0.003		mg/kg							0.00081 U		0.0016	0.013	0.1		0.051		0.065 J		0.0077 U		0.008														
Chlordane				mg/kg																																	
cis-Chlordane	500	9.8		mg/kg							0.00081 U		0.00079 U	0.00079 U	0.0041 U		0.0077 U		0.0037 U		0.0077 U		0.0042 U														
Delta-BHC				mg/kg							0.0011		0.00079 U	0.0036	0.012 J		0.0052 J		0.0037 U		0.23 J		0.0042 U														
Dieldrin	0.14	0.00142		mg/kg							0.00081 U		0.00079 U	0.0038 U	0.0041 U		0.0077 U		0.0037 U		0.0077 U		0.0042 U														
Endosulfan I				mg/kg							0.00081 U		0.00079 U	0.0038 U	0.0041 U		0.0077 U		0.0037 U		0.0077 U		0.0042 U														
Endosulfan II				mg/kg							0.00081 U		0.00079 U	0.0038 U	0.0041 U		0.0077 U		0.0037 U		0.0077 U		0.0042 U														
Endosulfan Sulfate	4900	42		mg/kg							0.00081 U		0.00079 U	0.0038 U	0.0041 U		0.0077 U		0.0037 U		0.0077 U		0.0042 U														
Endrin	250	1.84	1.62	mg/kg							0.00081 U		0.00079 U	0.0038 U	0.0041 U		0.0077 U		0.0037 U		0.0077 U		0.0042 U														
Endrin Aldehyde				mg/kg							0.00081 U		0.00079 U	0.0038 U	0.0041 U		0.0077 U		0.0037 U		0.0077 U		0.0042 U														
Endrin Ketone				mg/kg							0.00081 U		0.00079 U	0.0038 U	0.0041 U		0.0077 U		0.0037 U		0.0077 U		0.0042 U														
Gamma-BHC (Lindane)	2.5	0.0048	0.024	mg/kg							0.00081 U		0.00079 U	0.0017	0.071		0.014		0.0037 U		0.0077 U		0.0042 U														
Gamma-Chlordane				mg/kg							0.00081 U		0.00079 U	0.0038 U	0.0041 U		0.0077 U		0.0037 U		0.0077 U		0.0042 U														
Heptachlor	0.63	0.0024	0.66	mg/kg							0.00081 U		0.00079 U	0.0038 U	0.0041 U		0.0077 U		0.0037 U		0.0077 U		0.0042 U														
Heptachlor Epoxide	0.33	0.00056	0.082	mg/kg							0.00081 U		0.00079 U	0.0038 U	0.0041 U		0.0077 U		0.0037 U		0.0077 U		0.0042 U														
Kepone	0.23	0.0024		mg/kg																																	
Methoxychlor	4100	40	44	mg/kg							0.0016 U		0.0015 U	0.0074 U	0.008 U		0.0015 U		0.0072 U		0.015 U		0.0082 U														
Toxaphene	2.1	0.22	9.2	mg/kg							0.021 U		0.02 U	0.096 U	0.1 U				0.095 U		0.2 U		0.11 U														
trans-Chlordane	500	28		mg/kg																																	
Volatile Organic Compound																																					
2,4,5-T	8200	1.36		mg/kg																																	
2,4,5-TP (Silvex)	6600	1.22	0.56	mg/kg																																	
Dinoseb	820	2.6	1.24	mg/kg																																	
1,1,1,2-Tetrachloroethane	8.8	0.0044		mg/kg																																	
1,1,1-Trichloroethane	36000	56	1.4	mg/kg									0.004 U	0.22 U	0.22 U		0.21 U		0.22 U		0.005 U		0.005 U		0.003 UJ												
1,1,2,2-Tetrachloroethane	2.7	0.0006		mg/kg									0.004 U	0.22 U	0.22 U		0.21 U		0.22 U		0.005 U		0.005 UJ		0.003 UJ												
1,1,2-Trichloro-1,2,2-Trifluoroethane	28000	520		mg/kg									0.023	0.45 U	0.43 U		0.45 U</																				

Table 8. SWMU 19 Soil Analytical Results
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 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location			Units	SM19-SB SM19-SB-(5.5-6)_073015 7/30/2015		SM19-SB SM19-SB-(8.5-9)_073015 7/30/2015		SM19-SB SM19-SB-(11.5-12)_073015 7/30/2015		SM19-SB01 SM19-SB1-SS_100615 10/6/2015		SM19-SB01 SM19-SB1-3_072315 7/23/2015		SM19-SB01 SM19-SB1-(5.5-6.0)_073015 7/30/2015		SM19-SB01 SM19-SB1-(8.5-9.0)_073015 7/30/2015		SM19-SB01 SM19-SB1-(11.5-12.0)_073015 7/30/2015		SM19-SS01 SM19-SS01_100615 10/6/2015		SM19-SS02 SM19-SS02_100615 10/6/2015		SM19-SS03 SM19-SS03_100615 10/6/2015										
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20		Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual							
2-Butanone	190000	24		mg/kg							0.007	U		0.45	U		0.44	U		0.43	U		0.45	U		0.009	U		0.009	U		0.007	U		
2-Chloroethyl Vinyl Ether				mg/kg																															
2-Chlorotoluene	23000	4.6		mg/kg																															
2-Hexanone	1300	0.176		mg/kg							0.007	U		0.45	U		0.44	U		0.43	U		0.45	U		0.009	U		0.009	U		0.007	U		
4-Chlorotoluene	23000	4.8		mg/kg																															
4-Methyl-2-Pentanone	140000	28		mg/kg							0.007	U		0.45	U		0.44	U		0.43	U		0.45	U		0.009	U		0.009	U		0.007	U		
Acetone	1100000	74		mg/kg							0.015	U		0.89	U		0.88	U		0.86	U		0.89	U		0.019	U		0.019	U		0.023	U		
Acetonitrile	3400	0.52		mg/kg																															
Acrolein	0.6	0.000168		mg/kg																															
Acrylonitrile	1.1	0.00022		mg/kg																															
Allyl Chloride	3.2	0.0046		mg/kg																															
Benzene	5.1	0.0046	0.052	mg/kg							0.004	U		0.22	U		0.22	U		0.21	U		0.22	U		0.005	U		0.005	U		0.003	U		
Bromobenzene	1800	0.84		mg/kg																															
Bromochloromethane	630	0.42		mg/kg							0.004	U		0.22	U		0.22	U		0.21	U		0.22	U		0.005	U		0.005	U		0.003	U		
Bromodichloromethane	1.3	0.00072	0.44	mg/kg							0.004	U		0.22	U		0.22	U		0.21	U		0.22	U		0.005	U		0.005	U		0.003	U		
Bromoform	86	0.0174	0.42	mg/kg							0.004	U		0.22	U		0.22	U		0.21	U		0.22	U		0.005	U		0.005	U		0.003	U		
Bromomethane	30	0.038		mg/kg							0.004	U		0.22	U		0.22	U		0.21	U		0.22	U		0.005	U		0.005	U		0.003	U		
Butylbenzene	58000	64		mg/kg																															
Carbon Disulfide	3500	4.8		mg/kg							0.004	U		0.22	U		0.22	U		0.21	U		0.22	U		0.001	J		0.005	U		0.003	U		
Carbon Tetrachloride	2.9	0.0036	0.038	mg/kg							0.004	U		0.22	U		0.22	U		0.21	U		0.22	U		0.005	U		0.005	U		0.003	U		
Chlorobenzene	1300	1.06	1.36	mg/kg							0.011	J		1.4	J		3.4	J		7.6	J		8.4	J		0.003	J		0.012	J		0.003	J		
Chloroethane	23000	48		mg/kg							0.004	U		0.22	U		0.22	U		0.21	U		0.22	U		0.005	U		0.005	U		0.003	U		
Chloroform	1.4	0.00122	0.44	mg/kg							0.001	J		0.22	U		0.22	U		0.21	U		0.22	U		0.005	U		0.009	J		0.003	U		
Chloromethane	460	0.98		mg/kg							0.004	U		0.22	U		0.22	U		0.21	U		0.22	U		0.005	U		0.005	U		0.003	U		
Chloroprene	0.044	0.000196		mg/kg																															
cis-1,2-Dichloroethene	2300	0.22	0.42	mg/kg							0.004	U		0.22	U		0.22	U		0.21	U		0.22	U		0.005	U		0.005	U		0.003	U		
cis-1,3-Dichloropropene				mg/kg							0.004	U		0.22	U		0.22	U		0.21	U		0.22	U		0.005	U		0.005	U		0.003	U		
cis-1,4-Dichloro-2-Butene	0.032	0.0000124		mg/kg																															
Cyclohexane	27000	260		mg/kg							0.004	U		0.22	U		0.22	U		0.21	U		0.22	U		0.005	U		0.005	U		0.003	U		
Dibromochloromethane	39	0.0046	0.42	mg/kg							0.004	U		0.22	U		0.22	U		0.21	U		0.22	U		0.005	U		0.005	U		0.003	U		
Dibromomethane	99	0.042		mg/kg																															
Dichlorodifluoromethane	370	6		mg/kg							0.004	U		0.22	U		0.22	U		0.21	U		0.22	U		0.005	U		0.005	U		0.003	U		
Ethane, Pentachloro-	36	0.0062		mg/kg																															
Ethyl Cyanide				mg/kg																															
Ethyl Methacrylate	7600	3		mg/kg																															
Ethylbenzene	25	0.034	15.6	mg/kg							0.004	U		0.22	U		0.22	U		0.21	U		0.22	U		0.005	U		0.005	U		0.003	U		
Hexachlorobutadiene	5.3	0.0054		mg/kg																															
Iodomethane				mg/kg																															
Isobutanol	350000	24		mg/kg																															
Isopropylbenzene	9900	14.8		mg/kg							0.004	U		0.22	U		0.22	U		0.21	U		0.22	U		0.005	U		0.005	U		0.003	U		
m&p-Xylenes				mg/kg							0.004	U		0.22	U		0.22	U		0.21	U		0.22	U		0.005	U		0.005	U		0.003	U		
Methacrylonitrile	100	0.0086		mg/kg																															
Methyl Acetate	1200000	82		mg/kg							0.004	U		0.22	U		0.22	U		0.21	U		0.22	U		0.005	U		0.005	U		0.003	U		
Methyl Methacrylate	19000	6		mg/kg																															
Methyl Tert-Butyl Ether	210	0.064		mg/kg							0.004	U		0.22	U		0.22	U		0.21	U		0.22	U		0.005	U		0.005	U		0.003	U		
Methylcyclohexane				mg/kg							0.004	U		0.22	U		0.22	U		0.21	U		0.22	U		0.005	U		0.005	U		0.003	U		
Methylene Chloride	1000	0.058	0.026	mg/kg							0.004	U		0.22	U		0.22	U		0.21	U		0.22	U		0.005	U		0.005	U		0.003	U		
Naphthalene	8.6	0.0076		mg/kg																															
n-Propylbenzene	24000	24		mg/kg																															
o-Xylene	2800	3.8		mg/kg							0.004	U		0.22	U		0.22	U		0.21	U		0.22	U		0.005	U		0.005	U		0.003	U		
p-Isopropyltoluene				mg/kg																															
Sec-Butylbenzene	120000	118		mg/kg																															
Styrene	35000	26	2.2	mg/kg							0.004	U		0.22	U		0.22	U		0.21	U		0.22	U		0.005	U		0.005	U		0.003	U		
Tert-Butylbenzene	120000	32		mg/kg																															
Tetrachloroethene	100	0.102	0.046	mg/kg							0.002	J		0.22	U		0.22	U		0.21	U		0.22	U		0.005	U		0.001	J		0.003	U		
Tetrahydrofuran	95000	15		mg/kg																															
Toluene	47000	15.2	13.8	mg/kg							0.004	U		0.22	U		0.22	U		0.21	U		0.22	U		0.005	U		0.005	U		0.003	U		
Total Xylenes	2500	3.8	198	mg/kg							0.004	U		0.22	U		0.22	U		0.21	U		0.22	U		0.005	U		0.005	U		0.003	U		
trans-1,2-Dichloroethene	300	0.42	0.62	mg/kg							0.004	U		0.22	U		0.22	U		0.21	U		0.22												

Table 8. SWMU 19 Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location			Units	SM19-SB (5.5-6)_073015		SM19-SB (8.5-9)_073015		SM19-SB (11.5-12)_073015		SM19-SB01 (10/6/2015)		SM19-SB01 (7/23/2015)		SM19-SB01 (5.5-6.0)_073015		SM19-SB01 (8.5-9.0)_073015		SM19-SB01 (11.5-12.0)_073015		SM19-SS01 (10/6/2015)		SM19-SS02 (10/6/2015)		SM19-SS03 (10/6/2015)			
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20		Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
2,3,4,6-Tetrachlorophenol	25000	3.6		mg/kg							0.95 U		0.21 U		0.2 U		0.2 U		0.2 U		0.18 U		1 U		1 U		1 U	
2,4,5-Trichlorophenol	82000	80		mg/kg							0.19 U		0.042 U		0.041 U		0.039 U		0.04 U		0.037 U		0.21 U		0.21 U		0.21 U	
2,4,6-Trichlorophenol	210	0.08		mg/kg							0.19 U		0.042 U		0.041 U		0.039 U		0.04 U		0.037 U		0.21 U		0.21 U		0.21 U	
2,4-Dichlorophenol	2500	0.46		mg/kg							0.19 U		0.042 U		0.041 U		0.039 U		0.04 U		0.037 U		0.21 U		0.21 U		0.21 U	
2,4-Dimethylphenol	16000	8.4		mg/kg							0.19 U		0.042 U		0.041 U		0.039 U		0.04 U		0.037 U		0.21 U		0.21 U		0.21 U	
2,4-Dinitrophenol	1600	0.88		mg/kg							5.7 U		1.3 U		1.2 U		1.2 U		1.2 U		1.1 R		6.2 U		6.2 U		6.2 U	
2,4-Dinitrotoluene	7.4	0.0064		mg/kg							0.95 U		0.21 U		0.2 U		0.2 U		0.2 U		0.18 U		1 U		1 U		1 U	
2,6-Dichlorophenol				mg/kg																								
2,6-Dinitrotoluene	1.5	0.00134		mg/kg							0.19 U		0.042 U		0.041 U		0.039 U		0.04 U		0.037 U		0.21 U		0.21 U		0.21 U	
2-Acetylaminofluorene (TIC)	0.6	0.0015		mg/kg																								
2-Chloronaphthalene	60000	78		mg/kg							0.19 U		0.042 U		0.04 U		0.039 U		0.039 U		0.036 U		0.2 U		0.21 U		0.21 U	
2-Chlorophenol	5800	1.78		mg/kg							0.27		0.042 U		0.32		0.53		0.041		0.037 U		0.21 U		0.21 U		0.21 U	
2-Methylnaphthalene	3000	3.8		mg/kg							0.097 U		0.021 U		0.021 U		0.007 J		0.02 U		0.019 U		0.062 J		0.028 J		0.028 J	
2-Methylphenol	41000	15		mg/kg							0.19 U		0.042 U		0.041 U		0.039 U		0.04 U		0.037 U		0.21 U		0.21 U		0.21 U	
2-Naphthylamine	1.3	0.004		mg/kg																								
2-Nitroaniline	8000	1.6		mg/kg							0.19 U		0.042 U		0.041 U		0.039 U		0.04 U		0.037 U		0.21 U		0.21 U		0.21 U	
2-Nitrophenol				mg/kg							0.19 U		0.042 U		0.041 U		0.039 U		0.04 U		0.037 U		0.62		0.21 U		0.21 U	
2-Picoline				mg/kg																								
3,3'-Dichlorobenzidine	5.1	0.0164		mg/kg							1.9 U		0.42 U		0.41 U		0.39 U		0.4 U		0.37 U		2.1 U		2.1 U		2.1 U	
3,3'-Dimethylbenzidine	0.21	0.00086		mg/kg																								
3-Methylcholanthrene	0.1	0.044		mg/kg																								
3-Nitroaniline				mg/kg							0.95 U		0.21 U		0.2 U		0.2 U		0.2 U		0.18 U		1 U		1 U		1 U	
4,6-Dinitro-2-Methylphenol	66	0.052		mg/kg							2.9 U		0.63 U		0.61 U		0.59 U		0.6 U		0.55 UJ		3.1 U		3.1 U		3.1 U	
4-Aminobiphenyl	0.11	0.0003		mg/kg																								
4-Bromophenyl Phenyl Ether				mg/kg							0.19 U		0.042 U		0.041 U		0.039 U		0.04 U		0.037 U		0.21 U		0.21 U		0.21 U	
4-Chloro-3-Methylphenol	82000	34		mg/kg							0.19 U		0.042 U		0.041 U		0.039 U		0.04 U		0.037 U		0.21 U		0.21 U		0.21 U	
4-Chloroaniline	11	0.0032		mg/kg							0.38 U		0.084 UJ		0.081 U		0.079 U		0.08 U		0.073 UJ		0.41 U		0.42 U		0.42 U	
4-Chlorophenyl Phenyl Ether				mg/kg							0.19 U		0.042 U		0.041 U		0.039 U		0.04 U		0.037 U		0.21 U		0.21 U		0.21 U	
4-Methylphenol	16000	6		mg/kg							0.19 U		0.042 U		0.041 U		0.039 U		0.04 U		0.037 U		0.21 U		0.21 U		0.21 U	
4-Nitroaniline	110	0.032		mg/kg							0.95 U		0.21 U		0.2 U		0.2 U		0.2 U		0.18 U		1 U		1 U		1 U	
4-Nitrophenol				mg/kg							2.9 U		0.63 U		0.61 U		0.59 U		0.6 U		0.55 UJ		3.1 U		3.1 U		3.1 U	
5-Nitro-o-Toluidine	260	0.092		mg/kg																								
7,12-Dimethylbenz(A)Anthracene	0.0084	0.00198		mg/kg																								
Acenaphthene	45000	110		mg/kg							0.097 U		0.021 U		0.021 U		0.007 J		0.02 U		0.019 U		0.11 U		0.041 J		0.041 J	
Acenaphthylene				mg/kg							0.092 J		0.021 U		0.021 U		0.02 U		0.02 U		0.004 J		0.13		0.07 J		0.07 J	
Acetophenone	120000	11.6		mg/kg							0.19 U		0.042 U		0.041 U		0.039 U		0.04 U		0.037 U		0.21 U		0.21 U		0.21 U	
Aniline	400	0.092		mg/kg																								
Anthracene	230000	1160		mg/kg							0.15		0.021 U		0.021 U		0.011 J		0.02 U		0.006 J		4.3		0.25		0.25	
Atrazine	10	0.004	0.038	mg/kg							0.95 U		0.21 U		0.2 U		0.2 U		0.2 U		0.18 U		1 U		1 U		1 U	
Azobenzene	26	0.0186		mg/kg																								
Benzaldehyde	820	0.082		mg/kg							0.95 U		0.21 UJ		0.2 UJ		0.2 UJ		0.2 UJ		0.18 UJ		1 U		1 U		1 U	
Benzenamine, N,N-Dimethyl-4-(Pehnylazo)-	0.5	0.00042		mg/kg																								
Benzenethanamine, Alpha, Alpha-Dimethyl-				mg/kg																								
Benzidine	0.01	0.0000056		mg/kg																								
Benzo(A)Anthracene	21	0.22		mg/kg							0.097 U		0.021 U		0.01 J		0.036		0.006 J		0.019		1.5		1.2		1.2	
Benzo(A)Pyrene	2.1	0.58	4.8	mg/kg							0.097 U		0.021 U		0.005 J		0.02 J		0.02 U		0.029		2.1		0.94		0.94	
Benzo(B)Fluoranthene	21	6		mg/kg							4		0.021 U		0.015 J		0.047		0.006 J		0.05		5.4		1.1		1.1	
Benzo(G,H,I)perylene				mg/kg							1.4		0.021 U		0.007 J		0.023		0.02 U		0.031		1.4		0.54		0.54	
Benzo(K)Fluoranthene	210	58		mg/kg							0.73		0.021 U		0.01 J		0.037		0.02 U		0.019		2.2		0.38		0.38	
Benzoic Acid	3300000	300		mg/kg																								
Benzyl Alcohol	82000	9.6		mg/kg																								
bis-(2-Chloroethoxy)Methane	2500	0.26		mg/kg							0.19 U		0.042 U		0.041 U		0.039 U		0.04 U		0.037 U		0.21 U		0.21 U		0.21 U	
bis-(2-Chloroethyl)Ether	1	0.000072		mg/kg							0.19 U		0.042 U		0.041 U		0.039 U		0.04 U		0.037 U		0.21 U		0.21 U		0.21 U	
bis-(2-Chloroisopropyl)Ether				mg/kg							0.19 U		0.042 U		0.041 UJ		0.039 UJ		0.04 UJ		0.037 U		0.21 U		0.21 U		0.21 U	
bis-(2-Ethylhexyl)Phthalate	160	26	28	mg/kg							0.97 U		0.21 U		0.21 U		0.2 U		0.2 U		0.19 U		1.1 U		1.1 U		1.1 U	
Butylbenzyl Phthalate	1200	4.8		mg/kg							0.95 U		0.21 U		0.2 U		0.2 U		0.2 U		0.18 U		1 U		1 U		1 U	
Caprolactam	400000	50		mg/kg							0.95 U		0.21 U		0.2 U		0.2 U		0.2 U		0.18 U		1 U		1 U		1 U	
Carbazole				mg/kg							0.19 U		0.042 U		0.041 U		0.039 U		0.04 U		0.037 U		0.14 J		0.21 U		0.21 U	
Chlorobenzilate	21	0.02		mg/kg																								
Chrysene	2100	180		mg/kg							0.097 U		0.021 U		0.016 J		0.059		0.01 J		0.025		3.3		1.2		1.2	
Diallate	38	0.016		mg/kg																								
Dibenzo(a,h)Anthracene	2.1	1.92		mg/kg							0.4		0.021 U		0.021 U		0.02 U		0.02 U		0.019 U		0.67		0.22		0.22	
Dibenzofuran	1200	3		mg/kg							0.19 U		0.042 U		0.041 U		0.039 U		0.04 U		0.037 U		0.21 U		0.21 U		0.21 U	
Diethyl Phthalate	660000	122		mg/kg							0.95 U		0.21 U		0.2 U		0.2 U		0.2 U		0.18 U		1 U		1 U		1 U	
Dimethoate	1800	0.198		mg/kg																								
Dimethyl Phthalate				mg/kg							0.95 U		0.21 U		0.2 U		0.2 U		0.2 U		0.18 U		1 U		1 U		1 U	
Di-n-Butyl Phthalate	82000	46		mg/kg							0.95 U		0.21 U		0.2 U		0.2 U		0.2 U		0.18 U	</						

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 Claymont, Delaware
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Parameter	Location Sample ID Sample Date			Units	SM19-SB SM19-SB-(5.5-6)_073015 7/30/2015		SM19-SB SM19-SB-(8.5-9)_073015 7/30/2015		SM19-SB SM19-SB-(11.5-12)_073015 7/30/2015		SM19-SB01 SM19-SB1-SS_100615 10/6/2015		SM19-SB01 SM19-SB1-3_072315 7/23/2015		SM19-SB01 SM19-SB1-(5.5-6.0)_073015 7/30/2015		SM19-SB01 SM19-SB1-(8.5-9.0)_073015 7/30/2015		SM19-SB01 SM19-SB1-(11.5-12.0)_073015 7/30/2015		SM19-SS01 SM19-SS01_100615 10/6/2015		SM19-SS02 SM19-SS02_100615 10/6/2015		SM19-SS03 SM19-SS03_100615 10/6/2015							
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20		Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual				
Hexachloroethane	8	0.004		mg/kg							0.95	U		0.21	U		0.2	U		0.2	U		0.18	U		1	U		1	U		
Hexachloropropene				mg/kg																												
Indeno(1,2,3-Cd)Pyrene	21	19.6		mg/kg							1.4			0.021	U		0.005	J		0.015	J		0.02	U		0.03		1.6		0.47		
Isodrin				mg/kg																												
Isophorone	2400	0.52		mg/kg							0.19	U		0.042	U		0.041	U		0.039	U		0.04	U		0.037	U		0.21	U	0.21	U
Isosafrole				mg/kg																												
Kepone	0.23	0.0024		mg/kg																												
Methanesulfonic Acid, Ethyl Ester				mg/kg																												
Methapyriline				mg/kg																												
Methyl Methanesulfonate	23	0.0032		mg/kg																												
Methyl Parathion	210	0.148		mg/kg																												
Naphthalene	8.6	0.0076		mg/kg							0.097	U		0.021	U		0.23			0.48		0.063		0.019	U		0.13		0.04	J		
Nitrobenzene	22	0.00184		mg/kg							0.19	U		0.042	U		0.041	U		0.039	U		0.04	U		0.037	U		0.21	U		
n-Nitrosodiethylamine	0.015	0.0000122		mg/kg																												
n-Nitrosodimethylamine	0.034	0.0000054		mg/kg																												
n-Nitrosodi-n-Butylamine	0.46	0.00011		mg/kg																												
n-Nitroso-di-n-Propylamine	0.33	0.000162		mg/kg							0.19	UJ		0.042	U		0.041	U		0.039	U		0.04	U		0.037	UJ		0.21	UJ	0.21	UJ
n-Nitrosodiphenylamine	470	1.34		mg/kg							0.19	U		0.042	U		0.041	U		0.039	U		0.04	U		0.037	U		0.21	U	0.21	U
n-Nitrosomethylethylamine	0.091	0.000004		mg/kg																												
n-Nitrosomorpholine	0.34	0.000056		mg/kg																												
n-Nitrosopiperidine	0.24	0.000088		mg/kg																												
n-Nitrosopyrrolidine	1.1	0.00028		mg/kg																												
O,O,O-Triethyl Phosphorothioate				mg/kg																												
o-Toluidine	140	0.04		mg/kg																												
Pentachlorobenzene	930	0.48		mg/kg																												
Pentachloronitrobenzene	13	0.03		mg/kg																												
Pentachlorophenol	4	0.00114	0.028	mg/kg							0.97	U		0.21	U		0.21	U		0.2	U		0.2	U		0.19	U		1.1	U	1.1	U
Phenacetin	1000	0.194		mg/kg																												
Phenanthrene				mg/kg							0.19			0.021	U		0.029			0.1		0.018	J		0.015	J		0.99		0.74		
Phenol	250000	66		mg/kg							0.19	U		0.042	U		0.041	U		0.028	J		0.04	U		0.037	U		0.21	U	1	
Phorate	160	0.068		mg/kg																												
p-Phenylenediamine	820	0.108		mg/kg																												
Pronamide	62000	24		mg/kg																												
Pyrene	23000	260		mg/kg							0.44			0.021	U		0.034			0.11		0.02	J		0.031		1.2		1.7			
Pyridine	1200	0.136		mg/kg																												
Quinoline, 4-Nitro-1-Oxide-				mg/kg																												
Safrole	10	0.00118		mg/kg																												
Thionazine				mg/kg																												
Thiopyrophosphoric Acid ((HO)2P(S)2O), Tetraethyl	410	0.104		mg/kg																												
Total Aramite	92	0.3		mg/kg																												
Cyanide, Total	150	0.3	40	mg/kg																												

Notes:
 Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), Industrial Soil Screening Level (SSL) (November 2021)
 Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20
 Exceeds the EPA RSL, Maximum Contaminant Level (MCL) SSL assuming a DAF of 20
 Blanks indicate RSL not established or constituent not analyzed
 RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0
 U = undetected
 J = estimated value
 J+ = estimated biased high
 J- = estimated biased low
 R = rejected
 MG/KG - milligram per kilogram
 SWMU = Solid Waste Management Unit
 RCRA = Resource Conservation and Recovery Act
 Sample depth shown in Sample ID (e.g., SBBF3-04_6-8 indicates 6 to 8-foot sample)
 DUP = Duplicate sample
 Exceedances shown may exceed one or more criteria if available

Table 8. SWMU 19 Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location			Units	SM19-TP03-01		SM19-TP04-01	
	Industrial SSL	Risk-Based SSL	MCL-Based SSL		Sample ID	Sample Date	Sample ID	Sample Date
		DAF-20	DAF-20		Result	Qual	Result	Qual
Metals								
Aluminum	1100000	600000		mg/kg				
Antimony	470	7	5.4	mg/kg	0.6	B		
Arsenic	3	0.03	5.8	mg/kg	8.5			
Barium	220000	3200	1640	mg/kg	67.7			
Beryllium	2300	380	64	mg/kg	0.1	B		
Boron	230000	260		mg/kg	25.2			
Cadmium	100	2.8	7.6	mg/kg	0	B		
Calcium				mg/kg				
Chromium			3600000	mg/kg	17	K		
Cobalt	350	5.4		mg/kg	2	B		
Copper	47000	560	920	mg/kg	16			
Iron	820000	7000		mg/kg				
Lead	800		280	mg/kg	27.9	J		
Magnesium				mg/kg				
Manganese	26000	560		mg/kg				
Nickel	22000	520		mg/kg	3	B		
Potassium				mg/kg				
Selenium	5800	10.4	5.2	mg/kg	1.1			
Silver	5800	16		mg/kg	0.2	U		
Sodium				mg/kg				
Thallium	12	0.28	2.8	mg/kg	0.4	U		
Tin	700000	60000		mg/kg	3.1	B		
Vanadium	5800	1720		mg/kg	26.3			
Zinc	350000	7400		mg/kg	11.1	J		
Mercury	46	0.66	2	mg/kg	0	L		
Pesticides								
4,4'-DDD	9.6	0.15		mg/kg	1.9		35	
4,4'-DDE	9.3	0.22		mg/kg	0.72		51	
4,4'-DDT	8.5	1.54		mg/kg	1		49	
Aldrin	0.18	0.003		mg/kg	0.1	U	2	U
Alpha-BHC	0.36	0.00084		mg/kg	0.1	U	2	U
Beta-BHC	1.3	0.003		mg/kg	0.1	U	2	U
Chlordane				mg/kg	1	U	20	U
cis-Chlordane	500	9.8		mg/kg			2	U
Delta-BHC				mg/kg	0.1	U	2	U
Dieldrin	0.14	0.00142		mg/kg	0.2	U	4	U
Endosulfan I				mg/kg	0.1	U	2	U
Endosulfan II				mg/kg	0.2	U	4	U
Endosulfan Sulfate	4900	42		mg/kg	0.2	U	4	U
Endrin	250	1.84	1.62	mg/kg	0.2	U	4	U
Endrin Aldehyde				mg/kg	0.2	U	4	U
Endrin Ketone				mg/kg			4	U
Gamma-BHC (Lindane)	2.5	0.0048	0.024	mg/kg	0.1	U	2	U
Gamma-Chlordane				mg/kg				
Heptachlor	0.63	0.0024	0.66	mg/kg	0.1	U	2	U
Heptachlor Epoxide	0.33	0.00056	0.082	mg/kg	0.1	U	2	U
Kepon	0.23	0.0024		mg/kg				
Methoxychlor	4100	40	44	mg/kg	1	UJ	20	UJ
Toxaphene	2.1	0.22	9.2	mg/kg	10	U	200	U
trans-Chlordane	500	28		mg/kg			2	U
Volatile Organic Compound								
2,4,5-T	8200	1.36		mg/kg	0.022	UJ		
2,4,5-TP (Silvex)	6600	1.22	0.56	mg/kg	0.02	UJ		
Dinoseb	820	2.6	1.24	mg/kg	0.12	UJ		
1,1,1,2-Tetrachloroethane	8.8	0.0044		mg/kg	0.61	U	8.5	U
1,1,1-Trichloroethane	36000	56	1.4	mg/kg	0.61	U	8.5	U
1,1,2,2-Tetrachloroethane	2.7	0.0006		mg/kg	0.61	U	8.5	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	28000	520		mg/kg	0.61	U	8.5	U
1,1,2-Trichloroethane	5	0.00178	0.032	mg/kg	0.61	U	8.5	U
1,1-Dichloroethane	16	0.0156		mg/kg	0.61	U	8.5	U
1,1-Dichloroethene	1000	2	0.05	mg/kg	0.61	U	8.5	U
1,1-Dichloropropene				mg/kg	0.61	U	8.5	U
1,2,3-Trichlorobenzene	930	0.42		mg/kg	0.61	U	8.5	U
1,2,3-Trichloropropane	0.11	0.000064		mg/kg	0.61	U	8.5	U
1,2,4-Trichlorobenzene	110	0.068	4	mg/kg	0.61	U	8.5	U
1,2,4-Trimethylbenzene	1800	1.62		mg/kg	0.61	U	8.5	U
1,2-Dibromo-3-Chloropropane	0.064	0.000028	0.00172	mg/kg	0.61	U	8.5	U
1,2-Dibromoethane	0.16	0.000042	0.00028	mg/kg	0.61	U	8.5	U
1,2-Dichlorobenzene	9300	6	11.6	mg/kg	0.61	U	8.5	U
1,2-Dichloroethane	2	0.00096	0.028	mg/kg	0.61	U	8.5	U
1,2-Dichloroethene (Total)				mg/kg	0.61	U	8.5	U
1,2-Dichloropropane	11	0.0056	0.034	mg/kg	0.61	U	8.5	U
1,3,5-Trimethylbenzene	1500	1.74		mg/kg	0.61	U	8.5	U
1,3-Dichlorobenzene				mg/kg	0.61	U	8.5	U
1,3-Dichloropropane	23000	2.6		mg/kg	0.61	U	8.5	U
1,4-Dichlorobenzene	11	0.0092	1.44	mg/kg	0.61	U	8.5	U
1,4-Dioxane	24	0.00188		mg/kg	31	R	430	R
2,2-Dichloropropane				mg/kg	0.61	U	8.5	U

Table 8. SWMU 19 Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location			Units	SM19-TP03-01		SM19-TP04-01	
	Industrial SSL	Risk-Based SSL	MCL-Based SSL		Sample ID	Sample Date	Sample ID	Sample Date
	DAF-20	DAF-20	DAF-20	Result	Qual	Result	Qual	
2-Butanone	190000	24		0.61	R	8.5	R	
2-Chloroethyl Vinyl Ether				0.61	U	8.5	U	
2-Chlorotoluene	23000	4.6		0.61	U	8.5	U	
2-Hexanone	1300	0.176		0.61	U	8.5	U	
4-Chlorotoluene	23000	4.8		0.61	U	8.5	U	
4-Methyl-2-Pentanone	140000	28		0.61	U	8.5	U	
Acetone	1100000	74		0.61	R	8.5	R	
Acetonitrile	3400	0.52						
Acrolein	0.6	0.000168		0.61	R	8.5	R	
Acrylonitrile	1.1	0.00022		0.61	R	8.5	R	
Allyl Chloride	3.2	0.0046		0.61	U	8.5	U	
Benzene	5.1	0.0046	0.052	0.61	U	8.5	U	
Bromobenzene	1800	0.84		0.61	U	8.5	U	
Bromochloromethane	630	0.42		0.61	U	8.5	U	
Bromodichloromethane	1.3	0.00072	0.44	0.61	U	8.5	U	
Bromoform	86	0.0174	0.42	0.61	U	8.5	U	
Bromomethane	30	0.038		0.61	U	8.5	U	
Butylbenzene	58000	64		0.61	U	8.5	U	
Carbon Disulfide	3500	4.8		0.61	U	8.5	U	
Carbon Tetrachloride	2.9	0.0036	0.038	0.61	U	8.5	U	
Chlorobenzene	1300	1.06	1.36			260		
Chloroethane	23000	48		0.61	U	8.5	U	
Chloroform	1.4	0.00122	0.44	0.61	U	8.5	U	
Chloromethane	460	0.98		0.61	U	8.5	U	
Chloroprene	0.044	0.000196		0.61	U	8.5	U	
cis-1,2-Dichloroethene	2300	0.22	0.42	0.61	U	8.5	U	
cis-1,3-Dichloropropene				0.61	U	8.5	U	
cis-1,4-Dichloro-2-Butene	0.032	0.0000124		0.61	U	8.5	U	
Cyclohexane	27000	260						
Dibromochloromethane	39	0.0046	0.42	0.61	U	8.5	U	
Dibromomethane	99	0.042		0.61	U	8.5	U	
Dichlorodifluoromethane	370	6		0.61	U	8.5	U	
Ethane, Pentachloro-	36	0.0062						
Ethyl Cyanide				2.5	R	34	R	
Ethyl Methacrylate	7600	3		0.61	U	8.5	U	
Ethylbenzene	25	0.034	15.6	0.61	U	8.5	U	
Hexachlorobutadiene	5.3	0.0054		0.61	U	8.5	U	
Iodomethane				0.61	U	8.5	U	
Isobutanol	350000	24		31	R	430	R	
Isopropylbenzene	9900	14.8		0.61	U	8.5	U	
m&p-Xylenes				0.61	U	8.5	U	
Methacrylonitrile	100	0.0086		0.61	U	8.5	U	
Methyl Acetate	1200000	82						
Methyl Methacrylate	19000	6		0.61	U	8.5	U	
Methyl Tert-Butyl Ether	210	0.064		0.61	U	8.5	U	
Methylcyclohexane								
Methylene Chloride	1000	0.058	0.026	0.61	U	8.5	U	
Naphthalene	8.6	0.0076		0.61	U	8.5	U	
n-Propylbenzene	24000	24		0.61	U	8.5	U	
o-Xylene	2800	3.8		0.61	U	8.5	U	
p-Isopropyltoluene				0.61	U	8.5	U	
Sec-Butylbenzene	120000	118		0.61	U	8.5	U	
Styrene	35000	26	2.2	0.61	U	8.5	U	
Tert-Butylbenzene	120000	32		0.61	U	8.5	U	
Tetrachloroethene	100	0.102	0.046	0.61	U	8.5	U	
Tetrahydrofuran	95000	15		6.1	R	85	R	
Toluene	47000	15.2	13.8	0.61	U	8.5	U	
Total Xylenes	2500	3.8	198	0.61	U	8.5	U	
trans-1,2-Dichloroethene	300	0.42	0.62	0.61	U	8.5	U	
trans-1,3-Dichloropropene				0.61	U	8.5	U	
trans-1,4-Dichloro-2-Butene	0.032	0.0000124		0.61	U	8.5	U	
Trichloroethene	6	0.0036	0.036	0.61	U	8.5	U	
Trichlorofluoromethane	350000	66		0.61	U	8.5	U	
Vinyl Acetate	3800	1.74		0.61	U	8.5	U	
Vinyl Chloride	1.7	0.00013	0.0138	0.61	U	8.5	U	
Semi-Volatile Organic Compounds								
1,1'-Biphenyl	200	0.174						
1,2,4,5-Tetrachlorobenzene	35	0.0158		0.4	U			
1,2,4-Trichlorobenzene	110	0.068	4	0.4	U			
1,2-Dichlorobenzene	9300	6	11.6	0.4	U			
1,2-Diphenylhydrazine/Azobenzene	2.9	0.005						
1,3,5-Trinitrobenzene	32000	42		0.4	U			
1,3-Dichlorobenzene				0.4	U			
1,3-Dinitrobenzene	82	0.036		0.4	U			
1,4-Dichlorobenzene	11	0.0092	1.44	0.018	J			
1,4-Dioxane	24	0.00188						
1,4-Naphthoquinone				0.4	U			
1-Naphthylamine				0.4	U			
2,2'-Oxybis(1-Chloropropane)	47000	5.2		0.4	U			

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 Wood Project No. 3482210786

Parameter	Location			Units	SM19-TP03-01		SM19-TP04-01	
	Industrial SSL	Risk-Based SSL	MCL-Based SSL		Sample ID	Sample Date	Sample ID	Sample Date
	DAF-20	DAF-20	DAF-20	Result	Qual	Result	Qual	
2,3,4,6-Tetrachlorophenol	25000	3.6		mg/kg	0.4 U			
2,4,5-Trichlorophenol	82000	80		mg/kg	1 U			
2,4,6-Trichlorophenol	210	0.08		mg/kg	0.4 U			
2,4-Dichlorophenol	2500	0.46		mg/kg	0.4 U			
2,4-Dimethylphenol	16000	8.4		mg/kg	0.4 U			
2,4-Dinitrophenol	1600	0.88		mg/kg	1 U			
2,4-Dinitrotoluene	7.4	0.0064		mg/kg	0.4 U			
2,6-Dichlorophenol				mg/kg	0.4 U			
2,6-Dinitrotoluene	1.5	0.00134		mg/kg	0.4 U			
2-Acetylaminofluorene (TIC)	0.6	0.0015		mg/kg	0.4 U			
2-Chloronaphthalene	60000	78		mg/kg	0.4 UJ			
2-Chlorophenol	5800	1.78		mg/kg	0.11 J			
2-Methylnaphthalene	3000	3.8		mg/kg	0.051 J			
2-Methylphenol	41000	15		mg/kg	0.4 U			
2-Naphthylamine	1.3	0.004		mg/kg	0.4 U			
2-Nitroaniline	8000	1.6		mg/kg	1 U			
2-Nitrophenol				mg/kg	0.4 U			
2-Picoline				mg/kg	0.4 U			
3,3'-Dichlorobenzidine	5.1	0.0164		mg/kg	0.4 U			
3,3'-Dimethylbenzidine	0.21	0.00086		mg/kg	0.4 U			
3-Methylcholanthrene	0.1	0.044		mg/kg	0.4 U			
3-Nitroaniline				mg/kg	1 U			
4,6-Dinitro-2-Methylphenol	66	0.052		mg/kg	1 U			
4-Aminobiphenyl	0.11	0.0003		mg/kg	0.4 U			
4-Bromophenyl Phenyl Ether				mg/kg	0.4 U			
4-Chloro-3-Methylphenol	82000	34		mg/kg	0.4 U			
4-Chloroaniline	11	0.0032		mg/kg	0.4 U			
4-Chlorophenyl Phenyl Ether				mg/kg	0.4 U			
4-Methylphenol	16000	6		mg/kg	0.4 U			
4-Nitroaniline	110	0.032		mg/kg	1 U			
4-Nitrophenol				mg/kg	1 U			
5-Nitro-o-Toluidine	260	0.092		mg/kg	0.4 U			
7,12-Dimethylbenz(A)Anthracene	0.0084	0.00198		mg/kg	0.4 U			
Acenaphthene	45000	110		mg/kg	0.4 U			
Acenaphthylene				mg/kg	0.4 U			
Acetophenone	120000	11.6		mg/kg	0.4 U			
Aniline	400	0.092		mg/kg	1 U			
Anthracene	230000	1160		mg/kg	0.4 U			
Atrazine	10	0.004	0.038	mg/kg				
Azobenzene	26	0.0186		mg/kg	0.4 U			
Benzaldehyde	820	0.082		mg/kg				
Benzenamine, N,N-Dimethyl-4-(Pehnylazo)-	0.5	0.00042		mg/kg	0.4 U			
Benzenethanamine, Alpha, Alpha-Dimethyl-				mg/kg	0.4 U			
Benzidine	0.01	0.0000056		mg/kg	1 U			
Benzo(A)Anthracene	21	0.22		mg/kg	0.12 J			
Benzo(A)Pyrene	2.1	0.58	4.8	mg/kg	0.078 J			
Benzo(B)Fluoranthene	21	6		mg/kg	0.12 J			
Benzo(G,H,I)perylene				mg/kg	0.074 J			
Benzo(K)Fluoranthene	210	58		mg/kg	0.12 J			
Benzoic Acid	3300000	300		mg/kg	1 U			
Benzyl Alcohol	82000	9.6		mg/kg	0.4 U			
bis-(2-Chloroethoxy)Methane	2500	0.26		mg/kg	0.4 U			
bis-(2-Chloroethyl)Ether	1	0.000072		mg/kg	0.4 U			
bis-(2-Chloroisopropyl)Ether				mg/kg				
bis-(2-Ethylhexyl)Phthalate	160	26	28	mg/kg	0.035 J			
Butylbenzyl Phthalate	1200	4.8		mg/kg	0.4 U			
Caprolactam	400000	50		mg/kg				
Carbazole				mg/kg	0.4 U			
Chlorobenzilate	21	0.02		mg/kg	0.4 U			
Chrysene	2100	180		mg/kg	0.14 J			
Diallate	38	0.016		mg/kg	0.4 U			
Dibenzo(a,h)Anthracene	2.1	1.92		mg/kg	0.027 J			
Dibenzofuran	1200	3		mg/kg	0.018 J			
Diethyl Phthalate	660000	122		mg/kg	0.4 U			
Dimethoate	1800	0.198		mg/kg	0.4 U			
Dimethyl Phthalate				mg/kg	0.4 U			
Di-n-Butyl Phthalate	82000	46		mg/kg	0.4 U			
Di-n-Octyl Phthalate	8200	1140		mg/kg	0.4 U			
Dinoseb	820	2.6	1.24	mg/kg	0.4 U			
Disulfoton	33	0.0188		mg/kg	0.4 U			
Ethane, Pentachloro-	36	0.0062		mg/kg	0.4 U			
Ethyl Methacrylate	7600	3		mg/kg	0.4 U			
Ethyl Parathion	4900	8.6		mg/kg	0.4 U			
Famphur				mg/kg	0.4 R			
Fluoranthene	30000	1780		mg/kg	0.26 J			
Fluorene	30000	108		mg/kg	0.4 U			
Hexachlorobenzene	0.96	0.0024	0.26	mg/kg	0.4 U			
Hexachlorobutadiene	5.3	0.0054		mg/kg	0.4 U			
Hexachlorocyclopentadiene	7.5	0.026	3.2	mg/kg	0.4 R			

Table 8. SWMU 19 Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location			Units	SM19-TP03-01		SM19-TP04-01	
	Industrial SSL	Risk-Based SSL	MCL-Based SSL		Sample ID	Sample Date	Sample ID	Sample Date
	DAF-20	DAF-20	DAF-20	Result	Qual	Result	Qual	
Hexachloroethane	8	0.004		mg/kg	0.4 U			
Hexachloropropene				mg/kg	0.4 U			
Indeno(1,2,3-Cd)Pyrene	21	19.6		mg/kg	0.068 J			
Isodrin				mg/kg	0.4 U			
Isophorone	2400	0.52		mg/kg	0.4 U			
Isosafrole				mg/kg	0.4 U			
Kepone	0.23	0.0024		mg/kg	1 R			
Methanesulfonic Acid, Ethyl Ester				mg/kg	0.4 U			
Methapyrilene				mg/kg	0.4 U			
Methyl Methanesulfonate	23	0.0032		mg/kg	0.4 U			
Methyl Parathion	210	0.148		mg/kg	0.4 U			
Naphthalene	8.6	0.0076		mg/kg	0.042 J			
Nitrobenzene	22	0.00184		mg/kg	0.4 U			
n-Nitrosodiethylamine	0.015	0.00000122		mg/kg	0.4 U			
n-Nitrosodimethylamine	0.034	0.00000054		mg/kg	0.4 U			
n-Nitrosodi-n-Butylamine	0.46	0.00011		mg/kg	0.4 U			
n-Nitroso-di-n-Propylamine	0.33	0.000162		mg/kg	0.4 U			
n-Nitrosodiphenylamine	470	1.34		mg/kg	0.4 U			
n-Nitrosomethylethylamine	0.091	0.000004		mg/kg	0.4 U			
n-Nitrosomorpholine	0.34	0.000056		mg/kg	0.4 U			
n-Nitrosopiperidine	0.24	0.000088		mg/kg	0.4 U			
n-Nitrosopyrrolidine	1.1	0.00028		mg/kg	0.4 U			
O,O,O-Triethyl Phosphorothioate				mg/kg	0.4 U			
o-Toluidine	140	0.04		mg/kg	0.4 U			
Pentachlorobenzene	930	0.48		mg/kg	0.4 U			
Pentachloronitrobenzene	13	0.03		mg/kg	0.4 U			
Pentachlorophenol	4	0.00114	0.028	mg/kg	1 U			
Phenacetin	1000	0.194		mg/kg	0.4 U			
Phenanthrene				mg/kg	0.24 J			
Phenol	250000	66		mg/kg	0.4 U			
Phorate	160	0.068		mg/kg	0.4 U			
p-Phenylenediamine	820	0.108		mg/kg	0.4 R			
Pronamide	62000	24		mg/kg	0.4 U			
Pyrene	23000	260		mg/kg	0.29 J			
Pyridine	1200	0.136		mg/kg	0.4 U			
Quinoline, 4-Nitro-1-Oxide-				mg/kg	0.4 R			
Safrole	10	0.00118		mg/kg	0.4 U			
Thionazine				mg/kg	0.4 U			
Thiopyrophosphoric Acid ((Ho)2P(S)2O), Tetraethyl	410	0.104		mg/kg	0.4 U			
Total Aramite	92	0.3		mg/kg	0.4 U			
Cyanide, Total	150	0.3	40	mg/kg	0.6 U			

Notes:

Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), Industrial Soil Screening Level (SSL) (November 2021)

Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20

Exceeds the EPA RSL, Maximum Contaminant Level (MCL) SSL assuming a DAF of 20

Blanks indicate RSL not established or constituent not analyzed

RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0

U = undetected

J = estimated value

J+ = estimated biased high

J- = estimated biased low

R = rejected

MG/KG - milligram per kilogram

SWMU = Solid Waste Management Unit

RCRA = Resource Conservation and Recovery Act

Sample depth shown in Sample ID (e.g., SBBF3-04_6-8 indicates 6 to 8-foot sample)

DUP = Duplicate sample

Exceedances shown may exceed one or more criteria if available

Table 9. SWMU 20 Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Industrial SSL	Risk-Based SSL		MCL-Based SSL		Units	SM20-GP14-01 37982-0012-04 11/10/2004		SM20-SS01 SM20-SS01_100715 10/7/2015		SM20-SS02 SM20-SS02_100715 10/7/2015		SM20-SS03 SM20-SS03_100715 10/7/2015		SM20-SS03 DUP20_100715 10/7/2015		SM20-TP02-01 SM20-TP02-010417031 4/17/2003		SM20-TP03-01 SM20-TP03-010417031 4/17/2003			
		DAF-20	MCL-DAF-20	Result	Qual		Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual		
Hexachloropropene				mg/kg	0.7	U													0.4	U		
Indeno(1,2,3-Cd)Pyrene	21	19.6		mg/kg	0.4	J		0.19	U		0.007	J		0.053			0.074			0.4	U	
Isodrin				mg/kg	0.23	U														0.4	U	
Isophorone	2400	0.52		mg/kg	0.23	U		0.37	U		0.035	U		0.037	U		0.038	U		0.4	U	
Isosafrole				mg/kg	0.47	U														0.4	U	
Kepon	0.23	0.0024		mg/kg																1	R	
Methanesulfonic Acid, Ethyl Ester				mg/kg	0.47	U														0.4	U	
Methapyrene				mg/kg	0.7	U														0.4	U	
Methyl Methanesulfonate	23	0.0032		mg/kg	0.23	U														0.4	U	
Methyl Parathion	210	0.148		mg/kg																0.4	U	
Naphthalene	8.6	0.0076		mg/kg	0.39	J		0.19	U		0.018	U		0.024	J		0.046	J		0.4	U	
Nitrobenzene	22	0.00184		mg/kg	0.23	U		0.37	U		0.035	U		0.037	U		0.038	U		0.4	U	
n-Nitrosodiethylamine	0.015	0.00000122		mg/kg	0.47	U														0.4	U	
n-Nitrosodimethylamine	0.034	0.00000054		mg/kg	0.47	U														0.4	U	
n-Nitrosodi-n-Butylamine	0.46	0.00011		mg/kg	0.47	U														0.4	U	
n-Nitroso-di-n-Propylamine	0.33	0.000162		mg/kg	0.23	U		0.37	U		0.035	U		0.037	U		0.038	U		0.4	U	
n-Nitrosodiphenylamine	470	1.34		mg/kg	0.23	U		0.37	U		0.035	U		0.02	J		0.036	J		0.4	U	
n-Nitrosomethylethylamine	0.091	0.000004		mg/kg	0.47	U														0.4	U	
n-Nitrosomorpholine	0.34	0.000056		mg/kg	0.47	U														0.4	U	
n-Nitrosopiperidine	0.24	0.000088		mg/kg	0.47	U														0.4	U	
n-Nitrosopyrrolidine	1.1	0.00028		mg/kg	0.47	U														0.4	U	
O,O,O-Triethyl Phosphorothioate				mg/kg	0.47	U														0.4	U	
p-Toluidine	140	0.04		mg/kg	0.47	U														0.4	U	
Pentachlorobenzene	930	0.48		mg/kg	0.47	U														0.4	U	
Pentachloronitrobenzene	13	0.03		mg/kg	0.93	U														0.4	U	
Pentachlorophenol	4	0.00114	0.028	mg/kg	1.2	U		1.9	U		0.18	U		0.19	U		0.19	U		1	U	
Phenacetin	1000	0.194		mg/kg	0.47	U														0.4	U	
Phenanthrene				mg/kg	1.4	J		0.19	U		0.006	J		0.099			0.09			0.4	U	
Phenol	250000	66		mg/kg	0.23	U		0.37	U		0.035	U		0.037	U		0.038	U		0.4	U	
Phorate	160	0.068		mg/kg																0.4	U	
p-Phenylenediamine	820	0.108		mg/kg	17	U														0.4	R	
Pronamide	62000	24		mg/kg	0.93	U														0.4	U	
Pyrene	23000	260		mg/kg	1.7	J		0.19	U		0.009	J		0.1			0.14			0.4	U	
Pyridine	1200	0.136		mg/kg	0.47	U														0.4	U	
Quinoline, 4-Nitro-1-Oxide-				mg/kg	2.3	U														0.4	R	
Safrole	10	0.00118		mg/kg	0.47	U														0.4	U	
Thionazine				mg/kg	0.47	U														0.4	U	
Thiopyrophosphoric Acid ((Ho)2P(S)2O), Tetraethyl	410	0.104		mg/kg	0.47	U														0.4	U	
Total Aramite	92	0.3		mg/kg	0.23	U														0.4	U	
Cyanide, Total	150	0.3	40	mg/kg																0.5	U	
Fluoride	47000	2400	12000	mg/kg	14.4	J														4.1		5.5 B
Iodine	12000	240		mg/kg	1.1	U														2.9	U	3.4 U
Sulfide				mg/kg																9.5	L	

Notes:
 Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), Industrial Soil Screening Level (SSL) (November 2021)
 Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20
 Exceeds the EPA RSL, Maximum Contaminant Level (MCL) SSL assuming a DAF of 20
 Blanks indicate RSL not established or constituent not analyzed
 RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0
 U = undetected
 J = estimated value
 J+ = estimated biased high
 J- = estimated biased low
 R = rejected
 MG/KG - milligram per kilogram
 SWMU = Solid Waste Management Unit
 RCRA = Resource Conservation and Recovery Act
 Sample depth shown in Sample ID (e.g., SBBF3-04_6-8 indicates 6 to 8-foot sample)
 DUP = Duplicate sample
 Exceedances shown may exceed one or more criteria if available

Table 10. SWMU 21, 22, 30 Soil Analytical Results
RCRA Facility Investigation Report
Honeywell Delaware Valley Works
Claymont, Delaware
Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date			Units	B21-A B21-A121102 12/11/2002		B21-B B21-B121202 12/12/2002		B21-C B21-C121102 12/11/2002		B21-D B21-D121102 12/11/2002		B21-E B21-E121102 12/11/2002		B21-F B21-F121102 12/11/2002		B21-G B21-G121102 12/11/2002		B21-G B21-G121102FD 12/11/2002		B21-H B21-H012303 1/23/2003		B21-H B21-H012303FD 1/23/2003		B21-I B21-I121102 12/11/2002				
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20		Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	
o-Toluidine	140	0.04		mg/kg	0.38	UJ		0.5	UJ	0.51	UJ	0.39	UJ	0.36	UJ	0.39	UJ	0.42	UJ	0.41	UJ	0.36	UJ	0.37	UJ	0.37	UJ	0.4	UJ
Pentachlorobenzene	930	0.48		mg/kg	0.31	J		0.5	UJ	0.51	UJ	0.39	UJ	0.36	UJ	0.39	UJ	0.42	UJ	0.41	UJ	0.36	UJ	0.37	UJ	0.37	UJ	0.4	UJ
Pentachloronitrobenzene	13	0.03		mg/kg	0.94	UJ		0.5	UJ	1.3	UJ	0.96	UJ	0.9	UJ	0.97	UJ	1	UJ	1	UJ	0.91	UJ	0.92	UJ	0.92	UJ	0.99	UJ
Pentachlorophenol	4	0.00114	0.028	mg/kg	0.83	UJ		1.3	UJ	1	UJ	0.83	UJ	0.83	UJ	0.83	UJ	0.83	UJ	0.83	UJ	0.83	UJ	0.83	UJ	0.83	UJ	0.83	R
Phenacetin	1000	0.194		mg/kg	0.38	UJ		1	UJ	0.51	UJ	0.39	UJ	0.36	UJ	0.39	UJ	0.42	UJ	0.41	UJ	0.36	UJ	0.37	UJ	0.37	UJ	0.4	UJ
Phenanthrene				mg/kg	0.38	UJ		0.5	UJ	0.51	UJ	0.39	UJ	0.36	UJ	0.39	UJ	0.42	UJ	0.41	UJ	0.36	UJ	0.37	UJ	0.37	UJ	0.4	UJ
Phenol	250000	66		mg/kg	0.38	UJ		0.5	UJ	0.51	UJ	0.39	UJ	0.36	UJ	0.39	UJ	0.42	UJ	0.41	UJ	0.36	UJ	0.37	UJ	0.37	UJ	0.4	UJ
Phorate	160	0.068		mg/kg	0.38	UJ		0.5	UJ	0.51	UJ	0.39	UJ	0.36	UJ	0.39	UJ	0.42	UJ	0.41	UJ	0.36	UJ	0.37	UJ	0.37	UJ	0.4	UJ
p-Phenylenediamine	820	0.108		mg/kg	0.38	UJ		0.5	UJ	0.51	UJ	0.39	UJ	0.36	UJ	0.39	UJ	0.42	UJ	0.41	UJ	0.36	UJ	0.37	UJ	0.37	UJ	0.4	UJ
Pronamide	62000	24		mg/kg	0.38	UJ		0.5	UJ	0.51	UJ	0.39	UJ	0.36	UJ	0.39	UJ	0.42	UJ	0.41	UJ	0.36	UJ	0.37	UJ	0.37	UJ	0.4	UJ
Pyrene	23000	260		mg/kg	0.38	UJ		0.5	UJ	0.51	UJ	0.39	UJ	0.36	UJ	0.43	J	0.42	UJ	0.41	UJ	0.36	UJ	0.37	UJ	0.37	UJ	0.4	UJ
Pyridine	1200	0.136		mg/kg	0.38	UJ		0.5	UJ	0.51	UJ	0.39	UJ	0.36	UJ	0.39	UJ	0.42	UJ	0.41	UJ	0.36	UJ	0.37	UJ	0.37	UJ	0.4	UJ
Quinoline, 4-Nitro-1-Oxide-				mg/kg	0.38	R		1	UJ	0.51	R	0.39	R	0.36	R	0.39	R	0.42	R	0.41	R	0.36	UJ	0.37	UJ	0.37	UJ	0.4	R
Safrole	10	0.00118		mg/kg	0.38	UJ		0.5	UJ	0.51	UJ	0.39	UJ	0.36	UJ	0.39	UJ	0.42	UJ	0.41	UJ	0.36	UJ	0.37	UJ	0.37	UJ	0.4	UJ
Thionazine				mg/kg	0.38	UJ		0.5	UJ	0.51	UJ	0.39	UJ	0.36	UJ	0.39	UJ	0.42	UJ	0.41	UJ	0.36	UJ	0.37	UJ	0.37	UJ	0.4	UJ
Thiopyrophosphoric Acid ((Ho)2P(S)2O), Tetraethyl	410	0.104		mg/kg	0.38	UJ		0.5	UJ	0.51	UJ	0.39	UJ	0.36	UJ	0.39	UJ	0.42	UJ	0.41	UJ	0.36	UJ	0.37	UJ	0.37	UJ	0.4	UJ
Total Aramite	92	0.3		mg/kg	0.38	UJ		0.5	UJ	0.51	UJ	0.39	UJ	0.36	UJ	0.39	UJ	0.42	UJ	0.41	UJ	0.36	UJ	0.37	UJ	0.37	UJ	0.4	UJ
Cyanide, Total	150	0.3	40	mg/kg	1.1	U		1.5	U	1.5	U	1.2	U	1.1	U	1.2	U	1.3	U	1.3	U	1.1	U	1.1	U	1.1	U	1.2	U
pH				S.U.	7.98			6.02		7.74		7.21		8.43		7.74		6.75		6.56		7.25		7.34		7.19		7.19	

Notes:

Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), Industrial Soil Screening Level (SSL) (November 2021)

Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20

Exceeds the EPA RSL, Maximum Contaminant Level (MCL) SSL assuming a DAF of 20

Blanks indicate RSL not established or constituent not analyzed

RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0

U = undetected

J = estimated value

J+ = estimated biased high

J- = estimated biased low

R = rejected

MG/KG - milligram per kilogram

SWMU = Solid Waste Management Unit

RCRA = Resource Conservation and Recovery Act

Sample depth shown in Sample ID (e.g., SBBF3-04_6-8 indicates 6 to 8-foot sample)

DUP = Duplicate sample

Exceedances shown may exceed one or more criteria if available

Table 10. SWMU 21, 22, 30 Soil Analytical Results
RCRA Facility Investigation Report
Honeywell Delaware Valley Works
Claymont, Delaware
Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date			Units	B21-J B21-J121102 12/11/2002		B21-K B21-K121102 12/11/2002		SM21-SB01 SM21-SB1-SS_072715 7/27/2015		SM21-SB01 SM21-SB1-(1-2)_072715 7/27/2015		SM21-SB01 SM21-SB1-(10-11)_072715 7/27/2015		SM21-SB02 SM21-SB2-0.5-1.0_072415 7/24/2015		SM21-SB02 SM21-SB2-17.5-18.5_072415 7/24/2015		SM21-SB03 SM21-SB3-SS_072715 7/27/2015		SM21-SB03 SM21-SB3-(11.5-12.5)_072715 7/27/2015		SM21-SB03 DUP4-072715 7/27/2015		SM21-SS01 SM21-SS01_100715 10/7/2015		
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20		Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result
o-Toluidine	140	0.04		0.42	UJ	0.4	UJ																				
Pentachlorobenzene	930	0.48		0.42	UJ	0.4	UJ																				
Pentachloronitrobenzene	13	0.03		1.1	UJ	1	UJ																				
Pentachlorophenol	4	0.00114	0.028	0.85	UJ	0.83	UJ	0.2	U	0.21	U	0.2	U	1.9	U	0.2	U	1.8	U	0.19	U	0.2	U	0.18	U	0.18	U
Phenacetin	1000	0.194		0.42	UJ	0.4	UJ																				
Phenanthrene				0.42	UJ	0.4	UJ	0.15		0.46		0.02	U	0.61		0.02	U	0.18	U	0.019	U	0.02	U	0.018	U	0.018	U
Phenol	250000	66		0.42	UJ	0.4	UJ	0.039	U	0.041	U	0.039	U	0.38	U	0.039	U	0.36	U	0.038	U	0.04	U	0.036	U	0.036	U
Phorate	160	0.068		0.42	UJ	0.4	UJ																				
p-Phenylenediamine	820	0.108		0.42	UJ	0.4	UJ																				
Pronamide	62000	24		0.42	UJ	0.4	UJ																				
Pyrene	23000	260		0.42	UJ	0.4	UJ	0.21		0.52		0.02	U	0.56		0.02	U	0.047	J	0.019	U	0.02	U	0.018	U	0.018	U
Pyridine	1200	0.136		0.42	UJ	0.4	UJ																				
Quinoline, 4-Nitro-1-Oxide-				0.42	R	0.4	R																				
Safrole	10	0.00118		0.42	UJ	0.4	UJ																				
Thionazine				0.42	UJ	0.4	UJ																				
Thiopyrophosphoric Acid ((Ho)2P(S)2O), Tetraethyl	410	0.104		0.42	UJ	0.4	UJ																				
Total Aramite	92	0.3		0.42	UJ	0.4	UJ																				
Cyanide, Total	150	0.3	40	1.3	U	1.2	U																				
pH				S.U.	6.98	7.21																					

Notes:
Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), Industrial Soil Screening Level (SSL) (November 2021)
Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20
Exceeds the EPA RSL, Maximum Contaminant Level (MCL) SSL assuming a DAF of 20
Blanks indicate RSL not established or constituent not analyzed
RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0
U = undetected
J = estimated value
J+ = estimated biased high
J- = estimated biased low
R = rejected
MG/KG - milligram per kilogram
SWMU = Solid Waste Management Unit
RCRA = Resource Conservation and Recovery Act
Sample depth shown in Sample ID (e.g., SBBF3-04_6-8 indicates 6 to 8-foot sample)
DUP = Duplicate sample
Exceedances shown may exceed one or more criteria if available

Table 10. SWMU 21, 22, 30 Soil Analytical Results
RCRA Facility Investigation Report
Honeywell Delaware Valley Works
Claymont, Delaware
Wood Project No. 3482210786

Parameter	Location		SM21-SS02		SM21-SS02		SM21-SS03		SM21-SS04		SM22-MW01		SM22-MW02		SM22-SB01		SM22-SB01		SM22-SB02		SM22-SB02		SM22-SB02	
	Sample ID	Sample Date	SM21-SS2_091015	9/10/2015	DUP10_091015	9/10/2015	SM21-SS3_090815	9/8/2015	SM21-SS4_080715	8/7/2015	SM22-MW1-0-1_072415	7/24/2015	SM22-MW2-0-1_072415	7/24/2015	SM22-SB1_SS_091515	9/15/2015	SM22-SB1-(10-11)_072815	7/28/2015	SM22-SB2-(0-1)_072715	7/27/2015	SM22-SB2-(9.5-10)_072815	7/28/2015	SM22-SB2-(9.5-10.0)_072815	7/28/2015
	Industrial SSL	Risk-Based SSL	MCL-Based SSL	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
o-Toluidine	140	0.04		mg/kg																				
Pentachlorobenzene	930	0.48		mg/kg																				
Pentachloronitrobenzene	13	0.03		mg/kg																				
Pentachlorophenol	4	0.00114	0.028	mg/kg	0.95	U	0.19	U	0.18	U	0.18	U	0.2	U	0.19	U	0.18	U	0.21	U	0.18	U	0.19	U
Phenacetin	1000	0.194		mg/kg																				
Phenanthrene				mg/kg	0.05	J	0.053		0.11		0.018		0.2		0.019	U	0.016	J	0.021	U	0.006	J		0.099
Phenol	250000	66		mg/kg	0.19	U	0.037	U	0.036	U	0.035	U	0.039	U	0.035	U	0.035	U	0.041	U	0.036	U		0.038
Phorate	160	0.068		mg/kg																				
p-Phenylenediamine	820	0.108		mg/kg																				
Pronamide	62000	24		mg/kg																				
Pyrene	23000	260		mg/kg	0.087	J	0.1		0.22		0.019		0.23		0.019	U	0.034		0.021	U	0.005	J		0.019
Pyridine	1200	0.136		mg/kg																				
Quinoline, 4-Nitro-1-Oxide-				mg/kg																				
Safrole	10	0.00118		mg/kg																				
Thionazine				mg/kg																				
Thiopyrophosphoric Acid ((Ho)2P(S)2O), Tetraethyl	410	0.104		mg/kg																				
Total Aramite	92	0.3		mg/kg																				
Cyanide, Total	150	0.3	40	mg/kg																				
pH				S.U.																				

Notes:

Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), Industrial Soil Screening Level (SSL) (November 2021)

Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20

Exceeds the EPA RSL, Maximum Contaminant Level (MCL) SSL assuming a DAF of 20

Blanks indicate RSL not established or constituent not analyzed

RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0

U = undetected

J = estimated value

J+ = estimated biased high

J- = estimated biased low

R = rejected

MG/KG - milligram per kilogram

SWMU = Solid Waste Management Unit

RCRA = Resource Conservation and Recovery Act

Sample depth shown in Sample ID (e.g., SBBF3-04_6-8 indicates 6 to 8-foot sample)

DUP = Duplicate sample

Exceedances shown may exceed one or more criteria if available

Table 10. SWMU 21, 22, 30 Soil Analytical Results
RCRA Facility Investigation Report
Honeywell Delaware Valley Works
Claymont, Delaware
Wood Project No. 3482210786

Parameter	Location			Units	SM22-SS01		SM22-SS02		SM22-SS04		SM30-SB01		SM30-SB01		SM30-SB01		SM30-SB02		SM30-SB02		SM30-SB03		SM30-SB03		SM30-SB04			
	Industrial SSL	Risk-Based SSL	MCL-Based SSL		Sample ID	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result
o-Toluidine	140	0.04		SM22-SS1_091015																								
Pentachlorobenzene	930	0.48		SM22-SS1_091015																								
Pentachloronitrobenzene	13	0.03		SM22-SS2_091415																								
Pentachlorophenol	4	0.00114	0.028	SM22-SS4_091015	0.19	U	0.18	U	0.19	U	0.18	U	0.2	U	0.18	U	0.2	U	0.19	U	0.2	U	0.19	U	0.2	U	0.19	U
Phenacetin	1000	0.194		SM30-SB1-(SS)_072815																								
Phenanthrene				SM30-SB1-(14-15)_072815	0.029		0.018	U	0.004	J	0.018	U	0.02	U	0.011	J	0.12		0.045		0.02	U	0.013	J				
Phenol	250000	66		SM30-SB2-(12.5-13)_072715	0.036	U	0.035	U	0.037	U	0.035	U	0.039	U	0.035	U	0.04	U	0.036	U	0.04	U	0.037	U	0.036	U	0.037	U
Phorate	160	0.068		SM30-SB3-SS_072715																								
p-Phenylenediamine	820	0.108		SM30-SB3-SS_072715																								
Pronamide	62000	24		SM30-SB4-(0-1)_072815																								
Pyrene	23000	260			0.056		0.018	U	0.014	J	0.045		0.02	U	0.018		0.011	J	0.042		0.02	U	0.014	J				
Pyridine	1200	0.136																										
Quinoline, 4-Nitro-1-Oxide-																												
Safrole	10	0.00118																										
Thionazine																												
Thiopyrophosphoric Acid ((Ho)2P(S)2O), Tetraethyl	410	0.104																										
Total Aramite	92	0.3																										
Cyanide, Total	150	0.3	40																									
pH																												

Notes:
Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), Industrial Soil Screening Level (SSL) (November 2021)
Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20
Exceeds the EPA RSL, Maximum Contaminant Level (MCL) SSL assuming a DAF of 20
Blanks indicate RSL not established or constituent not analyzed
RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0
U = undetected
J = estimated value
J+ = estimated biased high
J- = estimated biased low
R = rejected
MG/KG - milligram per kilogram
SWMU = Solid Waste Management Unit
RCRA = Resource Conservation and Recovery Act
Sample depth shown in Sample ID (e.g., SBBF3-04_6-8 indicates 6 to 8-foot sample)
DUP = Duplicate sample
Exceedances shown may exceed one or more criteria if available

Table 10. SWMU 21, 22, 30 Soil Analytical Results
RCRA Facility Investigation Report
Honeywell Delaware Valley Works
Claymont, Delaware
Wood Project No. 3482210786

Parameter	Location			Units	SM30-SB04		SM30-SB05		SM30-SB05		SM30-SS01		SM30-SS02		SM30-SS03		SM30-SS04		SM30-SS05		
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20		Sample ID	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
o-Toluidine	140	0.04		SM30-SB4-(11.5-12.5)_072815																	
Pentachlorobenzene	930	0.48		7/28/2015																	
Pentachloronitrobenzene	13	0.03																			
Pentachlorophenol	4	0.00114	0.028		0.2	U	0.19	U	0.2	U	0.19	U	0.19	U	0.89	U	0.19	U	0.17	U	
Phenacetin	1000	0.194																			
Phenanthrene					0.02	U	0.07		0.02	U	0.041		0.15		0.16		0.044		0.008	J	
Phenol	250000	66			0.04	U	0.037	U	0.038	U	0.037	U	0.037	U	0.14	J	0.037	U	0.034	U	
Phorate	160	0.068																			
p-Phenylenediamine	820	0.108																			
Pronamide	62000	24																			
Pyrene	23000	260			0.02	U	0.084		0.02	U	0.057		0.21		0.18		0.058		0.011	J	
Pyridine	1200	0.136																			
Quinoline, 4-Nitro-1-Oxide-																					
Safrole	10	0.00118																			
Thionazine																					
Thiopyrophosphoric Acid ((Ho)2P(S)2O), Tetraethyl	410	0.104																			
Total Aramite	92	0.3																			
Cyanide, Total	150	0.3	40																		
pH																					S.U.

Notes:

Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), Industrial Soil Screening Level (SSL) (November 2021)

Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20

Exceeds the EPA RSL, Maximum Contaminant Level (MCL) SSL assuming a DAF of 20

Blanks indicate RSL not established or constituent not analyzed

RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0

U = undetected

J = estimated value

J+ = estimated biased high

J- = estimated biased low

R = rejected

MG/KG - milligram per kilogram

SWMU = Solid Waste Management Unit

RCRA = Resource Conservation and Recovery Act

Sample depth shown in Sample ID (e.g., SBBF3-04_6-8 indicates 6 to 8-foot sample)

DUP = Duplicate sample

Exceedances shown may exceed one or more criteria if available

Table 11. SWMU 23 Soil Analytical Results
RCRA Facility Investigation Report
Honeywell Delaware Valley Works
Claymont, Delaware
Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date				B23-A B23-A111902 11/19/2002		B23-B B23-B111902 11/19/2002		B23-C B23-C111902 11/19/2002		B23-D B23-D111902 11/19/2002		B23-E B23-E111902 11/19/2002		B23-F B23-F111902 11/19/2002		B23-G B23-G111902 11/19/2002		B23-G B23-G111902FD 11/19/2002		SM23-SB01 SM23-SB1-SS_082015 8/20/2015		SM23-SB01 SM23-SB1-(9-10)_072315 7/23/2015		SM23-SB01 DUP2-072315 7/23/2015		SM23-SB02 SM23-SB2-SS_082015 8/20/2015	
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Pentachlorobenzene	930	0.48		mg/kg	4.1	UJ	0.38	UJ	3.8	UJ	3.7	UJ	4.1	UJ	3.7	UJ	0.39	UJ	0.4	UJ								
Pentachloronitrobenzene	13	0.03		mg/kg	10	UJ	0.94	UJ	9.6	UJ	9.2	UJ	10	UJ	9.2	UJ	0.98	UJ	0.99	UJ								
Pentachlorophenol	4	0.00114	0.028	mg/kg	8.1	UJ	0.83	UJ	7.7	UJ	7.4	UJ	8.1	UJ	7.4	UJ	0.83	UJ	0.83	UJ	0.18	U	0.2	U	0.2	U	0.18	U
Phenacetin	1000	0.194		mg/kg	4.1	UJ	0.38	UJ	3.8	UJ	3.7	UJ	4.1	UJ	3.7	UJ	0.39	UJ	0.4	UJ								
Phenanthrene				mg/kg	4.1	UJ	1.3	J	3.8	UJ	3.7	UJ	4.1	UJ	3.7	UJ	0.39	UJ	0.45	J	0.019		0.16	J	0.02	UJ	0.15	
Phenol	250000	66		mg/kg	4.1	UJ	0.38	UJ	3.8	UJ	3.7	UJ	4.1	UJ	3.7	UJ	0.39	UJ	0.4	UJ	0.035	U	0.039	U	0.039	U	0.036	U
Phorate	160	0.068		mg/kg	4.1	UJ	0.38	UJ	3.8	UJ	3.7	UJ	4.1	UJ	3.7	UJ	0.39	UJ	0.4	UJ								
p-Phenylenediamine	820	0.108		mg/kg	4.1	UJ	0.38	UJ	3.8	UJ	3.7	UJ	4.1	UJ	3.7	UJ	0.39	UJ	0.4	UJ								
Pronamide	62000	24		mg/kg	4.1	UJ	0.38	UJ	3.8	UJ	3.7	UJ	4.1	UJ	3.7	UJ	0.39	UJ	0.4	UJ								
Pyrene	23000	260		mg/kg	4.1	UJ	1.6	J	3.8	UJ	3.7	UJ	4.1	UJ	3.7	UJ	0.39	UJ	0.81	UJ	0.03		0.29	J	0.02	UJ	0.15	
Pyridine	1200	0.136		mg/kg	4.1	UJ	0.38	UJ	3.8	UJ	3.7	UJ	4.1	UJ	3.7	UJ	0.39	UJ	0.4	UJ								
Quinoline, 4-Nitro-1-Oxide-				mg/kg	4.1	UJ	0.38	R	3.8	R	3.7	R	4.1	R	3.7	R	0.39	UJ	0.4	R								
Safrole	10	0.00118		mg/kg	4.1	UJ	0.38	UJ	3.8	UJ	3.7	UJ	4.1	UJ	3.7	UJ	0.39	UJ	0.4	UJ								
Thionazine				mg/kg	4.1	UJ	0.38	UJ	3.8	UJ	3.7	UJ	4.1	UJ	3.7	UJ	0.39	UJ	0.4	UJ								
Thiopyrophosphoric Acid ((Ho)2P(S)2O), Tetraethyl	410	0.104		mg/kg	4.1	UJ	0.38	UJ	3.8	UJ	3.7	UJ	4.1	UJ	3.7	UJ	0.39	UJ	0.4	UJ								
Total Aramite	92	0.3		mg/kg	4.1	UJ	0.38	UJ	3.8	UJ	3.7	UJ	4.1	UJ	3.7	UJ	0.39	UJ	0.4	UJ								
Cyanide, Total	150	0.3	40	mg/kg	1.6		1.1	U	1.2	U	1.1	U	1.2	U	36		1.1	U	1.2	U								
pH				S.U.	6.79		7.81		7.19		7.56		7.1		7.62		8.3		8.06									

Notes:
Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), Industrial Soil Screening Level (SSL) (November 2021)
Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20
Exceeds the EPA RSL, Maximum Contaminant Level (MCL) SSL assuming a DAF of 20
Blanks indicate RSL not established or constituent not analyzed
RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0
U = undetected
J = estimated value
J+ = estimated biased high
J- = estimated biased low
R = rejected
MG/KG - milligram per kilogram
SWMU = Solid Waste Management Unit
RCRA = Resource Conservation and Recovery Act
Sample depth shown in Sample ID (e.g., SBBF3-04_6-8 indicates 6 to 8-foot sample)
DUP = Duplicate sample
Exceedances shown may exceed one or more criteria if available

Table 11. SWMU 23 Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location			Units	SM23-SB02		SM23-SB03		SM23-SB03		SM23-SB04		SM23-SB04		SM23-SB05		SM23-SB05	
	Sample ID	Sample Date	Sample Date		SM23-SB2-10.0-10.5_072415	SM23-SB3-SS_082015	SM23-SB3-10.0-10.5_072415	SM23-SB4-SS_082115	SM23-SB4-10.0-10.5_072415	SM23-SB5-SS_082115	SM23-SB5-10.5-11.5_072415							
	Industrial SSL	Risk-Based SSL	MCL-Based SSL		Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
4-Aminobiphenyl	0.11	0.0003		mg/kg														
4-Bromophenyl Phenyl Ether				mg/kg	0.04	U	0.51	U	0.04	U	0.036	U	0.039	U	0.035	U	0.039	U
4-Chloro-3-Methylphenol	82000	34		mg/kg	0.04	U	0.51	U	0.04	U	0.036	U	0.039	U	0.035	U	0.039	U
4-Chloroaniline	11	0.0032		mg/kg	0.08	UJ	1	U	0.079	UJ	0.071	U	0.079	U	0.07	U	0.078	UJ
4-Chlorophenyl Phenyl Ether				mg/kg	0.04	U	0.51	U	0.04	U	0.036	U	0.039	U	0.035	U	0.039	U
4-Methylphenol	16000	6		mg/kg	0.04	U	0.51	U	0.04	U	0.036	U	0.039	U	0.035	U	0.039	U
4-Nitroaniline	110	0.032		mg/kg	0.2	U	2.6	U	0.2	U	0.18	U	0.2	U	0.17	U	0.2	U
4-Nitrophenol				mg/kg	0.6	U	7.7	U	0.59	U	0.54	U	0.59	U	0.52	U	0.59	U
5-Nitro-o-Toluidine	260	0.092		mg/kg														
7,12-Dimethylbenz(A)Anthracene	0.0084	0.00198		mg/kg														
Acenaphthene	45000	110		mg/kg	0.02	U	0.26	U	0.02	U	0.012	J	0.02	U	0.018	U	0.02	U
Acenaphthylene				mg/kg	0.02	U	0.26	U	0.02	U	0.009	J	0.02	U	0.018	U	0.02	U
Acetophenone	120000	11.6		mg/kg	0.04	U	0.51	U	0.04	U	0.036	U	0.039	U	0.031	J	0.039	U
Aniline	400	0.092		mg/kg														
Anthracene	230000	1160		mg/kg	0.02	U	0.26	U	0.02	U	0.016	J	0.02	U	0.029	U	0.02	U
Atrazine	10	0.004	0.038	mg/kg	0.2	U	2.6	U	0.2	U	0.18	U	0.2	U	0.17	U	0.2	U
Benzaldehyde	820	0.082		mg/kg	0.2	UJ	2.6	U	0.2	UJ	0.18	U	0.2	UJ	0.17	U	0.2	UJ
Benzenamine, N,N-Dimethyl-4-(Pehnylazo)-	0.5	0.00042		mg/kg														
Benzeneethanamine, Alpha, Alpha-Dimethyl-				mg/kg														
Benzo(A)Anthracene	21	0.22		mg/kg	0.02	U	0.26	U	0.02	U	0.074	U	0.02	U	0.093	U	0.02	U
Benzo(A)Pyrene	2.1	0.58	4.8	mg/kg	0.02	U	0.26	U	0.02	U	0.081	U	0.02	U	0.12	U	0.02	U
Benzo(B)Fluoranthene	21	6		mg/kg	0.02	U	0.096	J	0.02	U	0.16	U	0.02	U	0.26	U	0.02	U
Benzo(G,H,I)perylene				mg/kg	0.02	U	0.26	U	0.02	U	0.069	U	0.02	U	0.12	U	0.02	U
Benzo(K)Fluoranthene	210	58		mg/kg	0.02	U	0.26	U	0.02	U	0.063	U	0.02	U	0.13	U	0.02	U
Benzoic Acid	3300000	300		mg/kg														
Benzyl Alcohol	82000	9.6		mg/kg														
bis-(2-Chloroethoxy)Methane	2500	0.26		mg/kg	0.04	U	0.51	U	0.04	U	0.036	U	0.039	U	0.035	U	0.039	U
bis-(2-Chloroethyl)Ether	1	0.00072		mg/kg	0.04	U	0.51	U	0.04	U	0.036	U	0.039	U	0.035	U	0.039	U
bis(2-Chloroisopropyl)Ether				mg/kg	0.04	U	0.51	U	0.04	U	0.036	U	0.039	U	0.035	U	0.039	U
bis-(2-Ethylhexyl)Phthalate	160	26	28	mg/kg	0.2	U	2.6	U	0.2	U	0.18	U	0.17	J	0.65	U	0.14	J
Butylbenzyl Phthalate	1200	4.8		mg/kg	0.2	U	2.6	U	0.2	U	0.18	U	0.2	U	0.17	U	0.2	U
Caprolactam	400000	50		mg/kg	0.2	U	2.6	U	0.2	U	0.18	U	0.2	U	0.17	U	0.2	U
Carbazole				mg/kg	0.04	U	0.51	U	0.04	U	0.036	U	0.039	U	0.035	U	0.039	U
Chlorobenzilate	21	0.02		mg/kg														
Chrysene	2100	180		mg/kg	0.02	U	0.26	U	0.02	U	0.11	U	0.02	U	0.14	U	0.02	U
Diallate	38	0.016		mg/kg														
Dibenzo(a,h)Anthracene	2.1	1.92		mg/kg	0.02	U	0.26	U	0.02	U	0.025	U	0.02	U	0.049	U	0.02	U
Dibenzofuran	1200	3		mg/kg	0.04	U	0.51	U	0.04	U	0.021	J	0.039	U	0.018	J	0.039	U
Diethyl Phthalate	660000	122		mg/kg	0.2	U	2.6	U	0.2	U	0.18	U	0.2	U	0.17	U	0.2	U
Dimethoate	1800	0.198		mg/kg														
Dimethyl Phthalate				mg/kg	0.2	U	2.6	U	0.2	U	0.18	U	0.2	U	0.17	U	0.2	U
Di-n-Butyl Phthalate	82000	46		mg/kg	0.2	U	2.6	U	0.2	U	0.18	U	0.2	U	0.12	J	0.2	U
Di-n-Octyl Phthalate	8200	1140		mg/kg	0.2	U	2.6	U	0.2	U	0.18	U	0.2	U	0.17	U	0.2	U
Dimoseb	820	2.6	1.24	mg/kg														
Diphenylamine				mg/kg														
Disulfoton	33	0.0188		mg/kg														
Ethane, Pentachloro-	36	0.0062		mg/kg														
Ethyl Parathion	4900	8.6		mg/kg														
Famphur				mg/kg														
Fluoranthene	30000	1780		mg/kg	0.02	U	0.085	J	0.02	U	0.13	U	0.02	U	0.22	U	0.02	U
Fluorene	30000	108		mg/kg	0.02	U	0.26	U	0.02	U	0.007	J	0.02	U	0.018	J	0.02	U
Hexachlorobenzene	0.96	0.0024	0.26	mg/kg	0.02	U	0.26	U	0.02	U	0.019	U	0.02	U	0.018	U	0.02	U
Hexachlorobutadiene	5.3	0.0054		mg/kg	0.04	U	0.51	U	0.04	U	0.036	U	0.039	U	0.035	U	0.039	U
Hexachlorocyclopentadiene	7.5	0.026	3.2	mg/kg	0.6	U	7.7	U	0.59	U	0.54	U	0.59	U	0.52	U	0.59	UJ
Hexachloroethane	8	0.004		mg/kg	0.2	U	2.6	U	0.2	U	0.18	U	0.2	U	0.17	U	0.2	U
Hexachlorophene	250	160		mg/kg														
Hexachloropropene				mg/kg														
Indeno(1,2,3-Cd)Pyrene	21	19.6		mg/kg	0.02	U	0.26	U	0.02	U	0.069	U	0.02	U	0.11	U	0.02	U
Isodrin				mg/kg														
Isophorone	2400	0.52		mg/kg	0.04	U	0.51	U	0.04	U	0.036	U	0.039	U	0.035	U	0.039	U
Isosafrole				mg/kg														
Kepone	0.23	0.0024		mg/kg														
Methanesulfonic Acid, Ethyl Ester				mg/kg														
Methapyrilene				mg/kg														
Methyl Methanesulfonate	23	0.0032		mg/kg														
Methyl Parathion	210	0.148		mg/kg														
Naphthalene	8.6	0.0076		mg/kg	0.02	U	0.26	U	0.02	U	0.32	U	0.02	U	0.18	U	0.02	U
Nitrobenzene	22	0.00184		mg/kg	0.04	U	0.51	U	0.04	U	0.039	U	0.039	U	0.035	U	0.039	U
n-Nitrosodiethylamine	0.015	0.0000122		mg/kg														
n-Nitrosodimethylamine	0.034	0.0000054		mg/kg														
n-Nitrosodi-n-Butylamine	0.46	0.00011		mg/kg														
n-Nitroso-di-n-Propylamine	0.33	0.000162		mg/kg	0.04	U	0.51	U	0.04	U	0.036	U	0.039	U	0.035	U	0.039	U
n-Nitrosodiphenylamine	470	1.34		mg/kg	0.04	U	0.51	U	0.04	U	0.036	U	0.039	U	0.035	U	0.039	U
n-Nitrosomethylethylamine	0.091	0.000004		mg/kg														
n-Nitrosomorpholine	0.34	0.000056		mg/kg														
n-Nitrosopiperidine	0.24	0.000088		mg/kg														
n-Nitrosopyrrolidine	1.1	0.00028		mg/kg														
O,O,O-Triethyl Phosphorothioate				mg/kg														
o-Toluidine	140	0.04		mg/kg														

Table 11. SWMU 23 Soil Analytical Results
RCRA Facility Investigation Report
Honeywell Delaware Valley Works
Claymont, Delaware
Wood Project No. 3482210786

Parameter	Location				SM23-SB02		SM23-SB03		SM23-SB03		SM23-SB04		SM23-SB04		SM23-SB05		SM23-SB05	
	Industrial SSL	Risk-Based SSL	MCL-Based SSL	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Pentachlorobenzene	930	0.48		mg/kg														
Pentachloronitrobenzene	13	0.03		mg/kg														
Pentachlorophenol	4	0.00114	0.028	mg/kg	0.2	U	2.6	U	0.2	U	0.18	U	0.2	U	0.18	U	0.2	U
Phenacetin	1000	0.194		mg/kg														
Phenanthrene				mg/kg	0.02	U	0.26	U	0.02	U	0.11		0.02	U	0.14		0.02	U
Phenol	250000	66		mg/kg	0.04	U	0.51	U	0.04	U	0.036	U	0.039	U	0.035	U	0.039	U
Phorate	160	0.068		mg/kg														
p-Phenylenediamine	820	0.108		mg/kg														
Pronamide	62000	24		mg/kg														
Pyrene	23000	260		mg/kg	0.02	U	0.084	J	0.02	U	0.12		0.02	U	0.16		0.02	U
Pyridine	1200	0.136		mg/kg														
Quinoline, 4-Nitro-1-Oxide-				mg/kg														
Safrole	10	0.00118		mg/kg														
Thionazine				mg/kg														
Thiopyrophosphoric Acid ((Ho)2P(S)2O), Tetraethyl	410	0.104		mg/kg														
Total Aramite	92	0.3		mg/kg														
Cyanide, Total	150	0.3	40	mg/kg														
pH				S.U.														

Notes:
Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), Industrial Soil Screening Level (SSL) (November 2021)
Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20
Exceeds the EPA RSL, Maximum Contaminant Level (MCL) SSL assuming a DAF of 20
Blanks indicate RSL not established or constituent not analyzed
RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0
U = undetected
J = estimated value
J+ = estimated biased high
J- = estimated biased low
R = rejected
MG/KG - milligram per kilogram
SWMU = Solid Waste Management Unit
RCRA = Resource Conservation and Recovery Act
Sample depth shown in Sample ID (e.g., SBBF3-04_6-8 indicates 6 to 8-foot sample)
DUP = Duplicate sample
Exceedances shown may exceed one or more criteria if available

Table 12. SWMU 27 Soil Analytical Results
RCRA Facility Investigation Report
Honeywell Delaware Valley Works
Claymont, Delaware
Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date			B27-A B27-A121202 12/12/2002		B27-B B27-B121202 12/12/2002		B27-C B27-C121202 12/12/2002		B27-C B27-C121202FD 12/12/2002		B27-D B27-D121202 12/12/2002		B27-E B27-E121202 12/12/2002		SM27-SB01 SM27-SB1-2.0-3.0_072415 7/24/2015		SM27-SB01 SM27-SB1-12.5-13.0_072415 7/24/2015		SM27-SB01 DUP-3_072415 7/24/2015		SM27-SB02 SM27-SB2-(10-11)_082115 8/21/2015		SM27-SS01 SM27-SS1_091415 9/14/2015		SM27-SS02 SM27-SS2_091415 9/14/2015			
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	
n-Nitroso-di-n-Propylamine	0.33	0.000162		mg/kg	0.42	UJ		0.4	UJ		0.41	UJ		0.41	UJ	0.38	UJ	0.035	U	0.037	UJ	0.041	U	0.038	U	0.036	U	0.036	U
n-Nitrosodiphenylamine	470	1.34		mg/kg	0.42	UJ		0.4	UJ		0.41	UJ		0.41	UJ	0.38	UJ	0.035	U	0.037	UJ	0.041	U	0.038	U	0.036	U	0.036	U
n-Nitrosomethylethylamine	0.091	0.000004		mg/kg	0.42	UJ		0.4	UJ		0.41	UJ		0.41	UJ	0.38	UJ					0.041	U	0.038	U	0.036	U		
n-Nitrosomorpholine	0.34	0.000056		mg/kg	0.42	UJ		0.4	UJ		0.41	UJ		0.41	UJ	0.38	UJ												
n-Nitrosopiperidine	0.24	0.000088		mg/kg	0.42	UJ		0.4	UJ		0.41	UJ		0.41	UJ	0.38	UJ												
n-Nitrosopyrrolidine	1.1	0.00028		mg/kg	0.42	UJ		0.4	UJ		0.41	UJ		0.41	UJ	0.38	UJ												
O,O,O-Triethyl Phosphorothioate				mg/kg	0.42	UJ		0.4	UJ		0.41	UJ		0.41	UJ	0.38	UJ												
o-Toluidine	140	0.04		mg/kg	0.42	UJ		0.4	UJ		0.41	UJ		0.41	UJ	0.38	UJ												
Pentachlorobenzene	930	0.48		mg/kg	0.42	UJ		0.4	UJ		0.41	UJ		0.41	UJ	0.38	UJ												
Pentachloronitrobenzene	13	0.03		mg/kg	1	UJ		1	UJ		1	UJ		1	UJ	0.94	UJ												
Pentachlorophenol	4	0.00114	0.028	mg/kg	0.84	UJ		0.83	UJ		0.83	UJ		0.83	UJ	0.83	UJ	0.18	U	0.19	UJ	0.21	U	0.2	U	0.19	U	0.19	U
Phenacetin	1000	0.194		mg/kg	0.42	UJ		0.4	UJ		0.41	UJ		0.41	UJ	0.38	UJ												
Phenanthrene				mg/kg	0.42	UJ		0.4	UJ		0.41	UJ		0.41	UJ	0.38	UJ	0.018	U	0.019	UJ	0.021	U	0.02	U	0.021	U	0.006	J
Phenol	250000	66		mg/kg	0.42	UJ		0.4	UJ		0.41	UJ		0.41	UJ	0.38	UJ	0.035	U	0.037	UJ	0.041	U	0.038	U	0.036	U	0.036	U
Phorate	160	0.068		mg/kg	0.42	UJ		0.4	UJ		0.41	UJ		0.41	UJ	0.38	UJ												
p-Phenylenediamine	820	0.108		mg/kg	0.42	UJ		0.4	UJ		0.41	UJ		0.41	UJ	0.38	UJ												
Pronamide	62000	24		mg/kg	0.42	UJ		0.4	UJ		0.41	UJ		0.41	UJ	0.38	UJ												
Pyrene	23000	260		mg/kg	0.42	UJ		0.4	UJ		0.41	UJ		0.41	UJ	0.38	UJ	0.018	U	0.019	UJ	0.021	U	0.02	U	0.005	J	0.032	
Pyridine	1200	0.136		mg/kg	0.42	UJ		0.4	UJ		0.41	UJ		0.41	UJ	0.38	UJ												
Quinoline, 4-Nitro-1-Oxide-				mg/kg	0.42	R		0.4	R		0.41	R		0.41	R	0.38	R												
Safrole	10	0.00118		mg/kg	0.42	UJ		0.4	UJ		0.41	UJ		0.41	UJ	0.38	UJ												
Thionazine				mg/kg	0.42	UJ		0.4	UJ		0.41	UJ		0.41	UJ	0.38	UJ												
Thiopyrophosphoric Acid ((Ho)2P(S)2O), Tetraethyl	410	0.104		mg/kg	0.42	UJ		0.4	UJ		0.41	UJ		0.41	UJ	0.38	UJ												
Total Aramite	92	0.3		mg/kg	0.42	UJ		0.4	UJ		0.41	UJ		0.41	UJ	0.38	UJ												
Cyanide, Total	150	0.3	40	mg/kg	1.3	U		1.2	U		1.2	U		1.2	U	1.1	U												
pH				S.U.	8.64			10.18			9.26			11.08		8.83													

Notes:
Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), Industrial Soil Screening Level (SSL) (November 2021)
Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20
Exceeds the EPA RSL, Maximum Contaminant Level (MCL) SSL assuming a DAF of 20
Blanks indicate RSL not established or constituent not analyzed
RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0
U = undetected
J = estimated value
J+ = estimated biased high
J- = estimated biased low
R = rejected
MG/KG - milligram per kilogram
SWMU = Solid Waste Management Unit
RCRA = Resource Conservation and Recovery Act
Sample depth shown in Sample ID (e.g., SBBF3-04_6-8 indicates 6 to 8-foot sample)
DUP = Duplicate sample
Exceedances shown may exceed one or more criteria if available

Table 12. SWMU 27 Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date			Units	SM27-SS03 SM27-SS3_091415 9/14/2015		SM27-SS04 SM27-SS4_091415 9/14/2015		SM27-SS04 DUP11_091415 9/14/2015	
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20		Result	Qual	Result	Qual	Result	Qual
Metals										
Aluminum	1100000	600000		mg/kg	6190		9330		11800	
Antimony	470	7	5.4	mg/kg	1.29 J		1.31 J		1.17 J	
Arsenic	3	0.03	5.8	mg/kg	2.44		1.44 J		1.55 J	
Barium	220000	3200	1640	mg/kg	25.3		25.7		29.3	
Beryllium	2300	380	64	mg/kg	0.473 J		0.413 J		0.449 J	
Cadmium	100	2.8	7.6	mg/kg	0.313 J		0.189 J		0.233 J	
Calcium				mg/kg	39100		528 J		1820 J	
Chromium			3600000	mg/kg	16.5		8.37		12	
Cobalt	350	5.4		mg/kg	2.4		6.35 J		3.34 J	
Copper	47000	560	920	mg/kg	6.73		5.53 J		9.87 J	
Iron	820000	7000		mg/kg	6540		7780		7990	
Lead	800		280	mg/kg	7.54		6.02 J		14.3 J	
Magnesium				mg/kg	2500		244		328	
Manganese	26000	560		mg/kg	175		150		134	
Nickel	22000	520		mg/kg	7.01		5.12		8.19	
Potassium				mg/kg	181		317		374	
Selenium	5800	10.4	5.2	mg/kg	1.08 J		0.937 J		1.29 J	
Silver	5800	16		mg/kg	0.607 U		0.55 U		0.537 U	
Sodium				mg/kg	70.7 J		22.6 J		30.3 J	
Thallium	12	0.28	2.8	mg/kg	3.64 U		3.3 U		3.22 U	
Tin	700000	60000		mg/kg						
Vanadium	5800	1720		mg/kg	15.7		18.4		19.8	
Zinc	350000	7400		mg/kg	48.1		11.6		19.3	
Mercury	46	0.66	2	mg/kg	0.123 U		0.0135 J		0.107 U	
Pesticides										
4,4'-DDD	9.6	0.15		mg/kg	0.0096		3.8 J		0.03 J	
4,4'-DDE	9.3	0.22		mg/kg	0.076		0.16 J		0.015 J	
4,4'-DDT	8.5	1.54		mg/kg	0.09 J		28 J		0.22 J	
Aldrin	0.18	0.003		mg/kg	0.0041 U		0.0036 U		0.0036 U	
Alpha-BHC	0.36	0.00184		mg/kg	0.0041 U		0.0018 J		0.0014 J	
Beta-BHC	1.3	0.003		mg/kg	0.0041 U		0.0021 J		0.008 J	
Chlordane				mg/kg						
cis-Chlordane	500	9.8		mg/kg	0.0041 U		0.0036 U		0.0036 U	
Delta-BHC				mg/kg	0.0041 U		0.0036 U		0.0036 U	
Dieldrin	0.14	0.00142		mg/kg	0.0041 U		0.0036 U		0.0036 U	
Endosulfan I				mg/kg	0.0041 U		0.0036 U		0.0036 U	
Endosulfan II				mg/kg	0.0041 U		0.0036 U		0.00072 U	
Endosulfan Sulfate	4900	42		mg/kg	0.0041 U		0.0036 U		0.0036 U	
Endrin	250	1.84	1.62	mg/kg	0.0041 U		0.0036 U		0.0036 U	
Endrin Aldehyde				mg/kg	0.0041 U		0.0036 U		0.0036 U	
Endrin Ketone				mg/kg	0.0041 U		0.0036 U		0.0036 U	
Gamma-BHC (Lindane)	2.5	0.0048	0.024	mg/kg	0.0041 U		0.0036 U		0.0036 U	
Gamma-Chlordane				mg/kg	0.0041 U		0.0036 U		0.00072 U	
Heptachlor	0.63	0.0024	0.66	mg/kg	0.0041 U		0.0036 U		0.0036 U	
Heptachlor Epoxide	0.33	0.00056	0.082	mg/kg	0.0041 U		0.0036 U		0.0036 U	
Methoxychlor	4100	40	44	mg/kg	0.008 U		0.0069 U		0.007 U	
Toxaphene	2.1	0.22	9.2	mg/kg	0.1 U		0.091 U		0.018 U	
trans-Chlordane	500	28		mg/kg						
Volatile Organic Compounds										
2,4,5-T	8200	1.36		mg/kg						
2,4,5-TP (Silvex)	6600	1.22	0.56	mg/kg						
2,4-D	9600	0.9	0.36	mg/kg						
1,1,1,2-Tetrachloroethane	8.8	0.0044		mg/kg						
1,1,1-Trichloroethane	36000	56	1.4	mg/kg	0.005 U		0.005 U		0.004 U	
1,1,2,2-Tetrachloroethane	2.7	0.0006		mg/kg	0.005 U		0.005 U		0.004 U	
1,1,2-Trichloro-1,2,2-Trifluoroethane	28000	520		mg/kg	0.01 U		0.01 U		0.008 U	
1,1,2-Trichloroethane	5	0.00178	0.032	mg/kg	0.005 U		0.005 U		0.004 U	
1,1-Dichloroethane	16	0.0156		mg/kg	0.005 U		0.005 U		0.004 U	
1,1-Dichloroethene	1000	2	0.05	mg/kg	0.005 U		0.005 U		0.004 U	
1,2,3-Trichlorobenzene	930	0.42		mg/kg	0.005 U		0.005 U		0.004 U	
1,2,3-Trichloropropane	0.11	0.000064		mg/kg						
1,2,4-Trichlorobenzene	110	0.068	4	mg/kg	0.005 U		0.005 U		0.004 U	
1,2-Dibromo-3-Chloropropane	0.064	0.000028	0.00172	mg/kg	0.005 U		0.005 U		0.004 U	
1,2-Dibromoethane	0.16	0.000042	0.00028	mg/kg	0.005 U		0.005 U		0.004 U	
1,2-Dichlorobenzene	9300	6	11.6	mg/kg	0.005 U		0.005 U		0.004 U	
1,2-Dichloroethane	2	0.00096	0.028	mg/kg	0.005 U		0.005 U		0.004 U	
1,2-Dichloropropane	11	0.0056	0.034	mg/kg	0.005 U		0.005 U		0.004 U	
1,3-Dichlorobenzene				mg/kg	0.005 U		0.005 U		0.004 U	
1,4-Dichlorobenzene	11	0.0092	1.44	mg/kg	0.005 U		0.005 U		0.004 U	
1,4-Dioxane	24	0.00188		mg/kg	0.25 U		0.24 U		0.21 U	
2-Butanone	190000	24		mg/kg	0.01 U		0.012		0.013	
2-Hexanone	1300	0.176		mg/kg	0.01 U		0.01 U		0.008 U	
4-Methyl-2-Pentanone	140000	28		mg/kg	0.01 U		0.01 U		0.008 U	
Acetone	1100000	74		mg/kg	0.02 U		0.067		0.066	
Acetonitrile	3400	0.52		mg/kg						

Table 12. SWMU 27 Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Industrial SSL	Location		Units	SM27-SS03		SM27-SS04		SM27-SS04	
		Risk-Based SSL	MCL-Based SSL		SM27-SS3_091415	SM27-SS4_091415	SM27-SS4_091415	SM27-SS4_091415		
		DAF-20	DAF-20		Result	Qual	Result	Qual	Result	Qual
Acrolein	0.6	0.00168		mg/kg						
Acrylonitrile	1.1	0.00022		mg/kg						
Allyl Chloride	3.2	0.0046		mg/kg						
Benzene	5.1	0.0046	0.052	mg/kg	0.005	U	0.005	U	0.004	U
Bromochloromethane	630	0.42		mg/kg	0.005	U	0.005	U	0.004	U
Bromodichloromethane	1.3	0.00072	0.44	mg/kg	0.005	U	0.005	U	0.004	U
Bromoform	86	0.0174	0.42	mg/kg	0.005	U	0.005	U	0.004	U
Bromomethane	30	0.038		mg/kg	0.005	U	0.005	U	0.004	U
Carbazole				mg/kg						
Carbon Disulfide	3500	4.8		mg/kg	0.005	U	0.005	U	0.004	U
Carbon Tetrachloride	2.9	0.0036	0.038	mg/kg	0.005	U	0.005	U	0.004	U
Chlorobenzene	1300	1.06	1.36	mg/kg	0.005	U	0.005	U	0.004	U
Chloroethane	23000	48		mg/kg	0.005	U	0.005	U	0.004	U
Chloroform	1.4	0.00122	0.44	mg/kg	0.005	U	0.005	U	0.004	U
Chloromethane	460	0.98		mg/kg	0.005	U	0.005	U	0.004	U
Chloroprene	0.044	0.000196		mg/kg						
cis-1,2-Dichloroethene	2300	0.22	0.42	mg/kg	0.005	U	0.005	U	0.004	U
cis-1,3-Dichloropropene				mg/kg	0.005	U	0.005	U	0.004	U
Cyclohexane	27000	260		mg/kg	0.005	UJ	0.005	UJ	0.004	U
Dibromochloromethane	39	0.0046	0.42	mg/kg	0.005	U	0.005	U	0.004	U
Dibromomethane	99	0.042		mg/kg						
Dichlorodifluoromethane	370	6		mg/kg	0.005	U	0.005	U	0.004	U
Ethyl Cyanide				mg/kg						
Ethyl Methacrylate	7600	3		mg/kg						
Ethylbenzene	25	0.034	15.6	mg/kg	0.005	U	0.005	U	0.004	U
Iodomethane				mg/kg						
Isobutanol	350000	24		mg/kg						
Isopropylbenzene	9900	14.8		mg/kg	0.005	U	0.005	U	0.004	U
m&p-Xylenes				mg/kg	0.005	U	0.005	U	0.004	U
Methacrylonitrile	100	0.0086		mg/kg						
Methyl Acetate	1200000	82		mg/kg	0.005	U	0.005	U	0.004	U
Methyl Methacrylate	19000	6		mg/kg						
Methyl Tert-Butyl Ether	210	0.064		mg/kg	0.005	U	0.005	U	0.004	U
Methylcyclohexane				mg/kg	0.005	U	0.005	U	0.004	U
Methylene Chloride	1000	0.058	0.026	mg/kg	0.005	U	0.005	U	0.004	U
o-Xylene	2800	3.8		mg/kg	0.005	U	0.005	U	0.004	U
Styrene	35000	26	2.2	mg/kg	0.005	U	0.005	U	0.004	U
Tetrachloroethene	100	0.102	0.046	mg/kg	0.005	U	0.005	U	0.004	U
Toluene	47000	15.2	13.8	mg/kg	0.005	U	0.005	U	0.004	U
Total Xylenes	2500	3.8	198	mg/kg	0.005	U	0.005	U	0.004	U
trans-1,2-Dichloroethene	300	0.42	0.62	mg/kg	0.005	U	0.005	U	0.004	U
trans-1,3-Dichloropropene				mg/kg	0.005	U	0.005	U	0.004	U
trans-1,4-Dichloro-2-Butene	0.032	0.0000124		mg/kg						
Trichloroethene	6	0.0036	0.036	mg/kg	0.005	U	0.005	U	0.004	U
Trichlorofluoromethane	350000	66		mg/kg	0.005	U	0.005	U	0.004	U
Vinyl Acetate	3800	1.74		mg/kg						
Vinyl Chloride	1.7	0.00013	0.0138	mg/kg	0.005	U	0.005	U	0.004	U
Sem-Volatile Organic Compounds										
1,1'-Biphenyl	200	0.174		mg/kg	0.041	U	0.037	U	0.037	U
1,2,4,5-Tetrachlorobenzene	35	0.0158		mg/kg	0.041	U	0.037	U	0.037	U
1,2,4-Trichlorobenzene	110	0.068	4	mg/kg						
1,2-Dichlorobenzene	9300	6	11.6	mg/kg						
1,3,5-Trinitrobenzene	32000	42		mg/kg						
1,3-Dichlorobenzene				mg/kg						
1,3-Dinitrobenzene	82	0.036		mg/kg						
1,4-Dichlorobenzene	11	0.0092	1.44	mg/kg						
1,4-Naphthoquinone				mg/kg						
1-Naphthylamine				mg/kg						
2,2'-Oxybis(1-Chloropropane)	47000	5.2		mg/kg						
2,3,4,6-Tetrachlorophenol	25000	3.6		mg/kg	0.21	U	0.19	U	0.18	U
2,4,5-Trichlorophenol	82000	80		mg/kg	0.041	U	0.037	U	0.037	U
2,4,6-Trichlorophenol	210	0.08		mg/kg	0.041	U	0.037	U	0.037	U
2,4-Dichlorophenol	2500	0.46		mg/kg	0.041	U	0.037	U	0.037	U
2,4-Dimethylphenol	16000	8.4		mg/kg	0.041	U	0.037	U	0.037	U
2,4-Dinitrophenol	1600	0.88		mg/kg	1.2	U	1.1	U	1.1	U
2,4-Dinitrotoluene	7.4	0.0064		mg/kg	0.21	U	0.19	U	0.18	U
2,6-Dichlorophenol				mg/kg						
2,6-Dinitrotoluene	1.5	0.00134		mg/kg	0.041	U	0.037	U	0.037	U
2-Acetylaminofluorene (TIC)	0.6	0.0015		mg/kg						
2-Chloronaphthalene	60000	78		mg/kg	0.041	U	0.037	U	0.036	U
2-Chlorophenol	5800	1.78		mg/kg	0.041	U	0.037	U	0.037	U
2-Methylnaphthalene	3000	3.8		mg/kg	0.021	U	0.019	U	0.019	U
2-Methylphenol	41000	15		mg/kg	0.041	U	0.037	U	0.037	U
2-Naphthylamine	1.3	0.004		mg/kg						
2-Nitroaniline	8000	1.6		mg/kg	0.041	U	0.037	U	0.037	U
2-Nitrophenol				mg/kg	0.041	U	0.037	U	0.037	U
2-Picoline				mg/kg						

Table 12. SWMU 27 Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	SM27-SS03 SM27-SS3_091415 9/14/2015		SM27-SS04 SM27-SS4_091415 9/14/2015		SM27-SS04 DUP11_091415 9/14/2015	
					Result	Qual	Result	Qual	Result	Qual
3,4-Methylphenol				mg/kg						
3,3'-Dichlorobenzidine	5.1	0.0164		mg/kg	0.41	U		0.37	U	
3,3'-Dimethylbenzidine	0.21	0.00086		mg/kg						
3-Methylcholanthrene	0.1	0.044		mg/kg						
3-Nitroaniline				mg/kg	0.21	U		0.19	U	0.18
4,6-Dinitro-2-Methylphenol	66	0.052		mg/kg	0.62	U		0.56	U	0.55
4-Aminobiphenyl	0.11	0.0003		mg/kg						
4-Bromophenyl Phenyl Ether				mg/kg	0.041	U		0.037	U	0.037
4-Chloro-3-Methylphenol	82000	34		mg/kg	0.041	U		0.037	U	0.037
4-Chloroaniline	11	0.0032		mg/kg	0.082	UJ		0.074	UJ	0.073
4-Chlorophenyl Phenyl Ether				mg/kg	0.041	U		0.037	U	0.037
4-Methylphenol	16000	6		mg/kg	0.041	U		0.037	U	0.037
4-Nitroaniline	110	0.032		mg/kg	0.21	U		0.19	U	0.18
4-Nitrophenol				mg/kg	0.62	U		0.56	U	0.55
5-Nitro-o-Toluidine	260	0.092		mg/kg						
7,12-Dimethylbenz(A)Anthracene	0.0084	0.00198		mg/kg						
Acenaphthene	45000	110		mg/kg	0.021	U		0.019	U	0.019
Acenaphthylene				mg/kg	0.021	U		0.019	U	0.019
Acetophenone	120000	11.6		mg/kg	0.041	U		0.037	U	0.037
Aniline	400	0.092		mg/kg						
Anthracene	230000	1160		mg/kg	0.021	U		0.019	U	0.019
Atrazine	10	0.004	0.038	mg/kg	0.21	U		0.19	U	0.18
Benzaldehyde	820	0.082		mg/kg	0.21	U		0.19	U	0.18
Benzenamine, N,N-Dimethyl-4-(Pehnylazo)-	0.5	0.00042		mg/kg						
Benzenethanamine, Alpha, Alpha-Dimethyl-				mg/kg						
Benzo(A)Anthracene	21	0.22		mg/kg	0.008	J		0.019	U	0.019
Benzo(A)Pyrene	2.1	0.58	4.8	mg/kg	0.009	J		0.019	U	0.019
Benzo(B)Fluoranthene	21	6		mg/kg	0.008	J		0.019	U	0.01
Benzo(G,H,I)perylene				mg/kg	0.021	U		0.019	U	0.006
Benzo(K)Fluoranthene	210	58		mg/kg	0.006	J		0.019	U	0.019
Benzoic Acid	3300000	300		mg/kg						
Benzyl Alcohol	82000	9.6		mg/kg						
bis-(2-Chloroethoxy)Methane	2500	0.26		mg/kg	0.041	U		0.037	U	0.037
bis-(2-Chloroethyl)Ether	1	0.000072		mg/kg	0.041	U		0.037	U	0.037
bis(2-Chloroisopropyl)Ether				mg/kg	0.041	U		0.037	U	0.037
bis-(2-Ethylhexyl)Phthalate	160	26	28	mg/kg	0.21	U		0.19	U	0.19
Butylbenzyl Phthalate	1200	4.8		mg/kg	0.21	U		0.19	U	0.18
Caprolactam	400000	50		mg/kg	0.21	U		0.19	U	0.18
Carbazole				mg/kg	0.041	U		0.037	U	0.037
Chlorobenzilate	21	0.02		mg/kg						
Chrysene	2100	180		mg/kg	0.006	J		0.019	U	0.019
Diallate	38	0.016		mg/kg						
Dibenzo(a,h)Anthracene	2.1	1.92		mg/kg	0.021	U		0.019	U	0.019
Dibenzofuran	1200	3		mg/kg	0.041	U		0.037	U	0.037
Diethyl Phthalate	660000	122		mg/kg	0.21	U		0.19	U	0.18
Dimethoate	1800	0.198		mg/kg						
Dimethyl Phthalate				mg/kg	0.21	U		0.19	U	0.18
Di-n-Butyl Phthalate	82000	46		mg/kg	0.21	U		0.19	U	0.18
Di-n-Octyl Phthalate	8200	1140		mg/kg	0.21	U		0.19	U	0.18
Dinoseb	820	2.6	1.24	mg/kg						
Diphenylamine				mg/kg						
Disulfoton	33	0.0188		mg/kg						
Ethane, Pentachloro-	36	0.0062		mg/kg						
Ethyl Parathion	4900	8.6		mg/kg						
Famphur				mg/kg						
Fluoranthene	30000	1780		mg/kg	0.013	J		0.019	U	0.019
Fluorene	30000	108		mg/kg	0.021	U		0.019	U	0.019
Hexachlorobenzene	0.96	0.0024	0.26	mg/kg	0.021	U		0.019	U	0.019
Hexachlorobutadiene	5.3	0.0054		mg/kg	0.041	U		0.037	U	0.037
Hexachlorocyclopentadiene	7.5	0.026	3.2	mg/kg	0.62	U		0.56	U	0.55
Hexachloroethane	8	0.004		mg/kg	0.21	U		0.19	U	0.18
Hexachlorophene	250	160		mg/kg						
Hexachloropropene				mg/kg						
Indeno(1,2,3-Cd)Pyrene	21	19.6		mg/kg	0.021	U		0.019	U	0.019
Isodrin				mg/kg						
Isophorone	2400	0.52		mg/kg	0.041	U		0.037	U	0.037
Isosafrole				mg/kg						
Kepone	0.23	0.0024		mg/kg						
Methanesulfonic Acid, Ethyl Ester				mg/kg						
Methapyrilene				mg/kg						
Methyl Methanesulfonate	23	0.0032		mg/kg						
Methyl Parathion	210	0.148		mg/kg						
Naphthalene	8.6	0.0076		mg/kg	0.021	U		0.019	U	0.019
Nitrobenzene	22	0.00184		mg/kg	0.041	U		0.037	U	0.037
n-Nitrosodiethylamine	0.015	0.0000122		mg/kg						
n-Nitrosodimethylamine	0.034	0.00000054		mg/kg						
n-Nitrosodi-n-Butylamine	0.46	0.00011		mg/kg						

Table 12. SWMU 27 Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	SM27-SS03 SM27-SS3_091415 9/14/2015		SM27-SS04 SM27-SS4_091415 9/14/2015		SM27-SS04 DUP11_091415 9/14/2015	
					Result	Qual	Result	Qual	Result	Qual
n-Nitroso-di-n-Propylamine	0.33	0.00162		mg/kg	0.041	U	0.037	U	0.037	U
n-Nitrosodiphenylamine	470	1.34		mg/kg	0.041	U	0.037	U	0.037	U
n-Nitrosomethylethylamine	0.091	0.000004		mg/kg						
n-Nitrosomorpholine	0.34	0.000056		mg/kg						
n-Nitrosopiperidine	0.24	0.000088		mg/kg						
n-Nitrosopyrrolidine	1.1	0.00028		mg/kg						
O,O,O-Triethyl Phosphorothioate				mg/kg						
o-Toluidine	140	0.04		mg/kg						
Pentachlorobenzene	930	0.48		mg/kg						
Pentachloronitrobenzene	13	0.03		mg/kg						
Pentachlorophenol	4	0.00114	0.028	mg/kg	0.21	U	0.19	U	0.19	U
Phenacetin	1000	0.194		mg/kg						
Phenanthrene				mg/kg	0.005	J	0.019	U	0.019	U
Phenol	250000	66		mg/kg	0.041	U	0.037	U	0.037	U
Phorate	160	0.068		mg/kg						
p-Phenylenediamine	820	0.108		mg/kg						
Pronamide	62000	24		mg/kg						
Pyrene	23000	260		mg/kg	0.01	J	0.019	U	0.005	J
Pyridine	1200	0.136		mg/kg						
Quinoline, 4-Nitro-1-Oxide-				mg/kg						
Safrole	10	0.00118		mg/kg						
Thionazine				mg/kg						
Thiopyrophosphoric Acid ((Ho)2P(S)2O), Tetraethyl	410	0.104		mg/kg						
Total Aramite	92	0.3		mg/kg						
Cyanide, Total	150	0.3	40	mg/kg						
pH				S.U.						

Notes:

Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), Industrial Soil Screening Level (SSL) (November 2021)

Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20

Exceeds the EPA RSL, Maximum Contaminant Level (MCL) SSL assuming a DAF of 20

Blanks indicate RSL not established or constituent not analyzed

RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0

U = undetected

J = estimated value

J+ = estimated biased high

J- = estimated biased low

R = rejected

MG/KG - milligram per kilogram

SWMU = Solid Waste Management Unit

RCRA = Resource Conservation and Recovery Act

Sample depth shown in Sample ID (e.g., SBBF3-04_6-8 indicates 6 to 8-foot sample)

DUP = Duplicate sample

Exceedances shown may exceed one or more criteria if available

Table 13. AOC 3 Soil Analytical Results
RCRA Facility Investigation Report
Honeywell Delaware Valley Works
Claymont, Delaware
Wood Project No. 3482210786

Parameter	Location Sample Date				AOC3-BPA-A 12/12/2002		AOC3-BPA-B 12/12/2002		AOC3-BPA-C 12/12/2002		AOC3-BPA-D 12/12/2002		AOC3-BPA-E 12/12/2002		BPA-F 12/12/2002		BPA-G 12/12/2002	
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Pesticides																		
4,4'-DDD	9.6	0.15		mg/kg			3.5 J		8.6 J		1.1 J			5.6 J			1.6 J	
4,4'-DDE	9.3	0.22		mg/kg	0.42 J		1.8 J		2.1 J		0.97 J	0.21 J		4.5 J			1.1 J	
4,4'-DDT	8.5	1.54		mg/kg	1.3 J		50 J		25 J		7.7 J	0.96 J		5.3 J			1.2 J	
Beta-BHC	1.3	0.003		mg/kg													0.057 J	
Semi-Volatile Organic Compounds																		
2,4,5-T	82000	80		mg/kg	0.02 J		0.012 J											

Notes:

Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL),
Industrial Soil Screening Level (SSL) (November 2021)

Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20

Exceeds the EPA RSL, Maximum Contaminant Level (MCL) SSL assuming a DAF of 20

Blanks indicate RSL not established or constituent not analyzed

RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0

U = undetected

J = estimated value

J+ = estimated biased high

J- = estimated biased low

R = rejected

MG/KG - milligram per kilogram

SWMU = Solid Waste Management Unit

RCRA = Resource Conservation and Recovery Act

Sample depth shown in Sample ID (e.g., SBBF3-04_6-8 indicates 6 to 8-foot sample)

DUP = Duplicate sample

Exceedances shown may exceed one or more criteria if available

Table 14. AOC 16NP Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location			Units	AOC16NP-SB05 AOC16NP-SB5-(0-1)_072815 7/28/2015		AOC16NP-SB05 AOC16NP-SB5-(7-8)_072815 7/28/2015		AOC16NP-SB05 AOC16NP-SB5-(12-13)_072815 7/28/2015		AOC16NP-SB06 AOC16NP-SB6-(SS)_072815 7/28/2015		AOC16NP-SB06 AOC16NP-SB6-(9-10)_072815 7/28/2015		AOC16NP-SB06 DUP5-072815 7/28/2015		AOC16-SB01 AOC16-SB1-SS_072315 7/23/2015		AOC16-SB01 AOC16-SB1-(2-3)_072315 7/23/2015		AOC16-SB01 AOC16-SB1(10.5-11.5)_072315 7/23/2015	
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20		Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Acetophenone	120000	11.6		mg/kg	0.039	U	0.041	U	0.039	U	0.037	U	0.039	U	0.039	U	0.038	U	0.039	U	0.039	U
Anthracene	230000	1160		mg/kg	0.023	U	0.027	U	0.046	U	0.019	U	0.02	U	0.02	U	0.02	U	0.14	U	0.02	U
Atrazine	10	0.004	0.038	mg/kg	0.19	U	0.2	U	0.19	U	0.19	U	0.19	U	0.19	U	0.19	U	0.19	U	0.19	U
Benzaldehyde	820	0.082		mg/kg	0.19	UJ	0.2	UJ	0.2	UJ	0.19	UJ	0.19	UJ	0.19	UJ	0.19	UJ	0.19	UJ	0.19	UJ
Benzo(A)Anthracene	21	0.22		mg/kg	0.066	U	0.015	J	0.033	U	0.005	J	0.02	U	0.02	U	0.052	U	0.33	U	0.02	U
Benzo(A)Pyrene	2.1	0.58	4.8	mg/kg	0.068	U	0.023	U	0.023	U	0.012	J	0.02	U	0.006	J	0.074	U	0.25	U	0.02	U
Benzo(B)Fluoranthene	21	6		mg/kg	0.12	U	0.009	J	0.025	U	0.008	J	0.02	U	0.02	U	0.13	U	0.45	U	0.02	U
Benzo(G,H,I)perylene				mg/kg	0.066	U	0.006	J	0.018	J	0.019	U	0.02	U	0.02	U	0.072	U	0.28	U	0.02	U
Benzo(K)Fluoranthene	210	58		mg/kg	0.055	U	0.007	J	0.013	J	0.019	U	0.02	U	0.02	U	0.058	U	0.11	U	0.02	U
bis-(2-Chloroethoxy)Methane	2500	0.26		mg/kg	0.039	U	0.041	U	0.039	U	0.037	U	0.039	U	0.039	U	0.038	U	0.039	U	0.039	U
bis-(2-Chloroethyl)Ether	1	0.00072		mg/kg	0.039	U	0.039	U	0.039	U	0.037	U	0.039	U	0.039	U	0.038	U	0.039	U	0.039	U
bis(2-Chloroisopropyl)Ether				mg/kg	0.039	U	0.041	U	0.039	U	0.037	U	0.039	U	0.039	U	0.038	U	0.039	U	0.039	U
bis-(2-Ethylhexyl)Phthalate	160	26	28	mg/kg	0.13	J	0.21	U	0.23	U	0.42	U	0.095	J	0.12	J	0.19	U	0.2	U	0.2	U
Butylbenzyl Phthalate	1200	4.8		mg/kg	0.19	U	0.2	U	0.2	U	0.19	U	0.2	U	0.19	U	0.19	U	0.19	U	0.19	U
Caprolactam	400000	50		mg/kg	0.19	U	0.2	U	0.2	U	0.19	U	0.19	U	0.2	U	0.19	U	0.19	U	0.19	U
Carbazole				mg/kg	0.039	U	0.041	U	0.039	U	0.037	U	0.039	U	0.039	U	0.038	U	0.29	U	0.039	U
Chrysene	2100	180		mg/kg	0.045	U	0.024	U	0.045	U	0.006	J	0.02	U	0.008	J	0.082	U	0.68	U	0.02	U
Dibenzo(a,h)Anthracene	2.1	1.92		mg/kg	0.018	J	0.021	U	0.005	J	0.019	U	0.02	U	0.02	U	0.02	U	0.062	U	0.02	U
Dibenzofuran	1200	3		mg/kg	0.039	U	0.041	U	0.039	U	0.037	U	0.039	U	0.039	U	0.038	U	1.9	U	0.039	U
Diethyl Phthalate	660000	122		mg/kg	0.19	U	0.2	U	0.2	U	0.19	U	0.19	U	0.2	U	0.19	U	0.19	U	0.19	U
Dimethyl Phthalate				mg/kg	0.19	U	0.2	U	0.2	U	0.19	U	0.19	U	0.2	U	0.19	U	0.19	U	0.19	U
Di-n-Butyl Phthalate	82000	46		mg/kg	0.19	U	0.2	U	0.19	U	0.19	U	0.19	U	0.2	U	0.19	U	0.19	U	0.19	U
Di-n-Octyl Phthalate	8200	1140		mg/kg	0.19	U	0.2	U	0.2	U	0.19	U	0.19	U	0.2	U	0.19	U	0.19	U	0.19	U
Fluoranthene	30000	1780		mg/kg	0.13	U	0.032	U	0.077	U	0.008	J	0.02	U	0.009	J	0.12	U	0.48	U	0.02	U
Fluorene	30000	108		mg/kg	0.02	U	0.006	J	0.016	J	0.019	U	0.02	U	0.019	U	0.019	U	0.02	U	0.02	U
Hexachlorobenzene	0.96	0.0024	0.26	mg/kg	0.06	U	0.021	U	0.02	U	0.019	U	0.02	U	0.02	U	0.054	U	0.69	U	0.02	U
Hexachlorobutadiene	5.3	0.0054		mg/kg	0.039	U	0.041	U	0.039	U	0.037	U	0.039	U	0.039	U	0.038	U	0.039	U	0.039	U
Hexachlorocyclopentadiene	7.5	0.026	3.2	mg/kg	0.58	U	0.61	U	0.58	U	0.56	U	0.58	U	0.56	U	0.56	U	0.58	U	0.59	U
Hexachloroethane	8	0.004		mg/kg	0.19	U	0.2	U	0.2	U	0.19	U	0.19	U	0.2	U	0.19	U	0.19	U	0.19	U
Indeno(1,2,3-Cd)Pyrene	21	19.6		mg/kg	0.069	U	0.021	U	0.015	J	0.019	U	0.02	U	0.02	U	0.051	U	0.16	U	0.02	U
Isophorone	2400	0.52		mg/kg	0.039	U	0.041	U	0.039	U	0.037	U	0.039	U	0.039	U	0.038	U	0.039	U	0.039	U
m,p-Cresol				mg/kg																		
Naphthalene	8.6	0.0076		mg/kg	0.04	U	0.021	U	0.02	U	0.019	U	0.02	UJ	0.11	J	0.054	U	5	U	0.02	U
Nitrobenzene	22	0.00184		mg/kg	0.039	U	0.041	U	0.039	U	0.037	U	0.039	U	0.039	U	0.038	U	0.49	U	0.039	U
n-Nitroso-di-n-Propylamine	0.33	0.000162		mg/kg	0.039	U	0.041	U	0.039	U	0.037	U	0.039	U	0.039	U	0.038	U	0.039	U	0.039	U
n-Nitrosodiphenylamine	470	1.34		mg/kg	0.054	U	0.56	U	0.55	U	0.037	U	0.31	U	0.28	U	0.038	U	0.039	U	0.039	U
Pentachlorophenol	4	0.00114	0.028	mg/kg	0.2	U	0.21	U	0.2	U	0.19	U	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U
Phenanthrene				mg/kg	0.097	U	0.05	U	0.12	U	0.007	J	0.008	J	0.019	J	0.079	U	3.3	U	0.02	U
Phenol	250000	66		mg/kg	0.039	U	0.29	U	0.046	U	0.039	U	0.037	U	0.039	U	0.038	U	0.039	U	0.039	U
Pyrene	23000	260		mg/kg	0.12	U	0.038	U	0.085	U	0.019	U	0.02	U	0.02	U	0.12	U	0.56	U	0.02	U

Notes:
 Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), Industrial Soil Screening Level (SSL) (November 2021)
 Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20
 Exceeds the EPA RSL, Maximum Contaminant Level (MCL) SSL assuming a DAF of 20
 Blanks indicate RSL not established or constituent not analyzed
 RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0
 U = undetected
 J = estimated value
 J+ = estimated biased high
 J- = estimated biased low
 R = rejected
 MG/KG - milligram per kilogram
 SWMU = Solid Waste Management Unit
 RCRA = Resource Conservation and Recovery Act
 Sample depth shown in Sample ID (e.g., SBBF3-04_6-8 indicates 6 to 8-foot sample)
 DUP = Duplicate sample
 Exceedances shown may exceed one or more criteria if available

Table 14. AOC 16NP Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location			Units	AOC16-SB02 AOC16-SB2-(SS)_072315 7/23/2015		AOC16-SB02 AOC16-SB2-(1-2)_072315 7/23/2015		AOC16-SB02 AOC16-SB2-(12-12.5)_072315 7/23/2015		AOC16-SB03 AOC16-SB3-SS_072315 7/23/2015		AOC16-SB03 AOC16-SB3-(10-12)_072315 7/23/2015		AOC16-SB04 AOC16-SB4-SS_072315 7/23/2015		AOC16-SB04 AOC16-SB4-10-11_072315 7/23/2015		AOC16-SB04 DUP1-072315 7/23/2015		AOC16-SB07 AOC16-SB7-3.5_082115 8/21/2015			
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20		Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Acetophenone	120000	11.6		mg/kg	0.038	U	0.041	U	0.039	U	0.038	U	0.039	U	0.38	U	0.039	U	0.039	U	0.039	U	0.043	U
Anthracene	230000	1160		mg/kg	0.017	J	0.009	J	0.02	U	0.02	U	0.02	U	0.19	U	0.02	U	0.02	U	0.02	U	0.008	J
Atrazine	10	0.004	0.038	mg/kg	0.19	U	0.2	U	0.19	U	0.19	U	0.2	U	1.9	U	0.19	U	0.19	U	0.19	U	0.22	U
Benzaldehyde	820	0.082		mg/kg	0.19	UJ	0.2	UJ	0.2	UJ	0.19	UJ	0.2	UJ	1.9	UJ	0.19	UJ	0.19	UJ	0.19	UJ	0.093	J
Benzo(A)Anthracene	21	0.22		mg/kg	0.064		0.017	J	0.02	U	0.035		0.02	U	0.068	J	0.02	U	0.02	U	0.02	U	0.013	J
Benzo(A)Pyrene	2.1	0.58	4.8	mg/kg	0.05		0.016	J	0.02	U	0.014	J	0.02	U	0.014	J	0.02	U	0.02	U	0.02	U	0.022	U
Benzo(B)Fluoranthene	21	6		mg/kg	0.07		0.019	J	0.02	U	0.047		0.02	U	0.42		0.02	U	0.02	U	0.02	U	0.031	
Benzo(G,H,I)perylene				mg/kg	0.038		0.022		0.02	U	0.038		0.02	U	0.22		0.02	U	0.02	U	0.02	U	0.022	U
Benzo(K)Fluoranthene	210	58		mg/kg	0.026		0.013	J	0.02	U	0.027		0.02	U	0.14	J	0.02	U	0.02	U	0.02	U	0.022	U
bis-(2-Chloroethoxy)Methane	2500	0.26		mg/kg	0.038	U	0.041	U	0.039	U	0.038	U	0.039	U	0.38	U	0.039	U	0.039	U	0.039	U	0.043	U
bis-(2-Chloroethyl)Ether	1	0.00072		mg/kg	0.038	U	0.041	U	0.039	U	0.038	U	0.041	U	0.38	U	0.039	U	0.039	U	0.039	U	0.043	U
bis(2-Chloroisopropyl)Ether				mg/kg	0.038	U	0.041	U	0.039	U	0.038	U	0.039	U	0.38	U	0.039	U	0.039	U	0.039	U	0.043	U
bis-(2-Ethylhexyl)Phthalate	160	26	28	mg/kg	0.2	U	0.21	U	0.2	U	0.2	U	0.2	U	1.9	U	0.2	U	0.2	U	0.2	U	0.22	U
Butylbenzyl Phthalate	1200	4.8		mg/kg	0.19	U	0.2	U	0.19	U	0.19	U	0.2	U	1.9	U	0.19	U	0.19	U	0.19	U	0.22	U
Caprolactam	400000	50		mg/kg	0.19	U	0.2	U	0.2	U	0.19	U	0.2	U	1.9	U	0.19	U	0.19	U	0.19	U	0.22	U
Carbazole				mg/kg	0.058		0.089		0.039	U	0.038	U	0.039	U	0.38	U	0.039	U	0.039	U	0.039	U	0.043	U
Chrysene	2100	180		mg/kg	0.1		0.036		0.02	U	0.045		0.02	U	0.22		0.02	U	0.02	U	0.02	U	0.03	
Dibenzo(a,h)Anthracene	2.1	1.92		mg/kg	0.024		0.021	U	0.02	U	0.01	J	0.02	U	0.19	U	0.02	U	0.02	U	0.02	U	0.022	U
Dibenzofuran	1200	3		mg/kg	0.034	J	0.041	U	0.039	U	0.038	U	0.039	U	0.38	U	0.039	U	0.039	U	0.039	U	0.043	U
Diethyl Phthalate	660000	122		mg/kg	0.19	U	0.2	U	0.2	U	0.19	U	0.2	U	1.9	U	0.19	U	0.19	U	0.19	U	0.22	U
Dimethyl Phthalate				mg/kg	0.19	U	0.2	U	0.2	U	0.19	U	0.2	U	1.9	U	0.19	U	0.19	U	0.19	U	0.22	U
Di-n-Butyl Phthalate	82000	46		mg/kg	0.19	U	0.2	U	0.19	U	0.19	U	0.2	U	1.9	U	0.19	U	0.19	U	0.19	U	0.22	U
Di-n-Octyl Phthalate	8200	1140		mg/kg	0.19	U	0.2	U	0.2	U	0.19	U	0.2	U	1.9	U	0.19	U	0.19	U	0.19	U	0.22	U
Fluoranthene	30000	1780		mg/kg	0.075		0.052		0.02	U	0.12		0.02	U	0.45		0.02	U	0.02	U	0.02	U	0.03	
Fluorene	30000	108		mg/kg	0.12		0.021	U	0.02	U	0.02	U	0.02	U	0.19	U	0.02	U	0.02	U	0.02	U	0.089	
Hexachlorobenzene	0.96	0.0024	0.26	mg/kg	0.02	U	0.021	U	0.02	U	0.02	U	0.02	U	0.19	U	0.02	U	0.02	U	0.02	U	0.022	U
Hexachlorobutadiene	5.3	0.0054		mg/kg	0.038	U	0.041	U	0.039	U	0.038	U	0.039	U	0.38	U	0.039	U	0.039	U	0.039	U	0.043	U
Hexachlorocyclopentadiene	7.5	0.026	3.2	mg/kg	0.58	U	0.61	U	0.59	U	0.58	U	0.59	U	5.7	U	0.58	U	0.58	U	0.58	U	0.65	U
Hexachloroethane	8	0.004		mg/kg	0.19	U	0.2	U	0.2	U	0.19	U	0.2	U	1.9	U	0.19	U	0.19	U	0.19	U	0.22	U
Indeno(1,2,3-Cd)Pyrene	21	19.6		mg/kg	0.036		0.016	J	0.02	U	0.017	J	0.02	U	0.24		0.02	U	0.02	U	0.02	U	0.022	U
Isophorone	2400	0.52		mg/kg	0.038	U	0.041	U	0.039	U	0.038	U	0.041	U	0.38	U	0.039	U	0.039	U	0.039	U	0.043	U
m,p-Cresol				mg/kg																				
Naphthalene	8.6	0.0076		mg/kg	0.081		0.011	J	0.02	U	0.015	J	0.02	U	0.19	U	0.02	U	0.02	U	0.02	U	0.028	
Nitrobenzene	22	0.00184		mg/kg	0.091		0.041	U	0.039	U	0.038	U	0.039	U	0.38	U	0.039	U	0.039	U	0.039	U	0.043	U
n-Nitroso-di-n-Propylamine	0.33	0.000162		mg/kg	0.038	U	0.041	U	0.039	U	0.038	U	0.039	U	0.38	U	0.039	U	0.039	U	0.039	U	0.043	U
n-Nitrosodiphenylamine	470	1.34		mg/kg	0.29		1		0.039	U	0.038	U	0.039	U	0.38	U	0.039	U	0.039	U	0.039	U	0.24	
Pentachlorophenol	4	0.00114	0.028	mg/kg	0.2	U	0.21	U	0.2	U	0.2	U	0.2	U	1.9	U	0.2	U	0.2	U	0.2	U	0.22	U
Phenanthrene				mg/kg	0.14		0.06		0.02	U	0.041		0.02	U	0.19	U	0.02	U	0.02	U	0.02	U	0.055	
Phenol	250000	66		mg/kg	0.038	U	0.041	U	0.038	U	0.038	U	0.041	U	0.38	U	0.039	U	0.039	U	0.039	U	0.043	U
Pyrene	23000	260		mg/kg	0.09		0.051		0.02	U	0.095		0.02	U	0.39		0.02	U	0.02	U	0.02	U	0.032	

Notes:
 Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), Industrial Soil Screening Level (SSL) (November 2021)
 Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20
 Exceeds the EPA RSL, Maximum Contaminant Level (MCL) SSL assuming a DAF of 20
 Blanks indicate RSL not established or constituent not analyzed
 RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0
 U = undetected
 J = estimated value
 J+ = estimated biased high
 J- = estimated biased low
 R = rejected
 MG/KG - milligram per kilogram
 SWMU = Solid Waste Management Unit
 RCRA = Resource Conservation and Recovery Act
 Sample depth shown in Sample ID (e.g., SBBF3-04_6-8 indicates 6 to 8-foot sample)
 DUP = Duplicate sample
 Exceedances shown may exceed one or more criteria if available

Table 14. AOC 16NP Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location			Units	AOC16-SS01 AOC16-SS1_090815 9/8/2015		TP-01-A TP-01-A (3.5-4) 10/27/2009		TP-01-B TP-01-B (3.5-4) 10/27/2009		TP-02-A TP-02-A (3.5-4) 10/27/2009		TP-02-B TP-02-B (3.5-4) 10/27/2009		TP-03 TP-03 (3-3.5) 10/27/2009		TP-04-A TP-04-A (3.5-4) 10/27/2009		TP-04-B TP-04-B (3.5-4) 10/27/2009		TP-05-A TP-05-A (3.5-4) 10/27/2009	
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20		Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Acetophenone	120000	11.6		mg/kg	0.033	U																
Anthracene	230000	1160		mg/kg	0.017	U	0.013	U	0.176	J	0.063	U	0.0555		0.0915		0.067	U	0.0222	J	0.012	U
Atrazine	10	0.004	0.038	mg/kg	0.17	U																
Benzaldehyde	820	0.082		mg/kg	0.17	U																
Benzo(A)Anthracene	21	0.22		mg/kg	0.017	U	0.0179	J	0.454		0.059	U	0.0466		0.16		0.238		0.0684		0.011	U
Benzo(A)Pyrene	2.1	0.58	4.8	mg/kg	0.017	U	0.0132	J	0.274		0.055	U	0.011	U	0.011	U	0.118	J	0.0612		0.011	U
Benzo(B)Fluoranthene	21	6		mg/kg	0.017	U	0.0169	J	0.632		0.06	U	0.135		0.0392		0.534		0.111		0.012	U
Benzo(G,H,I)perylene				mg/kg	0.017	U	0.013	U	0.365		0.067	U	0.013	U	0.014	U	0.071	U	0.0469		0.013	U
Benzo(K)Fluoranthene	210	58		mg/kg	0.017	U	0.014	U	0.245		0.068	U	0.0674		0.0308	J	0.301		0.042		0.013	U
bis-(2-Chloroethoxy)Methane	2500	0.26		mg/kg	0.033	U	0.015	U	0.077	U	0.073	U	0.015	U	0.014	U	0.077	U	0.014	U	0.014	U
bis-(2-Chloroethyl)Ether	1	0.00072		mg/kg	0.033	U	0.011	U	0.057	U	0.054	U	0.011	U	0.011	U	0.057	U	0.01	U	0.01	U
bis(2-Chloroisopropyl)Ether				mg/kg	0.033	U																
bis-(2-Ethylhexyl)Phthalate	160	26	28	mg/kg	0.17	U	0.032	U	2.86		0.16	U	0.032	U	0.031	U	0.284	J	0.0741		0.03	U
Butylbenzyl Phthalate	1200	4.8		mg/kg	0.17	U	0.021	U	0.11	U	0.021	U	0.021	U	0.021	U	0.11	U	0.019	U	0.02	U
Caprolactam	400000	50		mg/kg	0.17	U																
Carbazole				mg/kg	0.033	U	0.017	U	0.088	U	0.084	U	0.152		0.226		0.088	U	0.037	J	0.016	U
Chrysene	2100	180		mg/kg	0.017	U	0.0261	J	0.537		0.061	U	0.0485		0.279		0.368		0.0892		0.012	U
Dibenzo(a,h)Anthracene	2.1	1.92		mg/kg	0.017	U	0.012	U	0.065	U	0.062	U	0.013	U	0.012	U	0.065	U	0.011	U	0.012	U
Dibenzofuran	1200	3		mg/kg	0.033	U	0.011	U	0.147	J	0.054	U	0.011	U	0.01	U	0.057	U	0.0377	J	0.01	U
Diethyl Phthalate	660000	122		mg/kg	0.17	U	0.012	U	0.065	U	0.062	U	0.013	U	0.013	U	0.065	U	0.011	U	0.012	U
Dimethyl Phthalate				mg/kg	0.17	U	0.065	J	0.067	U	0.064	U	0.013	U	0.012	U	0.067	U	0.0409	J	0.012	U
Di-n-Butyl Phthalate	82000	46		mg/kg	0.17	U	0.008	U	0.301	J	0.04	U	0.0082	U	0.0078	U	0.042	U	0.0074	U	0.0077	U
Di-n-Octyl Phthalate	8200	1140		mg/kg	0.17	U	0.018	U	0.093	U	0.088	U	0.018	U	0.017	U	0.093	U	0.016	U	0.017	U
Fluoranthene	30000	1780		mg/kg	0.017	U	0.0217	J	1.29		0.08	U	0.31		0.379		0.657		0.147		0.015	U
Fluorene	30000	108		mg/kg	0.017	U	0.012	U	0.063	U	0.059	U	0.012	U	0.011	U	0.062	U	0.011	U	0.011	U
Hexachlorobenzene	0.96	0.0024	0.26	mg/kg	0.017	U	0.012	U	0.062	U	0.059	U	0.012	U	0.011	U	0.062	U	0.011	U	0.011	U
Hexachlorobutadiene	5.3	0.0054		mg/kg	0.033	U	0.01	U	0.053	U	0.05	U	0.01	U	0.0097	U	0.053	U	0.0093	U	0.0096	U
Hexachlorocyclopentadiene	7.5	0.026	3.2	mg/kg	0.5	UJ	0.037	U	0.19	U	0.037	U	0.036	U	0.19	U	0.034	U	0.036	U	0.035	U
Hexachloroethane	8	0.004		mg/kg	0.17	U	0.01	U	0.053	U	0.05	U	0.01	U	0.0097	U	0.053	U	0.0093	U	0.0096	U
Indeno(1,2,3-Cd)Pyrene	21	19.6		mg/kg	0.017	U	0.013	U	0.317		0.063	U	0.013	U	0.012	U	0.066	U	0.0508		0.012	U
Isophorone	2400	0.52		mg/kg	0.033	U	0.0097	U	0.051	U	0.049	U	0.0099	U	0.0094	U	0.051	U	0.009	U	0.0093	U
m,p-Cresol				mg/kg			0.046	U	0.24	U	0.23	U	0.047	U	0.044	U	0.24	U	0.042	U	0.044	U
Naphthalene	8.6	0.0076		mg/kg	0.017	U	0.0141	J	0.394		0.049	U	0.01	U	0.0095	U	0.11	J	0.0313	J	0.0094	U
Nitrobenzene	22	0.00184		mg/kg	0.033	U	0.01	U	0.055	U	0.052	U	0.011	U	0.01	U	0.055	U	0.0097	U	0.01	U
n-Nitroso-di-n-Propylamine	0.33	0.000162		mg/kg	0.033	U	0.0088	U	0.047	U	0.044	U	0.009	U	0.0085	U	0.046	U	0.0082	U	0.0084	U
n-Nitrosodiphenylamine	470	1.34		mg/kg	0.033	U	0.022	U	0.424	J	0.291	J	2.55		6.69		0.141	J	0.0951	J	0.021	U
Pentachlorophenol	4	0.00114	0.028	mg/kg	0.17	U	0.062	U	0.33	U	0.31	U	0.063	U	0.06	U	0.33	U	0.057	U	0.059	U
Phenanthrene				mg/kg	0.017	U	0.0258	J	1.32		0.082	U	0.371		0.638		0.491		0.183		0.016	U
Phenol	250000	66		mg/kg	0.033	U	0.038	U	0.2	U	0.269	J	0.039	U	0.037	U	0.2	U	0.035	U	0.036	U
Pyrene	23000	260		mg/kg	0.017	U	0.0214	J	0.989		0.069	U	0.118		0.332		0.625		0.116		0.013	U

Notes:
 Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), Industrial Soil Screening Level (SSL) (November 2021)
 Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20
 Exceeds the EPA RSL, Maximum Contaminant Level (MCL) SSL assuming a DAF of 20
 Blanks indicate RSL not established or constituent not analyzed
 RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0
 U = undetected
 J = estimated value
 J+ = estimated biased high
 J- = estimated biased low
 R = rejected
 MG/KG - milligram per kilogram
 SWMU = Solid Waste Management Unit
 RCRA = Resource Conservation and Recovery Act
 Sample depth shown in Sample ID (e.g., SBBF3-04_6-8 indicates 6 to 8-foot sample)
 DUP = Duplicate sample
 Exceedances shown may exceed one or more criteria if available

Table 14. AOC 16NP Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location				TP-05-B		TP-05-B	
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	TP-05-B (3.5-4) 10/27/2009	Qual	TP-05-B (3.5-4)-DUP-1 10/27/2009	Qual
Metals								
Aluminum	110000	60000		mg/kg	8870		10600	
Antimony	470	7	5.4	mg/kg	34.3		15.1	
Arsenic	3	0.03	5.8	mg/kg	56.1		45.2	
Barium	220000	3200	1640	mg/kg	271		295	
Beryllium	2300	380	64	mg/kg	0.024	U	0.023	U
Cadmium	100	2.8	7.6	mg/kg	4.3		0.11	U
Calcium				mg/kg	8.9	U	8.8	U
Chromium			3600000	mg/kg	32.6		36.9	
Cobalt	350	5.4		mg/kg	81.3		0.11	U
Copper	47000	560	920	mg/kg	849		600	
Iron	820000	7000		mg/kg	152000		97700	
Lead	800		280	mg/kg	857		736	
Magnesium				mg/kg	936		1230	
Manganese	26000	560		mg/kg	334		355	
Nickel	22000	520		mg/kg	23.6		24	
Potassium				mg/kg	10	U	10	U
Selenium	5800	10.4	5.2	mg/kg	1.3	U	1.3	U
Silver	5800	16		mg/kg	0.39	U	0.13	U
Sodium				mg/kg	4.1	U	4.1	U
Thallium	12	0.28	2.8	mg/kg	0.7	U	0.69	U
Vanadium	5800	1720		mg/kg	38.4		42.8	
Zinc	350000	7400		mg/kg	1510		339	
Mercury	46	0.66	2	mg/kg	0.33		0.2	
Pesticides								
4,4'-DDD	9.6	0.15		mg/kg	18.7		6.24	
4,4'-DDE	9.3	0.22		mg/kg	6.21		5.47	
4,4'-DDT	8.5	1.54		mg/kg	143		50.9	
Aldrin	0.18	0.003		mg/kg	0.0062	U	0.062	U
Alpha-BHC	0.36	0.00084		mg/kg	497		171	
Beta-BHC	1.3	0.003		mg/kg	55.2		17.7	
cis-Chlordane	500	9.8		mg/kg	0.0047	U	0.047	U
Delta-BHC				mg/kg	48.2		12	
Dieldrin	0.14	0.00142		mg/kg	0.0047	U	0.047	U
Endosulfan I				mg/kg	0.0048	U	0.047	U
Endosulfan II				mg/kg	0.0053	U	0.053	U
Endosulfan Sulfate	4900	42		mg/kg	0.0053	U	0.053	U
Endrin	250	1.84	1.62	mg/kg	0.0048	U	0.048	U
Endrin Aldehyde				mg/kg	0.0065	U	0.065	U
Endrin Ketone				mg/kg	0.0049	U	0.049	U
Gamma-BHC (Lindane)	2.5	0.0048	0.024	mg/kg	34.5		8.88	
Gamma-Chlordane				mg/kg				
Heptachlor	0.63	0.0024	0.66	mg/kg	0.0063	U	0.062	U
Heptachlor Epoxide	0.33	0.00056	0.082	mg/kg	0.0054	U	0.053	U
Methoxychlor	4100	40	44	mg/kg	0.0062	U	0.062	U
Toxaphene	2.1	0.22	9.2	mg/kg	0.16	U	1.6	U
trans-Chlordane	500	28		mg/kg	0.0055	U	0.054	U
Volatile Organic Compounds								
1,1,1-Trichloroethane	36000	56	1.4	mg/kg	0.00013	U	0.014	U
1,1,2,2-Tetrachloroethane	2.7	0.0006		mg/kg	0.00029	U	0.032	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	28000	520		mg/kg				
1,1,2-Trichloroethane	5	0.00178	0.032	mg/kg	0.00018	U	0.02	U
1,1-Dichloroethane	16	0.0156		mg/kg	0.00014	U	0.015	U
1,1-Dichloroethene	1000	2	0.05	mg/kg	0.00065	U	0.073	U
1,2,3-Trichlorobenzene	930	0.42		mg/kg				
1,2,4-Trichlorobenzene	110	0.068	4	mg/kg				
1,2-Dibromo-3-Chloropropane	0.064	0.000028	0.00172	mg/kg				
1,2-Dibromoethane	0.16	0.000042	0.00028	mg/kg				
1,2-Dichlorobenzene	9300	6	11.6	mg/kg				
1,2-Dichloroethane	2	0.00096	0.028	mg/kg	0.00034	U	0.038	U
1,2-Dichloroethene (Total)				mg/kg	0.00024	U	0.026	U
1,2-Dichloropropane	11	0.0056	0.034	mg/kg	0.00013	U	0.014	U
1,3-Dichlorobenzene				mg/kg				
1,4-Dichlorobenzene	11	0.0092	1.44	mg/kg				
1,4-Dioxane	24	0.00188		mg/kg				
2-Butanone	190000	24		mg/kg	0.0019	U	0.22	U
2-Hexanone	1300	0.176		mg/kg	0.00095	U	0.11	U
4-Methyl-2-Pentanone	140000	28		mg/kg	0.0008	U	0.089	U

Table 14. AOC 16NP Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location				TP-05-B		TP-05-B	
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	TP-05-B (3.5-4) 10/27/2009	Qual	TP-05-B (3.5-4)-DUP-1 10/27/2009	Qual
Acetone	1100000	74		mg/kg	0.0022	U	0.24	U
Benzene	5.1	0.0046	0.052	mg/kg	0.0025		0.228	
Bromochloromethane	630	0.42		mg/kg				
Bromodichloromethane	1.3	0.00072	0.44	mg/kg	0.00025	U	0.028	U
Bromoform	86	0.0174	0.42	mg/kg	0.00015	U	0.017	U
Bromomethane	30	0.038		mg/kg	0.0004	U	0.044	U
Carbon Disulfide	3500	4.8		mg/kg	0.0003	U	0.033	U
Carbon Tetrachloride	2.9	0.0036	0.038	mg/kg	0.00055	U	0.061	U
Chlorobenzene	1300	1.06	1.36	mg/kg	0.0032	J	0.588	
Chloroethane	23000	48		mg/kg	0.0011	U	0.13	U
Chloroform	1.4	0.00122	0.44	mg/kg	0.0028	J	0.183	J
Chloromethane	460	0.98		mg/kg	0.00016	U	0.018	U
cis-1,2-Dichloroethene	2300	0.22	0.42	mg/kg	0.00024	U	0.026	U
cis-1,3-Dichloropropene				mg/kg	0.00013	U	0.015	U
Cyclohexane	27000	260		mg/kg				
Dibromochloromethane	39	0.0046	0.42	mg/kg	0.00011	U	0.012	U
Dichlorodifluoromethane	370	6		mg/kg				
Ethylbenzene	25	0.034	15.6	mg/kg	0.00037	U	0.041	U
Isopropylbenzene	9900	14.8		mg/kg				
m&p-Xylenes				mg/kg				
Methyl Acetate	1200000	82		mg/kg				
Methyl Tert-Butyl Ether	210	0.064		mg/kg				
Methylcyclohexane				mg/kg				
Methylene Chloride	1000	0.058	0.026	mg/kg	0.00022	U	0.024	U
o-Xylene	2800	3.8		mg/kg				
Styrene	35000	26	2.2	mg/kg	0.00011	U	0.012	U
Tetrachloroethene	100	0.102	0.046	mg/kg	0.00014	U	0.016	U
Toluene	47000	15.2	13.8	mg/kg	0.00029	U	0.032	U
Total Xylenes	2500	3.8	198	mg/kg	0.00046	U	0.051	U
trans-1,2-Dichloroethene	300	0.42	0.62	mg/kg	0.00044	U	0.049	U
trans-1,3-Dichloropropene				mg/kg	9.50E-05	U	0.011	U
Trichloroethene	6	0.0036	0.036	mg/kg	0.00052	U	0.058	U
Trichlorofluoromethane	350000	66		mg/kg				
Vinyl Chloride	1.7	0.00013	0.0138	mg/kg	0.00018	U	0.02	U
Semi-Volatile Organic Compounds								
1,1'-Biphenyl	200	0.174		mg/kg				
1,2,4,5-Tetrachlorobenzene	35	0.0158		mg/kg				
1,2,4-Trichlorobenzene	110	0.068	4	mg/kg	0.441		0.457	
1,2-Dichlorobenzene	9300	6	11.6	mg/kg	0.111		0.105	
1,3-Dichlorobenzene				mg/kg	0.0336	J	0.0334	J
1,4-Dichlorobenzene	11	0.0092	1.44	mg/kg	0.183		0.273	
2,2'-Oxybis(1-Chloropropane)	47000	5.2		mg/kg	0.01	U	0.01	U
2,3,4,6-Tetrachlorophenol	25000	3.6		mg/kg				
2,4,5-Trichlorophenol	82000	80		mg/kg	0.039	U	0.039	U
2,4,6-Trichlorophenol	210	0.08		mg/kg	0.032	U	0.032	U
2,4-Dichlorophenol	2500	0.46		mg/kg	0.054	U	0.054	U
2,4-Dimethylphenol	16000	8.4		mg/kg	0.056	U	0.057	U
2,4-Dinitrophenol	1600	0.88		mg/kg	0.041	U	0.041	U
2,4-Dinitrotoluene	7.4	0.0064		mg/kg	0.015	U	0.015	U
2,6-Dinitrotoluene	1.5	0.00134		mg/kg	0.013	U	0.013	U
2-Chloronaphthalene	60000	78		mg/kg	0.01	U	0.01	U
2-Chlorophenol	5800	1.78		mg/kg	0.034	U	0.034	U
2-Methylnaphthalene	3000	3.8		mg/kg	0.019	U	0.019	U
2-Methylphenol	41000	15		mg/kg	0.038	U	0.038	U
2-Nitroaniline	8000	1.6		mg/kg	0.015	U	0.015	U
2-Nitrophenol				mg/kg	0.036	U	0.036	U
3,3'-Dichlorobenzidine	5.1	0.0164		mg/kg	0.0085	U	0.0085	U
3-Nitroaniline				mg/kg	0.013	U	0.013	U
4,6-Dinitro-2-Methylphenol	66	0.052		mg/kg	0.041	U	0.041	U
4-Bromophenyl Phenyl Ether				mg/kg	0.012	U	0.012	U
4-Chloro-3-Methylphenol	82000	34		mg/kg	0.034	U	0.034	U
4-Chloroaniline	11	0.0032		mg/kg	0.011	U	0.011	U
4-Chlorophenyl Phenyl Ether				mg/kg	0.01	U	0.01	U
4-Methylphenol	16000	6		mg/kg				
4-Nitroaniline	110	0.032		mg/kg	0.013	U	0.013	U
4-Nitrophenol				mg/kg	0.057	U	0.057	U
Acenaphthene	45000	110		mg/kg	0.0097	U	0.0098	U
Acenaphthylene				mg/kg	0.011	U	0.011	U

Table 14. AOC 16NP Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location				TP-05-B		TP-05-B	
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	TP-05-B (3.5-4) 10/27/2009	Qual	TP-05-B (3.5-4)-DUP-1 10/27/2009	Qual
Acetophenone	120000	11.6		mg/kg				
Anthracene	230000	1160		mg/kg	0.012	U	0.012	U
Atrazine	10	0.004	0.038	mg/kg				
Benzaldehyde	820	0.082		mg/kg				
Benzo(A)Anthracene	21	0.22		mg/kg	0.011	U	0.011	U
Benzo(A)Pyrene	2.1	0.58	4.8	mg/kg	0.01	U	0.01	U
Benzo(B)Fluoranthene	21	6		mg/kg	0.011	U	0.011	U
Benzo(G,H,I)perylene				mg/kg	0.012	U	0.013	U
Benzo(K)Fluoranthene	210	58		mg/kg	0.013	U	0.013	U
bis-(2-Chloroethoxy)Methane	2500	0.26		mg/kg	0.014	U	0.014	U
bis-(2-Chloroethyl)Ether	1	0.000072		mg/kg	0.01	U	0.01	U
bis(2-Chloroisopropyl)Ether				mg/kg				
bis-(2-Ethylhexyl)Phthalate	160	26	28	mg/kg	0.03	U	0.03	U
Butylbenzyl Phthalate	1200	4.8		mg/kg	0.019	U	0.019	U
Caprolactam	400000	50		mg/kg				
Carbazole				mg/kg	0.016	U	0.016	U
Chrysene	2100	180		mg/kg	0.011	U	0.011	U
Dibenzo(a,h)Anthracene	2.1	1.92		mg/kg	0.011	U	0.011	U
Dibenzofuran	1200	3		mg/kg	0.01	U	0.01	U
Diethyl Phthalate	660000	122		mg/kg	0.011	U	0.011	U
Dimethyl Phthalate				mg/kg	0.012	U	0.012	U
Di-n-Butyl Phthalate	82000	46		mg/kg	0.0075	U	0.0075	U
Di-n-Octyl Phthalate	8200	1140		mg/kg	0.016	U	0.016	U
Fluoranthene	30000	1780		mg/kg	0.0216	J	0.0271	J
Fluorene	30000	108		mg/kg	0.011	U	0.011	U
Hexachlorobenzene	0.96	0.0024	0.26	mg/kg	0.011	U	0.011	U
Hexachlorobutadiene	5.3	0.0054		mg/kg	0.0093	U	0.0094	U
Hexachlorocyclopentadiene	7.5	0.026	3.2	mg/kg	0.034	U	0.034	U
Hexachloroethane	8	0.004		mg/kg	0.0093	U	0.0094	U
Indeno(1,2,3-Cd)Pyrene	21	19.6		mg/kg	0.012	U	0.012	U
Isophorone	2400	0.52		mg/kg	0.009	U	0.0091	U
m,p-Cresol				mg/kg	0.043	U	0.043	U
Naphthalene	8.6	0.0076		mg/kg	0.0092	U	0.0092	U
Nitrobenzene	22	0.00184		mg/kg	0.0097	U	0.0097	U
n-Nitroso-di-n-Propylamine	0.33	0.000162		mg/kg	0.0082	U	0.0082	U
n-Nitrosodiphenylamine	470	1.34		mg/kg	0.02	U	0.02	U
Pentachlorophenol	4	0.00114	0.028	mg/kg	0.057	U	0.058	U
Phenanthrene				mg/kg	0.023	J	0.0312	J
Phenol	250000	66		mg/kg	0.035	U	0.035	U
Pyrene	23000	260		mg/kg	0.0205	J	0.025	J

Notes:
 Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), Industrial Soil Screening Level (SSL) (November 2021)
 Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20
 Exceeds the EPA RSL, Maximum Contaminant Level (MCL) SSL assuming a DAF of 20
 Blanks indicate RSL not established or constituent not analyzed
 RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0
 U = undetected
 J = estimated value
 J+ = estimated biased high
 J- = estimated biased low
 R = rejected
 MG/KG - milligram per kilogram
 SWMU = Solid Waste Management Unit
 RCRA = Resource Conservation and Recovery Act
 Sample depth shown in Sample ID (e.g., SBBF3-04_6-8 indicates 6 to 8-foot sample)
 DUP = Duplicate sample
 Exceedances shown may exceed one or more criteria if available

Table 15. MW6 Area Soil Analytical Results
RCRA Facility Investigation Report
Honeywell Delaware Valley Works
Claymont, Delaware
Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date				MW6-SB01	MW6-SB01	MW6-SB02	MW6-SB02	MW6-SB02	MW6-SB03	MW6-SB04	MW6-SB04	MW6-SB04	MW6-SB06
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	MW6-SB01-7-10_040419 4/4/2019	MW6-SB01-10-13_040419 4/4/2019	MW6-SB02-3-6_040419 4/4/2019	MW6-DUP-3_040419 4/4/2019	MW6-SB02-8-10_040419 4/4/2019	MW6-SB03-5-7_040419 4/4/2019	MW6-SB04-6-8_040219 4/2/2019	MW6-SB04-8-10_040219 4/2/2019	MW6-SB06-3-5_040219 4/2/2019	
	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
bis-(2-Ethylhexyl)Phthalate	160	26	28	mg/kg										
Butylbenzyl Phthalate	1200	4.8		mg/kg										
Caprolactam	400000	50		mg/kg										
Carbazole				mg/kg										
Chrysene	2100	180		mg/kg										
Dibenzo(a,h)Anthracene	2.1	1.92		mg/kg										
Dibenzofuran	1200	3		mg/kg										
Diethyl Phthalate	660000	122		mg/kg										
Dimethyl Phthalate				mg/kg										
Di-n-Butyl Phthalate	82000	46		mg/kg										
Di-n-Octyl Phthalate	8200	1140		mg/kg										
Fluoranthene	30000	1780		mg/kg										
Fluorene	30000	108		mg/kg										
Hexachlorobenzene	0.96	0.0024	0.26	mg/kg										
Hexachlorobutadiene	5.3	0.0054		mg/kg										
Hexachlorocyclopentadiene	7.5	0.026	3.2	mg/kg										
Hexachloroethane	8	0.004		mg/kg										
Indeno(1,2,3-Cd)Pyrene	21	19.6		mg/kg										
Isophorone	2400	0.52		mg/kg										
Naphthalene	8.6	0.0076		mg/kg										
Nitrobenzene	22	0.00184		mg/kg										
n-Nitroso-di-n-Propylamine	0.33	0.000162		mg/kg										
n-Nitrosodiphenylamine	470	1.34		mg/kg										
Pentachlorophenol	4	0.00114	0.028	mg/kg										
Phenanthrene				mg/kg										
Phenol	250000	66		mg/kg										
Pyrene	23000	260		mg/kg										

Notes:

Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), Industrial Soil Screening Level (SSL) (November 2021)

Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20

Exceeds the EPA RSL, Maximum Contaminant Level (MCL) SSL assuming a DAF of 20

Blanks indicate RSL not established or constituent not analyzed

RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0

U = undetected

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J+ = estimated biased high

J- = estimated biased low

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MG/KG - milligram per kilogram

SWMU = Solid Waste Management Unit

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Sample depth shown in Sample ID (e.g., SBBF3-04_6-8 indicates 6 to 8-foot sample)

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Exceedances shown may exceed one or more criteria if available

Table 15. MW6 Area Soil Analytical Results
RCRA Facility Investigation Report
Honeywell Delaware Valley Works
Claymont, Delaware
Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date				MW6-SB06 MW6-SB06-5-7_040219 4/2/2019	MW6-SB06 MW6-DUP-01_040219 4/2/2019	MW6-SB07 MW6-SB07-3-5_040319 4/3/2019	MW6-SB08 MW6-SB08-0-3_040219 4/2/2019	MW6-SB08 MW6-SB08-3-5_040219 4/2/2019	MW6-SB09 MW6-SB09-3-4_040219 4/2/2019	MW6-SB09 MW6-SB09-7-8_040219 4/2/2019	MW6-SB10 MW6-SB10-0-5_040319 4/3/2019	MW6-SB10 MW6-SB10-5-7_040319 4/3/2019
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result
bis-(2-Ethylhexyl)Phthalate	160	26	28	mg/kg									
Butylbenzyl Phthalate	1200	4.8		mg/kg									
Caprolactam	400000	50		mg/kg									
Carbazole				mg/kg									
Chrysene	2100	180		mg/kg									
Dibenzo(a,h)Anthracene	2.1	1.92		mg/kg									
Dibenzofuran	1200	3		mg/kg									
Diethyl Phthalate	660000	122		mg/kg									
Dimethyl Phthalate				mg/kg									
Di-n-Butyl Phthalate	82000	46		mg/kg									
Di-n-Octyl Phthalate	8200	1140		mg/kg									
Fluoranthene	30000	1780		mg/kg									
Fluorene	30000	108		mg/kg									
Hexachlorobenzene	0.96	0.0024	0.26	mg/kg									
Hexachlorobutadiene	5.3	0.0054		mg/kg									
Hexachlorocyclopentadiene	7.5	0.026	3.2	mg/kg									
Hexachloroethane	8	0.004		mg/kg									
Indeno(1,2,3-Cd)Pyrene	21	19.6		mg/kg									
Isophorone	2400	0.52		mg/kg									
Naphthalene	8.6	0.0076		mg/kg									
Nitrobenzene	22	0.00184		mg/kg									
n-Nitroso-di-n-Propylamine	0.33	0.000162		mg/kg									
n-Nitrosodiphenylamine	470	1.34		mg/kg									
Pentachlorophenol	4	0.00114	0.028	mg/kg									
Phenanthrene				mg/kg									
Phenol	250000	66		mg/kg									
Pyrene	23000	260		mg/kg									

Notes:
Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), Industrial Soil Screening Level (SSL) (November 2021)
Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20
Exceeds the EPA RSL, Maximum Contaminant Level (MCL) SSL assuming a DAF of 20
Blanks indicate RSL not established or constituent not analyzed
RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0
U = undetected
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J+ = estimated biased high
J- = estimated biased low
R = rejected
MG/KG - milligram per kilogram
SWMU = Solid Waste Management Unit
RCRA = Resource Conservation and Recovery Act
Sample depth shown in Sample ID (e.g., SBBF3-04_6-8 indicates 6 to 8-foot sample)
DUP = Duplicate sample
Exceedances shown may exceed one or more criteria if available

Table 15. MW6 Area Soil Analytical Results
RCRA Facility Investigation Report
Honeywell Delaware Valley Works
Claymont, Delaware
Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date				MW6-SB10 MW6-DUP-2_040319 4/3/2019		MW6-SB11 MW6-SB11-5-7_040219 4/2/2019		MW6-SB11 MW6-SB11-7-9_040219 4/2/2019		MW6-SB13 MW6-SB13-5-7.5_040319 4/3/2019		MW6-SB13 MW6-SB13-7.5-10_040319 4/3/2019		MW6-SB14 MW6-SB14-5-7.5_040319 4/3/2019		MW6-SB14 MW6-SB14-7.5-10_040319 4/3/2019		SB-4A SB-4A_7-8_062420 6/24/2020		SB-4A SB-4A_8-9_062420 6/24/2020	
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
bis-(2-Ethylhexyl)Phthalate	160	26	28	mg/kg																		
Butylbenzyl Phthalate	1200	4.8		mg/kg																		
Caprolactam	400000	50		mg/kg																		
Carbazole				mg/kg																		
Chrysene	2100	180		mg/kg																		
Dibenzo(a,h)Anthracene	2.1	1.92		mg/kg																		
Dibenzofuran	1200	3		mg/kg																		
Diethyl Phthalate	660000	122		mg/kg																		
Dimethyl Phthalate				mg/kg																		
Di-n-Butyl Phthalate	82000	46		mg/kg																		
Di-n-Octyl Phthalate	8200	1140		mg/kg																		
Fluoranthene	30000	1780		mg/kg																		
Fluorene	30000	108		mg/kg																		
Hexachlorobenzene	0.96	0.0024	0.26	mg/kg																		
Hexachlorobutadiene	5.3	0.0054		mg/kg																		
Hexachlorocyclopentadiene	7.5	0.026	3.2	mg/kg																		
Hexachloroethane	8	0.004		mg/kg																		
Indeno(1,2,3-Cd)Pyrene	21	19.6		mg/kg																		
Isophorone	2400	0.52		mg/kg																		
Naphthalene	8.6	0.0076		mg/kg																		
Nitrobenzene	22	0.00184		mg/kg																		
n-Nitroso-di-n-Propylamine	0.33	0.000162		mg/kg																		
n-Nitrosodiphenylamine	470	1.34		mg/kg																		
Pentachlorophenol	4	0.00114	0.028	mg/kg																		
Phenanthrene				mg/kg																		
Phenol	250000	66		mg/kg																		
Pyrene	23000	260		mg/kg																		

Notes:
Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), Industrial Soil Screening Level (SSL) (November 2021)
Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20
Exceeds the EPA RSL, Maximum Contaminant Level (MCL) SSL assuming a DAF of 20
Blanks indicate RSL not established or constituent not analyzed
RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0
U = undetected
J = estimated value
J+ = estimated biased high
J- = estimated biased low
R = rejected
MG/KG - milligram per kilogram
SWMU = Solid Waste Management Unit
RCRA = Resource Conservation and Recovery Act
Sample depth shown in Sample ID (e.g., SBBF3-04_6-8 indicates 6 to 8-foot sample)
DUP = Duplicate sample
Exceedances shown may exceed one or more criteria if available

Table 15. MW6 Area Soil Analytical Results
RCRA Facility Investigation Report
Honeywell Delaware Valley Works
Claymont, Delaware
Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date				SB-4B SB-4B_10-11_062420 6/24/2020		SB-4B SB-4B_7-8_062420 6/24/2020		SB-4D SB-4D_7-8_062420 6/24/2020		SB-4D SB-4D_9-10_062420 6/24/2020		SB-4D SB-4DUPA_062420 6/24/2020		SB-4F SB-4F_10-11_062420 6/24/2020		SB-4F SB-4F_12-13_062420 6/24/2020		SB-4G SB-4G_10-11_062420 6/24/2020		SB-4G SB-4G_8-9_062420 6/24/2020	
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
bis-(2-Ethylhexyl)Phthalate	160	26	28	mg/kg																		
Butylbenzyl Phthalate	1200	4.8		mg/kg																		
Caprolactam	400000	50		mg/kg																		
Carbazole				mg/kg																		
Chrysene	2100	180		mg/kg																		
Dibenzo(a,h)Anthracene	2.1	1.92		mg/kg																		
Dibenzofuran	1200	3		mg/kg																		
Diethyl Phthalate	660000	122		mg/kg																		
Dimethyl Phthalate				mg/kg																		
Di-n-Butyl Phthalate	82000	46		mg/kg																		
Di-n-Octyl Phthalate	8200	1140		mg/kg																		
Fluoranthene	30000	1780		mg/kg																		
Fluorene	30000	108		mg/kg																		
Hexachlorobenzene	0.96	0.0024	0.26	mg/kg																		
Hexachlorobutadiene	5.3	0.0054		mg/kg																		
Hexachlorocyclopentadiene	7.5	0.026	3.2	mg/kg																		
Hexachloroethane	8	0.004		mg/kg																		
Indeno(1,2,3-Cd)Pyrene	21	19.6		mg/kg																		
Isophorone	2400	0.52		mg/kg																		
Naphthalene	8.6	0.0076		mg/kg																		
Nitrobenzene	22	0.00184		mg/kg																		
n-Nitroso-di-n-Propylamine	0.33	0.000162		mg/kg																		
n-Nitrosodiphenylamine	470	1.34		mg/kg																		
Pentachlorophenol	4	0.00114	0.028	mg/kg																		
Phenanthrene				mg/kg																		
Phenol	250000	66		mg/kg																		
Pyrene	23000	260		mg/kg																		

Notes:
Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), Industrial Soil Screening Level (SSL) (November 2021)
Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20
Exceeds the EPA RSL, Maximum Contaminant Level (MCL) SSL assuming a DAF of 20
Blanks indicate RSL not established or constituent not analyzed
RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0
U = undetected
J = estimated value
J+ = estimated biased high
J- = estimated biased low
R = rejected
MG/KG - milligram per kilogram
SWMU = Solid Waste Management Unit
RCRA = Resource Conservation and Recovery Act
Sample depth shown in Sample ID (e.g., SBBF3-04_6-8 indicates 6 to 8-foot sample)
DUP = Duplicate sample
Exceedances shown may exceed one or more criteria if available

Table 15. MW6 Area Soil Analytical Results
RCRA Facility Investigation Report
Honeywell Delaware Valley Works
Claymont, Delaware
Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date				SB-4H SB-4H_6-7_062420 6/24/2020		SB-4H SB-4H_9-10_062420 6/24/2020		SBBF3-48 SBBF3-48_0-2 3/16/2021		SBBF3-48 SBBF3-48_5-7 3/16/2021		SBBF3-49 SBBF3-49_0-2 3/16/2021		SBBF3-49 SBBF3-49_6-8 3/16/2021		SBBF3-49 SBBF3-49_6-8-DUP 3/16/2021		SBBF3-50 SBBF3-50_0-2 3/15/2021		SBBF3-50 SBBF3-50_5-7 3/15/2021	
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
bis-(2-Ethylhexyl)Phthalate	160	26	28	mg/kg				0.18	U	0.21	U	0.31		0.2	U	0.2	U	0.17	J	0.19	U	
Butylbenzyl Phthalate	1200	4.8		mg/kg				0.18	U	0.21	U	0.18	U	0.2	U	0.2	U	0.23	U	0.19	U	
Caprolactam	400000	50		mg/kg				0.2		0.21	U	0.18	U	0.2	U	0.2	U	0.23	U	0.19	U	
Carbazole				mg/kg				0.023	J	0.045	U	0.069		0.044	U	0.044	U	0.17		0.042	U	
Chrysene	2100	180		mg/kg				0.16		0.039		0.41		0.021		0.021		0.99		0.037		
Dibenzo(a,h)Anthracene	2.1	1.92		mg/kg				0.027		0.021	U	0.1		0.02	U	0.02	U	0.2		0.0078	J	
Dibenzofuran	1200	3		mg/kg				0.03	J	0.045	U	0.064		0.044	U	0.044	U	0.13		0.042	U	
Diethyl Phthalate	660000	122		mg/kg				0.18	U	0.21	U	0.18	U	0.2	U	0.2	U	0.23	U	0.19	U	
Dimethyl Phthalate				mg/kg				0.18	U	0.21	U	0.18	U	0.2	U	0.2	U	0.23	U	0.19	U	
Di-n-Butyl Phthalate	82000	46		mg/kg				0.18	U	0.21	U	0.18	U	0.2	U	0.2	U	0.23	U	0.19	U	
Di-n-Octyl Phthalate	8200	1140		mg/kg				0.18	U	0.21	U	0.18	U	0.2	U	0.2	U	0.23	U	0.19	U	
Fluoranthene	30000	1780		mg/kg				0.16		0.05		0.54		0.03		0.032		2		0.084		
Fluorene	30000	108		mg/kg				0.0086	J	0.016	J	0.023		0.0067	J	0.0062	J	0.22		0.0062	J	
Hexachlorobenzene	0.96	0.0024	0.26	mg/kg				0.11		0.021	U	0.49		0.02	U	0.02	U	0.023	U	0.019	U	
Hexachlorobutadiene	5.3	0.0054		mg/kg				0.055	U	0.062	U	0.055	U	0.061	U	0.06	U	0.07	U	0.057	U	
Hexachlorocyclopentadiene	7.5	0.026	3.2	mg/kg				0.55	U	0.62	U	0.55	U	0.61	U	0.6	U	0.7	U	0.57	U	
Hexachloroethane	8	0.004		mg/kg				0.18	U	0.21	U	0.18	U	0.2	U	0.2	U	0.23	U	0.19	U	
Indeno(1,2,3-Cd)Pyrene	21	19.6		mg/kg				0.068		0.0096	J	0.32		0.009	J	0.0096	J	0.5		0.024		
Isophorone	2400	0.52		mg/kg				0.073	U	0.082	U	0.073	U	0.081	U	0.079	U	0.093	U	0.075	U	
Naphthalene	8.6	0.0076		mg/kg				0.092		0.016	J	0.59		0.02	U	0.02	U	0.33		0.013	J	
Nitrobenzene	22	0.00184		mg/kg				0.04	U	0.045	U	0.04	U	0.044	U	0.044	U	0.051	U	0.042	U	
n-Nitroso-di-n-Propylamine	0.33	0.000162		mg/kg				0.055	U	0.062	U	0.055	U	0.061	U	0.06	U	0.07	U	0.057	U	
n-Nitrosodiphenylamine	470	1.34		mg/kg				0.04	U	0.045	U	0.04	U	0.044	U	0.044	U	0.051	U	0.042	U	
Pentachlorophenol	4	0.00114	0.028	mg/kg				0.18	U	0.21	U	0.18	U	0.2	U	0.2	U	0.23	U	0.19	U	
Phenanthrene				mg/kg				0.13		0.073		0.36		0.04		0.038		1.3		0.052		
Phenol	250000	66		mg/kg				1.3		0.081		0.33		0.023	J	0.025	J	0.81		0.042	U	
Pyrene	23000	260		mg/kg				0.092		0.04		0.46		0.016	J	0.017	J	1.4		0.062		

Notes:

Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), Industrial Soil Screening Level (SSL) (November 2021)

Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20

Exceeds the EPA RSL, Maximum Contaminant Level (MCL) SSL assuming a DAF of 20

Blanks indicate RSL not established or constituent not analyzed

RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0

U = undetected

J = estimated value

J+ = estimated biased high

J- = estimated biased low

R = rejected

MG/KG - milligram per kilogram

SWMU = Solid Waste Management Unit

RCRA = Resource Conservation and Recovery Act

Sample depth shown in Sample ID (e.g., SBBF3-04_6-8 indicates 6 to 8-foot sample)

DUP = Duplicate sample

Exceedances shown may exceed one or more criteria if available

Table 15. MW6 Area Soil Analytical Results
RCRA Facility Investigation Report
Honeywell Delaware Valley Works
Claymont, Delaware
Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date				SBBF3-50 SBBF3-50_11.5-13.5 3/15/2021		SBBF3-51 SBBF3-51_0-2 3/15/2021		SBBF3-51 SBBF3-51_7-9 3/15/2021		SBBF3-51 SBBF3-51_7-9-DUP 3/15/2021		SBBF3-51 SBBF3-51_9-11 3/15/2021	
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
bis-(2-Ethylhexyl)Phthalate	160	26	28	mg/kg	0.19	U	0.2	U	0.2	U	0.2	U	0.2	U
Butylbenzyl Phthalate	1200	4.8		mg/kg	0.19	U	0.2	U	0.2	U	0.2	U	0.2	U
Caprolactam	400000	50		mg/kg	0.19	U	0.2	U	0.2	U	0.2	U	0.2	U
Carbazole				mg/kg	0.043	U	0.055		0.044	U	0.044	U	0.043	U
Chrysene	2100	180		mg/kg	0.047		0.31		0.02	U	0.02	U	0.02	U
Dibenzo(a,h)Anthracene	2.1	1.92		mg/kg	0.0093	J	0.065		0.02	U	0.02	U	0.02	U
Dibenzofuran	1200	3		mg/kg	0.043	U	0.043	U	0.044	U	0.044	U	0.043	U
Diethyl Phthalate	660000	122		mg/kg	0.19	U	0.2	U	0.2	U	0.2	U	0.2	U
Dimethyl Phthalate				mg/kg	0.19	U	0.2	U	0.2	U	0.2	U	0.2	U
Di-n-Butyl Phthalate	82000	46		mg/kg	0.19	U	0.2	U	0.2	U	0.2	U	0.2	U
Di-n-Octyl Phthalate	8200	1140		mg/kg	0.19	U	0.2	U	0.2	U	0.2	U	0.2	U
Fluoranthene	30000	1780		mg/kg	0.11		0.42		0.0062	J	0.02	U	0.0039	J
Fluorene	30000	108		mg/kg	0.011	J	0.045		0.02	U	0.02	U	0.02	U
Hexachlorobenzene	0.96	0.0024	0.26	mg/kg	0.019	U	0.02	U	0.02	U	0.02	U	0.02	U
Hexachlorobutadiene	5.3	0.0054		mg/kg	0.058	U	0.059	U	0.059	U	0.059	U	0.059	U
Hexachlorocyclopentadiene	7.5	0.026	3.2	mg/kg	0.58	U	0.59	U	0.59	U	0.59	U	0.59	U
Hexachloroethane	8	0.004		mg/kg	0.19	U	0.2	U	0.2	U	0.2	U	0.2	U
Indeno(1,2,3-Cd)Pyrene	21	19.6		mg/kg	0.025		0.18		0.02	U	0.02	U	0.02	U
Isophorone	2400	0.52		mg/kg	0.078	U	0.079	U	0.079	U	0.079	U	0.078	U
Naphthalene	8.6	0.0076		mg/kg	0.019	U	0.11		0.02	U	0.02	U	0.02	U
Nitrobenzene	22	0.00184		mg/kg	0.043	U	0.043	U	0.044	U	0.044	U	0.043	U
n-Nitroso-di-n-Propylamine	0.33	0.000162		mg/kg	0.058	U	0.059	U	0.059	U	0.059	U	0.059	U
n-Nitrosodiphenylamine	470	1.34		mg/kg	0.043	U	0.043	U	0.044	U	0.044	U	0.043	U
Pentachlorophenol	4	0.00114	0.028	mg/kg	0.19	U	0.2	U	0.2	U	0.2	U	0.2	U
Phenanthrene				mg/kg	0.066		0.29		0.01	J	0.02	U	0.0054	J
Phenol	250000	66		mg/kg	0.47		0.12		0.044	U	0.044	U	0.043	U
Pyrene	23000	260		mg/kg	0.084		0.34		0.0071	J	0.02	U	0.0041	J

Notes:

Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), Industrial Soil Screening Level (SSL) (November 2021)

Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20

Exceeds the EPA RSL, Maximum Contaminant Level (MCL) SSL assuming a DAF of 20

Blanks indicate RSL not established or constituent not analyzed

RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0

U = undetected

J = estimated value

J+ = estimated biased high

J- = estimated biased low

R = rejected

MG/KG - milligram per kilogram

SWMU = Solid Waste Management Unit

RCRA = Resource Conservation and Recovery Act

Sample depth shown in Sample ID (e.g., SBBF3-04_6-8 indicates 6 to 8-foot sample)

DUP = Duplicate sample

Exceedances shown may exceed one or more criteria if available

Table 16. Administration Building Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	SBAD-01 SBAD-01_0.5-2 3/23/2021		SBAD-01 SBAD-01_10-12 3/23/2021		SBAD-02 SBAD-02_0.5-2 3/23/2021		SBAD-02 SBAD-02_13-15 3/23/2021		SBAD-02 SBAD-02_13-15-DUP 3/23/2021		SBAD-03 SBAD-03_0.5-2 3/23/2021		SBAD-03 SBAD-03_13-15 3/23/2021		SBAD-04 SBAD-04_0.5-2 3/23/2021		SBAD-04 SBAD-04_13-15 3/23/2021		SBAD-05 SBAD-05_0-2 3/10/2021		SBAD-05 SBAD-05_7-9 3/10/2021		SBAD-06 SBAD-06_0-2 3/22/2021		SBAD-06 SBAD-06_13-15 3/22/2021		SBAD-07 SBAD-07_0-2 7/19/2021		SBAD-07 SBAD-07_8-10 7/19/2021	
					Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Fluorene	30000	108		mg/kg	0.02	U	0.02	U	0.0038	J	0.02	U	0.02	U	0.018	U	0.02	U	0.018	U	0.02	U	0.024		0.021	U	0.013	J	0.02	U	0.051		0.02	U
Hexachlorobenzene	0.96	0.0024	0.26	mg/kg	0.02	U	0.02	U	0.019	U	0.02	U	0.02	U	0.018	U	0.02	U	0.018	U	0.02	U	0.019	U	0.021	U	0.02	U	0.019	U	0.02	U	0.02	U
Hexachlorobutadiene	5.3	0.0054		mg/kg	0.059	U	0.059	U	0.056	U	0.059	U	0.059	U	0.054	U	0.061	U	0.055	U	0.059	U	0.056	U	0.062	U	0.059	U	0.059	U	0.058	U	0.06	U
Hexachlorocyclopentadiene	7.5	0.026	3.2	mg/kg	0.59	U	0.59	U	0.56	U	0.59	R	0.59	U	0.54	U	0.61	U	0.55	U	0.59	U	0.56	U	0.62	U	0.59	U	0.59	U	0.58	U	0.6	U
Hexachloroethane	8	0.004		mg/kg	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U	0.18	U	0.2	U	0.18	U	0.2	U	0.19	U	0.21	U	0.2	U	0.2	U	0.19	U	0.2	U
Indeno(1,2,3-Cd)Pyrene	21	19.6		mg/kg	0.01	J	0.02	U	0.0074	J	0.02	U	0.02	U	0.018	U	0.02	U	0.018	U	0.02	U	0.093		0.021	U	0.45		0.02	U	0.26		0.02	U
Isophorone	2400	0.52		mg/kg	0.079	U	0.079	U	0.074	U	0.078	U	0.078	U	0.071	U	0.082	U	0.073	U	0.079	U	0.075	U	0.083	U	0.079	U	0.079	U	0.077	U	0.08	U
Naphthalene	8.6	0.0076		mg/kg	0.0099	J	0.02	U	0.019	U	0.041		0.02	U	0.018	U	0.02	U	0.018	U	0.02	U	0.03		0.021	U	0.021		0.02	U	0.084		0.02	U
Nitrobenzene	22	0.00184		mg/kg	0.043	U	0.043	U	0.041	U	0.043	U	0.043	U	0.039	U	0.045	U	0.04	U	0.043	U	0.041	U	0.045	U	0.02	J	0.043	U	0.031	J	0.044	U
n-Nitroso-di-n-Propylamine	0.33	0.00162		mg/kg	0.059	U	0.059	U	0.056	U	0.059	U	0.059	U	0.054	U	0.061	U	0.055	U	0.059	U	0.056	U	0.062	U	0.059	U	0.059	U	0.077	U	0.08	U
n-Nitrosodiphenylamine	470	1.34		mg/kg	0.043	U	0.043	U	0.051		0.043	U	0.043	U	0.039	U	0.045	U	0.04	U	0.043	U	0.041	U	0.045	U	0.043	U	0.043	U	0.042	U	0.044	U
Pentachlorophenol	4	0.00114	0.028	mg/kg	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U	0.18	U	0.2	U	0.18	U	0.2	U	0.19	U	0.21	U	0.2	U	0.2	U	0.19	U	0.2	U
Phenanthrene				mg/kg	0.025		0.02	U	0.011	J	0.02	U	0.02	U	0.018	U	0.02	U	0.018	U	0.02	U	0.15		0.021	U	0.14		0.021	U	0.75		0.02	U
Phenol	250000	66		mg/kg	0.043	U	0.043	U	0.041	U	0.043	U	0.043	U	0.039	U	0.029	J	0.04	U	0.043	U	0.041	U	0.045	U	0.043	U	0.043	U	0.042	U	0.044	U
Pyrene	23000	260		mg/kg	0.022		0.02	U	0.017	J	0.02	U	0.02	U	0.018	U	0.02	U	0.018	U	0.02	U	0.2		0.021	U	0.22		0.007	J	0.77		0.0044	J

Notes:
 Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), Industrial Soil Screening Level (SSL) (November 2021)
 Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20
 Exceeds the EPA RSL, Maximum Contaminant Level (MCL) SSL assuming a DAF of 20
 Blanks indicate RSL not established or constituent not analyzed
 RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0
 U = undetected
 J = estimated value
 J+ = estimated biased high
 J- = estimated biased low
 R = rejected
 MG/KG - milligram per kilogram
 SWMU = Solid Waste Management Unit
 RCRA = Resource Conservation and Recovery Act
 Sample depth shown in Sample ID (e.g., SBBF3-04_6-8 indicates 6 to 8-foot sample)
 DUP = Duplicate sample
 Exceedances shown may exceed one or more criteria if available

Table 16. Administration Building Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	SBAD-07 SBAD-07_8-10-DUP 7/19/2021		SBAD-08 SBAD-08_0-2 3/9/2021		SBAD-08 SBAD-08_4.5-6.5 3/9/2021		SBAD-08 SBAD-08_7-9 3/9/2021		SBAD-09 SBAD-09_0-2 3/9/2021		SBAD-09 SBAD-09_8-10 3/9/2021		SBAD-10 SBAD-10_0-2 7/19/2021		SBAD-10 SBAD-10_6.5-8.5 7/19/2021		SBAD-11 SBAD-11_0-2 3/5/2021		SBAD-11 SBAD-11_8-10 3/5/2021		SBAD-12 SBAD-12_0-2 3/5/2021		SBAD-12 SBAD-12_0-2-DUP 3/5/2021		SBAD-12 SBAD-12_10-12 3/5/2021		SBAD-13 SBAD-13_0-2 3/23/2021		SBAD-13 SBAD-13_18-20 3/23/2021			
					Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Fluorene	30000	108		mg/kg	0.02	U	0.026		0.022		0.014	J	0.025	U	0.02	U	0.0068	J	0.02	U	0.027		0.02	U	0.02	U	0.02	U	0.018	U	0.02	U	0.023	U		
Hexachlorobenzene	0.96	0.0024	0.26	mg/kg	0.02	U	0.021	U	0.021	U	0.022	U	0.025	U	0.02	U	0.02	U	0.02	U	0.0096	J	0.02	U	0.02	U	0.02	U	0.018	U	0.02	U	0.023	U		
Hexachlorobutadiene	5.3	0.0054		mg/kg	0.06	U	0.064	U	0.063	U	0.066	U	0.075	U	0.061	U	0.061	U	0.06	U	0.063	U	0.061	U	0.06	U	0.06	U	0.055	U	0.061	U	0.068	U		
Hexachlorocyclopentadiene	7.5	0.026	3.2	mg/kg	0.6	U	0.64	U	0.63	U	0.66	U	0.75	U	0.61	U	0.61	U	0.6	U	0.63	U	0.61	U	0.6	U	0.6	U	0.55	U	0.61	U	0.68	U		
Hexachloroethane	8	0.004		mg/kg	0.2	U	0.21	U	0.21	U	0.22	U	0.25	U	0.2	U	0.2	U	0.2	U	0.21	U	0.2	U	0.2	U	0.2	U	0.18	U	0.2	U	0.23	U		
Indeno(1,2,3-Cd)Pyrene	21	19.6		mg/kg	0.02	U	0.074		0.14		0.022	U	0.025	U	0.02	U	0.024		0.02	U	0.44		0.02	U	0.016	J	0.011	J	0.018	U	0.046		0.023	U		
Isophorone	2400	0.52		mg/kg	0.08	U	0.086	U	0.084	U	0.089	U	0.1	U	0.081	U	0.081	U	0.08	U	0.085	U	0.082	U	0.08	U	0.08	U	0.073	U	0.082	U	0.091	U		
Naphthalene	8.6	0.0076		mg/kg	0.02	U	0.011	J	0.041		0.036		0.025	U	0.02	U	0.0092	J	0.02	U	0.032		0.02	U	0.02	U	0.02	U	0.018	U	0.014	J	0.023	U		
Nitrobenzene	22	0.00184		mg/kg	0.044	U	0.22		0.092		0.049	U	0.055	U	0.045	U	0.045	U	0.044	U	0.2		0.045	U	0.044	U	0.044	U	0.044	U	0.04	U	0.045	U	0.05	U
n-Nitroso-di-n-Propylamine	0.33	0.000162		mg/kg	0.08	U	0.064	U	0.063	U	0.066	U	0.075	U	0.061	U	0.081	U	0.08	U	0.063	U	0.061	U	0.06	U	0.06	U	0.055	U	0.061	U	0.068	U		
n-Nitrosodiphenylamine	470	1.34		mg/kg	0.044	U	0.047	U	0.046	U	0.029	J	0.055	U	0.045	U	0.024	J	0.044	U	0.04	J	0.045	U	0.044	U	0.044	U	0.04	U	0.045	U	0.05	U		
Pentachlorophenol	4	0.00114	0.028	mg/kg	0.2	U	0.21	U	0.21	U	0.22	U	0.25	U	0.2	U	0.2	U	0.2	U	0.21	U	0.2	U	0.2	U	0.2	U	0.18	U	0.2	U	0.23	U		
Phenanthrene				mg/kg	0.02	U	0.28		0.77		0.036		0.025	U	0.018	J	0.048		0.02	U	0.5		0.02	U	0.014	J	0.013	J	0.018	U	0.041		0.0059	J		
Phenol	250000	66		mg/kg	0.044	U	0.047	U	0.046	U	0.049	U	0.055	U	0.045	U	0.045	U	0.044	U	0.047	U	0.045	U	0.044	U	0.044	U	0.044	U	0.04	U	0.045	U	0.05	U
Pyrene	23000	260		mg/kg	0.02	U	0.26		0.56		0.028		0.025	U	0.029		0.054		0.02	U	0.97		0.02	U	0.035		0.03		0.018	U	0.062		0.023	U		

Notes:
 Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), Industrial Soil Screening Level (SSL) (November 2021)
 Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20
 Exceeds the EPA RSL, Maximum Contaminant Level (MCL) SSL assuming a DAF of 20
 Blanks indicate RSL not established or constituent not analyzed
 RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0
 U = undetected
 J = estimated value
 J+ = estimated biased high
 J- = estimated biased low
 R = rejected
 MG/KG - milligram per kilogram
 SWMU = Solid Waste Management Unit
 RCRA = Resource Conservation and Recovery Act
 Sample depth shown in Sample ID (e.g., SBBF3-04_6-8 indicates 6 to 8-foot sample)
 DUP = Duplicate sample
 Exceedances shown may exceed one or more criteria if available

Table 16. Administration Building Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	SBAD-13 SBAD-13_18-20-DUP 3/23/2021		SBAD-14 SBAD-14_0-2 3/24/2021		SBAD-14 SBAD-14_13-15 3/24/2021		SBAD-15 SBAD-15_8.5-10.5 7/20/2021		SBAD-16 SBAD-16_0.5-2 3/22/2021		SBAD-16 SBAD-16_7-9 3/22/2021		SBAD-17 SBAD-17_0-2 3/5/2021		SBAD-17 SBAD-17_5-7 3/5/2021		SBAD-17 SBAD-17_18-20 3/5/2021		SBAD-17A SBAD-17A_0-2 3/30/2021		SBAD-17A SBAD-17A_0-2-DUP 3/30/2021		SBAD-17A SBAD-17A_8-10 3/30/2021		SBAD-17B SBAD-17B_0-2 3/30/2021		SBAD-17C SBAD-17C_0-2 3/30/2021		SBAD-17D SBAD-17D_0-2 3/30/2021	
					Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Fluorene	30000	108		mg/kg	0.023	U	0.061		0.26		0.021	U	0.02	U	0.02	U	0.021	U	0.023	U	0.099	U	0.1	U	0.02	U	0.02	U	0.022	U	0.02	U		
Hexachlorobenzene	0.96	0.0024	0.26	mg/kg	0.023	U	0.021	U	0.049		0.021	U	0.02	U	0.02	U	0.021	U	0.023	U	0.099	U	0.1	U	0.02	U	0.02	U	0.022	U	0.02	U		
Hexachlorobutadiene	5.3	0.0054		mg/kg	0.068	U	0.063	U	0.062	U	0.062	U	0.059	U	0.059	U	0.061	U	0.063	U	0.068	U	0.3	U	0.3	U	0.059	U	0.061	U	0.065	U	0.059	U
Hexachlorocyclopentadiene	7.5	0.026	3.2	mg/kg	0.68	U	0.63	U	0.62	U	0.62	U	0.59	R	0.59	U	0.61	U	0.63	U	0.68	U	3	U	3	U	0.59	U	0.61	U	0.65	U	0.59	U
Hexachloroethane	8	0.004		mg/kg	0.23	U	0.21	U	0.21	U	0.21	U	0.2	U	0.2	U	0.21	U	0.23	U	0.99	U	1	U	1	U	0.2	U	0.2	U	0.22	U	0.2	U
Indeno(1,2,3-Cd)Pyrene	21	19.6		mg/kg	0.023	U	0.29		0.25		0.021	U	0.02	U	0.02	U	0.0055	J	0.021	U	0.023	U	0.074	J	0.048	J	0.02	U	0.012	J	0.015	J	0.02	U
Isophorone	2400	0.52		mg/kg	0.091	U	0.084	U	0.083	U	0.083	U	0.079	U	0.081	U	0.084	U	0.09	U	0.09	U	0.4	U	0.4	U	0.079	U	0.081	U	0.087	U	0.079	U
Naphthalene	8.6	0.0076		mg/kg	0.023	U	0.077		0.7		0.021	U	0.02	U	0.02	U	0.021	U	0.023	U	0.099	U	0.1	U	0.02	U	0.02	U	0.022	U	0.02	U		
Nitrobenzene	22	0.00184		mg/kg	0.05	U	0.058		0.045	U	0.045	U	0.043	U	0.043	U	0.044	U	0.046	U	0.05	U	0.22	U	0.22	U	0.044	U	0.045	U	0.048	U	0.044	U
n-Nitroso-di-n-Propylamine	0.33	0.00162		mg/kg	0.068	U	0.063	U	0.062	U	0.083	U	0.059	U	0.059	U	0.061	U	0.063	U	0.068	U	0.3	U	0.3	U	0.059	U	0.061	U	0.065	U	0.059	U
n-Nitrosodiphenylamine	470	1.34		mg/kg	0.05	U	0.12		0.71		0.045	U	0.043	U	0.043	U	0.044	U	0.046	U	0.05	U	0.22	U	0.22	U	0.044	U	0.045	U	0.048	U	0.044	U
Pentachlorophenol	4	0.00114	0.028	mg/kg	0.23	U	0.21	U	0.21	U	0.21	U	0.2	U	0.2	U	0.21	U	0.23	U	0.99	U	1	U	1	U	0.2	U	0.2	U	0.22	U	0.2	U
Phenanthrene				mg/kg	0.023	U	0.64		0.68		0.021	U	0.02	U	0.02	U	0.0086	J	0.021	U	0.023	U	0.099	U	0.1	U	0.02	U	0.005	J	0.0075	J	0.02	U
Phenol	250000	66		mg/kg	0.05	U	0.046	U	0.045	U	0.045	U	0.043	U	0.043	U	0.044	U	0.046	U	0.05	U	0.22	U	0.22	U	0.044	U	0.045	U	0.048	U	0.044	U
Pyrene	23000	260		mg/kg	0.023	U	0.83		0.88		0.021	U	0.02	U	0.02	U	0.0099	J	0.021	U	0.023	U	0.027	J	0.1	U	0.02	U	0.0065	J	0.021	J	0.02	U

Notes:
 Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), Industrial Soil Screening Level (SSL) (November 2021)
 Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20
 Exceeds the EPA RSL, Maximum Contaminant Level (MCL) SSL assuming a DAF of 20
 Blanks indicate RSL not established or constituent not analyzed
 RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0
 U = undetected
 J = estimated value
 J+ = estimated biased high
 J- = estimated biased low
 R = rejected
 MG/KG - milligram per kilogram
 SWMU = Solid Waste Management Unit
 RCRA = Resource Conservation and Recovery Act
 Sample depth shown in Sample ID (e.g., SBBF3-04_6-8 indicates 6 to 8-foot sample)
 DUP = Duplicate sample
 Exceedances shown may exceed one or more criteria if available

Table 16. Administration Building Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	SBAD-17D SBAD-17D_6-8 3/30/2021		SBAD-17D_8-10 3/30/2021		SBAD-18 SBAD-18_0-2 3/4/2021		SBAD-18 SBAD-18_8-10 3/4/2021		SBAD-19 SBAD-19_0-2 3/5/2021		SBAD-19 SBAD-19_8-10 3/5/2021		SBAD-20 SBAD-20_1.5-2.5 3/23/2021		SBAD-20 SBAD-20_8-10 3/23/2021		SBAD-21 SBAD-21_0.5-2 3/23/2021		SBAD-21 SBAD-21_13-15 3/23/2021	
					Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Fluorene	30000	108		mg/kg	0.02	U	0.0068	J	0.0046	J	0.019	U	0.02	U	0.02	U	0.01	J	0.019	U	0.018	U	0.021	U
Hexachlorobenzene	0.96	0.0024	0.26	mg/kg	0.02	U	0.02	U	0.019	U	0.019	U	0.02	U	0.02	U	0.023		0.019	U	0.018	U	0.021	U
Hexachlorobutadiene	5.3	0.0054		mg/kg	0.06	U	0.061	U	0.057	U	0.058	U	0.06	U	0.061	U	0.063	U	0.058	U	0.054	U	0.063	U
Hexachlorocyclopentadiene	7.5	0.026	3.2	mg/kg	0.6	U	0.61	U	0.57	U	0.58	U	0.6	U	0.61	U	0.63	U	0.58	U	0.54	U	0.63	U
Hexachloroethane	8	0.004		mg/kg	0.2	U	0.2	U	0.19	U	0.19	U	0.2	U	0.2	U	0.21	U	0.19	U	0.18	U	0.21	U
Indeno(1,2,3-Cd)Pyrene	21	19.6		mg/kg	0.02	U	0.02	U	0.023	U	0.019	U	0.02	U	0.02	U	0.054	U	0.019	U	0.018	U	0.021	U
Isophorone	2400	0.52		mg/kg	0.08	U	0.081	U	0.076	U	0.078	U	0.08	U	0.081	U	0.084	U	0.077	U	0.072	U	0.084	U
Naphthalene	8.6	0.0076		mg/kg	0.02	U	0.02	U	0.019	U	0.019	U	0.02	U	0.02	U	0.021		0.019	U	0.018	U	0.021	U
Nitrobenzene	22	0.00184		mg/kg	0.044	U	0.045	U	0.042	U	0.043	U	0.044	U	0.044	U	0.22		0.042	U	0.04	U	0.046	U
n-Nitroso-di-n-Propylamine	0.33	0.000162		mg/kg	0.06	U	0.061	U	0.057	U	0.058	U	0.06	U	0.061	U	0.063	U	0.058	U	0.054	U	0.063	U
n-Nitrosodiphenylamine	470	1.34		mg/kg	0.044	U	0.045	U	0.042	U	0.043	U	0.044	U	0.044	U	0.32		0.042	U	0.04	U	0.046	U
Pentachlorophenol	4	0.00114	0.028	mg/kg	0.2	U	0.2	U	0.19	U	0.19	U	0.2	U	0.2	U	0.21	U	0.19	U	0.18	U	0.21	U
Phenanthrene				mg/kg	0.02	U	0.017	J	0.041		0.019	U	0.0085	J	0.02	U	0.068		0.019	U	0.018	U	0.021	U
Phenol	250000	66		mg/kg	0.044	U	0.045	U	0.042	U	0.043	U	0.044	U	0.044	U	0.046	U	0.042	U	0.04	U	0.046	U
Pyrene	23000	260		mg/kg	0.02	U	0.02	U	0.066		0.019	U	0.0072	J	0.02	U	0.077		0.019	U	0.018	U	0.0042	J

Notes:
 Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), Industrial Soil Screening Level (SSL) (November 2021)
 Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20
 Exceeds the EPA RSL, Maximum Contaminant Level (MCL) SSL assuming a DAF of 20
 Blanks indicate RSL not established or constituent not analyzed
 RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0
 U = undetected
 J = estimated value
 J+ = estimated biased high
 J- = estimated biased low
 R = rejected
 MG/KG - milligram per kilogram
 SWMU = Solid Waste Management Unit
 RCRA = Resource Conservation and Recovery Act
 Sample depth shown in Sample ID (e.g., SBBF3-04_6-8 indicates 6 to 8-foot sample)
 DUP = Duplicate sample
 Exceedances shown may exceed one or more criteria if available

Table 17. BF3 Operating Area Soil Analytical Results
RCRA Facility Investigation Report
Honeywell Delaware Valley Works
Claymont, Delaware
Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date			Units	SBBF3-01 SBBF3-01_0.5-2 3/17/2021		SBBF3-01 SBBF3-01_11.5-13.5 3/17/2021		SBBF3-02 SBBF3-02_0-2 3/17/2021		SBBF3-02 SBBF3-02_11.5-13.5 3/17/2021		SBBF3-03 SBBF3-03_0-2 3/17/2021		SBBF3-03 SBBF3-03_13-15 3/17/2021		SBBF3-04 SBBF3-04_0-2 3/3/2021		SBBF3-04 SBBF3-04_6-8 3/3/2021		SBBF3-04 SBBF3-04_6-8-DUP 3/3/2021		SBBF3-04A SBBF3-04A_5-7 3/25/2021		SBBF3-04B SBBF3-04B_0-2 3/25/2021		SBBF3-04B SBBF3-04B_3-5 3/25/2021		SBBF3-04B SBBF3-04B_3-5-DUP 3/25/2021	
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20		Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Caprolactam	400000	50		mg/kg	0.19	U	0.2	U	0.2	U	0.2	U	0.21	U	0.21	U	2.1	U	0.2	U	0.2	U	0.21	U	0.2	U	0.2	U	0.2	U
Carbazole				mg/kg	0.042	U	0.045	U	0.044	U	0.044	U	0.046	U	0.025	J	0.46	U	0.043	U	0.043	U	0.056	U	0.044	U	0.043	U	0.043	U
Chrysene	2100	180		mg/kg	0.011	J	0.02	U	0.02	U	0.0049	J	0.021	U	0.052	J	1.5	U	0.01	J	0.02	U	0.36	U	0.037	U	0.024	U	0.02	U
Dibenzo(a,h)Anthracene	2.1	1.92		mg/kg	0.019	U	0.02	U	0.02	U	0.02	U	0.021	U	0.014	J	0.21	U	0.02	U	0.02	U	0.021	U	0.02	U	0.02	U	0.02	U
Dibenzofuran	1200	3		mg/kg	0.042	U	0.045	U	0.044	U	0.044	U	0.046	U	0.08	J	3.4	U	0.02	J	0.043	U	0.76	U	0.042	J	0.024	J	0.027	J
Diethyl Phthalate	660000	122		mg/kg	0.19	U	0.2	U	0.2	U	0.2	U	0.21	U	0.21	U	2.1	U	0.2	U	0.2	U	0.21	U	0.2	U	0.2	U	0.2	U
Dimethyl Phthalate				mg/kg	0.19	U	0.2	U	0.2	U	0.2	U	0.21	U	0.21	U	2.1	U	0.2	U	0.2	U	0.21	U	0.2	U	0.2	U	0.2	U
Di-n-Butyl Phthalate	82000	46		mg/kg	0.19	U	0.2	U	0.2	U	0.2	U	0.21	U	0.21	U	2.1	U	0.2	U	0.2	U	0.21	U	0.2	U	0.2	U	0.2	U
Di-n-Octyl Phthalate	8200	1140		mg/kg	0.19	U	0.2	U	0.2	U	0.2	U	0.21	U	0.21	U	2.1	U	0.2	U	0.2	U	0.21	U	0.2	U	0.2	U	0.2	U
Fluoranthene	30000	1780		mg/kg	0.011	J	0.02	U	0.02	U	0.02	U	0.0058	J	0.09	J	0.95	U	0.021	U	0.0042	J	1.8	U	0.037	U	0.029	U	0.031	U
Fluorene	30000	108		mg/kg	0.019	U	0.02	U	0.02	U	0.02	U	0.021	U	0.07	J	1.7	U	0.02	U	0.02	U	0.75	U	0.027	U	0.02	U	0.017	J
Hexachlorobenzene	0.96	0.0024	0.26	mg/kg	0.019	U	0.02	U	0.02	U	0.02	U	0.021	U	0.15	J	0.21	U	0.02	U	0.02	U	0.021	U	0.02	U	0.02	U	0.02	U
Hexachlorobutadiene	5.3	0.0054		mg/kg	0.058	U	0.061	U	0.059	U	0.06	U	0.062	U	0.062	U	0.63	U	0.059	U	0.059	U	0.062	U	0.06	U	0.059	U	0.059	U
Hexachlorocyclopentadiene	7.5	0.026	3.2	mg/kg	0.58	U	0.61	U	0.59	U	0.6	U	0.62	U	0.62	U	6.3	U	0.59	U	0.59	U	0.62	U	0.6	U	0.59	U	0.59	U
Hexachloroethane	8	0.004		mg/kg	0.19	U	0.2	U	0.2	U	0.2	U	0.21	U	0.21	U	2.1	U	0.2	U	0.2	U	0.21	U	0.2	U	0.2	U	0.2	U
Indeno(1,2,3-Cd)Pyrene	21	19.6		mg/kg	0.019	U	0.02	U	0.02	U	0.02	U	0.021	U	0.021	U	0.18	J	0.02	U	0.02	U	0.084	U	0.02	U	0.02	U	0.02	U
Isophorone	2400	0.52		mg/kg	0.077	U	0.081	U	0.079	U	0.079	U	0.083	U	0.083	U	0.84	U	0.078	U	0.079	U	0.082	U	0.08	U	0.079	U	0.079	U
Naphthalene	8.6	0.0076		mg/kg	0.019	U	0.02	U	0.02	U	0.018	J	0.021	U	0.04	J	5	U	0.059	J	0.0085	J	1.5	U	0.12	U	0.064	U	0.072	U
Nitrobenzene	22	0.00184		mg/kg	0.042	U	0.045	U	0.044	U	0.044	U	0.046	U	0.045	U	0.46	U	0.043	U	0.043	U	0.045	U	0.044	U	0.043	U	0.043	U
n-Nitroso-di-n-Propylamine	0.33	0.000162		mg/kg	0.058	U	0.061	U	0.059	U	0.06	U	0.062	U	0.062	U	0.63	U	0.059	U	0.059	U	0.062	U	0.06	U	0.059	U	0.059	U
n-Nitrosodiphenylamine	470	1.34		mg/kg	0.042	U	0.045	U	0.044	U	0.044	U	0.046	U	0.045	U	0.46	U	0.043	U	0.025	J	0.045	U	0.044	U	0.043	U	0.043	U
Pentachlorophenol	4	0.00114	0.028	mg/kg	0.19	U	0.2	U	0.2	U	0.2	U	0.21	U	<i>0.11</i>	J	2.1	U	0.2	U	0.2	U	0.21	U	0.2	U	0.2	U	0.2	U
Phenanthrene				mg/kg	0.0097	J	0.02	U	0.02	U	0.02	U	0.0056	J	0.092	J	8.6	U	0.05	J	0.0084	J	3.4	U	0.12	U	0.073	U	0.081	U
Phenol	250000	66		mg/kg	0.042	U	0.045	U	0.044	U	0.044	U	0.046	U	0.031	J	0.46	U	0.043	U	0.043	U	0.045	U	0.072	U	0.043	U	0.043	U
Pyrene	23000	260		mg/kg	0.0071	J	0.02	U	0.02	U	0.0045	J	0.0072	J	0.083	J	1.1	U	0.021	U	0.02	U	1	U	0.034	U	0.025	U	0.025	U

Notes:
Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), Industrial Soil Screening Level (SSL) (November 2021)
Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20
Exceeds the EPA RSL, Maximum Contaminant Level (MCL) SSL assuming a DAF of 20
Blanks indicate RSL not established or constituent not analyzed
RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0
U = undetected
J = estimated value
J+ = estimated biased high
J- = estimated biased low
R = rejected
MG/KG - milligram per kilogram
SWMU = Solid Waste Management Unit
RCRA = Resource Conservation and Recovery Act
Sample depth shown in Sample ID (e.g., SBBF3-04_6-8 indicates 6 to 8-foot sample)
DUP = Duplicate sample
Exceedances shown may exceed one or more criteria if available

Table 17. BF3 Operating Area Soil Analytical Results
RCRA Facility Investigation Report
Honeywell Delaware Valley Works
Claymont, Delaware
Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date			Units	SBBF3-04C SBBF3-04C_0-2 3/30/2021		SBBF3-04C SBBF3-04C_0-2-DUP 3/30/2021		SBBF3-05 SBBF3-05_8-10 3/16/2021		SBBF3-06 SBBF3-06_0-2 3/3/2021		SBBF3-06 SBBF3-06_5-7 3/3/2021		SBBF3-06A SBBF3-06A_0-2 3/25/2021		SBBF3-06A SBBF3-06A_8-10 3/25/2021		SBBF3-06B SBBF3-06B_0-2 3/25/2021		SBBF3-06B SBBF3-06B_3-5 3/25/2021		SBBF3-07 SBBF3-07_0-2 3/4/2021		SBBF3-07 SBBF3-07_9-11 3/4/2021		SBBF3-08 SBBF3-08_0-2 3/24/2021		SBBF3-08 SBBF3-08_8-10 3/24/2021	
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20		Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Caprolactam	400000	50		mg/kg	0.2	U	0.2	U	0.19	U	0.96	U	0.2	U	0.19	U	1.1	U	0.21	U	0.2	U	0.2	U	0.21	U	0.21	U	0.2	U
Carbazole				mg/kg	0.045	U	0.045	U	0.043	U	0.21	U	0.044	U	0.045	U	0.042	U	0.046	U	0.036	J	0.043	U	0.027	J	0.044	U		
Chrysene	2100	180		mg/kg	0.02	U	0.017	J	0.019	U	0.53		0.0067	J	0.019	J	0.035		0.085	J	0.013	J	0.24		0.02	U	0.32		0.0078	J
Dibenzo(a,h)Anthracene	2.1	1.92		mg/kg	0.02	U	0.02	U	0.019	U	0.096	U	0.02	U	0.02	U	0.019	U	0.11	U	0.021	U	0.05	U	0.02	U	0.052	U	0.02	U
Dibenzofuran	1200	3		mg/kg	0.045	U	0.045	U	0.043	U	0.21	U	0.044	U	0.045	U	0.042	U	0.23	U	0.046	U	0.02	J	0.043	U	0.072		0.044	U
Diethyl Phthalate	660000	122		mg/kg	0.2	U	0.2	U	0.19	U	0.96	U	0.15	J	0.2	U	0.19	U	1.1	U	0.21	U	0.2	U	0.2	U	0.21	U	0.2	U
Dimethyl Phthalate				mg/kg	0.2	U	0.2	U	0.19	U	0.96	U	0.2	U	0.2	U	0.19	U	1.1	U	0.21	U	0.2	U	0.2	U	0.21	U	0.2	U
Di-n-Butyl Phthalate	82000	46		mg/kg	0.2	U	0.2	U	0.19	U	0.96	U	0.2	U	0.2	U	0.19	U	1.1	U	0.21	U	0.2	U	0.2	U	0.21	U	0.2	U
Di-n-Octyl Phthalate	8200	1140		mg/kg	0.2	U	0.2	U	0.19	U	0.96	U	0.2	U	0.2	U	0.19	U	1.1	U	0.21	U	0.2	U	0.2	U	0.21	U	0.2	U
Fluoranthene	30000	1780		mg/kg	0.02	U	0.033		0.019	U	0.89		0.0076	J	0.068		0.17		0.11		0.024		0.47		0.0044	J	0.38		0.011	J
Fluorene	30000	108		mg/kg	0.02	U	0.016	J	0.019	U	0.065	J	0.02	U	0.02	U	0.0092	J	0.11	U	0.021	U	0.026		0.0056	J	0.021	U	0.02	U
Hexachlorobenzene	0.96	0.0024	0.26	mg/kg	0.02	U	0.031		0.019	U	0.096	U	0.02	U	0.02	U	0.019	U	0.11	U	0.021	U	0.02	U	0.02	U	0.021	U	0.02	U
Hexachlorobutadiene	5.3	0.0054		mg/kg	0.061	U	0.061	U	0.058	U	0.29	U	0.06	U	0.061	U	0.058	U	0.32	U	0.063	U	0.061	U	0.059	U	0.064	U	0.06	U
Hexachlorocyclopentadiene	7.5	0.026	3.2	mg/kg	0.61	U	0.61	U	0.58	U	2.9	U	0.6	U	0.61	U	0.58	U	3.2	U	0.63	U	0.61	U	0.59	U	0.64	R	0.6	U
Hexachloroethane	8	0.004		mg/kg	0.2	U	0.2	U	0.19	U	0.96	U	0.2	U	0.2	U	0.19	U	1.1	U	0.21	U	0.2	U	0.2	U	0.21	U	0.2	U
Indeno(1,2,3-Cd)Pyrene	21	19.6		mg/kg	0.02	U	0.02	U	0.019	U	0.27		0.02	U	0.015	J	0.03		0.11	U	0.021	U	0.17		0.02	U	0.14		0.02	U
Isophorone	2400	0.52		mg/kg	0.081	U	0.082	U	0.078	U	0.38	U	0.08	U	0.082	U	0.077	U	0.43	U	0.084	U	0.082	U	0.078	U	0.086	U	0.08	U
Naphthalene	8.6	0.0076		mg/kg	0.02	U	0.0093	J	0.019	U	0.13		0.02	U	0.02	U	0.033		0.19		0.018	J	0.019	J	0.02	U	0.2		0.02	U
Nitrobenzene	22	0.00184		mg/kg	0.045	U	0.045	U	0.043	U	0.21	U	0.044	U	0.045	U	0.042	U	0.23	U	0.046	U	0.045	U	0.043	U	0.028	J	0.044	U
n-Nitroso-di-n-Propylamine	0.33	0.000162		mg/kg	0.061	U	0.061	U	0.058	U	0.29	U	0.06	U	0.061	U	0.058	U	0.32	U	0.063	U	0.061	U	0.059	U	0.064	U	0.06	U
n-Nitrosodiphenylamine	470	1.34		mg/kg	0.045	U	0.045	U	0.043	U	0.21	U	0.044	U	0.045	U	0.042	U	0.23	U	0.046	U	0.045	U	0.043	U	0.047	U	0.044	U
Pentachlorophenol	4	0.00114	0.028	mg/kg	0.2	U	0.2	U	0.19	U	0.96	U	0.2	U	0.2	U	0.19	U	1.1	U	0.21	U	0.2	U	0.2	U	0.21	U	0.2	U
Phenanthrene				mg/kg	0.02	U	0.032		0.019	U	0.7		0.02	U	0.023		0.14		0.14		0.021		0.24		0.01	J	0.37		0.021	U
Phenol	250000	66		mg/kg	0.045	U	0.045	U	0.043	U	0.21	U	0.044	U	0.031	J	0.042	U	0.23	U	0.046	U	0.045	U	0.043	U	0.047	U	0.044	U
Pyrene	23000	260		mg/kg	0.02	U	0.033		0.019	U	0.95		0.008	J	0.098		0.22		0.11	U	0.021	U	0.42		0.02	U	0.34		0.017	J

Notes:
Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), Industrial Soil Screening Level (SSL) (November 2021)
Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20
Exceeds the EPA RSL, Maximum Contaminant Level (MCL) SSL assuming a DAF of 20
Blanks indicate RSL not established or constituent not analyzed
RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0
U = undetected
J = estimated value
J+ = estimated biased high
J- = estimated biased low
R = rejected
MG/KG - milligram per kilogram
SWMU = Solid Waste Management Unit
RCRA = Resource Conservation and Recovery Act
Sample depth shown in Sample ID (e.g., SBBF3-04_6-8 indicates 6 to 8-foot sample)
DUP = Duplicate sample
Exceedances shown may exceed one or more criteria if available

Table 17. BF3 Operating Area Soil Analytical Results
RCRA Facility Investigation Report
Honeywell Delaware Valley Works
Claymont, Delaware
Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date			Units	SBBF3-09 SBBF3-09_0-2 3/3/2021		SBBF3-09 SBBF3-09_8-10 3/3/2021		SBBF3-10 SBBF3-10_0-2 3/24/2021		SBBF3-10 SBBF3-10_8-10 3/24/2021		SBBF3-12 SBBF3-12_0-2 3/2/2021		SBBF3-12 SBBF3-12_8-10 3/2/2021		SBBF3-13 SBBF3-13_0-2 3/2/2021		SBBF3-13 SBBF3-13_8-10 3/2/2021		SBBF3-14 SBBF3-14_0-2 3/4/2021		SBBF3-14 SBBF3-14_8-10 3/4/2021		SBBF3-15 SBBF3-15_0-2 3/24/2021		SBBF3-15 SBBF3-15_8-10 3/24/2021		SBBF3-15 SBBF3-15_8-10-DUP 3/24/2021	
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20		Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Caprolactam	400000	50		mg/kg	0.94	U	0.21	U	2	U	0.2	U	0.19	U	0.2	U	0.17	U	0.2	U	0.19	U	0.2	U	0.2	U	0.21	U	0.21	U
Carbazole				mg/kg	0.21	U	0.045	U	0.44	U	0.044	U	0.042	U	0.044	U	0.026	J	0.044	U	0.026	J	0.045	U	0.049	U	0.045	U	0.046	U
Chrysene	2100	180		mg/kg	0.31	U	0.021	U	0.58	U	0.0042	J	0.0055	J	0.02	U	0.15	U	0.02	U	0.081	U	0.02	U	0.044	U	0.021	U	0.021	U
Dibenzo(a,h)Anthracene	2.1	1.92		mg/kg	0.094	U	0.021	U	0.13	J	0.02	U	0.019	U	0.02	U	0.017	U	0.02	U	0.015	J	0.02	U	0.02	U	0.012	J	0.021	U
Dibenzofuran	1200	3		mg/kg	0.21	U	0.045	U	0.24	J	0.044	U	0.042	U	0.044	U	0.024	J	0.044	U	0.051	U	0.045	U	0.096	U	0.045	U	0.046	U
Diethyl Phthalate	660000	122		mg/kg	0.94	U	0.21	U	2	U	0.2	U	0.19	U	0.2	U	0.17	U	0.2	U	0.19	U	0.2	U	0.2	U	0.21	U	0.21	U
Dimethyl Phthalate				mg/kg	0.94	U	0.21	U	2	U	0.2	U	0.19	U	0.2	U	0.17	U	0.2	U	0.19	U	0.2	U	0.2	U	0.21	U	0.21	U
Di-n-Butyl Phthalate	82000	46		mg/kg	0.94	U	0.21	U	2	U	0.2	U	0.19	U	0.2	U	0.17	U	0.2	U	0.19	U	0.2	U	0.2	U	0.21	U	0.21	U
Di-n-Octyl Phthalate	8200	1140		mg/kg	0.94	U	0.21	U	2	U	0.2	U	0.19	U	0.2	U	0.17	U	0.2	U	0.19	U	0.2	U	0.2	U	0.21	U	0.21	U
Fluoranthene	30000	1780		mg/kg	0.57	U	0.021	U	1.2	U	0.0067	J	0.019	U	0.02	U	0.3	U	0.0063	J	0.21	U	0.02	U	0.02	U	0.021	U	0.021	U
Fluorene	30000	108		mg/kg	0.094	U	0.021	U	0.14	J	0.02	U	0.019	U	0.02	U	0.034	U	0.02	U	0.085	U	0.02	U	0.18	U	0.021	U	0.021	U
Hexachlorobenzene	0.96	0.0024	0.26	mg/kg	0.094	U	0.021	U	0.2	U	0.02	U	0.019	U	0.02	U	0.017	U	0.02	U	0.019	U	0.02	U	0.02	U	0.021	U	0.021	U
Hexachlorobutadiene	5.3	0.0054		mg/kg	0.28	U	0.062	U	0.59	U	0.06	U	0.057	U	0.06	U	0.052	U	0.06	U	0.058	U	0.061	U	0.061	U	0.062	U	0.062	U
Hexachlorocyclopentadiene	7.5	0.026	3.2	mg/kg	2.8	U	0.62	U	5.9	U	0.6	U	0.57	U	0.6	U	0.52	U	0.6	U	0.58	U	0.61	U	0.61	U	0.62	U	0.62	U
Hexachloroethane	8	0.004		mg/kg	0.94	U	0.21	U	2	U	0.2	U	0.19	U	0.2	U	0.17	U	0.2	U	0.19	U	0.2	U	0.2	U	0.21	U	0.21	U
Indeno(1,2,3-Cd)Pyrene	21	19.6		mg/kg	0.14	U	0.021	U	0.26	U	0.02	U	0.019	U	0.02	U	0.066	U	0.02	U	0.036	U	0.02	U	0.015	J	0.014	J	0.021	U
Isophorone	2400	0.52		mg/kg	0.37	U	0.083	U	0.79	U	0.08	U	0.076	U	0.08	U	0.07	U	0.081	U	0.077	U	0.081	U	0.081	U	0.082	U	0.083	U
Naphthalene	8.6	0.0076		mg/kg	0.04	J	0.034		0.64		0.02	U	0.019	U	0.02	U	0.011	J	0.02	U	0.061		0.02	U	0.1		0.021	U	0.021	U
Nitrobenzene	22	0.00184		mg/kg	0.21	U	0.045	U	0.44	U	0.044	U	0.042	U	0.044	U	0.038	U	0.044	U	0.042	U	0.045	U	0.045	U	0.045	U	0.046	U
n-Nitroso-di-n-Propylamine	0.33	0.000162		mg/kg	0.28	U	0.062	U	0.59	U	0.06	U	0.057	U	0.06	U	0.052	U	0.06	U	0.058	U	0.061	U	0.061	U	0.062	U	0.062	U
n-Nitrosodiphenylamine	470	1.34		mg/kg	0.21	U	0.045	U	0.44	U	0.044	U	0.042	U	0.044	U	0.038	U	0.044	U	0.042	U	0.045	U	0.26	U	0.045	U	0.046	U
Pentachlorophenol	4	0.00114	0.028	mg/kg	0.94	U	0.21	U	2	UJ	0.2	U	0.19	U	0.2	U	0.17	U	0.2	U	0.19	U	0.2	U	0.2	U	0.21	U	0.21	U
Phenanthrene				mg/kg	0.37	U	0.02	J	1.1	U	0.02	U	0.019	U	0.02	U	0.23	U	0.02	U	0.21	U	0.02	U	0.1	U	0.021	U	0.021	U
Phenol	250000	66		mg/kg	0.21	U	0.045	U	0.44	U	0.044	U	0.042	U	0.044	U	0.038	U	0.044	U	0.042	U	0.045	U	0.48	U	0.045	U	0.046	U
Pyrene	23000	260		mg/kg	0.53	U	0.013	J	0.96	U	0.0073	J	0.019	U	0.02	U	0.25	U	0.0058	J	0.19	U	0.02	U	0.095	U	0.021	U	0.021	U

Notes:
Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), Industrial Soil Screening Level (SSL) (November 2021)
Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20
Exceeds the EPA RSL, Maximum Contaminant Level (MCL) SSL assuming a DAF of 20
Blanks indicate RSL not established or constituent not analyzed
RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0
U = undetected
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J- = estimated biased low
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MG/KG - milligram per kilogram
SWMU = Solid Waste Management Unit
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Sample depth shown in Sample ID (e.g., SBBF3-04_6-8 indicates 6 to 8-foot sample)
DUP = Duplicate sample
Exceedances shown may exceed one or more criteria if available

Table 17. BF3 Operating Area Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date			SBBF3-16 SBBF3-16_0-2 3/4/2021		SBBF3-16 SBBF3-16_7-9 3/4/2021		SBBF3-17 SBBF3-17_0-2 3/4/2021		SBBF3-17 SBBF3-17_5.5-7.5 3/4/2021		SBBF3-18 SBBF3-18_0-2 3/18/2021		SBBF3-18 SBBF3-18_5-7 3/18/2021		SBBF3-18 SBBF3-18_13-15 3/18/2021		SBBF3-18 SBBF3-18_13-15-DUP 3/18/2021		SBBF3-19 SBBF3-19_0-2 3/18/2021		SBBF3-20 SBBF3-20_0-2 3/18/2021		SBBF3-20 SBBF3-20_3-5 3/18/2021		SBBF3-21 SBBF3-21_1-2 3/18/2021		SBBF3-21 SBBF3-21_5.5-7.5 3/18/2021		
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Caprolactam	400000	50		mg/kg	0.22	U	0.21	U	0.2	U	0.2	U	1.1	U	1.8	U	0.21	U	0.2	U	0.19	U	0.2	U	1.1	U	1.7	U		
Carbazole				mg/kg	0.12		0.046	U	0.043	U	0.044	U	0.25	U	0.41	U	0.046	U	0.044	U	0.044	U	0.042	U	0.044	U	1	U	0.38	U
Chrysene	2100	180		mg/kg	2.3		0.021	U	0.02	U	0.02	U	0.22	U	0.64		0.021	U	0.004	J	0.052		0.048	U	0.052	U	5.5		0.59	U
Dibenzo(a,h)Anthracene	2.1	1.92		mg/kg	0.38		0.021	U	0.02	U	0.02	U	0.054	J	0.18	U	0.021	U	0.02	U	0.02	U	0.01	J	0.02	U	1		0.17	U
Dibenzofuran	1200	3		mg/kg	0.028	J	0.046	U	0.043	U	0.044	U	0.25	U	0.41	U	0.046	U	0.044	U	0.022	J	0.042	U	0.034	J	0.56		0.38	U
Diethyl Phthalate	660000	122		mg/kg	0.22	U	0.21	U	0.2	U	0.2	U	1.1	U	1.8	U	0.21	U	0.2	U	0.2	U	0.19	U	0.2	U	1.1	U	1.7	U
Dimethyl Phthalate				mg/kg	0.22	U	0.21	U	0.2	U	0.2	U	1.1	U	1.8	U	0.21	U	0.2	U	0.2	U	0.19	U	0.2	U	1.1	U	1.7	U
Di-n-Butyl Phthalate	82000	46		mg/kg	0.22	U	0.21	U	0.2	U	0.2	U	1.1	U	1.8	U	0.21	U	0.2	U	0.2	U	0.19	U	0.2	U	1.1	U	1.7	U
Di-n-Octyl Phthalate	8200	1140		mg/kg	0.22	U	0.21	U	0.2	U	0.2	U	1.1	U	1.8	U	0.21	U	0.2	U	0.2	U	0.19	U	0.2	U	1.1	U	1.7	U
Fluoranthene	30000	1780		mg/kg	3.3		0.021	U	0.014	J	0.0064	J	0.25		0.72		0.021	U	0.02	U	0.085		0.04		0.15		14		0.82	
Fluorene	30000	108		mg/kg	0.036		0.021	U	0.02	U	0.02	U	0.11	U	0.2		0.021	U	0.02	U	0.021		0.019	U	0.04		0.73		0.13	J
Hexachlorobenzene	0.96	0.0024	0.26	mg/kg	0.022	U	0.021	U	0.02	U	0.02	U	0.11	U	0.18	U	0.021	U	0.02	U	0.02	U	0.019	U	0.02	U	0.11	U	0.17	U
Hexachlorobutadiene	5.3	0.0054		mg/kg	0.065	U	0.062	U	0.059	U	0.061	U	0.34	U	0.55	U	0.063	U	0.061	U	0.06	U	0.057	U	0.06	U	0.32	U	0.52	U
Hexachlorocyclopentadiene	7.5	0.026	3.2	mg/kg	0.65	U	0.62	U	0.59	U	0.61	R	3.4	U	5.5	U	0.63	U	0.61	U	0.6	U	0.57	U	0.6	U	3.2	U	5.2	U
Hexachloroethane	8	0.004		mg/kg	0.22	U	0.21	U	0.2	U	0.2	U	1.1	U	1.8	U	0.21	U	0.2	U	0.2	U	0.19	U	0.2	U	1.1	U	1.7	U
Indeno(1,2,3-Cd)Pyrene	21	19.6		mg/kg	1		0.021	U	0.02	U	0.02	U	0.12		0.37		0.021	U	0.02	U	0.024		0.025		0.02		2.9		0.39	
Isophorone	2400	0.52		mg/kg	0.086	U	0.083	U	0.078	U	0.081	U	0.45	U	0.74	U	0.084	U	0.081	U	0.08	U	0.076	U	0.08	U	0.42	U	0.69	U
Naphthalene	8.6	0.0076		mg/kg	0.054		0.021	U	0.0079	J	0.02	U	0.11	U	0.61		0.045	J	0.02	UJ	0.034		0.019	U	0.018	J	0.39		0.46	
Nitrobenzene	22	0.00184		mg/kg	0.048	U	0.046	U	0.043	U	0.044	U	0.25	U	0.41	U	0.046	U	0.044	U	0.044	U	0.042	U	0.044	U	1.4		0.38	U
n-Nitroso-di-n-Propylamine	0.33	0.000162		mg/kg	0.065	U	0.062	U	0.059	U	0.061	U	0.34	U	0.55	U	0.063	U	0.061	U	0.06	U	0.057	U	0.06	U	0.32	U	0.52	U
n-Nitrosodiphenylamine	470	1.34		mg/kg	0.048	U	0.046	U	0.043	U	0.044	U	0.25	U	0.41	U	0.046	U	0.044	U	0.044	U	0.042	U	0.044	U	0.16	J	0.38	U
Pentachlorophenol	4	0.00114	0.028	mg/kg	0.22	U	0.21	U	0.2	U	0.2	U	1.1	U	1.8	U	0.21	U	0.2	U	0.2	U	0.19	U	0.2	U	1.1	U	1.7	U
Phenanthrene				mg/kg	1		0.021	U	0.012	J	0.011	J	0.15		0.64		0.021	U	0.02	U	0.1		0.032		0.26		9.1		0.6	
Phenol	250000	66		mg/kg	0.048	U	0.046	U	0.043	U	0.044	U	0.25	U	2.5		0.046	U	0.044	U	0.75		0.042	U	0.3		0.23	U	0.33	J
Pyrene	23000	260		mg/kg	3.2		0.021	U	0.02	U	0.0058	J	0.2		0.66		0.021	U	0.005	J	0.061		0.026		0.11		9.9		0.58	

Notes:
 Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), Industrial Soil Screening Level (SSL) (November 2021)
 Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20
 Exceeds the EPA RSL, Maximum Contaminant Level (MCL) SSL assuming a DAF of 20
 Blanks indicate RSL not established or constituent not analyzed
 RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0
 U = undetected
 J = estimated value
 J+ = estimated biased high
 J- = estimated biased low
 R = rejected
 MG/KG - milligram per kilogram
 SWMU = Solid Waste Management Unit
 RCRA = Resource Conservation and Recovery Act
 Sample depth shown in Sample ID (e.g., SBBF3-04_6-8 indicates 6 to 8-foot sample)
 DUP = Duplicate sample
 Exceedances shown may exceed one or more criteria if available

Table 17. BF3 Operating Area Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date			Units	SBBF3-21 SBBF3-21_8.5-10.5 3/18/2021		SBBF3-23 SBBF3-23_0-2 3/12/2021		SBBF3-23 SBBF3-23_4-6 3/12/2021		SBBF3-23 SBBF3-23_6-8 3/12/2021		SBBF3-27 SBBF3-27_0.5-2 3/17/2021		SBBF3-27 SBBF3-27_11.5-13.5 3/17/2021		SBBF3-28 SBBF3-28_0.5-2 3/17/2021		SBBF3-28 SBBF3-28_11.5-13.5 3/17/2021		SBBF3-28 SBBF3-28_11.5-13.5-DU 3/17/2021		SBBF3-29 SBBF3-29_10.5-12.5 3/16/2021		SBBF3-30 SBBF3-30_0-2 3/17/2021		SBBF3-30 SBBF3-30_0.5-2 3/17/2021		SBBF3-30 SBBF3-30_11.5-13.5 3/17/2021	
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20		Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Caprolactam	400000	50		mg/kg	0.19	U	0.21	U	0.2	U	0.2	U	0.19	U	0.2	U	0.36	U	1	U	1	U	0.2	U	0.22	U			0.2	U
Carbazole				mg/kg	0.043	U	1.2		0.36		0.043	U	0.043	U	0.043	U	0.079	U	0.23	U	0.23	U	0.044	U	0.1				0.044	U
Chrysene	2100	180		mg/kg	0.019	U	3.1	J-	1.3		0.091		0.019	U	0.019	J	0.016	J	0.1	U	0.1	U	0.02	U	1.4				0.02	U
Dibenzo(a,h)Anthracene	2.1	1.92		mg/kg	0.019	U	0.39		0.74		0.02	U	0.019	U	0.02	U	0.036	U	0.1	U	0.1	U	0.02	U	0.18				0.02	U
Dibenzofuran	1200	3		mg/kg	0.043	U	0.95		0.36		0.043	U	0.043	U	0.043	U	0.079	U	0.23	U	0.23	U	0.044	U	0.13				0.044	U
Diethyl Phthalate	660000	122		mg/kg	0.19	U	0.21	U	0.2	U	0.2	U	0.19	U	0.2	U	0.36	U	1	U	1	U	0.2	U	0.22	U			0.2	U
Dimethyl Phthalate				mg/kg	0.19	U	0.21	U	0.2	U	0.2	U	0.19	U	0.2	U	0.36	U	1	U	1	U	0.2	U	0.22	U			0.2	U
Di-n-Butyl Phthalate	82000	46		mg/kg	0.19	U	0.21	U	0.2	U	0.2	U	0.19	U	0.2	U	0.36	U	1	U	1	U	0.2	U	0.22	U			0.2	U
Di-n-Octyl Phthalate	8200	1140		mg/kg	0.19	U	0.21	U	0.2	U	0.2	U	0.19	U	0.2	U	0.36	U	1	U	1	U	0.2	U	0.22	U			0.2	U
Fluoranthene	30000	1780		mg/kg	0.0082	J	8.8	J-	2.6		0.14		0.0066	J	0.014	J	0.036	U	0.1	U	0.1	U	0.02	U	2				0.02	U
Fluorene	30000	108		mg/kg	0.019	U	1.4		0.41		0.023		0.019	U	0.034		0.036	U	0.1	U	0.1	U	0.02	U	0.082				0.02	U
Hexachlorobenzene	0.96	0.0024	0.26	mg/kg	0.019	U	0.021	U	0.02	U	0.02	U	0.019	U	0.02	U	0.036	U	0.1	U	0.1	U	0.02	U	0.022	U			0.02	U
Hexachlorobutadiene	5.3	0.0054		mg/kg	0.058	U	0.064	U	0.061	U	0.059	U	0.058	U	0.059	U	0.11	U	0.31	U	0.31	U	0.06	U	0.066	U			0.06	U
Hexachlorocyclopentadiene	7.5	0.026	3.2	mg/kg	0.58	U	0.64	R	0.61	U	0.59	U	0.58	U	0.59	U	1.1	U	3.1	U	3.1	U	0.6	R	0.66	U			0.6	U
Hexachloroethane	8	0.004		mg/kg	0.19	U	0.21	UJ	0.2	U	0.2	U	0.19	U	0.2	U	0.36	U	1	U	1	U	0.2	UJ	0.22	U			0.2	U
Indeno(1,2,3-Cd)Pyrene	21	19.6		mg/kg	0.019	U	1.1		0.76		0.048		0.019	U	0.02	U	0.0089	J	0.1	U	0.1	U	0.02	U	0.64				0.02	U
Isophorone	2400	0.52		mg/kg	0.078	U	0.086	U	0.082	U	0.079	U	0.077	U	0.078	U	0.14	U	0.41	U	0.41	U	0.08	U	0.087	U			0.079	U
Naphthalene	8.6	0.0076		mg/kg	0.019	U	1.1		0.72		0.017	J	0.011	J	0.044		0.036	U	0.1	U	0.1	U	0.02	U	0.17				0.02	U
Nitrobenzene	22	0.00184		mg/kg	0.043	U	0.047	U	0.21		0.043	U	0.043	U	0.043	U	0.079	U	0.23	U	0.23	U	0.044	U	0.043	J			0.044	U
n-Nitroso-di-n-Propylamine	0.33	0.000162		mg/kg	0.058	U	0.064	U	0.061	U	0.059	U	0.058	U	0.059	U	0.11	U	0.31	U	0.31	U	0.06	U	0.066	U			0.06	U
n-Nitrosodiphenylamine	470	1.34		mg/kg	0.043	U	0.047	U	0.045	U	0.043	U	0.043	U	0.043	U	0.079	U	0.23	U	0.23	U	0.044	U	0.048	U			0.044	U
Pentachlorophenol	4	0.00114	0.028	mg/kg	0.19	U	0.21	U	0.2	U	0.2	U	0.19	U	0.2	U	0.36	U	1	U	1	U	0.2	U	0.22	U			0.2	U
Phenanthrene				mg/kg	0.035		7.7	J-	1.5		0.1		0.0059	J	0.41		0.01	J	0.1	U	0.1	U	0.02	U	0.77				0.0074	J
Phenol	250000	66		mg/kg	0.043	U	0.48		0.84		0.043	U	0.043	U	0.043	U	0.079	U	0.23	U	0.23	U	0.044	U	0.8				0.044	U
Pyrene	23000	260		mg/kg	0.0078	J	6.4	J-	1.6		0.11		0.019	U	0.048		0.036	U	0.1	U	0.1	U	0.02	U	1.4				0.02	U

Notes:
 Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), Industrial Soil Screening Level (SSL) (November 2021)
 Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20
 Exceeds the EPA RSL, Maximum Contaminant Level (MCL) SSL assuming a DAF of 20
 Blanks indicate RSL not established or constituent not analyzed
 RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0
 U = undetected
 J = estimated value
 J+ = estimated biased high
 J- = estimated biased low
 R = rejected
 MG/KG - milligram per kilogram
 SWMU = Solid Waste Management Unit
 RCRA = Resource Conservation and Recovery Act
 Sample depth shown in Sample ID (e.g., SBBF3-04_6-8 indicates 6 to 8-foot sample)
 DUP = Duplicate sample
 Exceedances shown may exceed one or more criteria if available

Table 17. BF3 Operating Area Soil Analytical Results
RCRA Facility Investigation Report
Honeywell Delaware Valley Works
Claymont, Delaware
Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date			Units	SBBF3-31 SBBF3-31_8-10 3/18/2021		SBBF3-32 SBBF3-32_13-15 3/18/2021		SBBF3-33 SBBF3-33_0-2 3/12/2021		SBBF3-33 SBBF3-33_4.5-6.5 3/12/2021		SBBF3-33 SBBF3-33_6.5-8.5 3/12/2021		SBBF3-33A SBBF3-33A_0-2 3/25/2021		SBBF3-33A SBBF3-33A_10.5-12.5 3/25/2021		SBBF3-33B SBBF3-33B_3-5 3/25/2021		SBBF3-33C SBBF3-33C_4-6 3/25/2021		SBBF3-33D SBBF3-33D_8-10 3/25/2021		SBBF3-33E SBBF3-33E_0-2 3/30/2021		SBBF3-33E SBBF3-33E_12-14 3/30/2021		SBBF3-36 SBBF3-36_9-11 3/10/2021	
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20		Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Caprolactam	400000	50		mg/kg	0.21	U	0.21	U	0.23	U	0.21	U	0.2	U	0.19	U	0.2	U	0.24	U	0.21	U	0.2	U	0.2	U	0.2	U	0.2	U
Carbazole				mg/kg	0.047	U	0.047	U	0.86	U	0.25	U	0.044	U	0.042	U	0.045	U	0.3	U	0.046	U	0.044	U	0.045	U	0.045	U	0.043	U
Chrysene	2100	180		mg/kg	0.021	U	0.021	U	4.5	U	1.6	U	0.02	U	0.035	U	0.019	U	0.0056	J	1.9	U	0.021	U	0.0042	J	0.012	J	0.02	U
Dibenzo(a,h)Anthracene	2.1	1.92		mg/kg	0.021	U	0.021	U	0.7	U	0.31	U	0.02	U	0.019	U	0.02	U	0.35	U	0.021	U	0.02	U	0.015	J	0.02	U		
Dibenzofuran	1200	3		mg/kg	0.047	U	0.047	U	1.9	U	0.3	U	0.044	U	0.042	U	0.045	U	0.35	U	0.046	U	0.044	U	0.045	U	0.045	U	0.043	U
Diethyl Phthalate	660000	122		mg/kg	0.21	U	0.21	U	0.23	U	0.21	U	0.2	U	0.19	U	0.2	U	0.24	U	0.21	U	0.2	U	0.2	U	0.2	U	0.2	U
Dimethyl Phthalate				mg/kg	0.21	U	0.21	U	0.23	U	0.21	U	0.2	U	0.19	U	0.2	U	0.24	U	0.21	U	0.2	U	0.2	U	0.2	U	0.2	U
Di-n-Butyl Phthalate	82000	46		mg/kg	0.21	U	0.21	U	0.11	J	0.21	U	0.2	U	0.19	U	0.2	U	0.24	U	0.21	U	0.2	U	0.2	U	0.2	U	0.2	U
Di-n-Octyl Phthalate	8200	1140		mg/kg	0.21	U	0.21	U	0.23	U	0.21	U	0.2	U	0.19	U	0.2	U	0.24	U	0.21	U	0.2	U	0.2	U	0.2	U	0.2	U
Fluoranthene	30000	1780		mg/kg	0.005	J	0.021	U	12	U	3.6	U	0.0097	J	0.067	U	0.019	U	0.0067	J	4.6	U	0.021	U	0.02	U	0.02	U	0.02	U
Fluorene	30000	108		mg/kg	0.021	U	0.021	U	2.5	U	0.37	U	0.02	U	0.018	J	0.019	U	0.02	U	0.52	U	0.021	U	0.02	U	0.02	U	0.02	U
Hexachlorobenzene	0.96	0.0024	0.26	mg/kg	0.021	U	0.021	U	0.023	U	0.021	U	0.02	U	0.019	U	0.02	U	0.024	U	0.021	U	0.02	U	0.02	U	0.02	U	0.02	U
Hexachlorobutadiene	5.3	0.0054		mg/kg	0.064	U	0.063	U	0.068	U	0.064	U	0.06	U	0.061	U	0.058	U	0.061	U	0.071	U	0.062	U	0.06	U	0.061	U	0.059	U
Hexachlorocyclopentadiene	7.5	0.026	3.2	mg/kg	0.64	UJ	0.63	U	0.68	U	0.64	U	0.6	U	0.61	U	0.58	U	0.61	U	0.71	U	0.62	U	0.6	U	0.61	UJ	0.59	UJ
Hexachloroethane	8	0.004		mg/kg	0.21	U	0.21	U	0.23	U	0.21	U	0.2	U	0.19	U	0.2	U	0.24	U	0.21	U	0.2	U	0.2	U	0.2	U	0.2	U
Indeno(1,2,3-Cd)Pyrene	21	19.6		mg/kg	0.021	U	0.021	U	2.2	U	0.76	U	0.02	U	0.032	U	0.019	U	0.02	U	1	U	0.021	U	0.02	U	0.015	J	0.02	U
Isophorone	2400	0.52		mg/kg	0.085	U	0.085	U	0.09	U	0.085	U	0.08	U	0.082	U	0.077	U	0.082	U	0.095	U	0.083	U	0.081	U	0.082	U	0.078	U
Naphthalene	8.6	0.0076		mg/kg	0.013	J	0.021	U	0.56	U	0.22	U	0.02	U	0.029	U	0.016	J	0.02	U	0.37	U	0.021	U	0.011	J	0.02	U	0.02	U
Nitrobenzene	22	0.00184		mg/kg	0.047	U	0.047	U	0.05	U	0.28	U	0.044	U	0.045	U	0.042	U	0.045	U	0.052	U	0.046	U	0.044	U	0.045	U	0.043	U
n-Nitroso-di-n-Propylamine	0.33	0.000162		mg/kg	0.064	U	0.063	U	0.068	U	0.064	U	0.06	U	0.061	U	0.058	U	0.061	U	0.071	U	0.062	U	0.06	U	0.061	U	0.059	U
n-Nitrosodiphenylamine	470	1.34		mg/kg	0.047	UJ	0.047	U	0.17	U	0.36	U	0.044	U	0.045	U	0.042	U	0.045	U	0.052	U	0.046	U	0.044	U	0.045	U	0.043	U
Pentachlorophenol	4	0.00114	0.028	mg/kg	0.21	U	0.21	U	0.23	U	0.21	U	0.2	U	0.19	U	0.2	U	0.24	U	0.21	U	0.2	U	0.2	U	0.2	U	0.2	U
Phenanthrene				mg/kg	0.013	J	0.0057	J	14	U	1.3	U	0.0099	J	0.058	U	0.019	U	0.02	U	3.9	U	0.021	U	0.02	U	0.02	U	0.02	U
Phenol	250000	66		mg/kg	0.047	U	0.047	U	0.05	U	0.4	U	0.044	U	0.037	J	0.042	U	0.045	U	2.3	U	0.046	U	0.044	U	0.045	U	0.043	U
Pyrene	23000	260		mg/kg	0.021	U	0.0051	J	9.7	U	2.9	U	0.0098	J	0.048	U	0.019	U	0.0062	J	3.3	U	0.021	U	0.02	U	0.0047	J	0.02	U

Notes:
Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), Industrial Soil Screening Level (SSL) (November 2021)
Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20
Exceeds the EPA RSL, Maximum Contaminant Level (MCL) SSL assuming a DAF of 20
Blanks indicate RSL not established or constituent not analyzed
RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0
U = undetected
J = estimated value
J+ = estimated biased high
J- = estimated biased low
R = rejected
MG/KG - milligram per kilogram
SWMU = Solid Waste Management Unit
RCRA = Resource Conservation and Recovery Act
Sample depth shown in Sample ID (e.g., SBBF3-04_6-8 indicates 6 to 8-foot sample)
DUP = Duplicate sample
Exceedances shown may exceed one or more criteria if available

Table 17. BF3 Operating Area Soil Analytical Results
RCRA Facility Investigation Report
Honeywell Delaware Valley Works
Claymont, Delaware
Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date			SBBF3-37 SBBF3-37_0-2 3/10/2021		SBBF3-37 SBBF3-37_9-11 3/10/2021		SBBF3-37 SBBF3-37_9-11-DUP 3/10/2021		SBBF3-39 SBBF3-39_0-2 3/11/2021		SBBF3-39 SBBF3-39_4-6 3/11/2021		SBBF3-39 SBBF3-39_6-8 3/11/2021		SBBF3-40 SBBF3-40_0-2 3/2/2021		SBBF3-40 SBBF3-40_8-10 3/2/2021		SBBF3-41 SBBF3-41_0-2 3/2/2021		SBBF3-41 SBBF3-41_3-5 3/2/2021		SBBF3-41 SBBF3-41_3-5-DUP 3/2/2021		SBBF3-41 SBBF3-41_5-7 3/2/2021		SBBF3-42 SBBF3-42_0-2 3/24/2021		
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Caprolactam	400000	50		mg/kg	0.2	U	0.2	U	0.2	U	2	U	0.21	U	1	U	0.2	U	0.2	U	0.97	U	0.21	U	0.21	U	0.2	U	0.21	U
Carbazole				mg/kg	0.26		0.044	U	0.044	U	0.27	J	0.047	U	0.23	U	0.19		0.044	U	0.21	U	0.047	U	0.045	U	0.045	U	0.046	U
Chrysene	2100	180		mg/kg	1.6		0.0082	J	0.0072	J	0.89		0.011	J	0.025	J	0.37		0.02	U	0.064	J	0.05	J	0.021	UJ	0.02	U	0.04	
Dibenzo(a,h)Anthracene	2.1	1.92		mg/kg	0.31		0.02	U	0.02	U	0.22		0.021	U	0.1	U	0.12		0.02	U	0.097	U	0.014	J	0.021	U	0.02	U	0.041	
Dibenzofuran	1200	3		mg/kg	0.12		0.044	U	0.044	U	0.44	U	0.047	U	0.23	U	0.17		0.044	U	0.21	U	0.047	U	0.045	U	0.045	U	0.046	U
Diethyl Phthalate	660000	122		mg/kg	0.2	U	0.2	U	0.2	U	2	U	0.21	U	1	U	0.2	U	0.2	U	0.97	U	0.21	U	0.21	U	0.2	U	0.21	U
Dimethyl Phthalate				mg/kg	0.2	U	0.2	U	0.2	U	2	U	0.21	U	1	U	0.2	U	0.2	U	0.97	U	0.21	U	0.21	U	0.2	U	0.21	U
Di-n-Butyl Phthalate	82000	46		mg/kg	0.2	U	0.2	U	0.2	U	2	U	0.21	U	1	U	0.2	U	0.2	U	0.97	U	0.21	U	0.21	U	0.2	U	0.21	U
Di-n-Octyl Phthalate	8200	1140		mg/kg	0.2	U	0.2	U	0.2	U	2	U	0.21	U	1	U	0.2	U	0.2	U	0.97	U	0.21	U	0.21	U	0.2	U	0.21	U
Fluoranthene	30000	1780		mg/kg	2.7		0.02	U	0.02	U	2.2		0.014	J	0.037	J	1.2		0.02	U	0.099		0.1	J	0.021	UJ	0.02	U	0.038	
Fluorene	30000	108		mg/kg	0.12		0.02	U	0.02	U	0.2		0.021	U	0.1	U	0.11		0.02	U	0.097	U	0.023		0.021	U	0.02	U	0.021	U
Hexachlorobenzene	0.96	0.0024	0.26	mg/kg	0.02	U	0.02	U	0.02	U	0.2	U	0.021	U	0.1	U	0.02	U	0.02	U	0.097	U	0.021	U	0.021	U	0.02	U	0.021	U
Hexachlorobutadiene	5.3	0.0054		mg/kg	0.059	U	0.06	U	0.06	U	0.6	U	0.064	U	0.31	U	0.06	U	0.06	U	0.29	U	0.064	U	0.062	U	0.061	U	0.063	U
Hexachlorocyclopentadiene	7.5	0.026	3.2	mg/kg	0.59	U	0.6	U	0.6	U	6	U	0.64	U	3.1	U	0.6	U	0.6	U	2.9	U	0.64	U	0.62	U	0.61	U	0.63	U
Hexachloroethane	8	0.004		mg/kg	0.2	U	0.2	U	0.2	U	2	U	0.21	U	1	U	0.2	U	0.2	U	0.97	U	0.21	U	0.21	U	0.2	U	0.21	U
Indeno(1,2,3-Cd)Pyrene	21	19.6		mg/kg	1		0.02	U	0.0092	J	0.74		0.021	U	0.1	U	0.44		0.02	U	0.033	J	0.015	J	0.021	U	0.02	U	0.048	
Isophorone	2400	0.52		mg/kg	0.079	U	0.08	U	0.079	U	0.8	U	0.085	U	0.41	U	0.08	U	0.08	U	0.39	U	0.086	U	0.083	U	0.081	U	0.084	U
Naphthalene	8.6	0.0076		mg/kg	0.24		0.02	U	0.02	U	0.2		0.015	J	0.1	U	0.33		0.009	J	0.076	J	0.064	J	0.021	UJ	0.02	U	0.016	J
Nitrobenzene	22	0.00184		mg/kg	0.95		0.044	U	0.044	U	0.44	U	0.047	U	0.23	U	0.12		0.044	U	0.21	U	0.047	U	0.045	U	0.045	U	0.046	U
n-Nitroso-di-n-Propylamine	0.33	0.000162		mg/kg	0.059	U	0.06	U	0.06	U	0.6	U	0.064	U	0.31	U	0.06	U	0.06	U	0.29	U	0.064	U	0.062	U	0.061	U	0.063	U
n-Nitrosodiphenylamine	470	1.34		mg/kg	0.099		0.044	U	0.044	U	0.44	U	0.041	J	0.23	U	1.5		0.044	U	0.21	U	0.047	U	0.045	U	0.045	U	0.046	U
Pentachlorophenol	4	0.00114	0.028	mg/kg	0.2	U	0.2	U	0.2	U	2	U	0.21	U	1	U	0.2	U	0.2	U	0.97	U	0.21	U	0.21	U	0.2	U	0.21	U
Phenanthrene				mg/kg	1.4		0.011	J	0.0078	J	1.6		0.021	U	0.03	J	1.2		0.02	U	0.11		0.13	J	0.021	UJ	0.02	U	0.061	
Phenol	250000	66		mg/kg	0.043	U	0.044	U	0.044	U	0.44	U	0.047	U	0.23	U	0.044	U	0.044	U	0.21	U	0.047	U	0.045	U	0.045	U	0.046	U
Pyrene	23000	260		mg/kg	2.2		0.012	J	0.0096	J	1.7		0.0082	J	0.037	J	0.37		0.02	U	0.092	J	0.077	J	0.021	UJ	0.0055	J	0.045	

Notes:
Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), Industrial Soil Screening Level (SSL) (November 2021)
Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20
Exceeds the EPA RSL, Maximum Contaminant Level (MCL) SSL assuming a DAF of 20
Blanks indicate RSL not established or constituent not analyzed
RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0
U = undetected
J = estimated value
J+ = estimated biased high
J- = estimated biased low
R = rejected
MG/KG - milligram per kilogram
SWMU = Solid Waste Management Unit
RCRA = Resource Conservation and Recovery Act
Sample depth shown in Sample ID (e.g., SBBF3-04_6-8 indicates 6 to 8-foot sample)
DUP = Duplicate sample
Exceedances shown may exceed one or more criteria if available

Table 17. BF3 Operating Area Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date				SBBF3-42 SBBF3-42_7-9 3/24/2021		SBBF3-43 SBBF3-43_0-2 3/4/2021		SBBF3-43 SBBF3-43_8-10 3/4/2021		SBBF3-43 SBBF3-43_8-10-DUP 3/4/2021		SBBF3-44 SBBF3-44_0-2 3/3/2021		SBBF3-44 SBBF3-44_8-10 3/3/2021		SBBF3-45 SBBF3-45_0-2 3/3/2021		SBBF3-45 SBBF3-45_8-10 3/3/2021		SBBF3-46 SBBF3-46_0-2 3/1/2021		SBBF3-46 SBBF3-46_8-10 3/1/2021		SBBF3-47 SBBF3-47_7.5-9.5 3/1/2021	
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Caprolactam	400000	50		mg/kg	0.21	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U	0.21	U	0.2	U	0.2	U
Carbazole				mg/kg	0.045	U	0.043	U	0.043	U	0.044	U	0.044	U	0.043	U	0.045	U	0.074	U	0.053	U	0.045	U	0.045	U
Chrysene	2100	180		mg/kg	0.021	U	0.14	U	0.02	U	0.02	U	0.048	U	0.02	U	0.18	U	0.02	U	0.36	U	0.19	U	0.02	U
Dibenzo(a,h)Anthracene	2.1	1.92		mg/kg	0.021	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.026	U	0.02	U	0.059	U	0.021	U	0.02	U
Dibenzofuran	1200	3		mg/kg	0.045	U	0.043	U	0.043	U	0.044	U	0.044	U	0.043	U	0.045	U	0.13	U	0.043	J	0.045	U	0.045	U
Diethyl Phthalate	660000	122		mg/kg	0.21	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U	0.21	U	0.2	U
Dimethyl Phthalate				mg/kg	0.21	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U	0.21	U	0.2	U
Di-n-Butyl Phthalate	82000	46		mg/kg	0.21	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U	0.21	U	0.2	U
Di-n-Octyl Phthalate	8200	1140		mg/kg	0.21	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U	0.21	U	0.2	U
Fluoranthene	30000	1780		mg/kg	0.021	U	0.23	U	0.02	U	0.02	U	0.079	J	0.0063	J	0.37	U	0.02	U	0.69	U	0.26	U	0.02	U
Fluorene	30000	108		mg/kg	0.021	U	0.02	U	0.02	U	0.02	U	0.013	J	0.02	U	0.019	U	0.02	U	0.041	U	0.023	U	0.02	U
Hexachlorobenzene	0.96	0.0024	0.26	mg/kg	0.021	U	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U	0.019	U	0.02	U	0.064	U	0.021	U	0.02	U
Hexachlorobutadiene	5.3	0.0054		mg/kg	0.062	U	0.059	U	0.059	U	0.06	U	0.061	U	0.06	U	0.058	U	0.061	U	0.06	U	0.063	U	0.061	U
Hexachlorocyclopentadiene	7.5	0.026	3.2	mg/kg	0.62	U	0.59	U	0.59	U	0.6	U	0.61	U	0.6	U	0.58	U	0.61	U	0.6	U	0.63	U	0.61	U
Hexachloroethane	8	0.004		mg/kg	0.21	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U	0.2	U	0.21	U	0.2	U
Indeno(1,2,3-Cd)Pyrene	21	19.6		mg/kg	0.021	U	0.059	U	0.02	U	0.02	U	0.016	J	0.02	U	0.11	U	0.02	U	0.18	U	0.091	U	0.02	U
Isophorone	2400	0.52		mg/kg	0.083	U	0.079	U	0.078	U	0.08	U	0.081	U	0.08	U	0.078	U	0.082	U	0.08	U	0.084	U	0.082	U
Naphthalene	8.6	0.0076		mg/kg	0.021	U	0.054	U	0.02	U	0.0081	J	0.076	U	0.02	U	0.016	J	0.02	U	0.29	U	0.19	U	0.02	U
Nitrobenzene	22	0.00184		mg/kg	0.045	U	0.043	U	0.043	U	0.044	U	0.044	U	0.044	U	0.043	U	0.045	U	0.044	U	0.046	U	0.045	U
n-Nitroso-di-n-Propylamine	0.33	0.000162		mg/kg	0.062	U	0.059	U	0.059	U	0.06	U	0.061	U	0.06	U	0.058	U	0.061	U	0.06	U	0.063	U	0.061	U
n-Nitrosodiphenylamine	470	1.34		mg/kg	0.045	U	0.043	U	0.043	U	0.044	U	0.044	U	0.044	U	0.043	U	0.045	U	0.069	U	0.046	U	0.045	U
Pentachlorophenol	4	0.00114	0.028	mg/kg	0.21	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U	0.21	U	0.2	U
Phenanthrene				mg/kg	0.021	U	0.15	U	0.02	U	0.02	U	0.11	U	0.0081	J	0.17	U	0.0084	J	0.48	U	0.18	U	0.02	U
Phenol	250000	66		mg/kg	0.045	U	0.043	U	0.043	U	0.044	U	0.044	U	0.044	U	0.043	U	0.045	U	0.044	U	0.046	U	0.045	U
Pyrene	23000	260		mg/kg	0.021	U	0.18	U	0.02	U	0.02	U	0.053	U	0.0052	J	0.32	U	0.02	U	0.45	U	0.21	U	0.02	U

Notes:
 Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), Industrial Soil Screening Level (SSL) (November 2021)
 Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20
 Exceeds the EPA RSL, Maximum Contaminant Level (MCL) SSL assuming a DAF of 20
 Blanks indicate RSL not established or constituent not analyzed
 RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0
 U = undetected
 J = estimated value
 J+ = estimated biased high
 J- = estimated biased low
 R = rejected
 MG/KG - milligram per kilogram
 SWMU = Solid Waste Management Unit
 RCRA = Resource Conservation and Recovery Act
 Sample depth shown in Sample ID (e.g., SBBF3-04_6-8 indicates 6 to 8-foot sample)
 DUP = Duplicate sample
 Exceedances shown may exceed one or more criteria if available

Table 18. Waste Storage Area Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date			Units	SBWS-01 SBWS-01_0-2 7/8/2021		SBWS-01 SBWS-01_6-8 7/8/2021		SBWS-02 SBWS-02_0-2 7/8/2021		SBWS-02 SBWS-02_6-8 7/8/2021		SBWS-03 SBWS-03_0-2 7/8/2021		SBWS-03 SBWS-03A_0-2 8/2/2021		SBWS-03 SBWS-03B_0-2 8/3/2021		SBWS-03 SBWS-03A_4-6 8/2/2021		SBWS-03 SBWS-03B_4.5-6.5 8/3/2021		SBWS-03 SBWS-03_6-8 7/8/2021		SBWS-04 SBWS-04_0-2 7/9/2021		SBWS-04 SBWS-04_6-8 7/9/2021		
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20		Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result
Metals																													
Aluminum	1100000	600000		mg/kg	16000		17000		18000		21000		4500		11000		9100		18000		9600		31000		12000		28000		
Antimony	470	7	5.4	mg/kg	4.5	U	5	U	1.9	J	5.3	UJ	1.8	J	1.8	J	5	U	5.1	U	5.7	U	4.8	U	6.2	U	4.2	U	
Arsenic	3	0.03	5.8	mg/kg	2.4	J	6.3		220		3.4	J	19		42		22		5.5		24		2.3	J	46		4.4		
Barium	220000	3200	1640	mg/kg	48		42		96		60	J+	91		210		530		68		250		110		180		89		
Beryllium	2300	380	64	mg/kg	0.45	U	0.5	U	0.43	U	0.53	U	0.44	U	0.33	J	0.42	J	0.57		0.32	J	0.55		0.51	U	0.12	J	
Cadmium	100	2.8	7.6	mg/kg	0.45	U	0.5	U	0.43	U	0.53	U	0.21	J	0.61		0.5	U	0.51	U	0.57	U	0.48	U	0.85		0.58		
Calcium				mg/kg	1100		290		1600		350		8100		40000		990		670		670		380		2200		730		
Chromium			3600000	mg/kg	23		17		28		22		8.3		29		13		29		12		27		34		39		
Cobalt	350	5.4		mg/kg	2.9		5.7		6.4		8.9		2.6		6.9		3.5		4.3		4.6		10		3.1		6.5		
Copper	47000	560	920	mg/kg	13		7.6		20		9.8		31		49		45		9.6		40		13		41		6.6		
Iron	820000	7000		mg/kg	12000		17000		35000		25000		13000		26000		20000		23000		12000		22000		22000		36000		
Lead	800		280	mg/kg	14		8.7		60		9.9		92		210		60		9.7		110		16		200		14		
Magnesium				mg/kg	1800		2300		2400		2900		730		9000		1500		2800		1100		3600		1900		3300		
Manganese	26000	560		mg/kg	61		110		150		110		71		180		84		92		92		160		79		120		
Nickel	22000	520		mg/kg	9.4		16		15		21		6.1		19		9.5		12		6.8		28		10		19		
Potassium				mg/kg	1000		1100		1300		1200	J+	510		2900		940		1700		680		1600		1400		1600		
Selenium	5800	10.4	5.2	mg/kg	4.5	U	5	U	4.3	U	5.3	UJ	1.7	J	4.6	U	5	U	5.1	U	5.7	U	4.8	U	5.1	U	4.2	U	
Silver	5800	16		mg/kg	0.89	U	0.99	U	0.87	U	1.1	U	0.89	U	0.92	U	1	U	1	U	1	J	0.96	U	1	U	0.85	U	
Sodium				mg/kg	57	J	270		530		870	J	710		170		91	J	630		78	J	720		160		140		
Thallium	12	0.28	2.8	mg/kg	2.7	U	3	U	1.4	J	3.2	U	2.7	U	2.8	U	3	U	3	U	3.4	U	1.6	J	3.1	U	1.4	J	
Vanadium	5800	1720		mg/kg	30		21		38		28		17		30		18		40		15		40		30		47		
Zinc	350000	7400		mg/kg	25		38		59		48		64		110		35		33		32		67		71		45		
Mercury	46	0.66	2	mg/kg	0.034	J	0.069	U	0.14		0.066	U	0.72		0.8		0.068	J	0.068	U	0.07		0.041	J	3.4		0.073	U	
Pesticides																													
4,4'-DDD	9.6	0.15		mg/kg	0.093		0.0034	J	530		0.022		0.16		4.2		0.057		2.3		0.039		0.0078	U	4000		0.029		
4,4'-DDE	9.3	0.22		mg/kg	0.028		0.012		160		0.073		2.6		88		0.087		4.2		0.067		0.0048	J+	330		0.012		
4,4'-DDT	8.5	1.54		mg/kg	0.23		0.0077	U	870		0.016		0.02		10		0.17		19		0.075		0.0078	U	6000	J+	0.097		
Aldrin	0.18	0.003		mg/kg	0.0079	U	0.0077	U	0.041	U	0.0077	U	0.0084	U	0.036	U	0.0086	U	0.0078	U	0.0078	U	0.0078	U	0.039	U	0.008	U	
Alpha-BHC	0.36	0.00084		mg/kg	0.0079	U	0.0028	J	0.57		0.0077	U	0.0084	U	1		0.036		5.1		0.023		0.0038	J	1.5		0.008	U	
Beta-BHC	1.3	0.003		mg/kg	0.0062	J	0.0077	U	0.041	U	0.0077	U	0.0084	U	0.55		0.0086	U	0.39		0.0078	U	0.015		0.039	U	0.008	U	
cis-Chlordane	500	9.8		mg/kg	0.0079	U	0.0077	U	0.041	U	0.0077	U	0.0084	U	0.036	U	0.0086	U	0.0078	U	0.0078	U	0.0078	U	0.039	U	0.008	U	
Delta-BHC				mg/kg	0.0079	U	0.0077	U	0.041	U	0.0077	U	0.0084	U	0.036	U	0.0086	U	0.0078	U	0.0078	U	0.0078	U	0.039	U	0.008	U	
Dieldrin	0.14	0.00142		mg/kg	0.0079	U	0.0077	U	0.041	U	0.0077	U	0.0084	U	0.036	U	0.0086	U	0.0078	U	0.0078	U	0.0078	U	0.039	U	0.008	U	
Endosulfan I				mg/kg	0.0079	U	0.0077	U	0.041	U	0.0077	U	0.0084	U	0.036	U	0.0086	U	0.0078	U	0.0078	U	0.0078	U	0.039	U	0.008	U	
Endosulfan II				mg/kg	0.0079	U	0.0077	U	0.041	U	0.0077	U	0.0084	U	0.036	U	0.0086	U	0.0078	U	0.0078	U	0.0078	U	0.039	U	0.008	U	
Endosulfan Sulfate	4900	42		mg/kg	0.0079	U	0.0077	U	0.041	U	0.0077	U	0.0084	U	0.036	U	0.0086	U	0.0078	U	0.0078	U	0.0078	U	0.039	U	0.008	U	
Endrin	250	1.84	1.62	mg/kg	0.0079	U	0.0077	U	0.041	U	0.0077	U	0.0084	U	0.036	U	0.0086	U	0.0078	U	0.0078	U	0.0078	U	0.039	U	0.008	U	
Endrin Aldehyde				mg/kg	0.0079	U	0.0077	U	0.041	U	0.0077	U	0.0084	U	0.036	U	0.0086	U	0.0078	U	0.0078	U	0.0078	U	0.039	U	0.008	U	
Endrin Ketone				mg/kg	0.0079	U	0.0077	U	0.041	U	0.0077	U	0.0084	U	0.036	U	0.0086	U	0.0078	U	0.0078	U	0.0078	U	0.039	U	0.008	U	
Gamma-BHC (Lindane)	2.5	0.0048	0.024	mg/kg	0.0079	U	0.0077	U	0.041	U	0.0077	U	0.0084	U	0.036	U	0.0086	U	0.078		0.0078	U	0.0078	U	0.039	U	0.008	U	
Heptachlor	0.63	0.0024	0.66	mg/kg	0.0079	U	0.0077	U	0.041	U	0.0077	U	0.0084	U	0.036	U	0.0086	U	0.0078	U	0.0078	U	0.0078	U	0.039	U	0.008	U	
Heptachlor Epoxide	0.33	0.00056	0.082	mg/kg	0.0079	U	0.0077	U	0.041	U	0.0077	U	0.0084	U	0.036	U	0.0086	U	0.0078	U	0.0078	U	0.0078	U	0.039	U	0.008	U	
Methoxychlor	4100	40	44	mg/kg	0.015	U	0.015	U	0.079	U	0.015	U	0.016	U	0.071	U	0.017	U	0.015	U	0.015	U	0.015	U	0.076	U	0.015	U	
Toxaphene	2.1	0.22	9.2	mg/kg	0.2	U	0.2	U	1	U	0.2	U	0.21	U	0.93	U	0.22	U	0.2	U	0.2	U	0.2	U	0.99	U	0.2	U	
trans-Chlordane	500	28		mg/kg	0.0079	U	0.0077	U	0.041	U	0.0077	U	0.0084	U	0.036	U	0.0086	U	0.0078	U	0.0078	U	0.0078	U	0.039	U	0.008	U	
Volatile Organic Compounds																													
1,1,1-Trichloroethane	36000	56	1.4	mg/kg	0.0043	U	0.25	U	0.0056	U	0.0049	U	4.1	U	1.4	U	0.0061	U	2.6	U	0.27	U	0.27	U	0.29	U	0.28	U	
1,1,2,2-Tetrachloroethane	2.7	0.0006		mg/kg	0.0043	U	0.25	U	0.0031	J	0.0049	U	4.1	U	1.4	U	0.0061	U	2.6	U	0.27	U	0.27	U	0.29	U	0.28	U	
1,1,2-Trichloro-1,2,2-Trifluoroethane	28000	520		mg/kg	0.0086	U	0.51	U	0.012		0.0098	U	8.2	U	2.8	U	0.012	U	5.2	U	0.55	U	0.55	U	0.59	U	0.57	U	
1,1,2-Trichloroethane	5	0.00178	0.032																										

Table 18. Waste Storage Area Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date			Units	SBWS-01 SBWS-01_0-2 7/8/2021		SBWS-01 SBWS-01_6-8 7/8/2021		SBWS-02 SBWS-02_0-2 7/8/2021		SBWS-02 SBWS-02_6-8 7/8/2021		SBWS-03 SBWS-03_0-2 7/8/2021		SBWS-03 SBWS-03A_0-2 8/2/2021		SBWS-03 SBWS-03B_0-2 8/3/2021		SBWS-03 SBWS-03A_4-6 8/2/2021		SBWS-03 SBWS-03B_4.5-6.5 8/3/2021		SBWS-03 SBWS-03_6-8 7/8/2021		SBWS-04 SBWS-04_0-2 7/9/2021		SBWS-04 SBWS-04_6-8 7/9/2021	
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20		Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Dibromochloromethane	39	0.0046	0.42	mg/kg	0.0043	U	0.25	U	0.0056	U	0.0049	U	4.1	U	1.4	U	0.0061	U	2.6	U	0.27	U	0.29	U	0.29	U	0.28	U
Dichlorodifluoromethane	370	6		mg/kg	0.0043	U	0.25	U	0.0056	U	0.0049	U	4.1	U	1.4	U	0.0061	U	2.6	U	0.27	U	0.27	U	0.29	U	0.28	U
Diethyl Ether	230000	17.6		mg/kg	0.0043	U	0.25	U	0.0056	U	0.0092	U	4.1	U	1.4	U	0.0061	U	2.6	U	0.27	U	0.27	U	0.1	J	0.28	U
Ethylbenzene	25	0.034	15.6	mg/kg	0.0043	U	0.25	U	0.0056	U	0.0049	UJ	4.1	U	1.4	U	0.0061	U	2.6	U	0.27	U	0.27	U	0.29	U	0.28	U
Isopropylbenzene	9900	14.8		mg/kg	0.0043	U	0.25	U	0.0056	U	0.0049	UJ	4.1	U	1.4	U	0.0061	U	2.6	U	0.27	U	0.27	U	0.29	U	0.28	U
m&p-Xylenes				mg/kg	0.0043	U	0.25	U	0.0056	U	0.0049	UJ	4.1	U	0.28	J	0.0061	U	2.6	U	0.27	U	0.27	U	0.062	J	0.28	U
Methyl Acetate	1200000	82		mg/kg	0.0043	U	0.25	U	0.0056	U	0.0049	U	4.1	U	1.4	U	0.0061	U	2.6	U	0.27	U	0.27	U	0.078	J	0.28	U
Methyl Tert-Butyl Ether	210	0.064		mg/kg	0.0043	U	0.25	U	0.0056	U	0.0049	U	4.1	U	1.4	U	0.0061	UJ	2.6	U	0.27	U	0.27	U	0.29	U	0.28	U
Methylcyclohexane				mg/kg	0.0043	UJ	0.25	U	0.0056	U	0.0049	U	4.1	U	0.23	J	0.0061	U	2.6	U	0.27	U	0.27	U	0.29	U	0.28	U
Methylene Chloride	1000	0.058	0.026	mg/kg	0.0043	U	0.25	U	0.007	U	0.0024	J	4.1	U	1.4	U	0.0061	U	2.6	U	0.27	U	0.27	U	0.29	U	0.28	U
o-Xylene	2800	3.8		mg/kg	0.0043	U	0.25	U	0.0056	U	0.0049	UJ	4.1	U	0.17	J	0.0061	U	2.6	U	0.27	U	0.27	U	0.29	U	0.28	U
Styrene	35000	26	2.2	mg/kg	0.0043	U	0.25	U	0.0056	U	0.0049	UJ	4.1	U	1.4	U	0.0061	U	2.6	U	0.27	U	0.27	U	0.29	U	0.28	U
Tetrachloroethene	100	0.102	0.046	mg/kg	0.0043	U	0.25	U	0.0015	J	0.0049	UJ	4.1	U	0.18	J	0.0061	U	2.6	U	0.27	U	0.27	U	0.048	J	0.28	U
Toluene	47000	15.2	13.8	mg/kg	0.0043	U	0.25	U	0.0056	U	0.0049	UJ	4.1	U	1.4	U	0.0061	U	2.6	U	0.27	U	0.27	U	0.29	U	0.28	U
Total Xylenes	2500	3.8	198	mg/kg	0.0086	U	0.51	U	0.011	U	0.0098	UJ	8.2	U	0.45	J	0.012	U	5.2	U	0.55	U	0.59	U	0.59	U	0.57	U
trans-1,2-Dichloroethene	300	0.42	0.62	mg/kg	0.0043	U	0.25	U	0.0056	U	0.0049	U	4.1	U	1.4	U	0.0061	U	2.6	U	0.27	U	0.27	U	0.29	U	0.28	U
trans-1,3-Dichloropropene				mg/kg	0.0043	U	0.25	U	0.0056	U	0.0049	U	4.1	U	1.4	U	0.0061	U	2.6	U	0.27	U	0.27	U	0.29	U	0.28	U
Trichloroethene	6	0.0036	0.036	mg/kg	0.0043	U	0.25	U	0.0021	J	0.0049	U	4.1	U	1.4	U	0.0061	U	2.6	U	0.27	U	0.27	U	0.17	J	0.28	U
Trichlorofluoromethane	350000	66		mg/kg	0.0043	U	0.25	U	0.0056	U	0.0049	U	4.1	U	1.4	U	0.0061	U	2.6	U	0.27	U	0.27	U	0.29	U	0.28	U
Vinyl Chloride	1.7	0.00013	0.0138	mg/kg	0.0043	U	0.25	U	0.0056	U	0.0049	U	4.1	U	1.4	U	0.0061	U	2.6	U	0.27	U	0.27	U	0.29	U	0.28	U
Semi-Volatile Organic Compounds																												
1,1'-Biphenyl	200	0.174		mg/kg	0.043	U	0.043	U	0.044	U	0.043	U	0.17	U	0.43	U	0.047	U	0.078	U	0.043	U	0.043	U	0.22	U	0.045	U
1,2,4,5-Tetrachlorobenzene	35	0.0158		mg/kg	0.043	U	0.043	U	0.044	U	0.043	U	0.047	U	0.04	U	0.047	U	0.042	U	0.043	U	0.043	U	0.22	U	0.045	U
2,2'-Oxybis(1-Chloropropane)	47000	5.2		mg/kg	0.051	U	0.051	U	0.053	U	0.05	U	0.056	U	0.047	U	0.056	U	0.05	U	0.051	U	0.051	U	0.26	U	0.053	U
2,3,4,6-Tetrachlorophenol	25000	3.6		mg/kg	0.2	U	0.2	U	0.2	U	0.19	U	0.22	U	0.18	U	0.21	U	0.19	U	0.19	U	0.19	U	0.98	U	0.2	U
2,4,5-Trichlorophenol	82000	80		mg/kg	0.043	U	0.043	U	0.044	U	0.043	U	0.047	U	0.04	U	0.047	U	0.042	U	0.043	U	0.043	U	0.22	U	0.045	U
2,4,6-Trichlorophenol	210	0.08		mg/kg	0.043	U	0.043	U	0.044	U	0.043	U	0.047	U	0.04	U	0.047	U	0.042	U	0.043	U	0.043	U	0.22	U	0.045	U
2,4-Dichlorophenol	2500	0.46		mg/kg	0.051	U	0.051	U	0.053	U	0.05	U	0.056	U	0.047	U	0.056	U	0.05	U	0.051	U	0.051	U	0.26	U	0.053	U
2,4-Dimethylphenol	16000	8.4		mg/kg	0.043	U	0.043	U	0.044	U	0.043	U	0.047	U	0.04	U	0.047	U	0.042	U	0.043	U	0.043	U	0.22	U	0.045	U
2,4-Dinitrophenol	1600	0.88		mg/kg	1.2	UJ	1.2	UJ	1.2	UJ	1.2	UJ	1.3	UJ	1.1	U	1.3	U	1.2	U	1.2	U	1.2	UJ	5.9	UJ	1.2	U
2,4-Dinitrotoluene	7.4	0.0064		mg/kg	0.2	U	0.2	U	0.2	U	0.19	U	0.22	U	0.18	U	0.21	U	0.19	U	0.19	U	0.19	U	0.98	U	0.2	U
2,6-Dinitrotoluene	1.5	0.00134		mg/kg	0.043	U	0.043	U	0.044	U	0.043	U	0.047	U	0.04	U	0.047	U	0.042	U	0.043	U	0.043	U	0.22	U	0.045	U
2-Chloronaphthalene	60000	78		mg/kg	0.039	U	0.039	U	0.04	U	0.039	U	0.043	U	0.036	U	0.043	U	0.039	U	0.039	U	0.039	U	0.2	U	0.041	U
2-Chlorophenol	5800	1.78		mg/kg	0.043	U	0.12	U	0.044	U	0.043	U	0.39	U	1.1	U	0.047	U	0.1	U	0.043	U	0.039	U	0.072	U	0.045	U
2-Methylnaphthalene	3000	3.8		mg/kg	0.02	U	0.02	U	0.09	U	0.019	U	1.1	U	1.9	U	0.079	U	0.29	U	0.07	U	0.019	U	0.25	U	0.02	U
2-Methylphenol	41000	15		mg/kg	0.059	U	0.059	U	0.061	U	0.058	U	0.065	U	0.054	U	0.064	U	0.058	U	0.058	U	0.058	U	0.3	U	0.061	U
2-Nitroaniline	8000	1.6		mg/kg	0.059	U	0.059	U	0.061	U	0.058	U	0.065	U	0.054	U	0.064	U	0.058	U	0.058	U	0.058	U	0.3	U	0.061	U
2-Nitrophenol				mg/kg	0.059	U	0.059	U	0.061	U	0.058	U	0.065	U	0.054	U	0.064	U	0.058	U	0.058	U	0.058	U	1	U	0.061	U
3,3'-Dichlorobenzidine	5.1	0.0164		mg/kg	0.2	U	0.2	U	0.2	U	0.19	UJ	0.22	U	0.18	U	0.21	U	0.19	U	0.19	U	0.19	U	0.98	U	0.2	U
3-Nitroaniline				mg/kg	0.2	U	0.2	U	0.2	U	0.19	U	0.22	U	0.18	U	0.21	U	0.19	U	0.19	U	0.19	U	0.98	U	0.2	U
4,6-Dinitro-2-Methylphenol	66	0.052		mg/kg	0.59	U	0.59	U	0.61	U	0.58	U	0.65	U	0.54	U	0.64	U	0.58	U	0.58	U	0.58	U	3	U	0.61	U
4-Bromophenyl Phenyl Ether				mg/kg	0.043	U	0.043	U	0.044	U	0.043	U	0.047	U	0.04	U	0.047	U	0.042	U	0.043	U	0.043	U	0.22	U	0.045	U
4-Chloro-3-Methylphenol	82000	34		mg/kg	0.059	U	0.059	U	0.061	U	0.058	U	0.065	U	0.054	U	0.064	U	0.058	U	0.058	U	0.058	U	0.3	U	0.061	U
4-Chloroaniline	11	0.0032		mg/kg	0.2	U	0.2	U	0.2	U	0.19	UJ	0.22	U	0.18	U	0.21	U	0.19	U	0.19	U	0.19	U	0.98	U	0.2	U
4-Chlorophenyl Phenyl Ether				mg/kg	0.043	U	0.043	U	0.044	U	0.043	U	0.047	U	0.04	U	0.047	U	0.042	U	0.043	U	0.043	U	0.22	U	0.045	U
4-Methylphenol	16000	6		mg/kg	0.059	U	0.059	U	0.061	U	0.058	U	0.065	U	0.054	U	0.064	U	0.058	U	0.058	U	0.058	U	0.3	U	0.061	U
4-Nitroaniline	110	0.032		mg/kg	0.2	U	0.2	U	0.2	U	0.19	U	0.22	U	0.18	U	0.21	U	0.19	U	0.19	U	0.19	U	0.98	U	0.2	U
4-Nitrophenol				mg/kg	0.59	U	0.59	U	0.61	U	0.58	U	0.65	U	0.54	U	0.64	UJ	0.58	U	0.58	UJ	0.58	U	3	U	0.61	U
Acenaphthene	45000	110		mg/kg	0.02	U	0.02	U	0.0091	J	0.019	U	0.15	U	0.76	U	0.021	U	0.43	U	0.019	U	0.019	U	0.098	U	0.02	U
Acenaphthylene				mg/kg	0.02	U	0.02	U	0.019	J	0.019	U	0.17	U	0.25	U	0.045	U	0.035	U	0.027	U	0.019	U	0.027	J	0.02	U
Acetophenone	120000	11.6		mg/kg	0.059	U	0.059	U	0.061	U	0.058	U	0.065	U	0.054	U	0.064	U	0.058	U	0.058	U	0.058	U	0.3	U	0.061	U
Anthracene	230000	1160		mg/kg	0.02																							

Table 18. Waste Storage Area Soil Analytical Results
RCRA Facility Investigation Report
Honeywell Delaware Valley Works
Claymont, Delaware
Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date			Units	SBWS-01 SBWS-01_0-2 7/8/2021		SBWS-01 SBWS-01_6-8 7/8/2021		SBWS-02 SBWS-02_0-2 7/8/2021		SBWS-02 SBWS-02_6-8 7/8/2021		SBWS-03 SBWS-03_0-2 7/8/2021		SBWS-03 SBWS-03A_0-2 8/2/2021		SBWS-03 SBWS-03B_0-2 8/3/2021		SBWS-03 SBWS-03A_4-6 8/2/2021		SBWS-03 SBWS-03B_4.5-6.5 8/3/2021		SBWS-03 SBWS-03_6-8 7/8/2021		SBWS-04 SBWS-04_0-2 7/9/2021		SBWS-04 SBWS-04_6-8 7/9/2021			
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20		Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Nitrobenzene	22	0.00184		mg/kg	0.043	U	0.043	U	0.044	U	0.043	U	0.047	U	0.04	U	0.047	U	0.042	U	0.043	U	0.043	U	0.043	U	0.22	U	0.045	U
n-Nitroso-di-n-Propylamine	0.33	0.000162		mg/kg	0.079	U	0.079	U	0.081	U	0.078	U	0.086	U	0.072	U	0.086	U	0.077	U	0.078	U	0.078	U	0.078	U	0.39	U	0.082	U
n-Nitrosodiphenylamine	470	1.34		mg/kg	0.043	U	0.043	U	0.044	U	0.043	U	0.047	U	0.04	U	0.047	U	0.042	U	0.043	U	0.043	U	0.043	U	0.22	U	0.045	U
Pentachlorophenol	4	0.00114	0.028	mg/kg	0.2	U	0.2	U	0.1	J	0.19	U	0.22	U	0.18	U	0.21	U	0.19	U	0.19	U	0.19	U	0.19	U	0.98	U	0.2	U
Phenanthrene				mg/kg	0.02	U	0.02	U	0.11		0.019	U	2.4		7		0.11		1.9		0.092		0.0047	J	0.6		0.02	U		
Phenol	250000	66		mg/kg	0.043	U	0.043	U	0.044	U	0.043	U	0.047	U	0.04	U	0.047	U	0.042	U	0.043	U	0.043	U	0.043	U	0.22	U	0.045	U
Pyrene	23000	260		mg/kg	0.02	U	0.02	U	0.2		0.019	U	1.8		3		0.18		0.7		0.088		0.019	U	0.098	U	0.02	U		

Notes:

Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), Industrial Soil Screening Level (SSL) (November 2021)

Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20

Exceeds the EPA RSL, Maximum Contaminant Level (MCL) SSL assuming a DAF of 20

Blanks indicate RSL not established or constituent not analyzed

RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0

U = undetected

J = estimated value

J+ = estimated biased high

J- = estimated biased low

R = rejected

MG/KG - milligram per kilogram

SWMU = Solid Waste Management Unit

RCRA = Resource Conservation and Recovery Act

Sample depth shown in Sample ID (e.g., SBBF3-04_6-8 indicates 6 to 8-foot sample)

DUP = Duplicate sample

Exceedances shown may exceed one or more criteria if available

Table 18. Waste Storage Area Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date			Units	SBWS-05 SBWS-05_0-2 7/8/2021		SBWS-05 SBWS-05_6-8 7/8/2021		SBWS-05 SBWS-05_6-8-DUP 7/8/2021		SBWS-06 SBWS-06_0-2 7/9/2021		SBWS-06 SBWS-06A-0-2 7/28/2021		SBWS-06 SBWS-06B_0-2 7/28/2021		SBWS-06 SBWS-06C_0-2 7/28/2021		SBWS-06 SBWS-06D_0-2 7/28/2021		SBWS-06 SBWS-06E_0-2 7/28/2021		SBWS-06 SBWS-06F_0-2 8/2/2021		SBWS-06 SBWS-06H_0-2 7/28/2021			
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20		Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Dibromochloromethane	39	0.0046	0.42	mg/kg	0.0049	U	0.0051	U	0.0048	U	0.29	U	0.31	U	0.005	U	0.2	U	0.24	U	0.0047	U	0.3	U	0.46	U	0.0046	U
Dichlorodifluoromethane	370	6		mg/kg	0.0049	U	0.0051	U	0.0048	U	0.29	U	0.31	U	0.005	U	0.2	U	0.24	U	0.0047	U	0.3	U	0.46	U	0.0046	U
Diethyl Ether	230000	17.6		mg/kg	0.0049	U	0.0051	U	0.0048	U	0.29	U	0.31	U	0.005	U	0.2	U	0.24	U	0.0047	U	0.3	U	0.46	U	0.0046	U
Ethylbenzene	25	0.034	15.6	mg/kg	0.0049	U	0.0051	U	0.0048	U	0.19	J	0.096	J	0.005	U	0.2	U	0.24	U	0.0047	U	3.6		49		0.0046	U
Isopropylbenzene	9900	14.8		mg/kg	0.0049	U	0.0051	U	0.0048	U	0.047	J	0.31	U	0.005	U	0.2	U	0.24	U	0.0047	U	0.3	U	0.1	J	0.0046	U
m&p-Xylenes				mg/kg	0.0049	U	0.0051	U	0.0048	U	0.95	U	0.18	J	0.005	U	0.2	U	0.24	U	0.0047	U	4.1	U	100	U	0.0046	U
Methyl Acetate	1200000	82		mg/kg	0.0049	U	0.0051	J	0.0048	U	0.089	J	0.31	U	0.005	U	0.2	U	0.24	U	0.0047	U	0.3	U	0.29	J	0.0046	U
Methyl Tert-Butyl Ether	210	0.064		mg/kg	0.0049	U	0.0051	U	0.0048	U	0.29	U	0.31	U	0.005	U	0.2	U	0.24	U	0.0047	U	0.3	U	0.46	U	0.0046	U
Methylcyclohexane				mg/kg	0.0049	U	0.0051	U	0.0048	U	0.83	U	0.31	U	0.005	U	0.2	U	0.24	U	0.0047	U	0.037	J	0.46	U	0.0046	U
Methylene Chloride	1000	0.058	0.026	mg/kg	0.0049	U	0.0051	U	0.0048	U	0.29	U	0.31	U	0.005	U	0.2	U	0.24	U	0.0047	U	0.18	J	0.3	J	0.0046	U
o-Xylene	2800	3.8		mg/kg	0.0049	U	0.0051	U	0.0048	U	0.43	U	0.066	J	0.005	U	0.2	U	0.24	U	0.0047	U	1.9	U	23	U	0.0046	U
Styrene	35000	26	2.2	mg/kg	0.0049	U	0.0051	U	0.0048	U	0.29	U	0.31	U	0.005	U	0.2	U	0.24	U	0.0047	U	0.3	U	0.46	U	0.0046	U
Tetrachloroethene	100	0.102	0.046	mg/kg	0.0049	U	0.0051	U	0.0048	U	1.9	U	1.2	U	0.005	U	0.2	U	0.24	U	0.0047	U	6.9	U	42	U	0.0027	J
Toluene	47000	15.2	13.8	mg/kg	0.0049	U	0.0051	U	0.0048	U	1.2	U	0.063	J	0.005	U	0.2	U	0.24	U	0.0047	U	0.51	U	0.37	J	0.0046	U
Total Xylenes	2500	3.8	198	mg/kg	0.0099	U	0.01	U	0.0097	U	1.4	U	0.25	J	0.01	U	0.4	U	0.48	U	0.0094	U	6	U	120	U	0.0093	U
trans-1,2-Dichloroethene	300	0.42	0.62	mg/kg	0.0049	U	0.0051	U	0.0048	U	0.29	U	0.31	U	0.005	U	0.2	U	0.24	U	0.0047	U	0.075	J	0.097	J	0.0046	U
trans-1,3-Dichloropropene				mg/kg	0.0049	U	0.0051	U	0.0048	U	0.29	U	0.31	U	0.005	U	0.2	U	0.24	U	0.0047	U	0.3	U	0.46	U	0.0046	U
Trichloroethene	6	0.0036	0.036	mg/kg	0.0049	U	0.0051	U	0.0048	U	0.33	U	1.4	U	0.00065	J	0.2	U	0.11	J	0.0059	U	7.6	U	11	U	0.0025	J
Trichlorofluoromethane	350000	66		mg/kg	0.0049	U	0.0051	U	0.0048	U	0.29	U	0.31	U	0.005	U	0.2	U	0.24	U	0.0047	U	0.3	U	0.46	U	0.0046	U
Vinyl Chloride	1.7	0.00013	0.0138	mg/kg	0.0049	U	0.0051	U	0.0048	U	0.29	U	0.31	U	0.005	U	0.2	U	0.24	U	0.0047	U	0.042	J	0.26	J	0.0046	U
Semi-Volatile Organic Compounds																												
1,1'-Biphenyl	200	0.174		mg/kg	0.042	U	0.044	U	0.044	U	0.18	J	0.22	U	0.42	U	0.39	U	0.2	U	0.072	U	0.15	J	0.16	U	0.041	U
1,2,4,5-Tetrachlorobenzene	35	0.0158		mg/kg	0.042	U	0.044	U	0.044	U	0.67	U	0.22	U	0.42	U	0.36	J	0.2	U	0.033	J	0.21	U	0.58	U	0.075	U
2,2'-Oxybis(1-Chloropropane)	47000	5.2		mg/kg	0.049	U	0.052	U	0.052	U	0.25	U	0.26	U	0.5	U	0.46	U	0.24	U	0.05	U	0.24	U	0.056	U	0.049	U
2,3,4,6-Tetrachlorophenol	25000	3.6		mg/kg	0.19	U	0.2	U	0.2	U	0.97	U	1	U	1.9	U	1.8	U	0.92	U	0.19	U	0.94	U	0.22	U	0.19	U
2,4,5-Trichlorophenol	82000	80		mg/kg	0.042	U	0.044	U	0.044	U	0.68	U	0.22	U	0.42	U	0.39	U	0.68	U	0.34	U	0.21	U	0.49	U	0.087	U
2,4,6-Trichlorophenol	210	0.08		mg/kg	0.042	U	0.044	U	0.044	U	0.32	U	0.22	U	0.42	U	0.39	U	0.2	U	0.043	U	0.21	U	0.066	U	0.041	U
2,4-Dichlorophenol	2500	0.46		mg/kg	0.049	U	0.052	U	0.052	U	0.25	U	0.26	U	0.5	U	0.46	U	0.24	U	0.037	J	0.17	J	0.099	U	0.049	U
2,4-Dimethylphenol	16000	8.4		mg/kg	0.042	U	0.044	U	0.044	U	0.21	U	0.22	U	0.42	U	0.39	U	0.2	U	0.043	U	0.21	U	0.048	U	0.041	U
2,4-Dinitrophenol	1600	0.88		mg/kg	1.1	U	1.2	U	1.2	U	5.8	U	6.1	U	12	U	11	U	5.5	U	1.2	U	5.6	U	1.3	U	1.1	U
2,4-Dinitrotoluene	7.4	0.0064		mg/kg	0.19	U	0.2	U	0.2	U	0.53	J	1	U	1.9	U	1.8	U	0.45	J	0.19	U	0.94	U	0.11	J	0.19	U
2,6-Dinitrotoluene	1.5	0.00134		mg/kg	0.042	U	0.044	U	0.044	U	0.21	U	0.22	U	0.42	U	0.39	U	0.3	U	0.055	U	0.21	U	0.048	U	0.041	U
2-Chloronaphthalene	60000	78		mg/kg	0.038	U	0.04	U	0.04	U	0.19	U	0.2	U	0.39	U	0.35	U	0.18	U	0.039	U	0.19	U	0.043	U	0.037	U
2-Chlorophenol	5800	1.78		mg/kg	0.042	U	0.044	U	0.044	U	0.21	U	0.22	U	0.42	U	0.39	U	0.2	U	0.043	U	0.21	U	0.048	U	0.041	U
2-Methylnaphthalene	3000	3.8		mg/kg	0.019	U	0.02	U	0.02	U	0.6	U	0.23	U	0.27	U	0.16	J	0.13	U	0.13	U	0.35	U	0.35	U	0.045	U
2-Methylphenol	41000	15		mg/kg	0.057	U	0.061	U	0.06	U	0.29	U	0.3	U	0.58	U	0.53	U	0.28	U	0.058	U	0.28	U	0.065	U	0.056	U
2-Nitroaniline	8000	1.6		mg/kg	0.057	U	0.061	U	0.06	U	0.29	U	0.3	U	0.58	U	0.53	U	0.28	U	0.062	U	0.28	U	0.065	U	0.056	U
2-Nitrophenol				mg/kg	0.057	U	0.061	U	0.06	U	0.29	U	0.3	U	0.58	U	0.53	U	0.28	U	0.058	U	0.24	J	0.23	U	0.056	U
3,3'-Dichlorobenzidine	5.1	0.0164		mg/kg	0.19	U	0.2	U	0.2	U	0.97	U	1	U	1.9	U	1.8	U	0.92	U	0.19	U	0.94	U	0.22	U	0.19	U
3-Nitroaniline				mg/kg	0.19	U	0.2	U	0.2	U	0.97	U	1	U	1.9	U	1.8	U	0.92	U	0.19	U	0.94	U	0.13	J	0.19	U
4,6-Dinitro-2-Methylphenol	66	0.052		mg/kg	0.57	U	0.61	U	0.6	U	2.9	U	3	U	5.8	U	5.3	U	2.8	U	0.58	U	2.8	U	0.65	U	0.56	U
4-Bromophenyl Phenyl Ether				mg/kg	0.042	U	0.044	U	0.044	U	0.21	U	0.22	U	0.42	U	0.39	U	0.2	U	0.043	U	0.21	U	0.048	U	0.041	U
4-Chloro-3-Methylphenol	82000	34		mg/kg	0.057	U	0.061	U	0.06	U	0.29	U	0.3	U	0.58	U	0.53	U	0.28	U	0.058	U	0.28	U	0.065	U	0.056	U
4-Chloroaniline	11	0.0032		mg/kg	0.19	U	0.2	U	0.2	U	0.97	U	1	U	1.9	U	1.8	U	0.92	U	0.19	U	0.94	U	0.22	U	0.19	U
4-Chlorophenyl Phenyl Ether				mg/kg	0.042	U	0.044	U	0.044	U	0.21	U	0.22	U	0.42	U	0.39	U	0.2	U	0.043	U	0.21	U	0.048	U	0.041	U
4-Methylphenol	16000	6		mg/kg	0.057	U	0.061	U	0.06	U	0.29	U	0.3	U	0.58	U	0.53	U	0.28	U	0.058	U	0.28	U	0.065	U	0.056	U
4-Nitroaniline	110	0.032		mg/kg	0.19	U	0.2	U	0.2	U	0.97	U	1	U	1.9	U	1.8	U	0.92	U	0.19	U	0.94	U	0.22	U	0.19	U
4-Nitrophenol				mg/kg	0.57	U	0.61	U	0.6	U	2.9	U	3	U	5.8	U	5.3	U	2.8	U	0.58	U	1.3	J	1.6	U	0.56	U
Acenaphthene	45000	110		mg/kg	0.019	U	0.02	U	0.02	U	0.097	U	0.86	J	0.18	U	0.06	J	0.039	U	0.048	J	0.018	J	0.011	J	0.011	J
Acenaphthylene				mg/kg	0.019	U	0.02	U	0.02	U	0.097	U	0.23	U	0.19	U	0.18	U	0.044	J	0.023	U	0.053	J	0.044	U	0.0084	J
Acetophenone	120000	11.6		mg/kg	0.057	U	0.061	U	0.06	U	0.29	U	0.3	U	0.58	U	0.53	U	0.28	U	0.058	U	0.16	J	0.22	U	0.056	U
Anthracene	230000	1160		mg/kg	0.019	U	0.02	U	0.02	U	0.31	U	2.3	U	0.12	J	0.18	U	0.16	U	0.064	U	0.1	U	0.11			

Table 18. Waste Storage Area Soil Analytical Results
RCRA Facility Investigation Report
Honeywell Delaware Valley Works
Claymont, Delaware
Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date			Units	SBWS-05 SBWS-05_0-2 7/8/2021		SBWS-05 SBWS-05_6-8 7/8/2021		SBWS-05 SBWS-05_6-8-DUP 7/8/2021		SBWS-06 SBWS-06_0-2 7/9/2021		SBWS-06 SBWS-06A-0-2 7/28/2021		SBWS-06 SBWS-06B_0-2 7/28/2021		SBWS-06 SBWS-06C_0-2 7/28/2021		SBWS-06 SBWS-06D_0-2 7/28/2021		SBWS-06 SBWS-06E_0-2 7/28/2021		SBWS-06 SBWS-06F_0-2 7/28/2021		SBWS-06 SBWS-06G_0-2 8/2/2021		SBWS-06 SBWS-06H_0-2 7/28/2021		
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20		Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result
Nitrobenzene	22	0.00184		0.042	U	0.044	U	0.044	U	0.21	U	0.22	U	0.39	U	0.11	J	0.083		0.24		0.14		0.041	U				
n-Nitroso-di-n-Propylamine	0.33	0.000162		0.076	U	0.081	U	0.079	U	0.39	U	0.4	U	0.77	U	0.71	U	0.37	U	0.077	U	0.38	U	0.086	U	0.075	U		
n-Nitrosodiphenylamine	470	1.34		0.042	U	0.044	U	0.044	U	0.21	U	0.22	U	0.42	U	0.39	U	0.2	U	0.043	U	0.21	U	0.32	U	3.5			
Pentachlorophenol	4	0.00114	<i>0.028</i>	0.19	U	0.2	UJ	0.2	U	0.97	U	1	UJ	1.9	U	1.8	U	0.92	UJ	0.19	UJ	0.94	UJ	0.22	U	0.19	UJ		
Phenanthrene				0.019	U	0.02	U	0.02	U	1.2		8.7		0.54		0.076	J	0.28		0.59		0.45		0.14					
Phenol	250000	66		0.042	U	0.044	U	0.044	U	0.21	U	0.22	U	0.42	U	0.39	U	1.8	U	0.043	U	0.82		0.73		0.041	U		
Pyrene	23000	260		0.019	U	0.02	U	0.02	U	1.2		17		0.38		0.23		1		0.38		0.81		0.56		0.17			

Notes:

Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), Industrial Soil Screening Level (SSL) (November 2021)

Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20

Exceeds the EPA RSL, Maximum Contaminant Level (MCL) SSL assuming a DAF of 20

Blanks indicate RSL not established or constituent not analyzed

RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0

U = undetected

J = estimated value

J+ = estimated biased high

J- = estimated biased low

R = rejected

MG/KG - milligram per kilogram

SWMU = Solid Waste Management Unit

RCRA = Resource Conservation and Recovery Act

Sample depth shown in Sample ID (e.g., SBBF3-04_6-8 indicates 6 to 8-foot sample)

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Exceedances shown may exceed one or more criteria if available

Table 18. Waste Storage Area Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date			Units	SBWS-06 SBWS-06L 0-2 8/2/2021		SBWS-06 SBWS-06L 0-2 8/3/2021		SBWS-06 SBWS-06K 0-2 8/3/2021		SBWS-06 SBWS-06 2-4 7/9/2021		SBWS-06 SBWS-06L 2-4 8/2/2021		SBWS-06 SBWS-06C 3-5 7/28/2021		SBWS-06 SBWS-06L 4-6 8/2/2021		SBWS-06 SBWS-06A 5.5-7.5 7/28/2021		SBWS-06 SBWS-06A 5.5-7.5-DUP 7/28/2021		SBWS-06 SBWS-06 6-8 7/9/2021		SBWS-06 SBWS-06F 6-8 7/28/2021		SBWS-06 SBWS-06C 6.5-8.5 7/28/2021	
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20		Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Metals																												
Aluminum	1100000	600000		mg/kg	12000		14000		14000		15000		13000		19000		10000		3800		3800		140		1100		19000	
Antimony	470	7	5.4	mg/kg	15		3.4	J	7.1		5.1		5	U	3.8	J	6.2	U	4.7	U	4.3	U	4.9	U	5	U	28	U
Arsenic	3	0.03	5.8	mg/kg	17		7.2		110		13		11		28		22		9.9		11		3	U	3	U	17	U
Barium	220000	3200	1640	mg/kg	260		290		350		110		89		190		130		44	J	96	J	1		21		46	J
Beryllium	2300	380	64	mg/kg	0.57		0.46	J	0.8		0.48	U	0.51		0.43		0.39	J	0.47	U	0.43	U	0.49	U	0.5	U	2.8	U
Cadmium	100	2.8	7.6	mg/kg	2.4		5.9		5.1		1.3		0.34	J	0.64		0.62	U	0.1	J	0.17	J	0.49	U	0.5	U	2.8	U
Calcium				mg/kg	8900		38000		7200		2900		3800		2000		1400		890	J	8800	J	22	J	970		610	
Chromium			3600000	mg/kg	55		43		74		30		26		35		24		12		12		2.8		2.1		34	J
Cobalt	350	5.4		mg/kg	9.8		13		16		9.2		6.6		18		5.2		1.4		1.2		0.3	J	0.82		5.8	J
Copper	47000	560	920	mg/kg	100		97		290		150		84		580		64		13	J	20	J	3.1		5.6		14	
Iron	820000	7000		mg/kg	43000		36000		63000		69000		20000		53000		51000		41000	J	35000	J	1600		3000		29000	
Lead	800		280	mg/kg	270		120		480		190		170	J	590		130		54	J	140	J	2.4		16		3.5	J
Magnesium				mg/kg	4400		20000		2600		1500		1600		2200		1400		530	J	480	J	24		330		3300	J
Manganese	26000	560		mg/kg	240		300		480		290		64		170		180		36	J	32	J	11		38		150	J
Nickel	22000	520		mg/kg	23		37		40		23		22		13		14		2.4		2.5		1.6		2.8		13	
Potassium				mg/kg	2000		5200		1500		880		1600		1400		1000		4300	J	3800	J	120		100		1600	J
Selenium	5800	10.4	5.2	mg/kg	3.2	J	4.9	U	4.3	U	4.8	U	3	J	4.2	U	6.2	U	4.7	U	4.3	U	4.9	U	5	U	28	U
Silver	5800	16		mg/kg	1.7		0.45	J	0.95		0.6	J	1	U	2		1.2	U	0.94	U	0.86	U	0.99	U	1	U	5.5	U
Sodium				mg/kg	150		200		130		340		140		340		62	J	7800	J	6300	J	15000		9200		550	U
Thallium	12	0.28	2.8	mg/kg	2.6	U	3	U	2.6	U	1.6	J	3	U	1.5	J	3.7	U	2.8	U	1.6	J	3	U	3	U	17	U
Vanadium	5800	1720		mg/kg	43		53		41		46		35		47		34		18		18		0.67	J	2.7		53	J
Zinc	350000	7400		mg/kg	160		200		350		84		200		230		47		10		11		1.4	J	7.9		34	
Mercury	46	0.66	2	mg/kg	16		0.8		3.4		0.49		7.9		1.8		0.83		0.088		0.092		0.18		0.06	J	0.069	U
Pesticides																												
4,4'-DDD	9.6	0.15		mg/kg	380		410		1100		63		5.1		27		7.3		58	J	81	J	8700		200000		0.0081	
4,4'-DDE	9.3	0.22		mg/kg	40		1000		130		110		3.1		4.6		0.97		120		130		86000		37000		0.019	
4,4'-DDT	8.5	1.54		mg/kg	500		980		1400		75	J+	0.71		36		1.9		48		61		66000		140000		0.042	
Aldrin	0.18	0.003		mg/kg	0.014	U	0.036	U	0.039	U	0.078	U	0.016	U	0.04	U	0.017	U	0.085	U	0.042	U	0.084	U	0.84	U	0.008	U
Alpha-BHC	0.36	0.00084		mg/kg	42		1100		22		95		35		2100		0.085	UJ	1.3	J	20	J	0.84	U	4	J		
Beta-BHC	1.3	0.003		mg/kg	45		1000		38		12		77		3.8		68		0.085	U	0.042	U	0.84	U	0.46	J		
cis-Chlordane	500	9.8		mg/kg	0.014	U	0.036	U	0.039	U	0.078	U	0.016	U	0.04	U	0.017	U	0.085	U	0.042	U	0.084	U	0.84	U	0.008	U
Delta-BHC				mg/kg	0.014	U	1.5		0.039	U	7.2		0.56		1.9		160		0.085	U	0.042	U	0.084	U	0.84	U	1.1	
Dieldrin	0.14	0.00142		mg/kg	0.014	U	0.036	U	0.039	U	0.078	U	0.016	U	0.04	U	0.017	U	0.085	U	0.042	U	0.084	U	0.84	U	0.008	U
Endosulfan I				mg/kg	0.014	U	0.036	U	0.039	U	0.078	U	0.016	U	0.04	U	0.017	U	0.085	U	0.042	U	0.084	U	0.84	U	0.008	U
Endosulfan II				mg/kg	0.014	U	0.036	U	0.039	U	0.078	U	0.016	U	0.04	U	0.017	U	0.085	U	0.042	U	0.084	U	0.84	U	0.008	U
Endosulfan Sulfate	4900	42		mg/kg	0.014	U	0.036	U	0.039	U	0.078	U	0.016	U	0.04	U	0.017	U	0.085	U	0.042	U	0.084	U	0.84	U	0.008	U
Endrin	250	1.84	1.62	mg/kg	0.014	U	0.036	U	0.039	U	0.078	U	0.016	U	0.04	U	0.017	U	0.085	U	0.042	U	0.084	U	0.84	U	0.008	U
Endrin Aldehyde				mg/kg	0.014	U	0.036	U	0.039	U	0.078	U	0.016	U	0.04	U	0.017	U	0.085	U	0.042	U	0.084	U	0.84	U	0.008	U
Endrin Ketone				mg/kg	0.014	U	0.036	U	0.039	U	0.078	U	0.016	U	0.04	U	0.017	U	0.085	U	0.042	U	0.084	U	0.84	U	0.008	U
Gamma-BHC (Lindane)	2.5	0.0048	0.024	mg/kg	1.3		2.4		1.3		9.8		0.36		4.1		2100		0.064	J	0.088	J	2.9		0.84	U	0.2	J
Heptachlor	0.63	0.0024	0.66	mg/kg	0.014	U	0.036	U	0.039	U	0.078	U	0.016	U	0.04	U	0.017	U	0.085	U	0.042	U	0.084	U	0.84	U	0.008	U
Heptachlor Epoxide	0.33	0.00056	0.082	mg/kg	0.014	U	0.036	U	0.039	U	0.078	U	0.016	U	0.04	U	0.017	U	0.085	U	0.042	U	0.084	U	0.84	U	0.008	U
Methoxychlor	4100	40	44	mg/kg	1.3		0.07	U	0.076	U	0.15	U	0.031	U	0.078	U	0.034	U	0.16	U	0.081	U	1.6	U	1.6	U	0.015	U
Toxaphene	2.1	0.22	9.2	mg/kg	0.37	U	0.92	U	1	U	2	U	0.41	U	1	U	0.44	U	2.1	U	1.1	U	2.1	U	21	U	0.2	U
trans-Chlordane	500	28		mg/kg	0.014	U	0.036	U	0.039	U	0.078	U	0.016	U	0.04	U	0.017	U	0.085	U	0.042	U	0.084	U	0.84	U	0.008	U
Volatile Organic Compounds																												
1,1,1-Trichloroethane	36000	56	1.4	mg/kg	0.42	U	0.28	U	0.0058	U	0.28	U	0.33	U	0.28	U	0.4	U	8	U	0.74	U	0.0066	U	0.41	U	0.28	U
1,1,2,2-Tetrachloroethane	2.7	0.0006		mg/kg	0.094	J	0.28	U	0.0058	U	0.28	U	0.33	U	0.28	U	0.4	U	8	U	0.74	U	0.0066	U	0.41	U	0.28	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	28000	520		mg/kg	1.1		0.56	U	0.012	U	0.56	U	0.66	U	0.57	U	0.8	U	16	U	1.5	U	0.013	U	0.82	U	0.56	U
1,1,2-Trichloroethane	5	0.00178	0.032	mg/kg	0.42	U	0.28	U	0.0058	U	0.28	U	0.33	U	0.28	U	0.4	U	8	U	0.74	U	0.0066	U	0.41	U	0.28	U
1,1-Dichloroethane	16	0.0156		mg/kg	0.42	U	0.28	U	0.0058	U	0																	

Table 18. Waste Storage Area Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date			Units	SBWS-06 SBWS-06I_0-2 8/2/2021		SBWS-06 SBWS-06I_0-2 8/3/2021		SBWS-06 SBWS-06K_0-2 8/3/2021		SBWS-06 SBWS-06_2-4 7/9/2021		SBWS-06 SBWS-06I_2-4 8/2/2021		SBWS-06 SBWS-06C_3-5 7/28/2021		SBWS-06 SBWS-06I_4-6 8/2/2021		SBWS-06 SBWS-06A_5.5-7.5 7/28/2021		SBWS-06 SBWS-06A_5.5-7.5-DUP 7/28/2021		SBWS-06 SBWS-06_6-8 7/9/2021		SBWS-06 SBWS-06F_6-8 7/28/2021		SBWS-06 SBWS-06C_6.5-8.5 7/28/2021	
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20		Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Dibromochloromethane	39	0.0046	0.42	mg/kg	0.42	U	0.28	U	0.0058	U	0.28	U	0.33	U	0.28	U	0.4	U	8	U	0.74	U	0.0066	U	0.41	U	0.28	U
Dichlorodifluoromethane	370	6		mg/kg	0.42	U	0.28	U	0.0058	U	0.28	U	0.33	U	0.28	UJ	0.4	U	8	UJ	0.74	UJ	0.0066	U	0.41	UJ	0.28	UJ
Diethyl Ether	230000	17.6		mg/kg	0.099	J	0.28	U	0.0058	U	0.28	U	0.33	U	0.28	U	0.4	U	8	U	0.74	U	0.0066	U	0.41	U	0.28	U
Ethylbenzene	25	0.034	15.6	mg/kg	47		0.28	U	0.0058	U	0.28	U	5.5		0.28	U	0.032	J	8	U	0.74	U	0.0066	U	0.41	U	0.28	U
Isopropylbenzene	9900	14.8		mg/kg	0.069	J	0.28	U	0.0058	U	0.28	U	0.33	U	0.28	U	0.4	U	8	U	0.74	U	0.0066	U	0.41	U	0.28	U
m&p-Xylenes				mg/kg	56		0.28	U	0.0058	U	0.28	U	1.4		0.28	U	0.4	U	8	U	0.74	U	0.0066	U	0.41	U	0.28	U
Methyl Acetate	1200000	82		mg/kg	0.16	J	0.079	J	0.0058	U	0.28	U	0.21	J	0.44	J-	0.4	U	8	UJ	1.3	J-	0.0066	U	0.41	J-	0.28	UJ
Methyl Tert-Butyl Ether	210	0.064		mg/kg	0.42	U	0.28	U	0.0058	UJ	0.28	U	0.33	U	0.28	U	0.4	U	8	U	0.74	U	0.0066	U	0.41	U	0.28	U
Methylcyclohexane				mg/kg	0.12	J	0.052	J	0.0058	U	0.28	U	0.33	U	0.28	U	0.4	U	8	U	0.74	U	0.0066	U	0.41	U	0.28	U
Methylene Chloride	1000	0.058	0.026	mg/kg	0.42	U	0.28	U	0.0058	U	0.28	U	0.33	U	0.28	U	0.4	U	8	U	0.74	U	0.0079		0.41	U	0.28	U
o-Xylene	2800	3.8		mg/kg	19		0.28	U	0.0058	U	0.28	U	0.54		0.28	U	0.4	U	8	U	0.74	U	0.0066	U	0.41	U	0.28	U
Styrene	35000	26	2.2	mg/kg	0.6		0.28	U	0.0058	U	0.28	U	0.33	U	0.28	U	0.4	U	8	U	0.74	U	0.0066	U	0.41	U	0.28	U
Tetrachloroethene	100	0.102	0.046	mg/kg	24		0.24	J	0.001	J	0.28	U	0.35		0.28	U	0.4	U	8	U	0.74	U	0.013		0.07	J	0.28	U
Toluene	47000	15.2	13.8	mg/kg	0.69		0.046	J	0.0023	J	0.28	U	0.054	J	0.28	U	0.4	U	8	U	0.74	U	0.0066	U	0.41	U	0.28	U
Total Xylenes	2500	3.8	198	mg/kg	75		0.56	U	0.012	U	0.56	U	1.9		0.57	U	0.8	U	16	U	1.5	U	0.013	U	0.82	U	0.56	U
trans-1,2-Dichloroethene	300	0.42	0.62	mg/kg	0.13	J	0.28	U	0.0058	U	0.28	U	0.33	U	0.28	U	0.4	U	8	U	0.74	U	0.0066	U	0.41	U	0.28	U
trans-1,3-Dichloropropene				mg/kg	0.42	U	0.28	U	0.0058	U	0.28	U	0.33	U	0.28	U	0.4	U	8	U	0.74	U	0.0066	U	0.41	U	0.28	U
Trichloroethene	6	0.0036	0.036	mg/kg	13		0.42		0.0011	J	0.28	U	0.15	J	0.28	U	0.4	U	8	J	0.74	U	0.0052	J	0.14	J	0.28	U
Trichlorofluoromethane	350000	66		mg/kg	0.42	U	0.28	U	0.0058	U	0.28	U	0.33	U	0.28	U	0.4	U	8	U	0.74	U	0.0066	U	0.41	U	0.28	U
Vinyl Chloride	1.7	0.00013	0.0138	mg/kg	0.5		0.28	U	0.0058	U	0.28	U	0.07	J	0.28	U	0.4	U	8	U	0.74	U	0.016		0.41	U	0.28	U
Semi-Volatile Organic Compounds																												
1,1'-Biphenyl	200	0.174		mg/kg	0.039	U	0.2	U	0.25		0.22	U	2.2		0.22	U	9.4	U	0.46	U	0.47	U	12	U	2.9	U	0.045	U
1,2,4,5-Tetrachlorobenzene	35	0.0158		mg/kg	0.039	U	0.2	U	0.22	U	0.22	U	3.9		0.24		150		0.46	U	0.47	U	12	U	2.9	U	0.045	U
2,2'-Oxybis(1-Chloropropane)	47000	5.2		mg/kg	0.047	U	0.24	U	0.26	U	0.25	U	0.053	U	0.26	UJ	11	U	0.55	U	0.55	U	14	U	3.5	U	0.053	UJ
2,3,4,6-Tetrachlorophenol	25000	3.6		mg/kg	0.18	U	0.91	U	0.99	U	0.98	U	0.21	U	1	U	43	U	2.1	U	2.1	U	52	U	13	U	0.2	U
2,4,5-Trichlorophenol	82000	80		mg/kg	0.039	U	0.15	J	0.66		0.3		0.13		0.22	U	16		0.46	U	0.47	U	12	U	2.9	U	0.045	U
2,4,6-Trichlorophenol	210	0.08		mg/kg	0.039	U	0.2	U	0.22	U	0.53		0.045	U	0.22	U	26		0.46	U	0.47	U	12	U	2.9	U	0.045	U
2,4-Dichlorophenol	2500	0.46		mg/kg	0.047	U	0.24	U	0.59		0.33		0.042	J	0.26	U	110		0.55	U	0.55	U	14	U	3.5	U	0.026	J
2,4-Dimethylphenol	16000	8.4		mg/kg	0.039	U	0.2	U	0.22	U	0.22	U	0.045	U	0.22	U	9.4	U	0.46	U	0.47	U	12	U	2.9	U	0.045	U
2,4-Dinitrophenol	1600	0.88		mg/kg	1.1	U	5.4	U	5.9	U	5.9	U	1.2	U	6.1	U	260	U	13	U	13	U	310	U	80	U	1.2	U
2,4-Dinitrotoluene	7.4	0.0064		mg/kg	0.18	U	0.91	U	2.4		0.43	J	0.21	U	1	U	43	U	2.1	U	2.1	U	52	U	13	U	0.2	U
2,6-Dinitrotoluene	1.5	0.00134		mg/kg	0.039	U	0.2	U	0.44		0.22	U	0.045	U	0.22	U	9.4	U	0.46	U	0.47	U	12	U	2.9	U	0.045	U
2-Chloronaphthalene	60000	78		mg/kg	0.036	U	0.18	U	0.22	U	0.2	U	0.041	U	0.22	U	8.6	U	0.42	U	0.42	U	10	U	2.7	U	0.041	U
2-Chlorophenol	5800	1.78		mg/kg	0.039	U	0.2	U	0.22	U	0.22	U	0.072		0.22	U	160		0.21	J	0.33	J	12	U	2.9	U	0.045	U
2-Methylnaphthalene	3000	3.8		mg/kg	0.0073	J	0.1		0.094	J	0.15		0.078		0.043	J	4.3	U	0.21	U	0.21	U	5.2	U	1.3	U	0.018	J
2-Methylphenol	41000	15		mg/kg	0.054	U	0.27	U	0.3	U	0.29	U	0.062	U	0.3	U	13	U	0.63	U	0.64	U	16	U	4	U	0.061	U
2-Nitroaniline	8000	1.6		mg/kg	0.054	U	0.27	U	0.3	U	0.29	U	0.062	U	0.3	U	13	U	0.63	U	0.64	U	16	U	4	U	0.061	U
2-Nitrophenol				mg/kg	0.054	U	0.27	U	0.3	U	0.29	U	0.062	U	0.3	U	13	U	0.63	U	0.64	U	16	U	4	U	0.061	U
3,3'-Dichlorobenzidine	5.1	0.0164		mg/kg	0.18	U	0.91	U	0.99	U	0.98	U	0.21	U	1	U	43	U	2.1	U	2.1	U	52	U	13	U	0.2	U
3-Nitroaniline				mg/kg	0.18	U	0.91	U	0.99	U	0.98	U	0.21	U	1	U	43	U	2.1	U	2.1	U	52	U	13	U	0.2	U
4,6-Dinitro-2-Methylphenol	66	0.052		mg/kg	0.54	U	2.7	U	3	U	2.9	U	0.62	U	3	U	130	U	6.3	U	6.4	U	160	U	40	U	0.61	U
4-Bromophenyl Phenyl Ether				mg/kg	0.039	U	0.2	U	0.22	U	0.22	U	0.045	U	0.22	U	9.4	U	0.46	U	0.47	U	12	U	2.9	U	0.045	U
4-Chloro-3-Methylphenol	82000	34		mg/kg	0.054	U	0.27	U	0.3	U	0.29	U	0.062	U	0.3	U	13	U	0.63	U	0.64	U	16	U	4	U	0.061	U
4-Chloroaniline	11	0.0032		mg/kg	0.18	U	0.91	U	0.99	U	0.98	U	0.21	U	1	U	43	U	2.1	U	2.1	U	52	U	13	U	0.2	U
4-Chlorophenyl Phenyl Ether				mg/kg	0.039	U	0.2	U	0.22	U	0.22	U	0.045	U	0.22	U	9.4	U	0.46	U	0.47	U	12	U	2.9	U	0.045	U
4-Methylphenol	16000	6		mg/kg	0.054	U	0.27	U	0.3	U	0.29	U	0.062	U	0.3	U	13	U	0.63	U	0.64	U	16	U	4	U	0.061	U
4-Nitroaniline	110	0.032		mg/kg	0.18	U	0.91	U	0.99	U	0.98	U	0.21	U	1	U	43	U	2.1	U	2.1	U	52	U	13	U	0.2	U
4-Nitrophenol				mg/kg	0.54	U	2.7	UJ	3	UJ	2.9	U	0.62	U	3	U	130	U	6.3	U	6.4	U	160	U	40	U	0.61	U
Acenaphthene	45000	110		mg/kg	0.0079	J	0.027	J	0.099	U	0.19		0.0099	J	0.1	U	4.3	U	0.21	U	0.21	U	5.2	U	1.3	U	0.02	U
Acenaphthylene				mg/kg	0.0069	J	0.14		0.05	J	0.098	U	0.039		0.1	U	4.3	U	0.21	U	0.21	U	5.2	U	1.3	U	0.02	U
Acetophenone	120000	11.6		mg/kg	0.03	J	0.27	U	0.3	U	0.29	U	0.062	U	0.3	U	13	U	0.63	U	0.64	U	16	U	4	U	0.061	U
Anthracene	230000	1160		mg/kg	0.017	J	0.22		0.22		0.41		0.033		0.027	J	4.3	U	0.21	U	0.21	U	5.2	U	1.3	U	0.02	U
Atrazine	10	0.004	0.038	mg/kg	0.18	U	0.91	U	0.99	U	0.98	U	0.21	U	1	U	43	U	2.1	U	2.1	U	52	U	13	U	0.2	U
Benzaldehyde	820	0.082		mg/kg	0.1	J	0.91	U	0.99	U	0.98	U	0.21	U	1	U	43	U	2.1	U	2.1							

Table 18. Waste Storage Area Soil Analytical Results
RCRA Facility Investigation Report
Honeywell Delaware Valley Works
Claymont, Delaware
Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date			Units	SBWS-06 SBWS-06I_0-2 8/2/2021		SBWS-06 SBWS-06I_0-2 8/3/2021		SBWS-06 SBWS-06K_0-2 8/3/2021		SBWS-06 SBWS-06_2-4 7/9/2021		SBWS-06 SBWS-06I_2-4 8/2/2021		SBWS-06 SBWS-06C_3-5 7/28/2021		SBWS-06 SBWS-06I_4-6 8/2/2021		SBWS-06 SBWS-06A_5.5-7.5 7/28/2021		SBWS-06 SBWS-06A_5.5-7.5-DUP 7/28/2021		SBWS-06 SBWS-06_6-8 7/9/2021		SBWS-06 SBWS-06F_6-8 7/28/2021		SBWS-06 SBWS-06C_6.5-8.5 7/28/2021			
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20		Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Nitrobenzene	22	0.00184		mg/kg	0.039	U	0.2	U	0.45		0.22	U	0.045	U	0.22	U	9.4	U	0.46	U	0.47	U	12	U	0.46	U	0.47	U	0.045	U
n-Nitroso-di-n-Propylamine	0.33	0.000162		mg/kg	0.072	U	0.36	U	0.39	U	0.39	U	0.082	U	0.41	U	17	U	0.84	U	0.85	U	21	U	5.4	U	0.081	U	0.081	U
n-Nitrosodiphenylamine	470	1.34		mg/kg	0.039	U	0.2	U	15		0.1	J	0.045	U	0.32		9.4	U	0.46	U	0.47	U	12	U	2.9	U	0.045	U	0.045	U
Pentachlorophenol	4	0.00114	0.028	mg/kg	0.18	U	0.91	U	0.99	U	0.98	U	0.21	U	1	U	43	U	2.1	UJ	2.1	UJ	52	U	13	UJ	0.2	U	0.2	U
Phenanthrene				mg/kg	0.1		0.21		0.98		0.098	U	0.12		0.089	J	4.3	U	0.21	U	0.21	U	5.2	U	1.3	U	0.0074	J	0.0074	J
Phenol	250000	66		mg/kg	0.039	U	0.2	U	0.22	U	0.22	U	0.15		0.22	U	8.9	J	0.46	U	0.47	U	12	U	2.9	U	0.045	U	0.045	U
Pyrene	23000	260		mg/kg	0.16		0.37		1.3		0.17		0.29		0.12		4.3	U	0.21	U	0.21	U	5.2	U	1.3	U	0.02	U	0.02	U

Notes:

Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), Industrial Soil Screening Level (SSL) (November 2021)

Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20

Exceeds the EPA RSL, Maximum Contaminant Level (MCL) SSL assuming a DAF of 20

Blanks indicate RSL not established or constituent not analyzed

RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0

U = undetected

J = estimated value

J+ = estimated biased high

J- = estimated biased low

R = rejected

MG/KG - milligram per kilogram

SWMU = Solid Waste Management Unit

RCRA = Resource Conservation and Recovery Act

Sample depth shown in Sample ID (e.g., SBBF3-04_6-8 indicates 6 to 8-foot sample)

DUP = Duplicate sample

Exceedances shown may exceed one or more criteria if available

Table 18. Waste Storage Area Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date			Units	SBWS-06 SBWS-06C_6.5-8.5-DUP 7/28/2021		SBWS-06 SBWS-06G_7-9 8/2/2021		SBWS-06 SBWS-06_8-10 7/9/2021		SBWS-06 SBWS-06F_8-10 7/28/2021		SBWS-06 SBWS-06G_8.5-10.5 7/28/2021		SBWS-06 SBWS-06D_9-11 7/28/2021		SBWS-06 SBWS-06G_9-11 8/2/2021		SBWS-06 SBWS-06G_9-11-DUPFD 8/2/2021		SBWS-06 SBWS-06E_10-12 7/28/2021		SBWS-06 SBWS-06J_10.5-12.5 8/3/2021		SBWS-06 SBWS-06B_11.5-13.5 7/28/2021		SBWS-06 SBWS-06K_12.5-14.5 8/3/2021							
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20		Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual				
Metals																																		
Aluminum	1100000	600000		mg/kg	19000			17000			21000			22000			17000			20000	J	19000	J	21000			21000			16000			25000	
Antimony	470	7	5.4	mg/kg	4.7	U		5	U		5.6	U		4.8	U		4.2	U		4.3	U	5.1	U	5.2	U	1.7	J-	6.1	U		4.6	U		
Arsenic	3	0.03	5.8	mg/kg	6.4			8.9			4.1			8.6			9.3			6.5	J	9.8	J	2.3	J	5	J	2.7	J	8				
Barium	220000	3200	1640	mg/kg	38	J		51			83			76			130			58	J+	92	J	74	J	81	J+	56			87			
Beryllium	2300	380	64	mg/kg	0.61			0.62			0.32	J		0.24	J		0.76			0.56		0.48		0.53		1.2	J	0.59	J		0.99			
Cadmium	100	2.8	7.6	mg/kg	0.47	U		0.5	U		0.54	J		0.48	U		0.53	U		0.42	U	0.43	U	0.51	U	0.45	U	0.61	U		0.46	U		
Calcium				mg/kg	570			660			660			850			510			420	J	700	J	590		970		440			560			
Chromium			3600000	mg/kg	28	J		29			29			33			22			31		32		25		32		20			32			
Cobalt	350	5.4		mg/kg	4.7	J		8.9			8.8			6.1			10			4.8	J	9.6	J	7.5		5.8		6.6			8.8			
Copper	47000	560	920	mg/kg	12			14			7.9			14			9.9			8.6		8.1		11		80		9.8			11			
Iron	820000	7000		mg/kg	29000			26000			23000			37000			28000			27000		22000	J	27000	J	16000		34000			16000		32000	
Lead	800		280	mg/kg	9.7	J		15			11			9.7			16			10	J	9.5		8.2		13		18			9.8		14	
Magnesium				mg/kg	2700	J		2900			3200			3500			3200			2600	J	4100	J	3300		3000		2700			3400			
Manganese	26000	560		mg/kg	110	J		200			150			170		J+	66			67	J	79	J	170	J	88		78			85			
Nickel	22000	520		mg/kg	12			13			16			17		J	16			12	J	16		16		17	J	14			19			
Potassium				mg/kg	1400	J		1500			930			1800			1300			940	J	1200	J	1900	J	1300	J+	970			1400			
Selenium	5800	10.4	5.2	mg/kg	4.7	U		5	U		5.6	U		4.8	U		5.3	U		4.2	UJ	4.3	U	1.7	J	5.2	U	4.5	UJ	6.1	U	4.6	U	
Silver	5800	16		mg/kg	0.94	U		1	U		1.1	U		0.95	U		1.1	U		0.84	U	0.87	U	1	U	0.89	U	1.2	U		0.93	U		
Sodium				mg/kg	110			4600			1200			4100			620			460		3700	J	3300	J	830		140			600			
Thallium	12	0.28	2.8	mg/kg	2.8	U		3	U		3.4	U		1.5	J		3.2	U		2.5	U	2.6	U	3.1	U	3.1	U	2.7	U	3.6	U	2.8	U	
Vanadium	5800	1720		mg/kg	45	J		41			35			46			38			27		32	J	44	J	28		46			27		39	
Zinc	350000	7400		mg/kg	32			39			39			33		J	39			33		30		33		59		47			39		50	
Mercury	46	0.66	2	mg/kg	0.048	J		0.053	J		0.066	U		0.068	U		0.081			0.071	U	0.037	J	0.12		0.067	U	0.071	U	0.07	U	0.11		
Pesticides																																		
4,4'-DDD	9.6	0.15		mg/kg	0.008	U		25			0.021			4			0.36			0.31		2	J	0.17	J	1.8		0.012		0.0036	J	0.083		
4,4'-DDE	9.3	0.22		mg/kg	0.011			110			0.17			2.1			0.11			0.072		2.4	J	0.33	J	0.44		0.0083		0.051		0.041		
4,4'-DDT	8.5	1.54		mg/kg	0.044			130			0.26			3.2			0.48			0.19		5.6	J	0.66	J	1.6		0.021		0.048		0.12		
Aldrin	0.18	0.003		mg/kg	0.008	U		0.039	U		0.0077	U		0.0079	U		0.0077	U		0.0081	U	0.0076	U	0.0077	U	0.0078	U	0.0079	U	0.0083	U	0.0083	U	
Alpha-BHC	0.36	0.00084		mg/kg	1.1	J		440			0.36			0.12			0.028			0.71	J	0.15	J	0.076	J	0.0051	J+	0.15		0.61				
Beta-BHC	1.3	0.003		mg/kg	0.16	J		40			0.018			0.053			0.059			0.0081	U	0.089	J	0.015	J	0.021		0.0078	U	0.036		0.0083	U	
cis-Chlordane	500	9.8		mg/kg	0.008	U		0.039	U		0.0077	U		0.0079	U		0.0077	U		0.0081	U	0.0076	U	0.0077	U	0.0078	U	0.0079	U	0.0083	U	0.0083	U	
Delta-BHC				mg/kg	1.1			2			0.0077	U		0.17			0.014			0.019		0.0076	U	0.0077	U	0.052	J	0.0078	U	0.062		0.051		
Dieldrin	0.14	0.00142		mg/kg	0.008	U		0.039	U		0.0077	U		0.0079	U		0.0077	U		0.0081	U	0.0076	U	0.0077	U	0.0078	U	0.0079	U	0.0083	U	0.0083	U	
Endosulfan I				mg/kg	0.008	U		0.039	U		0.0077	U		0.0079	U		0.0077	U		0.0081	U	0.0076	U	0.0077	U	0.0078	U	0.0079	U	0.0083	U	0.0083	U	
Endosulfan II				mg/kg	0.008	U		0.039	U		0.0077	U		0.0079	U		0.0077	U		0.0081	U	0.0076	U	0.0077	U	0.0078	U	0.0079	U	0.0083	U	0.0083	U	
Endosulfan Sulfate	4900	42		mg/kg	0.008	U		0.039	U		0.0077	U		0.0079	U		0.0077	U		0.0081	U	0.0076	UJ	0.0077	U	0.0078	U	0.0079	U	0.0083	U	0.0083	U	
Endrin	250	1.84	1.62	mg/kg	0.008	U		0.039	U		0.0077	U		0.0079	U		0.0077	U		0.0081	U	0.0076	UJ	0.0077	U	0.0078	U	0.0079	U	0.0083	U	0.0083	U	
Endrin Aldehyde				mg/kg	0.008	U		0.039	U		0.0077	U		0.0079	U		0.0077	U		0.0081	U	0.0076	UJ	0.0077	U	0.0078	U	0.0079	U	0.0083	U	0.0083	U	
Endrin Ketone				mg/kg	0.008	U		0.039	U		0.0077	U		0.0079	U		0.0077	U		0.0081	U	0.0076	U	0.0077	U	0.0078	U	0.0079	U	0.0083	U	0.0083	U	
Gamma-BHC (Lindane)	2.5	0.0048	0.024	mg/kg	0.29	J		79			0.0077	U		0.042			0.0665	J		0.0045	J	0.018		0.0077	U	0.005	J	0.0078	U	0.014		0.34		
Heptachlor	0.63	0.0024	0.66	mg/kg	0.008	U		0.039	U		0.0077	U		0.0079	U		0.0077	U		0.0081	U	0.0076	U	0.0077	U	0.0078	U	0.0079	U	0.0083	U	0.0083	U	
Heptachlor Epoxide	0.33	0.00056	0.082	mg/kg	0.008	U		0.039	U		0.0077	U		0.0079	U		0.0077	U		0.0081	U	0.0076	U	0.0077	U	0.0078	U	0.0079	U	0.0083	U	0.0083	U	
Methoxychlor	4100	40		mg/kg	0.015	U		0.076	U		0.015	U		0.015	U		0.015	U		0.016	U	0.015	UJ	0.015	U	0.015	U	0.015	U	0.016	U	0.016	U	
Toxaphene	2.1	0.22	9.2	mg/kg	0.2	U		0.4	U		0.2	U		0.2	U		0.2	U		0.21	U	0.19	U	0.2	U	0.2								

Table 18. Waste Storage Area Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date				SBWS-06 SBWS-06C_6.5-8.5-DUP 7/28/2021		SBWS-06 SBWS-06G_7-9 8/2/2021		SBWS-06 SBWS-06_8-10 7/9/2021		SBWS-06 SBWS-06F_8-10 7/28/2021		SBWS-06 SBWS-06H_8.5-10.5 7/28/2021		SBWS-06 SBWS-06D_9-11 7/28/2021		SBWS-06 SBWS-06G_9-11 8/2/2021		SBWS-06 SBWS-06G_9-11-DUPFD 8/2/2021		SBWS-06 SBWS-06E_10-12 7/28/2021		SBWS-06 SBWS-06J_10.5-12.5 8/3/2021		SBWS-06 SBWS-06B_11.5-13.5 7/28/2021		SBWS-06 SBWS-06K_12.5-14.5 8/3/2021		
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	
Dibromochloromethane	39	0.0046	0.42	mg/kg	0.29	U		3.8	U	0.25	U	0.0045	U	0.0046	U	0.0044	U	0.28	U	0.0048	U	0.0044	U	0.0044	U	0.0048	U	0.005	U
Dichlorodifluoromethane	370	6		mg/kg	0.29	UJ		3.8	U	0.25	U	0.0045	U	0.0046	U	0.0044	U	0.28	U	0.0048	U	0.0044	U	0.0044	U	0.0048	U	0.005	U
Diethyl Ether	230000	17.6		mg/kg	0.29	U		3.8	U	0.25	U	0.0045	U	0.0046	U	0.0044	U	0.28	U	0.0048	U	0.0044	U	0.0044	U	0.0048	U	0.0028	J
Ethylbenzene	25	0.034	15.6	mg/kg	0.29	U		3.8	U	0.25	U	0.0045	U	0.0046	U	0.0044	U	0.078	J	0.00073	J	0.0044	U	0.0044	U	0.0048	U	0.005	U
Isopropylbenzene	9900	14.8		mg/kg	0.29	U		3.8	U	0.25	U	0.0045	U	0.0046	U	0.0044	U	0.28	U	0.0048	U	0.0044	U	0.0044	U	0.0048	U	0.005	U
m&p-Xylenes				mg/kg	0.29	U		3.8	U	0.25	U	0.0045	U	0.0046	U	0.0044	U	0.28	U	0.00096	J	0.0044	U	0.0044	U	0.0048	U	0.005	U
Methyl Acetate	1200000	82		mg/kg	0.29	UJ		3.8	U	0.25	U	0.0045	U	0.0046	U	0.0044	U	0.28	U	0.0048	U	0.0044	U	0.0044	U	0.0048	U	0.005	U
Methyl Tert-Butyl Ether	210	0.064		mg/kg	0.29	U		3.8	U	0.25	U	0.0045	U	0.0046	U	0.0044	U	0.28	U	0.0048	U	0.0044	U	0.0044	UJ	0.0048	U	0.005	UJ
Methylcyclohexane				mg/kg	0.29	U		3.8	U	0.25	U	0.0045	U	0.0046	U	0.0044	U	0.28	U	0.0048	U	0.0044	U	0.0044	U	0.0048	U	0.005	U
Methylene Chloride	1000	0.058	0.026	mg/kg	0.29	U		3.8	U	0.25	U	0.0045	U	0.0046	U	0.0044	U	0.28	U	0.0048	U	0.0044	U	0.0044	U	0.0024	J	0.005	U
o-Xylene	2800	3.8		mg/kg	0.29	U		3.8	U	0.25	U	0.0045	U	0.0046	U	0.0044	U	0.28	U	0.0048	U	0.0044	U	0.0044	U	0.0048	U	0.005	U
Styrene	35000	26	2.2	mg/kg	0.29	U		3.8	U	0.25	U	0.0045	U	0.0046	U	0.0044	U	0.28	U	0.0048	U	0.0044	U	0.0044	UJ	0.0048	U	0.005	U
Tetrachloroethene	100	0.102	0.046	mg/kg	0.29	U		0.88	J	0.25	U	0.0045	U	0.0011	J	0.0044	U	0.04	J	0.0012	J	0.0044	U	0.0044	U	0.0048	U	0.0017	J
Toluene	47000	15.2	13.8	mg/kg	0.29	U		3.8	U	0.25	U	0.0045	U	0.0046	U	0.0044	U	0.28	U	0.0048	U	0.0044	U	0.0044	U	0.0048	U	0.005	U
Total Xylenes	2500	3.8	198	mg/kg	0.58	U		7.5	U	0.51	U	0.0091	U	0.0093	U	0.0088	U	0.55	U	0.0096	U	0.0088	U	0.0089	U	0.0095	U	0.0099	U
trans-1,2-Dichloroethene	300	0.42	0.62	mg/kg	0.29	U		3.8	U	0.25	U	0.0045	U	0.0046	U	0.0044	U	0.28	U	0.0048	U	0.0044	U	0.0044	U	0.0048	U	0.005	U
trans-1,3-Dichloropropene				mg/kg	0.29	U		3.8	U	0.25	U	0.0045	U	0.0046	U	0.0044	U	0.28	U	0.0048	U	0.0044	U	0.0044	U	0.0048	U	0.005	U
Trichloroethene	6	0.0036	0.036	mg/kg	0.29	U		3.8	U	0.25	U	0.0045	U	0.0024	J	0.0044	U	0.28	U	0.0014	J	0.0044	U	0.0044	U	0.0026	J	0.005	
Trichlorofluoromethane	350000	66		mg/kg	0.29	U		3.8	U	0.25	U	0.0045	U	0.0046	U	0.0044	U	0.28	U	0.0048	U	0.0044	U	0.0044	U	0.0048	U	0.005	U
Vinyl Chloride	1.7	0.00013	0.0138	mg/kg	0.29	U		3.8	U	0.25	U	0.0045	U	0.0046	U	0.0044	U	0.28	U	0.00075	J	0.0044	U	0.0044	U	0.0048	U	0.005	U
Semi-Volatile Organic Compounds																													
1,1'-Biphenyl	200	0.174		mg/kg	0.044	U		0.044	U	0.043	U	0.043	U	0.044	U	0.044	U	0.042	U	0.043	U	0.043	U	0.043	U	0.043	U	0.046	U
1,2,4,5-Tetrachlorobenzene	35	0.0158		mg/kg	0.044	U		0.044	U	0.043	U	0.043	U	0.044	U	0.044	U	0.042	U	0.043	U	0.043	U	0.043	U	0.043	UJ	0.044	U
2,2'-Oxybis(1-Chloropropane)	47000	5.2		mg/kg	0.052	UJ		0.052	U	0.05	U	0.05	U	0.051	U	0.052	U	0.05	U	0.05	U	0.051	U	0.051	U	0.051	UJ	0.052	U
2,3,4,6-Tetrachlorophenol	25000	3.6		mg/kg	0.2	U		0.19	U	0.19	U	0.19	U	0.2	U	0.19	U	0.19	U	0.19	U	0.19	U	0.19	U	0.19	UJ	0.2	U
2,4,5-Trichlorophenol	82000	80		mg/kg	0.044	U		0.044	U	0.043	U	0.043	U	0.044	U	0.044	U	0.042	U	0.043	U	0.043	U	0.043	U	0.043	UJ	0.044	U
2,4,6-Trichlorophenol	210	0.08		mg/kg	0.044	U		0.044	U	0.043	U	0.043	U	0.044	U	0.044	U	0.042	U	0.043	U	0.043	U	0.043	U	0.043	UJ	0.044	U
2,4-Dichlorophenol	2500	0.46		mg/kg	0.052	U		0.052	U	0.05	U	0.05	U	0.051	U	0.052	U	0.05	U	0.05	U	0.051	U	0.051	U	0.051	UJ	0.052	U
2,4-Dimethylphenol	16000	8.4		mg/kg	0.044	U		0.044	U	0.043	U	0.043	U	0.044	U	0.044	U	0.042	U	0.043	U	0.043	U	0.043	U	0.043	UJ	0.044	U
2,4-Dinitrophenol	1600	0.88		mg/kg	1.2	U		1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	1.1	U	1.2	U	1.2	U	1.2	U	1.2	UJ	1.2	U
2,4-Dinitrotoluene	7.4	0.0064		mg/kg	0.2	U		0.2	U	0.19	U	0.19	U	0.2	U	0.2	U	0.19	U	0.19	U	0.19	U	0.19	U	0.19	UJ	0.2	U
2,6-Dinitrotoluene	1.5	0.00134		mg/kg	0.044	U		0.044	U	0.043	U	0.043	U	0.044	U	0.044	U	0.042	U	0.043	U	0.043	U	0.043	U	0.043	UJ	0.044	U
2-Chloronaphthalene	60000	78		mg/kg	0.04	U		0.04	U	0.039	U	0.039	U	0.04	U	0.04	U	0.038	U	0.039	U	0.039	U	0.039	U	0.039	UJ	0.04	U
2-Chlorophenol	5800	1.78		mg/kg	0.044	U		0.044	U	0.043	U	0.043	U	0.044	U	0.044	U	0.042	U	0.043	U	0.043	U	0.043	U	0.043	UJ	0.044	U
2-Methylnaphthalene	3000	3.8		mg/kg	0.0079	J		0.0079	J	0.019	U	0.019	U	0.02	U	0.02	U	0.019	U	0.019	U	0.019	U	0.019	U	0.019	UJ	0.02	U
2-Methylphenol	41000	15		mg/kg	0.06	U		0.06	U	0.058	U	0.058	U	0.059	U	0.06	U	0.057	U	0.058	U	0.059	U	0.058	U	0.058	UJ	0.06	U
2-Nitroaniline	8000	1.6		mg/kg	0.06	U		0.06	U	0.058	U	0.058	U	0.059	U	0.06	U	0.057	U	0.058	U	0.059	U	0.058	U	0.058	UJ	0.06	U
2-Nitrophenol				mg/kg	0.06	U		0.06	U	0.058	U	0.058	U	0.059	U	0.06	U	0.057	U	0.058	U	0.059	U	0.058	U	0.058	UJ	0.06	U
3,3'-Dichlorobenzidine	5.1	0.0164		mg/kg	0.2	U		0.2	U	0.19	U	0.19	U	0.2	U	0.2	U	0.19	U	0.19	U	0.19	U	0.19	U	0.19	UJ	0.2	U
3-Nitroaniline				mg/kg	0.2	U		0.2	U	0.19	U	0.19	U	0.2	U	0.2	U	0.19	U	0.19	U	0.19	U	0.19	U	0.19	UJ	0.2	U
4,6-Dinitro-2-Methylphenol	66	0.052		mg/kg	0.6	U		0.6	U	0.58	U	0.58	U	0.59	U	0.6	U	0.57	U	0.58	U	0.59	U	0.58	U	0.58	UJ	0.6	U
4-Bromophenyl Phenyl Ether				mg/kg	0.044	U		0.044	U	0.043	U	0.043	U	0.044	U	0.044	U	0.042	U	0.043	U	0.043	U	0.043	U	0.043	UJ	0.044	U
4-Chloro-3-Methylphenol	82000	34		mg/kg	0.06	U		0.06	U	0.058	U	0.058	U	0.059	U	0.06	U	0.057	U	0.058	U	0.059	U	0.058	U	0.058	UJ	0.06	U
4-Chloroaniline	11	0.0032		mg/kg	0.2	U		0.2	U	0.19	U	0.19	U	0.2	U	0.2	U	0.19	U	0.19	U	0.19	U	0.19	U	0.19	UJ	0.2	U
4-Chlorophenyl Phenyl Ether				mg/kg	0.044	U		0.044	U	0.043	U	0.043	U	0.044	U	0.044	U	0.042	U	0.043	U	0.043	U	0.043	U	0.043	UJ	0.044	U
4-Methylphenol	16000	6		mg/kg	0.06	U		0.06	U	0.058	U	0.058	U	0.059	U	0.06	U	0.057	U	0.058	U	0.059	U	0.058	U	0.058	UJ	0.06	U
4-Nitroaniline	110	0.032		mg/kg	0.2	U		0.2	U	0.19	U	0.19	U	0.2	U	0.2	U	0.19	U	0.19	U	0.19	U	0.19	U	0.19	UJ	0.2	U
4-Nitrophenol				mg/kg	0.6	U		0.6	U	0.58	U	0.58	U	0.59	U	0.6	U	0.57	U	0.58	U	0.59	U	0.58	U	0.58	UJ	0.6	U
Acenaphthene	45000	110		mg/kg	0.02	U		0.0071	J	0.0041	J	0.019	U	0.02	U	0.02	U	0.019	U	0.019	U	0.019	U	0.019	U	0.019	UJ	0.02	U
Acenaphthylene				mg																									

Table 18. Waste Storage Area Soil Analytical Results
RCRA Facility Investigation Report
Honeywell Delaware Valley Works
Claymont, Delaware
Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date			Units	SBWS-06 SBWS-06C_6.5-8.5-DUP 7/28/2021		SBWS-06 SBWS-06G_7-9 8/2/2021		SBWS-06 SBWS-06_8-10 7/9/2021		SBWS-06 SBWS-06F_8-10 7/28/2021		SBWS-06 SBWS-06H_8.5-10.5 7/28/2021		SBWS-06 SBWS-06D_9-11 7/28/2021		SBWS-06 SBWS-06G_9-11 8/2/2021		SBWS-06 SBWS-06G_9-11-DUPFD 8/2/2021		SBWS-06 SBWS-06E_10-12 7/28/2021		SBWS-06 SBWS-06J_10.5-12.5 8/3/2021		SBWS-06 SBWS-06B_11.5-13.5 7/28/2021		SBWS-06 SBWS-06K_12.5-14.5 8/3/2021		
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20		Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result
Nitrobenzene	22	0.00184		0.044	U	0.044	U	0.043	U	0.044	U	0.043	U	0.042	U	0.043	U	0.043	U	0.043	U	0.043	UJ	0.044	U	0.046	U	0.046	U
n-Nitroso-di-n-Propylamine	0.33	0.000162		0.08	U	0.08	U	0.078	U	0.077	U	0.079	U	0.079	U	0.076	U	0.077	U	0.078	U	0.078	UJ	0.081	U	0.083	U	0.083	U
n-Nitrosodiphenylamine	470	1.34		0.044	U	0.044	U	0.043	U	0.043	U	0.023	J	0.044	U	0.042	U	0.043	U	0.043	U	0.043	UJ	0.044	U	0.046	U	0.046	U
Pentachlorophenol	4	0.00114	<i>0.028</i>	0.2	U	0.2	U	0.19	U	0.19	UJ	0.2	UJ	0.2	UJ	0.19	U	0.19	U	0.2	UJ	0.19	UJ	0.2	UJ	0.21	U	0.21	U
Phenanthrene				0.02	U	0.078		0.01	J	0.019	U	0.0063	J	0.02	U	0.0082	J	0.012	J	0.02	U	0.019	UJ	0.02	U	0.021	U	0.021	U
Phenol	250000	66		0.044	U	0.044	U	0.043	U	0.044	U	0.044	U	0.042	U	0.043	U	0.043	U	0.043	U	0.043	UJ	0.044	U	0.046	U	0.046	U
Pyrene	23000	260		0.02	U	0.02	U	0.019	U	0.019	U	0.0064	J	0.02	U	0.015	J	0.02		0.02	U	0.019	UJ	0.02	U	0.008	J	0.008	J

Notes:

Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), Industrial Soil Screening Level (SSL) (November 2021)

Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20

Exceeds the EPA RSL, Maximum Contaminant Level (MCL) SSL assuming a DAF of 20

Blanks indicate RSL not established or constituent not analyzed

RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0

U = undetected

J = estimated value

J+ = estimated biased high

J- = estimated biased low

R = rejected

MG/KG - milligram per kilogram

SWMU = Solid Waste Management Unit

RCRA = Resource Conservation and Recovery Act

Sample depth shown in Sample ID (e.g., SBBF3-04_6-8 indicates 6 to 8-foot sample)

DUP = Duplicate sample

Exceedances shown may exceed one or more criteria if available

Table 18. Waste Storage Area Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date			SBWS-07 SBWS-07_2-4 7/9/2021		SBWS-07 SBWS-07_4-6 7/9/2021		SBWS-08 SBWS-08_0-2 7/8/2021		SBWS-08 SBWS-08A_0-2 8/2/2021		SBWS-08 SBWS-08B_0-2 8/3/2021		SBWS-08 SBWS-08C_0-2 8/3/2021		SBWS-08 SBWS-08_4-6 7/8/2021		SBWS-08 SBWS-08B_4-6 8/3/2021		SBWS-08 SBWS-08C_4-6 8/3/2021		SBWS-08 SBWS-08B_4-6-DUPFD 8/3/2021										
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual								
Metals																																
Aluminum	1100000	600000		mg/kg	15000			17000				9100				15000				25000				19000	J							
Antimony	470	7	5.4	mg/kg	4.3	U		4.7	U			2.5	J			5.9	U			4.6	J		4.4	U	2.4	J	5.5	U				
Arsenic	3	0.03	5.8	mg/kg	15			2.4	J			4				71				98			1.3	J	4.8		10		8.5			
Barium	220000	3200	1640	mg/kg	84			49				54				170				1800			82	J	70		50	J				
Beryllium	2300	380	64	mg/kg	0.43	U		0.64				0.24	J			0.62				0.3	J		0.44	U	0.56		0.5	J	0.49	J		
Cadmium	100	2.8	7.6	mg/kg	0.44			0.47	U			0.52	U			0.59	U			0.59	U		0.56	U	0.44	U	0.41	U	0.56	U	0.55	U
Calcium				mg/kg	970			810				1400				1800				3300			5800		400		100		430		99	
Chromium			3600000	mg/kg	19			28				26				14				22			22		26	J	34		27	J		
Cobalt	350	5.4		mg/kg	5.6			4.9				0.63				5.2				2.3			5.9		7.1	J	5.4		4	J		
Copper	47000	560	920	mg/kg	37			21				8				56				8.3			41		13		16		14			
Iron	820000	7000		mg/kg	16000			22000				48000				45000				24000			67000		16000		23000	J	43000		24000	J
Lead	800		280	mg/kg	68			10				18				97				97			120		12		10		13		9.2	
Magnesium				mg/kg	1700			2500				1400				1000				2200			2800		3000		3000	J	2400		2300	J
Manganese	26000	560		mg/kg	100			120				45				110				55			86		110	J	150		76	J		
Nickel	22000	520		mg/kg	12			12				5.7				11				7.3			15		21	J	16		15	J		
Potassium				mg/kg	940			2000				2100				710				1600			1700		1200	J	1500		1500	J		
Selenium	5800	10.4	5.2	mg/kg	4.3	U		4.7	U			5.2	U			11				5.9	U		3.2	J	4.4	U	4.1	U	5.6	U	5.5	U
Silver	5800	16		mg/kg	0.87	U		0.95	U			1	U			1.2	U			1.2	U		1.1	U	0.89	U	0.81	U	1.1	U	1.1	U
Sodium				mg/kg	600			2100				370				360				2200			390		2300	J	7000		5000	J		
Thallium	12	0.28	2.8	mg/kg	2.6	U		2.8	U			3.1	U			3.5	U			3.5	U		1.6	J	2.7	U	2.4	U	3.4	U	3.3	U
Vanadium	5800	1720		mg/kg	29			32				23				27				30			25		35	J	34		30	J		
Zinc	350000	7400		mg/kg	70			32				14				50				27			78		49	J	37		34	J		
Mercury	46	0.66	2	mg/kg	0.081			0.05	J			0.04	J			0.58				0.032	J		0.13		0.067	U	0.067	U	0.034	J	0.043	J
Pesticides																																
4,4'-DDD	9.6	0.15		mg/kg	1.3			1.3				160				0.38				0.76			0.16		0.072		0.02		0.18		0.035	
4,4'-DDE	9.3	0.22		mg/kg	0.27			1.7				63				0.19				3			4.7		0.041		0.078	J	0.67		0.037	J
4,4'-DDT	8.5	1.54		mg/kg	1			0.99				570				0.34				2.9			0.18		0.051		0.063	J	0.46		0.027	J
Aldrin	0.18	0.003		mg/kg	0.04	U		0.0079	U			0.043	U			0.017	U			0.016	U		0.0096	U	0.0077	U	0.0079	U	0.0077	U	0.0076	U
Alpha-BHC	0.36	0.00084		mg/kg	1.6			1.3				0.22				0.13				0.0061	J+		0.0089	J+	0.0028	J	0.033	J	0.21		0.011	J
Beta-BHC	1.3	0.003		mg/kg	0.04	U		0.27				0.043	U			0.017	U			0.018			0.041		0.01		0.0071	J	0.021		0.0076	U
cis-Chlordane	500	9.8		mg/kg	0.04	U		0.0079	U			0.043	U			0.017	U			0.016	U		0.0096	U	0.0077	U	0.0079	U	0.0077	U	0.0076	U
Delta-BHC				mg/kg	0.34			0.12				0.043	U			0.017	U			0.016	U		0.0096	U	0.0077	U	0.0079	U	0.0077	U	0.0076	U
Dieldrin	0.14	0.00142		mg/kg	0.04	U		0.0079	U			0.043	U			0.017	U			0.016	U		0.0096	U	0.0077	U	0.0079	U	0.0077	U	0.0076	U
Endosulfan I				mg/kg	0.04	U		0.0079	U			0.043	U			0.017	U			0.016	U		0.0096	U	0.0077	U	0.0079	U	0.0077	U	0.0076	U
Endosulfan II				mg/kg	0.04	U		0.0079	U			0.043	U			0.017	U			0.016	U		0.0096	U	0.0077	U	0.0079	U	0.0077	U	0.0076	U
Endosulfan Sulfate	4900	42		mg/kg	0.04	U		0.0079	U			0.043	U			0.017	U			0.016	U		0.0096	U	0.0077	U	0.0079	U	0.0077	U	0.0076	U
Endrin	250	1.84	1.62	mg/kg	0.04	U		0.0079	U			0.043	U			0.017	U			0.016	U		0.0096	U	0.0077	U	0.0079	U	0.0077	U	0.0076	U
Endrin Aldehyde				mg/kg	0.04	U		0.0079	U			0.043	U			0.017	U			0.016	U		0.0096	U	0.0077	U	0.0079	U	0.0077	U	0.0076	U
Endrin Ketone				mg/kg	0.04	U		0.0079	U			0.043	U			0.017	U			0.016	U		0.0096	U	0.0077	U	0.0079	U	0.0077	U	0.0076	U
Gamma-BHC (Lindane)	2.5	0.0048	0.024	mg/kg	0.11			0.25				0.043	U			0.017	U			0.016	U		0.0096	U	0.0077	U	0.0079	U	0.0036	J	0.0076	U
Heptachlor	0.63	0.0024	0.66	mg/kg	0.04	U		0.0079	U			0.043	U			0.017	U			0.016	U		0.0096	U	0.0077	U	0.0079	U	0.0077	U	0.0076	U
Heptachlor Epoxide	0.33	0.00056	0.082	mg/kg	0.04	U		0.0079	U			0.043	U			0.017	U			0.016	U		0.0096	U	0.0077	U	0.0079	U	0.0077	U	0.0076	U
Methoxychlor	4100	40	44	mg/kg	0.077	U		0.015	U			0.083	U			0.032	U			0.031	U		0.019	U	0.015	U	0.015	U	0.015	U	0.015	U
Toxaphene	2.1	0.22	9.2	mg/kg	1	U		0.2	U			1.1	U			0.42	U			0.41	U		0.24	U	0.19	U	0.2	U	0.2	U	0.19	U
trans-Chlordane	500	28		mg/kg	0.04	U		0.0079	U			0.043	U			0.017	U			0.016	U		0.0096	U	0.0077	U	0.0079	U	0.0077	U	0.0076	U
Volatile Organic Compounds																																
1,1,1-Trichloroethane	36000	56	1.4	mg/kg	0.26	U		0.28	U			0.33	U			5	U			0.0053	U		0.51	U	2.1	U	0.0048	U	0.29	U	0.27	U
1,1,2,2-Tetrachloroethane	2.7	0.0006		mg/kg	0.26	U		0.28	U			0.33	U			5	U			0.0053	U		0.51	U	2.1	U	0.0048	U	0.29	U	0.27	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	28000	520		mg/kg	0.52	U		0.57	U			0.67	U			10	U			0.011	U		1	U	4.3	U	0.0096	U	0.57	U	0.54	U
1,1,2-Trichloroethane	5	0.00178	0.032	mg/kg	0.26	U		0.28	U			0.33	U																			

Table 18. Waste Storage Area Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date			Units	SBWS-07 SBWS-07_2-4 7/9/2021		SBWS-07 SBWS-07_4-6 7/9/2021		SBWS-08 SBWS-08_0-2 7/8/2021		SBWS-08 SBWS-08A_0-2 8/2/2021		SBWS-08 SBWS-08B_0-2 8/3/2021		SBWS-08 SBWS-08C_0-2 8/3/2021		SBWS-08 SBWS-08_4-6 7/8/2021		SBWS-08 SBWS-08B_4-6 8/3/2021		SBWS-08 SBWS-08C_4-6 8/3/2021		SBWS-08 SBWS-08B_4-6-DUPFD 8/3/2021	
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20		Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Dibromochloromethane	39	0.0046	0.42	mg/kg	0.26	U	0.28	U	0.33	U	5	U	0.0053	U	0.51	U	2.1	U	0.0048	U	0.29	U	0.27	U
Dichlorodifluoromethane	370	6		mg/kg	0.26	U	0.28	U	0.33	U	5	U	0.0053	U	0.51	U	2.1	U	0.0048	U	0.29	U	0.27	U
Diethyl Ether	230000	17.6		mg/kg	0.26	U	0.28	U	0.33	U	5	U	0.0053	U	0.51	U	2.1	U	0.0048	U	0.29	U	0.27	U
Ethylbenzene	25	0.034	15.6	mg/kg	0.032	J	0.28	U	0.33	U	5	U	0.0053	U	0.044	J	2.1	U	0.0048	U	0.29	U	0.27	U
Isopropylbenzene	9900	14.8		mg/kg	0.26	U	0.28	U	0.33	U	5	U	0.0053	U	0.51	U	2.1	U	0.0048	U	0.29	U	0.27	U
m&p-Xylenes				mg/kg	0.065	J	0.28	U	0.33	U	5	U	0.0053	U	0.2	J	2.1	U	0.0048	U	0.29	U	0.27	U
Methyl Acetate	1200000	82		mg/kg	0.14	J	0.28	U	0.33	U	5	U	0.0053	U	0.51	U	2.1	U	0.0048	U	0.29	U	0.27	U
Methyl Tert-Butyl Ether	210	0.064		mg/kg	0.26	U	0.28	U	0.33	U	5	U	0.0053	UJ	0.51	U	2.1	U	0.0048	UJ	0.29	U	0.27	U
Methylcyclohexane				mg/kg	0.033	J	0.28	U	0.33	U	5	U	0.0053	U	0.51	U	2.1	U	0.0048	U	0.29	U	0.27	U
Methylene Chloride	1000	0.058	0.026	mg/kg	0.26	U	0.28	U	0.33	U	5	U	0.0053	U	0.51	U	2.1	U	0.0048	U	0.29	U	0.27	U
o-Xylene	2800	3.8		mg/kg	0.041	J	0.28	U	0.33	U	5	U	0.0053	U	0.055	J	2.1	U	0.0048	U	0.29	U	0.27	U
Styrene	35000	26	2.2	mg/kg	0.26	U	0.28	U	0.33	U	5	U	0.0053	U	0.51	U	2.1	U	0.0048	U	0.29	U	0.27	U
Tetrachloroethene	100	0.102	0.046	mg/kg	0.16	J	0.28	U	0.33	U	5	U	0.0053	U	0.063	J	2.1	U	0.0048	U	0.29	U	0.27	U
Toluene	47000	15.2	13.8	mg/kg	0.26	U	0.28	U	0.33	U	0.63	J	0.0053	U	0.51	U	2.1	U	0.0048	U	0.29	U	0.27	U
Total Xylenes	2500	3.8	198	mg/kg	0.11	J	0.57	U	0.67	U	10	U	0.011	U	0.26	J	4.3	U	0.0096	U	0.57	U	0.54	U
trans-1,2-Dichloroethene	300	0.42	0.62	mg/kg	0.26	U	0.28	U	0.33	U	5	U	0.0053	U	0.51	U	2.1	U	0.0048	U	0.29	U	0.27	U
trans-1,3-Dichloropropene				mg/kg	0.26	U	0.28	U	0.33	U	5	U	0.0053	U	0.51	U	2.1	U	0.0048	U	0.29	U	0.27	U
Trichloroethene	6	0.0036	0.036	mg/kg	0.096	J	0.28	U	0.33	U	5	U	0.0053	U	0.51	U	2.1	U	0.0048	U	0.29	U	0.27	U
Trichlorofluoromethane	350000	66		mg/kg	0.26	U	0.28	U	0.33	U	5	U	0.0053	U	0.51	U	2.1	U	0.0048	U	0.29	U	0.27	U
Vinyl Chloride	1.7	0.00013	0.0138	mg/kg	0.26	U	0.28	U	0.33	U	5	U	0.0053	U	0.51	U	2.1	U	0.0048	U	0.29	U	0.27	U
Semi-Volatile Organic Compounds																								
1,1'-Biphenyl	200	0.174		mg/kg	0.044	U	0.043	U	0.047	UJ	0.13		0.044	U	0.074		0.042	U	0.044	U	0.044	U	0.043	U
1,2,4,5-Tetrachlorobenzene	35	0.0158		mg/kg	0.044	U	0.043	U	0.047	UJ	0.046	U	0.044	U	0.053	U	0.042	U	0.044	U	0.044	U	0.043	U
2,2'-Oxybis(1-Chloropropane)	47000	5.2		mg/kg	0.052	U	0.051	U	0.056	UJ	0.054	U	0.052	U	0.062	U	0.05	U	0.052	U	0.052	U	0.051	U
2,3,4,6-Tetrachlorophenol	25000	3.6		mg/kg	0.2	U	0.2	U	0.21	UJ	0.21	U	0.2	U	0.24	UJ	0.19	U	0.2	U	0.2	U	0.19	U
2,4,5-Trichlorophenol	82000	80		mg/kg	0.02	J	0.043	U	0.047	UJ	0.046	U	0.044	U	0.053	U	0.042	U	0.044	U	0.044	U	0.043	U
2,4,6-Trichlorophenol	210	0.08		mg/kg	0.044	U	0.043	U	0.047	UJ	0.046	U	0.044	U	0.053	U	0.042	U	0.044	U	0.044	U	0.043	U
2,4-Dichlorophenol	2500	0.46		mg/kg	0.052	U	0.051	U	0.056	UJ	0.054	U	0.052	U	0.062	U	0.05	U	0.052	U	0.052	U	0.051	U
2,4-Dimethylphenol	16000	8.4		mg/kg	0.044	U	0.043	U	0.047	UJ	0.046	U	0.044	U	0.053	U	0.042	U	0.044	U	0.044	U	0.043	U
2,4-Dinitrophenol	1600	0.88		mg/kg	1.2	U	1.2	U	1.3	UJ	1.2	U	1.2	U	1.4	UJ	1.1	UJ	1.2	U	1.2	U	1.2	U
2,4-Dinitrotoluene	7.4	0.0064		mg/kg	0.2	U	0.2	U	0.21	UJ	0.21	U	0.2	U	0.24	U	0.19	U	0.2	U	0.2	U	0.19	U
2,6-Dinitrotoluene	1.5	0.00134		mg/kg	0.044	U	0.043	U	0.047	UJ	0.046	U	0.044	U	0.053	U	0.042	U	0.044	U	0.044	U	0.043	U
2-Chloronaphthalene	60000	78		mg/kg	0.04	U	0.039	U	0.043	UJ	0.041	U	0.04	U	0.048	U	0.038	U	0.04	U	0.04	U	0.039	U
2-Chlorophenol	5800	1.78		mg/kg	0.044	U	0.043	U	0.047	UJ	3.4		0.044	U	0.053	U	0.1	U	0.044	U	0.026	J	0.043	U
2-Methylnaphthalene	3000	3.8		mg/kg	0.016	J	0.025		0.021	UJ	0.87		0.026		0.28		0.019	U	0.02	U	0.02	U	0.019	U
2-Methylphenol	41000	15		mg/kg	0.06	U	0.059	U	0.064	UJ	0.062	U	0.06	U	0.072	U	0.057	U	0.06	U	0.06	U	0.058	U
2-Nitroaniline	8000	1.6		mg/kg	0.06	U	0.059	U	0.064	UJ	0.062	U	0.06	U	0.072	U	0.057	U	0.06	U	0.06	U	0.058	U
2-Nitrophenol				mg/kg	0.06	U	0.059	U	0.064	UJ	0.062	U	0.06	U	0.072	U	0.057	U	0.06	U	0.06	U	0.058	U
3,3'-Dichlorobenzidine	5.1	0.0164		mg/kg	0.2	U	0.2	U	0.21	UJ	0.21	U	0.2	U	0.24	UJ	0.19	U	0.2	U	0.2	U	0.19	U
3-Nitroaniline				mg/kg	0.2	U	0.2	U	0.21	UJ	0.21	U	0.2	U	0.24	U	0.19	U	0.2	U	0.2	U	0.19	U
4,6-Dinitro-2-Methylphenol	66	0.052		mg/kg	0.6	U	0.59	U	0.64	UJ	0.62	U	0.6	U	0.72	U	0.57	U	0.6	U	0.6	U	0.58	U
4-Bromophenyl Phenyl Ether				mg/kg	0.044	U	0.043	U	0.047	UJ	0.046	U	0.044	U	0.053	U	0.042	U	0.044	U	0.044	U	0.043	U
4-Chloro-3-Methylphenol	82000	34		mg/kg	0.06	U	0.059	U	0.064	UJ	0.062	U	0.06	U	0.072	U	0.057	U	0.06	U	0.06	U	0.058	U
4-Chloroaniline	11	0.0032		mg/kg	0.2	U	0.2	U	0.21	UJ	0.21	U	0.2	U	0.24	U	0.19	U	0.2	U	0.2	U	0.19	U
4-Chlorophenyl Phenyl Ether				mg/kg	0.044	U	0.043	U	0.047	UJ	0.046	U	0.044	U	0.053	U	0.042	U	0.044	U	0.044	U	0.043	U
4-Methylphenol	16000	6		mg/kg	0.06	U	0.059	U	0.064	UJ	0.062	U	0.06	U	0.072	U	0.057	U	0.06	U	0.06	U	0.058	U
4-Nitroaniline	110	0.032		mg/kg	0.2	U	0.2	U	0.21	UJ	0.21	U	0.2	U	0.24	U	0.19	U	0.2	U	0.2	U	0.19	U
4-Nitrophenol				mg/kg	0.6	U	0.59	U	0.64	UJ	0.62	U	0.6	UJ	0.72	UJ	0.57	U	0.6	UJ	0.6	UJ	0.58	UJ
Acenaphthene	45000	110		mg/kg	0.039	U	0.021	U	0.021	UJ	0.021	U	0.02	U	0.06	U	0.019	U	0.02	U	0.02	U	0.019	U
Acenaphthylene				mg/kg	0.02	U	0.02	U	0.021	UJ	0.021	U	0.02	U	0.03	U	0.019	U	0.02	U	0.02	U	0.019	U
Acetophenone	120000	11.6		mg/kg	0.06	U	0.059	U	0.064	UJ	0.12		0.06	U	0.072	U	0.057	U	0.06	U	0.06	U	0.058	U
Anthracene	230000	1160		mg/kg	0.13		0.02	U	0.021	UJ	0.021	U	0.0042	J	0.11		0.019	U	0.02	U	0.027		0.019	U
Atrazine	10	0.004	0.038	mg/kg	0.2	U	0.2	U	0.21	UJ	0.21	U	0.2	U	0.24	U	0.19	U	0.2	U	0.2	U	0.19	U
Benzaldehyde	820	0.082		mg/kg	0.2	U	0.2	U	0.21	UJ	0.21	U	0.2	U	0.24	U	0.19	U	0.2	U	0.2	U	0.19	U
Benzo(A)Anthracene	21	0.22		mg/kg	0.22		0.0047	J	0.021	UJ	0.19		0.013	J	0.14		0.019	U	0.02	U	0.024		0.019	U
Benzo(A)Pyrene	2.1	0.58	4.8	mg/kg	0.15		0.02	U	0.021	UJ	0.097		0.014	J	0.046		0.019	U	0.02	U	0.0053	J	0.019	U
Benzo(B)Fluoranthene	21	6		mg/kg	0.19		0.0068	J	0.021	UJ	0.3		0.033		0.14		0.019	U	0.02	U	0.017	J	0.019	U
Benzo(G,H)Perylene				mg/kg	0.096		0.02	U	0.021	UJ	0.1		0.018	J	0.052		0.019	U	0.02	U	0.0086	J	0.019	U
Benzo(K)Fluoranthene	210	58		mg/kg	0.078		0.02	U	0.021	UJ	0.021	U	0.0089	J	0.067		0.019	U	0.02	U	0.0093	J	0.019	U
bis-(2-Chloroethoxy)Methane	2500	0.26		mg/kg	0.044	U	0.043	U	0.047	UJ	0.046	U	0.044	U	0.053	U	0.042	U	0.044	U	0			

Table 18. Waste Storage Area Soil Analytical Results
RCRA Facility Investigation Report
Honeywell Delaware Valley Works
Claymont, Delaware
Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date			Units	SBWS-07 SBWS-07_2-4 7/9/2021		SBWS-07 SBWS-07_4-6 7/9/2021		SBWS-08 SBWS-08_0-2 7/8/2021		SBWS-08 SBWS-08A_0-2 8/2/2021		SBWS-08 SBWS-08B_0-2 8/3/2021		SBWS-08 SBWS-08C_0-2 8/3/2021		SBWS-08 SBWS-08_4-6 7/8/2021		SBWS-08 SBWS-08B_4-6 8/3/2021		SBWS-08 SBWS-08C_4-6 8/3/2021		SBWS-08 SBWS-08B_4-6-DUPFD 8/3/2021			
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20		Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Nitrobenzene	22	0.00184		mg/kg	0.044	U	0.043	U	0.047	UJ	0.046	U	0.044	U	0.053	U	0.042	U	0.044	U	0.044	U	0.043	U	0.043	U
n-Nitroso-di-n-Propylamine	0.33	0.000162		mg/kg	0.08	U	0.078	U	0.086	UJ	0.083	U	0.08	U	0.096	U	0.077	U	0.08	U	0.079	U	0.078	U	0.078	U
n-Nitrosodiphenylamine	470	1.34		mg/kg	0.044	U	0.043	U	0.047	UJ	0.046	U	0.044	U	0.053	U	0.042	U	0.044	U	0.044	U	0.043	U	0.043	U
Pentachlorophenol	4	0.00114	0.028	mg/kg	0.2	U	0.2	U	0.21	UJ	0.21	U	0.2	U	0.24	U	0.19	UJ	0.2	U	0.2	U	0.19	U	0.19	U
Phenanthrene				mg/kg	0.47		0.022		0.021	UJ	0.94		0.044		1		0.019	U	0.02	U	0.039		0.019	U	0.019	U
Phenol	250000	66		mg/kg	0.32		0.043	U	0.047	UJ	0.046	U	0.044	U	0.053	U	0.042	U	0.044	U	0.044	U	0.043	U	0.043	U
Pyrene	23000	260		mg/kg	0.36		0.0078	J	0.021	UJ	0.33		0.037		0.42		0.019	U	0.02	U	0.11		0.019	U	0.019	U

Notes:

Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), Industrial Soil Screening Level (SSL) (November 2021)

Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20

Exceeds the EPA RSL, Maximum Contaminant Level (MCL) SSL assuming a DAF of 20

Blanks indicate RSL not established or constituent not analyzed

RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0

U = undetected

J = estimated value

J+ = estimated biased high

J- = estimated biased low

R = rejected

MG/KG - milligram per kilogram

SWMU = Solid Waste Management Unit

RCRA = Resource Conservation and Recovery Act

Sample depth shown in Sample ID (e.g., SBBF3-04_6-8 indicates 6 to 8-foot sample)

DUP = Duplicate sample

Exceedances shown may exceed one or more criteria if available

Table 19. Wastewater Soil Analytical Results
RCRA Facility Investigation Report
Honeywell Delaware Valley Works
Claymont, Delaware
Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date			SBWW-01 SBWW-01_0-2 7/13/2021		SBWW-01 SBWW-01_11.5-13.5 7/13/2021		SBWW-01 SBWW-01_11.5-13.5-DUP 7/13/2021		SBWW-02 SBWW-02_0-2 7/12/2021		SBWW-02 SBWW-02_3-5 7/12/2021		SBWW-03 SBWW-03_0-2 7/12/2021		SBWW-03 SBWW-03_10-12 7/12/2021		SBWW-03 SBWW-03_10-12-DUP 7/12/2021		SBWW-04 SBWW-04_0-2 7/13/2021		SBWW-04 SBWW-04_8-10 7/13/2021		
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Metals																								
Aluminum	110000	60000		mg/kg	6500			11000		11000			16000		8100		18000		21000		12000		14000	
Antimony	470	7	5.4	mg/kg	1.6	J	4.9	U	5.1	U	5.1	U	4.7	U	4.2	U	5	U	4.7	U	4.5	U	4.1	U
Arsenic	3	0.03	5.8	mg/kg	4.3		5.1		1.6	J	7.7		11		18		2.1	J	2.3	J	10		8.1	
Barium	220000	3200	1640	mg/kg	64		52		46		100		120		90		83		90		63		81	
Beryllium	2300	380	64	mg/kg	0.19	J	0.63		0.42	J	0.12	J	0.61		0.18	J	0.71		0.73		0.46		0.79	
Cadmium	100	2.8	7.6	mg/kg	0.11	J	0.49	U	0.51	U	0.8		0.69		0.99		0.14	J	0.14	J	0.31	J	0.41	U
Calcium				mg/kg	24000		1500		1300		26000		1500		14000		570		660		2000		1200	
Chromium			3600000	mg/kg	20		24	J	41	J	150		24		48		22		25		25		32	
Cobalt	350	5.4		mg/kg	4		7.5		6.6		7		8		6.8		8		8.7		5.1		9.1	
Copper	47000	560	920	mg/kg	65		13		8.5		85		30		230		16		18		150		13	
Iron	820000	7000		mg/kg	23000		15000		11000		25000		19000		38000		13000		13000		24000		20000	
Lead	800		280	mg/kg	38		7.3		7		55		110		140		9.8		9.8		110		9.9	
Magnesium				mg/kg	3700		3100		2600		5300		1300		3300		2900		3200		2000		3000	
Manganese	26000	560		mg/kg	220		170		150		260		150		270		120		130		170		130	
Nickel	22000	520		mg/kg	12		16		13		28		7.5		23		20		22		17		15	
Potassium				mg/kg	1600		1700		1600		2900		920		2400		1500		2000		1300		1500	
Selenium	5800	10.4	5.2	mg/kg	4.4	U	4.9	U	5.1	U	5.1	U	4.7	U	4.2	U	5	U	4.7	U	4.5	U	4.1	U
Silver	5800	16		mg/kg	0.87	U	0.99	U	1	U	1	U	0.94	U	0.84	U	1	U	0.94	U	0.9	U	0.82	U
Sodium				mg/kg	210		150		140		480		88	J	240		110		130		110		110	
Thallium	12	0.28	2.8	mg/kg	2.6	U	3	U	1.6	J	3.1	U	2.8	U	2.5	U	3	U	2.8	U	2.7	U	2.5	U
Vanadium	5800	1720		mg/kg	20		36		22		32		34		28		28		30		29		44	
Zinc	350000	7400		mg/kg	140		43		39		140		130		470		52		470		470		34	
Mercury	46	0.66	2	mg/kg	0.13		0.07	U	0.074	U	0.23		0.15		0.31		0.073	U	0.072	U	1		0.072	U
Pesticides																								
4,4'-DDD	9.6	0.15		mg/kg	10	J	0.013	J	0.0048	J	5.8		0.0036	J	29		0.0079	U	0.0081	U	62	J	0.012	
4,4'-DDE	9.3	0.22		mg/kg	11	J	0.011		0.0081	U	6		0.0079	U	16		0.0079	U	0.0081	U	120	J	0.0073	J
4,4'-DDT	8.5	1.54		mg/kg	27	J	0.039	J	0.011	J	11		0.0099		47		0.0079	U	0.0081	U	350	J	0.033	
Aldrin	0.18	0.003		mg/kg	0.015	U	0.0079	U	0.0081	U	0.035	U	0.0079	U	0.036	U	0.0079	U	0.0081	U	0.014	U	0.0079	U
Alpha-BHC	0.36	0.0084		mg/kg	0.15		0.0029	J	0.0081	U	0.035	U	0.0079	U	0.45		0.0079	U	0.0081	U	3.6		0.0079	U
Beta-BHC	1.3	0.003		mg/kg	1.3		0.0079	U	0.0081	U	0.52		0.0079	U	3		0.026		0.02		5.1		0.0079	U
cis-Chlordane	500	9.8		mg/kg	0.015	U	0.0079	U	0.0081	U	0.035	U	0.0079	U	0.036	U	0.0079	U	0.0081	U	0.014	U	0.0079	U
Delta-BHC				mg/kg	0.015	U	0.011	J	0.0046	J	0.035	U	0.0079	U	0.036	U	0.0079	U	0.0081	U	0.014	U	0.0079	U
Dieldrin	0.14	0.00142		mg/kg	0.015	U	0.0079	U	0.0081	U	0.035	U	0.0079	U	0.036	U	0.0079	U	0.0081	U	0.014	U	0.0079	U
Endosulfan I				mg/kg	0.015	U	0.0079	U	0.0081	U	0.035	U	0.0079	U	0.036	U	0.0079	U	0.0081	U	0.014	U	0.0079	U
Endosulfan II				mg/kg	0.015	U	0.0079	U	0.0081	U	0.035	U	0.0079	U	0.036	U	0.0079	U	0.0081	U	0.014	U	0.0079	U
Endosulfan Sulfate	4900	42		mg/kg	0.015	U	0.0079	U	0.0081	U	0.035	UJ	0.0079	U	0.036	U	0.0079	U	0.0081	U	0.014	U	0.0079	U
Endrin	250	1.84	1.62	mg/kg	0.015	U	0.0079	U	0.0081	U	0.035	UJ	0.0079	U	0.036	U	0.0079	U	0.0081	U	0.014	U	0.0079	U
Endrin Aldehyde				mg/kg	0.015	U	0.0079	U	0.0081	U	0.035	UJ	0.0079	U	0.036	U	0.0079	U	0.0081	U	0.014	U	0.0079	U
Endrin Ketone				mg/kg	0.015	U	0.0079	U	0.0081	U	0.035	U	0.0079	U	0.036	U	0.0079	U	0.0081	U	0.014	U	0.0079	U
Gamma-BHC (Lindane)	2.5	0.0048	0.024	mg/kg	0.023		0.0079	U	0.0081	U	0.035	U	0.0079	U	0.063		0.0079	U	0.0081	U	0.8		0.0079	U
Heptachlor	0.63	0.0024	0.66	mg/kg	0.015	U	0.0079	U	0.0081	U	0.035	U	0.0079	U	0.036	U	0.0079	U	0.0081	U	0.014	U	0.0079	U
Heptachlor Epoxide	0.33	0.0056	0.082	mg/kg	0.015	U	0.0079	U	0.0081	U	0.035	U	0.0079	U	0.036	U	0.0079	U	0.0081	U	0.014	U	0.0079	U
Methoxychlor	4100	40	44	mg/kg	0.029	U	0.015	U	0.016	U	0.067	U	0.015	U	0.069	U	0.015	U	0.016	U	0.028	U	0.015	U
Toxaphene	2.1	0.22	9.2	mg/kg	0.37	U	0.2	U	0.2	U	0.88	U	0.2	U	0.91	U	0.2	U	0.21	U	0.36	U	0.2	U
trans-Chlordane	500	28		mg/kg	0.015	U	0.0079	U	0.0081	U	0.035	U	0.0079	U	0.036	U	0.0079	U	0.0081	U	0.014	U	0.0079	U
Volatiles Organics Compounds																								
1,1,1-Trichloroethane	36000	56	1.4	mg/kg	0.3	U	0.0044	U	0.0051	U	0.0048	U	0.0047	U	0.006	U	0.0047	U	0.0047	U	0.0049	U	0.0059	U
1,1,2,2-Tetrachloroethane	2.7	0.0006		mg/kg	0.3	U	0.0044	U	0.0051	U	0.0048	U	0.0047	U	0.007		0.0012	J	0.001	J	0.0049	U	0.0059	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	28000	520		mg/kg	0.6	U	0.0089	U	0.01	U	0.0095	U	0.0095	U	0.012	U	0.0093	U	0.0095	U	0.0097	U	0.012	U
1,1,2-Trichloroethane	5	0.00178	0.032	mg/kg	0.3	U	0.0044	U	0.0051	U	0.0048	U	0.0047	U	0.006	U	0.0047	U	0.0047	U	0.0049	U	0.0059	U
1,1-Dichloroethane	16	0.0156		mg/kg	0.3	U	0.0044	U	0.0051	U	0.0048	U	0.0047	U	0.006	U	0.0047	U	0.0047	U	0.0049	U	0.0059	U
1,1-Dichloroethene	1000	2	0.05	mg/kg	0.3	U	0.0044	U	0.0051	U	0.0048	U	0.0047	U	0.006	U	0.0047	U	0.0047	U	0.0049	U	0.0059	U
1,2,3-Trichlorobenzene	930	0.42		mg/kg	0.6	U	0.0089	U	0.01	U	0.0095	U	0.0095	U	0.012	U	0.0093	U	0.0095	U	0.0097	U	0.012	U
1,2,4-Trichlorobenzene	110	0.068	4	mg/kg	1.4		0.0089	U	0.01	U	0.021		0.0095	U	0.011	J	0.0093	U	0.0095	U	0.0097	U	0.012	U
1,2-Dibromo-3-Chloropropane	0.064	0.000028	0.00172	mg/kg	0.3	U	0.0044	U</																

Table 19. Wastewater Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date				SBWW-01 SBWW-01_0-2 7/13/2021		SBWW-01 SBWW-01_11.5-13.5 7/13/2021		SBWW-01 SBWW-01_11.5-13.5-DUP 7/13/2021		SBWW-02 SBWW-02_0-2 7/12/2021		SBWW-02 SBWW-02_3-5 7/12/2021		SBWW-03 SBWW-03_0-2 7/12/2021		SBWW-03 SBWW-03_10-12 7/12/2021		SBWW-03 SBWW-03_10-12-DUP 7/12/2021		SBWW-04 SBWW-04_0-2 7/13/2021		SBWW-04 SBWW-04_8-10 7/13/2021	
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Bromomethane	30	0.038		mg/kg	0.3	U	0.0044	U	0.0051	U	0.0048	U	0.0047	U	0.006	U	0.0047	U	0.0047	U	0.0049	U	0.0059	U
Carbon Disulfide	3500	4.8		mg/kg	0.3	U	0.0044	U	0.0051	U	0.0015	J	0.0047	U	0.0037	J	0.0047	U	0.0047	U	0.0049	U	0.0059	U
Carbon Tetrachloride	2.9	0.0036	0.038	mg/kg	0.3	U	0.0044	U	0.0051	U	0.0048	U	0.0047	U	0.006	U	0.0047	U	0.0047	U	0.0049	U	0.0059	U
Chlorobenzene	1300	1.06	1.36	mg/kg	0.31		0.14		0.23		0.0015	J	0.0047	U	0.0041	J	0.016		0.013		0.0022	J	0.0059	U
Chloroethane	23000	48		mg/kg	0.3	U	0.0044	U	0.0051	U	0.0048	U	0.0047	U	0.006	U	0.0047	U	0.0047	U	0.0049	U	0.0059	U
Chloroform	1.4	0.00122	0.44	mg/kg	0.038	J	0.0044	U	0.0051	U	0.001	J	0.0047	U	0.0038	J	0.0035	J	0.0031	J	0.0063		0.0059	U
Chloromethane	460	0.98		mg/kg	0.3	U	0.0044	U	0.0051	U	0.0048	U	0.0047	U	0.006	U	0.0047	U	0.0047	U	0.0049	U	0.0059	U
cis-1,2-Dichloroethene	2300	0.22	0.42	mg/kg	0.3	U	0.0044	U	0.0051	U	0.0048	U	0.0047	U	0.00071	J	0.0047	U	0.0047	U	0.0049	U	0.0059	U
cis-1,3-Dichloropropene				mg/kg	0.3	U	0.0044	U	0.0051	U	0.0048	U	0.0047	U	0.006	U	0.0047	U	0.0047	U	0.0049	U	0.0059	U
Cyclohexane	27000	260		mg/kg	0.3	U	0.0044	U	0.0051	U	0.0048	U	0.0047	U	0.006	U	0.0047	U	0.0047	U	0.0049	U	0.0059	U
Dibromochloromethane	39	0.0046	0.42	mg/kg	0.3	U	0.0044	U	0.0051	U	0.0048	U	0.0047	U	0.006	U	0.0047	U	0.0047	U	0.0049	U	0.0059	U
Dichlorodifluoromethane	370	6		mg/kg	0.3	U	0.0044	U	0.0051	U	0.0048	U	0.0047	U	0.006	U	0.0047	U	0.0047	U	0.0049	U	0.0059	U
Diethyl Ether	230000	17.6		mg/kg	0.3	U	0.0044	U	0.0051	U	0.0048	U	0.0047	U	0.0012	J	0.011		0.0086		0.0049	U	0.0059	U
Ethylbenzene	25	0.034	15.6	mg/kg	0.041	J	0.0044	U	0.0051	U	0.0048	U	0.0047	U	0.006	U	0.0047	U	0.0047	U	0.0049	U	0.0059	U
Isopropylbenzene	9900	14.8		mg/kg	0.037	J	0.0044	U	0.0051	U	0.0048	U	0.0047	U	0.006	U	0.0047	U	0.0047	U	0.0049	U	0.0059	U
m&p-Xylenes				mg/kg	0.3	U	0.0044	U	0.0051	U	0.0048	U	0.0047	U	0.006	U	0.0047	U	0.0047	U	0.0049	U	0.0059	U
Methyl Acetate	1200000	82		mg/kg	0.3	U	0.0044	U	0.0051	U	0.0048	U	0.0047	U	0.006	U	0.0047	U	0.0047	U	0.0049	U	0.0059	U
Methyl Tert-Butyl Ether	210	0.064		mg/kg	0.3	U	0.0044	U	0.0051	U	0.0048	U	0.0047	U	0.006	U	0.0047	U	0.0047	U	0.0049	U	0.0059	U
Methylcyclohexane				mg/kg	0.3	U	0.0044	U	0.0051	U	0.0048	U	0.0047	U	0.006	U	0.0047	U	0.0047	U	0.0049	U	0.0059	U
Methylene Chloride	1000	0.058	0.026	mg/kg	0.3	U	0.0044	U	0.0051	U	0.0048	U	0.0047	U	0.006	U	0.0047	U	0.0047	U	0.0049	U	0.0059	U
o-Xylene	2800	3.8		mg/kg	0.3	U	0.0044	U	0.0051	U	0.0048	U	0.0047	U	0.006	U	0.0047	U	0.0047	U	0.0049	U	0.0059	U
Styrene	35000	26	2.2	mg/kg	4.5		0.0044	U	0.0051	U	0.0048	U	0.0047	U	0.006	U	0.0047	U	0.0047	U	0.0049	U	0.0059	U
Tetrachloroethene	100	0.102	0.046	mg/kg	0.05	J	0.0044	U	0.0051	U	0.0048	U	0.0047	U	0.006	U	0.0047	U	0.0047	U	0.0031	J	0.0059	U
Toluene	47000	15.2	13.8	mg/kg	0.3	U	0.0044	U	0.0051	U	0.0048	U	0.0047	U	0.006	U	0.0047	U	0.0047	U	0.0049	U	0.0059	U
Total Xylenes	2500	3.8	198	mg/kg	0.6	U	0.0089	U	0.01	U	0.0095	U	0.0095	U	0.012	U	0.0093	U	0.0095	U	0.0097	U	0.012	U
trans-1,2-Dichloroethene	300	0.42	0.62	mg/kg	0.3	U	0.0044	U	0.0051	U	0.0048	U	0.0047	U	0.006	U	0.00052	J	0.0047	U	0.0049	U	0.0059	U
trans-1,3-Dichloropropene				mg/kg	0.3	U	0.0044	U	0.0051	U	0.0048	U	0.0047	U	0.006	U	0.0047	U	0.0047	U	0.0049	U	0.0059	U
Trichloroethene	6	0.0036	0.036	mg/kg	0.054	J	0.0044	U	0.0051	U	0.0048	U	0.0047	U	0.0012	J	0.00064	J	0.0047	U	0.00068	J	0.0059	U
Trichlorofluoromethane	350000	66		mg/kg	0.3	U	0.0044	U	0.0051	U	0.0048	U	0.0047	U	0.006	U	0.0047	U	0.0047	U	0.0049	U	0.0059	U
Vinyl Chloride	1.7	0.00013	0.0138	mg/kg	0.3	U	0.0044	U	0.0051	U	0.0048	U	0.0047	U	0.006	U	0.0047	U	0.0047	U	0.0049	U	0.0059	U
Semi-Volatiles Organic Compounds																								
1,1'-Biphenyl	200	0.174		mg/kg	0.04	U	0.044	U	0.045	U	0.02	J	0.043	U	0.043		0.044	U	0.045	U	0.098		0.044	U
1,2,4,5-Tetrachlorobenzene	35	0.0158		mg/kg	0.022	J	0.044	U	0.045	U	0.038	U	0.043	U	0.044	U	0.044	U	0.045	U	0.12		0.044	U
2,2'-Oxybis(1-Chloropropane)	47000	5.2		mg/kg	0.047	U	0.053	U	0.053	U	0.045	U	0.051	U	0.047	U	0.052	U	0.053	U	0.046	U	0.052	U
2,3,4,6-Tetrachlorophenol	25000	3.6		mg/kg	0.18	U	0.2	U	0.2	U	0.17	U	0.2	U	0.18	U	0.2	U	0.2	U	0.18	U	0.2	U
2,4,5-Trichlorophenol	82000	80		mg/kg	0.04	U	0.044	U	0.045	U	0.038	U	0.043	U	0.031	J	0.044	U	0.045	U	0.063	U	0.044	U
2,4,6-Trichlorophenol	210	0.08		mg/kg	0.04		0.044	U	0.045	U	0.038	U	0.043	U	0.044		0.044	U	0.045	U	0.047		0.044	U
2,4-Dichlorophenol	2500	0.46		mg/kg	0.22		0.053	U	0.053	U	0.045	U	0.051	U	0.3		0.052	U	0.053	U	0.14		0.052	U
2,4-Dimethylphenol	16000	8.4		mg/kg	0.04	U	0.044	U	0.045	U	0.038	U	0.043	U	0.04	U	0.044	U	0.045	U	0.039	U	0.044	U
2,4-Dinitrophenol	1600	0.88		mg/kg	1.1	U	1.2	U	1.2	U	1	U	1.2	U	1.1	U	1.2	U	1.2	U	1.1	U	1.2	U
2,4-Dinitrotoluene	7.4	0.0064		mg/kg	0.18	U	0.2	U	0.2	U	0.17	U	0.2	U	0.18	U	0.2	U	0.2	U	0.1	J	0.2	U
2,6-Dinitrotoluene	1.5	0.00134		mg/kg	0.04	U	0.044	U	0.045	U	0.038	U	0.043	U	0.04	U	0.044	U	0.045	U	0.039	U	0.044	U
2-Chloronaphthalene	60000	78		mg/kg	0.036	U	0.04	U	0.041	U	0.035	U	0.039	U	0.036	U	0.04	U	0.041	U	0.035	U	0.04	U
2-Chlorophenol	5800	1.78		mg/kg	0.04	U	0.044	U	0.045	U	0.038	U	0.043	U	0.04	U	0.044	U	0.045	U	0.028	J	0.044	U
2-Methylnaphthalene	3000	3.8		mg/kg	0.051		0.02	U	0.02	U	0.026	U	0.013	J	0.15		0.02	U	0.02	U	0.12		0.02	U
2-Methylphenol	41000	15		mg/kg	0.055	U	0.061	U	0.061	U	0.052	U	0.059	U	0.054	U	0.06	U	0.061	U	0.053	U	0.06	U
2-Nitroaniline	8000	1.6		mg/kg	0.055	U	0.061	U	0.061	U	0.052	U	0.059	U	0.054	U	0.06	U	0.061	U	0.053	U	0.06	U
2-Nitrophenol				mg/kg	0.055	U	0.061	U	0.061	U	0.052	U	0.059	U	0.054	U	0.06	U	0.061	U	0.053	U	0.06	U
3,3'-Dichlorobenzidine	5.1	0.0164		mg/kg	0.18	U	0.2	U	0.2	U	0.17	U	0.2	U	0.18	U	0.2	U	0.2	U	0.18	U	0.2	U
3-Nitroaniline				mg/kg	0.18	U	0.2	U	0.2	U	0.17	U	0.2	U	0.18	U	0.2	U	0.2	U	0.18	U	0.2	U
4,6-Dinitro-2-Methylphenol	66	0.052		mg/kg	0.55	U	0.61	U	0.61	U	0.52	U	0.59	U	0.54	U	0.6	U	0.61	U	0.53	U	0.6	U
4-Bromophenyl Phenyl Ether				mg/kg	0.04	U	0.044	U	0.045	U	0.038	U	0.043	U	0.04	U	0.044	U	0.045	U	0.039	U	0.044	U
4-Chloro-3-Methylphenol	82000	34		mg/kg	0.055	U	0.061	U	0.061	U	0.052	U	0.059	U	0.054	U	0.06	U	0.061	U	0.053	U	0.06	U
4-Chloroaniline	11	0.0032		mg/kg	0.18	U	0.2	U	0.2	U	0.17	U	0.2	U	0.18	U	0.2	U	0.2	U	0.18	U	0.2	U
4-Chlorophenyl Phenyl Ether				mg/kg	0.04	U	0.044	U	0.045	U	0.038	U	0.043	U	0.04	U	0.044	U	0.045	U	0.039	U	0.044	U
4-Methylphenol	16000	6		mg/kg	0.055	U	0.061	U	0.061	U	0.052	U	0.059	U	0.054	U	0.06	U	0.061	U	0.053	U	0.06	U
4-Nitroaniline	110	0.032		mg/kg	0.18	U	0.2	U	0.2	U	0.17	U	0.2	U	0.18	U	0.2	U	0.2	U	0.18	U	0.2	U

Table 19. Wastewater Soil Analytical Results
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Claymont, Delaware
Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date			SBWW-01 SBWW-01_0-2 7/13/2021		SBWW-01 SBWW-01_11.5-13.5 7/13/2021		SBWW-01 SBWW-01_11.5-13.5-DUP 7/13/2021		SBWW-02 SBWW-02_0-2 7/12/2021		SBWW-02 SBWW-02_3-5 7/12/2021		SBWW-03 SBWW-03_0-2 7/12/2021		SBWW-03 SBWW-03_10-12 7/12/2021		SBWW-03 SBWW-03_10-12-DUP 7/12/2021		SBWW-04 SBWW-04_0-2 7/13/2021		SBWW-04 SBWW-04_8-10 7/13/2021	
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result
Butylbenzyl Phthalate	1200	4.8		mg/kg	0.24		U	0.2	U	0.17	U	0.2	U	0.18	U	0.2	U	0.2	U	0.18	U	0.2	U
Caprolactam	400000	50		mg/kg	0.18	U		0.2	U	0.17	U	0.2	U	0.18	U	0.2	U	0.2	U	0.18	U	0.2	U
Carbazole				mg/kg	0.018	J		0.044	U	0.061		0.043	U	0.051		0.044	U	0.045	U	0.039	U	0.044	U
Chrysene	2100	180		mg/kg	0.09		UJ	0.02	J	0.35		0.07		0.26		0.02	U	0.02	U	0.12		0.02	U
Dibenzo(a,h)Anthracene	2.1	1.92		mg/kg	0.023		U	0.02	U	0.11		0.02	U	0.068		0.02	U	0.02	U	0.018	U	0.02	U
Dibenzofuran	1200	3		mg/kg	0.04	U		0.044	U	0.017	J	0.043	U	0.04		0.044	U	0.045	U	0.019	J	0.044	U
Diethyl Phthalate	660000	122		mg/kg	0.18	U		0.2	U	0.17	U	0.2	U	0.18	U	0.2	U	0.2	U	0.18	U	0.2	U
Dimethyl Phthalate				mg/kg	2.4		U	0.2	U	0.12	J	0.2	U	0.18	U	0.2	U	0.2	U	0.18	U	0.2	U
Di-n-Butyl Phthalate	82000	46		mg/kg	0.18	U		0.2	U	0.17	U	0.2	U	0.18	U	0.2	U	0.2	U	0.18	U	0.2	U
Di-n-Octyl Phthalate	8200	1140		mg/kg	0.18	U		0.2	U	0.17	U	0.2	U	0.18	U	0.2	U	0.2	U	0.18	U	0.2	U
Fluoranthene	30000	1780		mg/kg	0.16		UJ	0.02	J	0.36		0.1		0.43		0.02	U	0.02	U	0.2		0.02	U
Fluorene	30000	108		mg/kg	0.012	J		0.02	U	0.0061	J	0.027		0.0086	J	0.044		0.02	U	0.02	U	0.018	U
Hexachlorobenzene	0.96	0.0024	0.26	mg/kg	0.0097	J		0.02	U	0.017	U	0.02	U	0.018	U	0.02	U	0.02	U	0.048		0.02	U
Hexachlorobutadiene	5.3	0.0054		mg/kg	0.055	U		0.061	U	0.052	U	0.059	U	0.054	U	0.06	U	0.061	U	0.053	U	0.06	U
Hexachlorocyclopentadiene	7.5	0.026	3.2	mg/kg	0.55	U		0.61	UJ	0.52	U	0.59	U	0.54	U	0.6	U	0.61	U	0.53	UJ	0.6	UJ
Hexachloroethane	8	0.004		mg/kg	0.18	U		0.2	U	0.17	U	0.2	U	0.18	U	0.2	U	0.2	U	0.18	U	0.2	U
Indeno(1,2,3-Cd)Pyrene	21	19.6		mg/kg	0.062		U	0.02	U	0.013	J	0.37		0.035		0.18	U	0.02	U	0.11		0.02	U
Isophorone	2400	0.52		mg/kg	0.073	U		0.081	U	0.069	U	0.078	U	0.073	U	0.081	U	0.082	U	0.07	U	0.08	U
Naphthalene	8.6	0.0076		mg/kg	0.03		U	0.02	U	0.029		0.019	J	0.13		0.02	U	0.02	U	0.053		0.02	U
Nitrobenzene	22	0.00184		mg/kg	0.04	U		0.044	U	0.038	U	0.043	U	0.04	U	0.044	U	0.045	U	0.028	J	0.044	U
n-Nitroso-di-n-Propylamine	0.33	0.000162		mg/kg	0.073	U		0.081	U	0.069	U	0.078	U	0.073	U	0.081	U	0.082	U	0.07	U	0.08	U
n-Nitrosodiphenylamine	470	1.34		mg/kg	0.04	U		0.044	U	0.038	U	0.043	U	0.069		0.044	U	0.045	U	0.039	U	0.044	U
Pentachlorophenol	4	0.00114	0.028	mg/kg	0.18	U		0.2	U	0.17	U	0.2	U	0.18	U	0.2	U	0.2	U	0.18	U	0.2	U
Phenanthrene				mg/kg	0.1		UJ	0.02	J	0.11		0.043		0.29		0.02	U	0.02	U	0.12		0.02	U
Phenol	250000	66		mg/kg	0.04	U		0.044	U	0.038	U	0.043	U	0.04	U	0.044	U	0.045	U	0.039	U	0.044	U
Pyrene	23000	260		mg/kg	0.14		UJ	0.02	J	0.41		0.068		0.36		0.02	U	0.02	U	0.15		0.02	U

Notes:
Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), Industrial Soil Screening Level (SSL) (November 2021)
Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20
Exceeds the EPA RSL, Maximum Contaminant Level (MCL) SSL assuming a DAF of 20
Blanks indicate RSL not established or constituent not analyzed
RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0
U = undetected
J = estimated value
J+ = estimated biased high
J- = estimated biased low
R = rejected
MG/KG - milligram per kilogram
SWMU = Solid Waste Management Unit
RCRA = Resource Conservation and Recovery Act
Sample depth shown in Sample ID (e.g., SBBF3-04_6-8 indicates 6 to 8-foot sample)
DUP = Duplicate sample
Exceedances shown may exceed one or more criteria if available

Table 19. Wastewater Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date			SBWW-05 SBWW-05_0-2 7/13/2021		SBWW-05 SBWW-05_9-11 7/13/2021		SBWW-06 SBWW-06_0-2 7/12/2021		SBWW-06 SBWW-06_10-12 7/12/2021		SBWW-07 SBWW-07_0-2 7/12/2021		SBWW-07 SBWW-07_11-13 7/12/2021		SBWW-08 SBWW-08_0-2 7/13/2021		SBWW-08 SBWW-08_8-10 7/13/2021		SBWW-09 SBWW-09_0-2 7/19/2021		SBWW-09 SBWW-09_6.5-8.5 7/19/2021														
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual												
Metals																																				
Aluminum	110000	60000		mg/kg	26000			14000				11000			19000			13000			15000			15000												
Antimony	470	7	5.4	mg/kg	8.3			5.1	U			5	U		5.4	U		2.1	J		4.2	UJ		5	U		5	UJ		4.4	U		5.5	U		
Arsenic	3	0.03	5.8	mg/kg	12			6.4				4.4			4			2.3	J		10			4			7.3			1.6	J					
Barium	220000	3200	1640	mg/kg	290			77	J			130			110			230			88	J		67	J-		45			75						
Beryllium	2300	380	64	mg/kg	1.2			0.78				0.24	J		1			2.1			0.74			0.42	J		0.8			0.51			0.7			
Cadmium	100	2.8	7.6	mg/kg	0.66			0.51	U			0.48	J		0.21	J		3.3			0.16	J		0.33	J		0.5	U		0.44	U		0.55	U		
Calcium				mg/kg	19000			1800	J			49000			810			60000			810			11000			500			970			500			
Chromium			3600000	mg/kg	32			28	J			27			28			35			26			19			23			29			23			
Cobalt	350	5.4		mg/kg	17			3.5				5.2			9.8			8.5			6			5.5			8.7			3.8			5.9			
Copper	47000	560	920	mg/kg	64			9.2				59			17			200			15			60			10			21			9.9			
Iron	820000	7000		mg/kg	25000			21000	J			17000			16000			30000			12000			17000			19000			24000			13000			
Lead	800		280	mg/kg	140			9.3				43			9.9			490			9.1	J-		110			10	J-		13			11			
Magnesium				mg/kg	3400			2600	J			5500			3400			15000			3000			1900			2700			2000			2700			
Manganese	26000	560		mg/kg	230			110	J			220			120			360			99			210			130			150			74			
Nickel	22000	520		mg/kg	25			8				15			22			23			19			11			19			9.4			17			
Potassium				mg/kg	3300			1100	J			2700			1700			2300			1500	J		1200			1100	J-		1500			870			
Selenium	5800	10.4	5.2	mg/kg	5	U		5.1	U			5	U		5.4	U		4.5	U		4.2	U		5	U		5	U		4.4	U		5.5	U		
Silver	5800	16		mg/kg	1	U		0.45	J			0.99	U		1.1	U		0.89	U		0.84	U		0.48	J		0.99	U		0.88	U		1.1	U		
Sodium				mg/kg	720			220				270			200			460			290			240			260			170			510			
Thallium	12	0.28	2.8	mg/kg	3	U		3.1	U			3	U		3.2	U		2.7	U		2.5	U		1.3	J		3	U		1.4	J		3.3	U		
Vanadium	5800	1720		mg/kg	40			41	J-			28			29			37			27			29			25			40			26			
Zinc	350000	7400		mg/kg	270			31				160			61			1100			53			100			47			24			41			
Mercury	46	0.66	2	mg/kg	2.4			0.07	U			0.16			0.05	J		11			0.029	J		1.5			0.072	U		0.062	J		0.068	U		
Pesticides																																				
4,4'-DDD	9.6	0.15		mg/kg	18	J		0.026				8.2			0.0045	J		13			0.008	U		7.2	J		0.0081	U		0.0076	U		0.0078	U		
4,4'-DDE	9.3	0.22		mg/kg	7.7	J		0.018				7.4			0.0083			15			0.008	U		3.6	J		0.0081	U		0.0065	J		0.0078	U		
4,4'-DDT	8.5	1.54		mg/kg	28	J		0.051				19			0.012			57			0.008	U		6.4	J		0.0081	U		0.0076	U		0.0078	U		
Aldrin	0.18	0.003		mg/kg	0.036	U		0.0078	U			0.035	U		0.0081	U		0.037	U		0.008	U		0.015	U		0.0081	U		0.0076	U		0.0078	U		
Alpha-BHC	0.36	0.0084		mg/kg	1.7			0.0078	U			0.057			0.022			0.45			0.0054	J		4.4			0.02			0.0076	U		0.0078	U		
Beta-BHC	1.3	0.003		mg/kg	9.1			0.023				0.65			0.017			15			0.0075	J		2.8			0.0081	U		0.0076	U		0.0078	U		
cis-Chlordane	500	9.8		mg/kg	0.036	U		0.0078	U			0.035	U		0.0081	U		0.037	U		0.008	U		0.015	U		0.0081	U		0.0076	U		0.0078	U		
Delta-BHC				mg/kg	0.41			0.0078	U			0.035	U		0.063			0.24			0.0096	U		0.28			0.015			0.0076	U		0.0078	U		
Dieldrin	0.14	0.00142		mg/kg	0.036	U		0.0078	U			0.035	U		0.0081	U		0.037	U		0.008	U		0.015	U		0.0081	U		0.0076	U		0.0078	U		
Endosulfan I				mg/kg	0.036	U		0.0078	U			0.035	U		0.0081	U		0.037	U		0.008	U		0.015	U		0.0081	U		0.0076	U		0.0078	U		
Endosulfan II				mg/kg	0.036	U		0.0078	U			0.035	U		0.0081	U		0.037	U		0.008	U		0.015	U		0.0081	U		0.0076	U		0.0078	U		
Endosulfan Sulfate	4900	42		mg/kg	0.036	U		0.0078	U			0.035	U		0.0081	U		0.037	U		0.008	U		0.015	U		0.0081	U		0.0076	U		0.0078	U		
Endrin	250	1.84	1.62	mg/kg	0.036	U		0.0078	U			0.035	U		0.0081	U		0.037	U		0.008	U		0.015	U		0.0081	U		0.0076	U		0.0078	U		
Endrin Aldehyde				mg/kg	0.036	U		0.0078	U			0.035	U		0.0081	U		0.037	U		0.008	U		0.015	U		0.0081	U		0.0076	U		0.0078	U		
Endrin Ketone				mg/kg	0.036	U		0.0078	U			0.035	U		0.0081	U		0.037	U		0.008	U		0.015	U		0.0081	U		0.0076	U		0.0078	U		
Gamma-BHC (Lindane)	2.5	0.0048	0.024	mg/kg	0.33			0.0078	U			0.014	J		0.013			0.31			0.0029	J		0.42			0.0077	J		0.0076	U		0.0078	U		
Heptachlor	0.63	0.0024	0.66	mg/kg	0.036	U		0.0078	U			0.035	U		0.0081	U		0.037	U		0.008	U		0.015	U		0.0081	U		0.0076	U		0.0078	U		
Heptachlor Epoxide	0.33	0.00056	0.082	mg/kg	0.036	U		0.0078	U			0.035	U		0.0081	U		0.037	U		0.008	U		0.015	U		0.0081	U		0.0076	U		0.0078	U		
Methoxychlor	4100	40	44	mg/kg	0.07	U		0.015	U			0.069	U		0.016	U		0.072	U		0.015	U		0.028	U		0.016	U		0.015	U		0.015	U		
Toxaphene	2.1	0.22	9.2	mg/kg	0.92	U		0.2	U			0.9	U		0.2	U		0.94	U		0.2	U		0.37	U		0.21	U		0.19	U		0.2	U		
trans-Chlordane	500	28		mg/kg	0.036	U		0.0078	U			0.035	U		0.0081	U		0.037	U		0.008	U		0.015	U		0.0081	U		0.0076	U		0.0078	U		
Volatiles Organics Compounds																																				
1,1,1-Trichloroethane	36000	56	1.4	mg/kg	0.0049	U		0.0049	U			0.0049	U		0.0046	U		0.27	U		0.0043	U		0.0046	U		0.0046	U		0.0047	U		0.0041	U		
1,1,2,2-Tetrachloroethane	2.7	0.0006		mg/kg	0.0049	U		0.0049	U			0.00069	J		0.0048			0.27	U		0.0043	U		0.0046	U		0.0046	U		0.0047	U		0.0041	U		
1,1,2-Trichloro-1,2,2-Trifluoroethane	28000	520		mg/kg	0.0098	U		0.0099	U			0.0098	U		0.00074	J		0.54	U		0.0038	J		0.0092	U		0.0091	U		0.0041	J		0.02			
1,1,2-Trichloroethane	5	0.00178	0.032	mg/kg	0.0049	U		0.0049	U			0.0049	U		0.0046	U		0.27	U		0.0043	U		0.0046	U		0.0046	U		0.0047	U		0.0041	U		
1,1-Dichloroethane	16	0.0156		mg/kg	0.0049	U		0.0049	U			0.0049	U		0.0046	U		0.27	U		0.0043	U		0.0046	U		0.0046	U		0.0047	U		0.0041	U		
1,1-Dichloroethene	1																																			

Table 19. Wastewater Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date			SBWW-05 SBWW-05_0-2 7/13/2021		SBWW-05 SBWW-05_9-11 7/13/2021		SBWW-06 SBWW-06_0-2 7/12/2021		SBWW-06 SBWW-06_10-12 7/12/2021		SBWW-07 SBWW-07_0-2 7/12/2021		SBWW-07 SBWW-07_11-13 7/12/2021		SBWW-08 SBWW-08_0-2 7/13/2021		SBWW-08 SBWW-08_8-10 7/13/2021		SBWW-09 SBWW-09_0-2 7/19/2021		SBWW-09 SBWW-09_6.5-8.5 7/19/2021		
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Bromomethane	30	0.038		mg/kg	0.0049	U	0.0049	U	0.0049	U	0.0046	U	0.27	U	0.0043	U	0.0046	U	0.0046	U	0.0047	U	0.0041	U
Carbon Disulfide	3500	4.8		mg/kg	0.0049	U	0.0049	U	0.0029	J	0.0046	U	0.27	U	0.0043	U	0.0033	J	0.0046	U	0.0047	U	0.0041	U
Carbon Tetrachloride	2.9	0.0036	0.038	mg/kg	0.0049	U	0.0049	U	0.0049	U	0.0046	U	0.27	U	0.0043	U	0.0046	U	0.0046	U	0.0047	U	0.0041	U
Chlorobenzene	1300	1.06	1.36	mg/kg	0.0049	U	0.0011	J	0.0091		0.094		0.19	J	0.02		0.2		0.034		0.00073	J	0.0009	J
Chloroethane	23000	48		mg/kg	0.0049	U	0.0049	U	0.0049	U	0.0038	J	0.27	U	0.0043	U	0.0046	U	0.0046	U	0.0047	U	0.0041	U
Chloroform	1.4	0.00122	0.44	mg/kg	0.0049	U	0.0049	U	0.00073	J	0.0042	J	0.27	U	0.0027	J	0.0016	J	0.0046	U	0.0047	U	0.0018	J
Chloromethane	460	0.98		mg/kg	0.0049	U	0.0049	U	0.0049	U	0.0046	U	0.27	U	0.0043	U	0.0046	U	0.0046	U	0.0047	U	0.0041	U
cis-1,2-Dichloroethene	2300	0.22	0.42	mg/kg	0.0049	U	0.0049	U	0.0049	U	0.0068	J	0.27	U	0.00082	J	0.0046	U	0.0046	U	0.0047	U	0.0041	U
cis-1,3-Dichloropropene				mg/kg	0.0049	U	0.0049	U	0.0049	U	0.0046	U	0.27	U	0.0043	U	0.0046	U	0.0046	U	0.0047	U	0.0041	U
Cyclohexane	27000	260		mg/kg	0.0049	U	0.0049	U	0.0049	U	0.0046	U	0.27	U	0.0043	U	0.0046	U	0.0046	U	0.0047	U	0.0041	U
Dibromochloromethane	39	0.0046	0.42	mg/kg	0.0049	U	0.0049	U	0.0049	U	0.0046	U	0.27	U	0.0043	U	0.0046	U	0.0046	U	0.0047	U	0.0041	U
Dichlorodifluoromethane	370	6		mg/kg	0.0049	U	0.0049	U	0.0049	U	0.0046	U	0.27	U	0.0043	U	0.0046	U	0.0046	U	0.0047	U	0.0041	U
Diethyl Ether	230000	17.6		mg/kg	0.0049	U	0.026		0.0084		0.0079		0.27	U	0.022		0.02		0.0038	J	0.0047	U	0.0036	J
Ethylbenzene	25	0.034	15.6	mg/kg	0.0049	U	0.0049	U	0.0049	U	0.0046	U	0.27	U	0.0043	U	0.0046	U	0.0046	U	0.0047	U	0.0041	U
Isopropylbenzene	9900	14.8		mg/kg	0.0049	U	0.0049	U	0.0049	U	0.0046	U	0.27	U	0.0043	U	0.0046	U	0.0046	U	0.0047	U	0.0041	U
m&p-Xylenes				mg/kg	0.0049	U	0.0049	U	0.0017	J	0.0046	U	0.27	U	0.0043	U	0.0011	J	0.0046	U	0.0047	U	0.0041	U
Methyl Acetate	1200000	82		mg/kg	0.0049	U	0.0049	U	0.0049	U	0.0046	U	0.27	U	0.0043	U	0.0046	U	0.0046	U	0.0047	U	0.0041	U
Methyl Tert-Butyl Ether	210	0.064		mg/kg	0.0049	U	0.0049	U	0.0049	U	0.0046	U	0.27	U	0.0043	U	0.0046	U	0.0046	U	0.0047	U	0.0041	U
Methylcyclohexane				mg/kg	0.0049	U	0.0049	U	0.0049	U	0.0046	U	0.27	U	0.0043	U	0.00073	J	0.0046	U	0.0047	U	0.0041	U
Methylene Chloride	1000	0.058	0.026	mg/kg	0.0049	U	0.0049	U	0.0049	U	0.0046	U	0.27	U	0.0043	U	0.0046	U	0.0046	U	0.0047	U	0.0041	U
o-Xylene	2800	3.8		mg/kg	0.0049	U	0.0049	U	0.0014	J	0.0046	U	0.27	U	0.0043	U	0.00044	J	0.0046	U	0.0047	U	0.0041	U
Styrene	35000	26	2.2	mg/kg	0.0049	U	0.0049	U	0.0049	U	0.0046	U	0.27	U	0.0043	U	0.0046	U	0.0046	U	0.0047	U	0.0041	U
Tetrachloroethene	100	0.102	0.046	mg/kg	0.0049	U	0.0049	U	0.00056	J	0.0013	J	0.27	U	0.00063	J	0.0012	J	0.0046	U	0.0047	U	0.0041	U
Toluene	47000	15.2	13.8	mg/kg	0.0049	U	0.0049	U	0.00066	J	0.0046	U	0.27	U	0.0043	U	0.0024	J	0.0046	U	0.0047	U	0.0041	U
Total Xylenes	2500	3.8	198	mg/kg	0.0098	U	0.0099	U	0.0031	J	0.0092	U	0.54	U	0.0087	U	0.0015	J	0.0091	U	0.0093	U	0.0082	U
trans-1,2-Dichloroethene	300	0.42	0.62	mg/kg	0.0049	U	0.0049	U	0.0049	U	0.0046	U	0.27	U	0.0043	U	0.0046	U	0.0046	U	0.0047	U	0.0041	U
trans-1,3-Dichloropropene				mg/kg	0.0049	U	0.0049	U	0.0049	U	0.0046	U	0.27	U	0.0043	U	0.0046	U	0.0046	U	0.0047	U	0.0041	U
Trichloroethene	6	0.0036	0.036	mg/kg	0.0049	U	0.0049	U	0.00056	J	0.0094		0.27	U	0.002	J	0.0046	U	0.0046	U	0.0047	U	0.0041	U
Trichlorofluoromethane	350000	66		mg/kg	0.0049	U	0.0049	U	0.0049	U	0.0046	U	0.27	U	0.0043	U	0.0046	U	0.0046	U	0.0047	U	0.0041	U
Vinyl Chloride	1.7	0.00013	0.0138	mg/kg	0.0049	U	0.0049	U	0.0049	U	0.0012	J	0.27	U	0.0043	U	0.0046	U	0.0046	U	0.0047	U	0.0041	U
Semi-Volatiles Organic Compounds																								
1,1'-Biphenyl	200	0.174		mg/kg	0.026	J	0.044	U	0.04	U	0.044	U	0.041	U	0.044	U	0.041	U	0.044	U	0.042	U	0.043	U
1,2,4,5-Tetrachlorobenzene	35	0.0158		mg/kg	0.064		0.044	U	0.04	U	0.044	U	0.069		0.044	U	0.041	U	0.044	U	0.042	U	0.043	U
2,2'-Oxybis(1-Chloropropane)	47000	5.2		mg/kg	0.047	U	0.052	U	0.047	U	0.052	U	0.048	U	0.052	U	0.048	U	0.053	U	0.05	U	0.051	U
2,3,4,6-Tetrachlorophenol	25000	3.6		mg/kg	0.18	U	0.2	U	0.18	U	0.2	U	0.18	U	0.2	U	0.19	U	0.2	U	0.19	U	0.19	U
2,4,5-Trichlorophenol	82000	80		mg/kg	0.15	U	0.044	U	0.04	U	0.044	U	0.041	U	0.044	U	0.041	U	0.044	U	0.17	U	0.043	U
2,4,6-Trichlorophenol	210	0.08		mg/kg	1.9		0.044	U	0.069		0.044	U	0.3		0.31		0.48		0.41		1.3		0.59	
2,4-Dichlorophenol	2500	0.46		mg/kg	2.9		0.052	U	0.49		0.052	U	1.2		1.4		1.1		0.67		16		2.5	
2,4-Dimethylphenol	16000	8.4		mg/kg	0.04	U	0.044	U	0.04	U	0.044	U	0.041	U	0.044	U	0.041	U	0.044	U	0.042	U	0.043	U
2,4-Dinitrophenol	1600	0.88		mg/kg	1.1	U	1.2	U	1.1	U	1.2	U	1.1	U	1.2	U	1.1	U	1.2	U	1.1	U	1.2	U
2,4-Dinitrotoluene	7.4	0.0064		mg/kg	0.18	U	0.2	U	0.18	U	0.2	U	0.074	J	0.2	U	0.19	U	0.2	U	0.19	U	0.19	U
2,6-Dinitrotoluene	1.5	0.00134		mg/kg	0.04	U	0.044	U	0.04	U	0.044	U	0.041	U	0.044	U	0.041	U	0.044	U	0.042	U	0.043	U
2-Chloronaphthalene	60000	78		mg/kg	0.036	U	0.04	U	0.036	U	0.04	U	0.037	U	0.04	U	0.037	U	0.04	U	0.038	U	0.039	U
2-Chlorophenol	5800	1.78		mg/kg	0.02	J	0.044	U	0.04	U	0.044	U	0.041	U	0.044	U	1.8		0.044	U	0.026	J	0.021	J
2-Methylnaphthalene	3000	3.8		mg/kg	0.042		0.02	U	0.12	U	0.02	U	0.029	U	0.02	U	0.037		0.02	U	0.019	U	0.019	U
2-Methylphenol	41000	15		mg/kg	0.055	U	0.06	U	0.054	U	0.06	U	0.055	U	0.06	U	0.056	U	0.061	U	0.057	U	0.058	U
2-Nitroaniline	8000	1.6		mg/kg	0.055	U	0.06	U	0.054	U	0.06	U	0.055	U	0.06	U	0.056	U	0.061	U	0.057	U	0.058	U
2-Nitrophenol				mg/kg	0.055	U	0.06	U	0.054	U	0.06	U	0.055	U	0.06	U	0.056	U	0.061	U	0.057	U	0.058	U
3,3'-Dichlorobenzidine	5.1	0.0164		mg/kg	0.18	U	0.2	U	0.18	U	0.2	U	0.18	U	0.2	U	0.19	U	0.2	U	0.19	U	0.19	U
3-Nitroaniline				mg/kg	0.18	U	0.2	U	0.18	U	0.2	U	0.18	U	0.2	U	0.19	U	0.2	U	0.19	U	0.19	U
4,6-Dinitro-2-Methylphenol	66	0.052		mg/kg	0.55	U	0.6	U	0.54	U	0.6	U	0.55	U	0.6	U	0.56	U	0.61	U	0.57	U	0.58	U
4-Bromophenyl Phenyl Ether				mg/kg	0.04	U	0.044	U	0.04	U	0.044	U	0.041	U	0.044	U	0.041	U	0.044	U	0.042	U	0.043	U
4-Chloro-3-Methylphenol	82000	34		mg/kg	0.055	U	0.06	U	0.054	U	0.06	U	0.055	U	0.06	U	0.056	U	0.061	U	0.057	U	0.058	U
4-Chloroaniline	11	0.0032		mg/kg	0.18	U	0.2	U	0.18	U	0.2	U	0.18	U	0.2	U	0.19	U	0.2	U	0.19	U	0.19	U
4-Chlorophenyl Phenyl Ether				mg/kg	0.04	U	0.044	U	0.04	U	0.044	U	0.041	U	0.044	U	0.041	U	0.044	U	0.042	U	0.043	U
4-Methylphenol	16000	6		mg/kg	0.055	U	0.06	U	0.054	U	0.06	U	0.055	U	0.06	U	0.022	J	0.061	U	0.057	U	0.058	U
4-Nitroaniline	110	0.032		mg/kg	0.18	U	0.2	U	0.18	U	0.2	U	0.18	U	0.2	U	0.19	U	0.2	U	0.19			

Table 19. Wastewater Soil Analytical Results
RCRA Facility Investigation Report
Honeywell Delaware Valley Works
Claymont, Delaware
Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date			SBWW-05 SBWW-05_0-2 7/13/2021		SBWW-05 SBWW-05_9-11 7/13/2021		SBWW-06 SBWW-06_0-2 7/12/2021		SBWW-06 SBWW-06_10-12 7/12/2021		SBWW-07 SBWW-07_0-2 7/12/2021		SBWW-07 SBWW-07_11-13 7/12/2021		SBWW-08 SBWW-08_0-2 7/13/2021		SBWW-08 SBWW-08_8-10 7/13/2021		SBWW-09 SBWW-09_0-2 7/19/2021		SBWW-09 SBWW-09_6.5-8.5 7/19/2021		
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Butylbenzyl Phthalate	1200	4.8		mg/kg	0.18	U	0.2	U	0.18	U	0.2	U	0.18	U	0.2	U	0.19	U	0.2	U	0.19	U	0.19	U
Caprolactam	400000	50		mg/kg	0.18	U	0.2	U	0.18	U	0.2	U	0.18	U	0.2	U	0.19	U	0.2	U	0.19	U	0.19	U
Carbazole				mg/kg	0.018	J	0.044	U	0.04	U	0.044	U	0.035	J	0.044	U	0.032	J	0.044	U	0.042	U	0.043	U
Chrysene	2100	180		mg/kg	0.16		0.02	U	0.037		0.02	U	0.21		0.02	U	0.36		0.02	U	0.0052	J	0.019	U
Dibenzo(a,h)Anthracene	2.1	1.92		mg/kg	0.039		0.02	U	0.018		0.02	U	0.056		0.02	U	0.066		0.02	U	0.019	U	0.019	U
Dibenzofuran	1200	3		mg/kg	0.04	U	0.044	U	0.04	U	0.044	U	0.041	U	0.044	U	0.024	J	0.044	U	0.042	U	0.043	U
Diethyl Phthalate	660000	122		mg/kg	0.18	U	0.2	U	0.18	U	0.2	U	0.18	U	0.2	U	0.19	U	0.2	U	0.19	U	0.19	U
Dimethyl Phthalate				mg/kg	0.18	U	0.2	U	0.18	U	0.2	U	0.18	U	0.2	U	0.19	U	0.2	U	0.19	U	0.19	U
Di-n-Butyl Phthalate	82000	46		mg/kg	0.18	U	0.2	U	0.18	U	0.2	U	0.18	U	0.2	U	0.19	U	0.2	U	0.19	U	0.19	U
Di-n-Octyl Phthalate	8200	1140		mg/kg	0.18	U	0.2	U	0.18	U	0.2	U	0.18	U	0.2	U	0.19	U	0.2	U	0.19	U	0.19	U
Fluoranthene	30000	1780		mg/kg	0.22		0.02	U	0.051		0.02	U	0.35		0.02	U	0.5		0.02	U	0.0045	J	0.019	U
Fluorene	30000	108		mg/kg	0.01	J	0.02	U	0.0074	J	0.02	U	0.022		0.02	U	0.031		0.02	U	0.019	U	0.019	U
Hexachlorobenzene	0.96	0.0024	0.26	mg/kg	0.1		0.02	U	0.018	U	0.02	U	0.033		0.02	U	0.019	U	0.02	U	0.019	U	0.019	U
Hexachlorobutadiene	5.3	0.0054		mg/kg	0.055	U	0.06	U	0.054	U	0.06	U	0.055	U	0.06	U	0.056	U	0.061	U	0.057	U	0.058	U
Hexachlorocyclopentadiene	7.5	0.026	3.2	mg/kg	0.55	UJ	0.6	UJ	0.54	U	0.6	U	0.55	R	0.6	U	0.56	UJ	0.61	UJ	0.57	U	0.58	U
Hexachloroethane	8	0.004		mg/kg	0.18	U	0.2	U	0.18	U	0.2	U	0.18	UJ	0.2	U	0.19	U	0.2	U	0.19	U	0.19	U
Indeno(1,2,3-Cd)Pyrene	21	19.6		mg/kg	0.12		0.02	U	0.026		0.02	U	0.16		0.02	U	0.18		0.02	U	0.019	U	0.019	U
Isophorone	2400	0.52		mg/kg	0.073	U	0.08	U	0.073	U	0.08	U	0.074	U	0.08	U	0.074	U	0.081	U	0.076	U	0.078	U
Naphthalene	8.6	0.0076		mg/kg	0.043		0.02	U	0.018	U	0.011	J	0.018	U	0.02	U	0.019	U	0.02	U	0.0099	J	0.019	U
Nitrobenzene	22	0.00184		mg/kg	0.04	U	0.044	U	0.04	U	0.044	U	0.041	U	0.044	U	0.041	U	0.044	U	0.042	U	0.043	U
n-Nitroso-di-n-Propylamine	0.33	0.000162		mg/kg	0.073	U	0.08	U	0.073	U	0.08	U	0.074	U	0.08	U	0.074	U	0.081	U	0.076	U	0.078	U
n-Nitrosodiphenylamine	470	1.34		mg/kg	0.021	J	0.044	U	0.04	U	0.044	U	0.041	U	0.044	U	0.041	U	0.044	U	0.042	U	0.043	U
Pentachlorophenol	4	0.00114	0.028	mg/kg	0.18	U	0.2	U	0.18	U	0.2	U	0.18	U	0.2	U	0.19	U	0.2	U	0.19	U	0.19	U
Phenanthrene				mg/kg	0.13		0.02	U	0.031		0.02	U	0.24		0.02	U	0.31		0.02	U	0.019	U	0.019	U
Phenol	250000	66		mg/kg	0.04	U	0.044	U	0.04	U	0.044	U	0.041	U	0.044	U	0.041	U	0.044	U	0.042	U	0.043	U
Pyrene	23000	260		mg/kg	0.18		0.02	U	0.047		0.02	U	0.29		0.02	U	0.47		0.02	U	0.019	U	0.019	U

Notes:
Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), Industrial Soil Screening Level (SSL) (November 2021)
Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20
Exceeds the EPA RSL, Maximum Contaminant Level (MCL) SSL assuming a DAF of 20
Blanks indicate RSL not established or constituent not analyzed
RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0
U = undetected
J = estimated value
J+ = estimated biased high
J- = estimated biased low
R = rejected
MG/KG - milligram per kilogram
SWMU = Solid Waste Management Unit
RCRA = Resource Conservation and Recovery Act
Sample depth shown in Sample ID (e.g., SBBF3-04_6-8 indicates 6 to 8-foot sample)
DUP = Duplicate sample
Exceedances shown may exceed one or more criteria if available

Table 19. Wastewater Soil Analytical Results
RCRA Facility Investigation Report
Honeywell Delaware Valley Works
Claymont, Delaware
Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date			SBWW-10 SBWW-10_8.5-10.5 7/7/2021	SBWW-11 SBWW-11_0-2 7/7/2021	SBWW-11 SBWW-11_10-12 7/7/2021	SBWW-11 SBWW-11_10-12.DUP 7/7/2021	SBWW-12 SBWW-12_0-2 7/20/2021	SBWW-12 SBWW-12_3-5 7/20/2021	SBWW-12A SBWW-12A_0-2 7/26/2021	SBWW-12A SBWW-12A_2-4 7/26/2021	SBWW-12AB SBWW-12AB_0-2 8/11/2021	SBWW-12AB SBWW-12AB_2-4 8/11/2021											
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual										
Metals																								
Aluminum	110000	60000		mg/kg	12000		11000		12000		15000		16000		1000		14000		17000		25000		21000	
Antimony	470	7	5.4	mg/kg	5.5	U	4.4	U	4.2	UJ	6	UJ	1.7	J	33		4.1	U	5.7	U	2.3	J	4.3	U
Arsenic	3	0.03	5.8	mg/kg	3.7		6.8		1.7	J	3	J	5.5		3		5.2		20		11		4.6	
Barium	220000	3200	1640	mg/kg	55		78		50	J-	56	J-	100		43		79		130		220		49	
Beryllium	2300	380	64	mg/kg	0.55	U	0.2	J	0.4	J	0.84	J	0.61		0.15	J	0.67		0.57	U	0.58		0.34	J
Cadmium	100	2.8	7.6	mg/kg	0.55	U	0.26	J	0.42	U	0.6	U	1		37		0.3	J	1.8		1.1		0.43	U
Calcium				mg/kg	2000		1800		940	J	970	J	2700		2600		5600		4100		3300		1000	
Chromium			3600000	mg/kg	31		13		24	J	52	J	43		100		22		37		46		29	
Cobalt	350	5.4		mg/kg	4.8		4.1		12	J	13	J	8.8		32		6.2		10		12		5.2	
Copper	47000	560	920	mg/kg	16		20		14	J	27	J	39		670		24		52		100		12	
Iron	820000	7000		mg/kg	14000		8300		17000	J	37000	J	25000		410000		16000		51000		37000		19000	
Lead	800		280	mg/kg	7.6		27		9.2	J	20	J	110		320		83		100		120		10	
Magnesium				mg/kg	2900		1300		3000		3100		1900		300		3600		3700		4300		2200	
Manganese	26000	560		mg/kg	120		62		200	J	250	J	230		1900		250		230		270		120	
Nickel	22000	520		mg/kg	13		8		16	J	26	J	14		70		14		20		33		10	
Potassium				mg/kg	1800		940		1200	J	1100	J	1100		110		1400		2300		3400		1400	
Selenium	5800	10.4	5.2	mg/kg	3.1	J	4.4	U	4.2	UJ	6	UJ	2.3	J	7.2		4.1	U	5.7	U	2.8	J	4.3	U
Silver	5800	16		mg/kg	1.1	U	0.88	U	0.84	U	1.2	U	0.82		0.6	J	0.81	U	1.1	U	0.94	U	0.86	U
Sodium				mg/kg	79	J	58	J	86	J	84	J	140		48	J	450		590		120		86	
Thallium	12	0.28	2.8	mg/kg	3.3	U	2.7	U	2.5	U	3.6	U	2.4	U	6.8		2.4	U	3.4	U	1.5	J	1.1	J
Vanadium	5800	1720		mg/kg	38		20		35	J	57	J	36		160		33		41		51		41	
Zinc	350000	7400		mg/kg	37		160		35	J-	52	J-	100		180		120		76		160		34	
Mercury	46	0.66	2	mg/kg	0.072	U	0.18		0.073	U	0.074	U	0.22		0.12		0.28		0.17		1.2		0.046	J
Pesticides																								
4,4'-DDD	9.6	0.15		mg/kg	0.0084	U	130		0.049	J	0.011	J	18		1.9		0.016	J	0.18		400	J	24	J
4,4'-DDE	9.3	0.22		mg/kg	0.017		2.1		0.0063	J	0.0047	J	4.2		0.74		0.023	J+	0.1	J	200	J	5.3	J
4,4'-DDT	8.5	1.54		mg/kg	0.0089		3.4		0.008	U	0.0081	U	35		0.76		0.039	U	0.039	U	2900	J	450	J
Aldrin	0.18	0.003		mg/kg	0.0084	U	0.016	U	0.008	U	0.0081	U	0.015	U	0.041	U	0.039	U	0.039	U	0.0069	R	0.0078	R
Alpha-BHC	0.36	0.00084		mg/kg	0.0084	U	39		0.016	J	0.0033	J	0.36		0.48		0.039	U	0.039	U	5.1	J-	810	J-
Beta-BHC	1.3	0.003		mg/kg	0.027		4.8		0.0099		0.0081	U	1.4		1.1		0.039	U	0.039	U	150	J-	24	J-
cis-Chlordane	500	9.8		mg/kg	0.0084	U	0.016	U	0.008	U	0.0081	U	0.015	U	0.041	U	0.039	U	0.039	U	0.0069	R	0.0078	R
Delta-BHC				mg/kg	0.0084	U	1.1	J	0.008	U	0.0081	U	0.23	J	0.31		0.039	U	0.039	U	1.3	J	2.5	J
Dieldrin	0.14	0.00142		mg/kg	0.0084	U	0.016	U	0.008	U	0.0081	U	0.015	U	0.041	U	0.039	U	0.039	U	0.0069	R	0.0078	R
Endosulfan I				mg/kg	0.0084	U	0.016	U	0.008	U	0.0081	U	0.015	U	0.041	U	0.039	U	0.039	U	0.0069	R	0.0078	R
Endosulfan II				mg/kg	0.0084	U	0.016	U	0.008	U	0.0081	U	0.015	U	0.041	U	0.039	U	0.039	U	0.0069	R	0.0078	R
Endosulfan Sulfate	4900	42		mg/kg	0.0084	U	0.016	U	0.008	U	0.0081	U	0.015	U	0.041	U	0.039	U	0.039	U	0.0069	R	0.0078	R
Endrin	250	1.84	1.62	mg/kg	0.0084	U	0.016	U	0.008	U	0.0081	U	0.015	U	0.041	U	0.039	U	0.039	U	0.0069	R	0.0078	R
Endrin Aldehyde				mg/kg	0.0084	U	0.016	U	0.008	U	0.0081	U	0.015	U	0.041	U	0.039	U	0.039	U	0.0069	R	0.0078	R
Endrin Ketone				mg/kg	0.0084	U	0.016	U	0.008	U	0.0081	U	0.015	U	0.041	U	0.039	U	0.039	U	0.0069	R	0.0078	R
Gamma-BHC (Lindane)	2.5	0.0048	0.024	mg/kg	0.0084	U	3.2		0.008	U	0.0081	U	0.045		0.15	J	0.039	U	0.039	U	1.9	J-	14	J-
Heptachlor	0.63	0.0024	0.66	mg/kg	0.0084	U	0.016	U	0.008	U	0.0081	U	0.015	U	0.041	U	0.039	U	0.039	U	0.0069	R	0.0078	R
Heptachlor Epoxide	0.33	0.00056	0.082	mg/kg	0.0084	U	0.016	U	0.008	U	0.0081	U	0.015	U	0.041	U	0.039	U	0.039	U	0.0069	R	0.0078	R
Methoxychlor	4100	40	44	mg/kg	0.016	U	0.03	U	0.016	U	0.016	U	0.03	U	0.079	U	0.075	U	0.076	U	0.013	R	0.015	R
Toxaphene	2.1	0.22	9.2	mg/kg	0.21	U	0.39	U	0.2	U	0.21	U	0.39	U	1	U	0.99	U	1	U	0.17	R	0.2	R
trans-Chlordane	500	28		mg/kg	0.0084	U	0.016	U	0.008	U	0.0081	U	0.015	U	0.041	U	0.039	U	0.039	U	0.0069	R	0.0078	R
Volatiles Organics Compounds																								
1,1,1-Trichloroethane	36000	56	1.4	mg/kg	0.005	U	0.0042	U	0.0049	U	0.0046	U	0.0061	U	0.26	U	0.0046	U	0.0044	U	0.0053	U	0.27	U
1,1,2,2-Tetrachloroethane	2.7	0.0006		mg/kg	0.005	U	0.0042	U	0.0049	U	0.0046	U	0.0061	U	0.26	U	0.0046	U	0.0044	U	0.0053	U	0.27	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	28000	520		mg/kg	0.0099	U	0.0083	U	0.0098	U	0.0092	U	0.012	U	0.53	UJ	0.0093	U	0.0087	U	0.011	U	0.54	U
1,1,2-Trichloroethane	5	0.00178	0.032	mg/kg	0.005	U	0.0042	U	0.0049	U	0.0046	U	0.0061	U	0.26	U	0.0046	U	0.0044	U	0.0053	U	0.27	U
1,1-Dichloroethane	16	0.0156		mg/kg	0.005	U	0.0042	U	0.0049	U	0.0046	U	0.0061	U	0.26	U	0.0046	U	0.0044	U	0.0053	U	0.27	U
1,1-Dichloroethene	1000	2	0.05	mg/kg	0.005	U	0.0042	U	0.0049	U	0.0046	U	0.0061	U	0.26	U	0.0046	U	0.0044	U	0.0053	U	0.27	U
1,2,3-Trichlorobenzene	930	0.42		mg/kg	0.0099	U	0.0083	U	0.0098	U	0.0092	U	0.012	U	0.53	U	0.0093	U	0.0087	U	0.011	U	0.54	U
1,2,4-Trichlorobenzene	110	0.068	4	mg/kg	0.0099	U	0.0096	U	0.0098	U	0.0092	U	0.012	U	0.83		0.0093	U	0.0087	U	0.011	U	0.54	U
1,2-Dibromo-3-Chloropropane	0.064	0.0000028	0.00172	mg/kg	0.005	U	0.0042	U	0.0049	U	0.0046	U	0.0061	U	0.26	U	0.0046	U	0.0044	U	0.0053	U	0.27	U
1,2-Dibromoethane																								

Table 19. Wastewater Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date			SBWW-10 SBWW-10_8.5-10.5 7/7/2021		SBWW-11 SBWW-11_0-2 7/7/2021		SBWW-11 SBWW-11_10-12 7/7/2021		SBWW-11 SBWW-11_10-12.DUP 7/7/2021		SBWW-12 SBWW-12_0-2 7/20/2021		SBWW-12 SBWW-12_3-5 7/20/2021		SBWW-12A SBWW-12A_0-2 7/26/2021		SBWW-12A SBWW-12A_2-4 7/26/2021		SBWW-12AB SBWW-12AB_0-2 8/11/2021		SBWW-12AB SBWW-12AB_2-4 8/11/2021		
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Bromomethane	30	0.038		mg/kg	0.005	U	0.0042	U	0.0049	U	0.0046	U	0.0061	U	0.26	U	0.0046	U	0.0044	U	0.0053	U	0.27	U
Carbon Disulfide	3500	4.8		mg/kg	0.005	U	0.0014	J	0.0049	U	0.0046	U	0.0061	U	0.26	U	0.0014	J	0.0056	U	0.0053	U	0.27	U
Carbon Tetrachloride	2.9	0.0036	0.038	mg/kg	0.005	U	0.0042	U	0.0049	U	0.0046	U	0.0061	U	0.26	U	0.0046	U	0.0044	U	0.0053	U	0.27	U
Chlorobenzene	1300	1.06	1.36	mg/kg	0.005	U	4.5		0.0049	U	0.0011	J	0.028		110		0.0046	U	0.0015	J	0.0053	U	1.3	
Chloroethane	23000	48		mg/kg	0.005	U	0.0042	U	0.0049	U	0.0046	U	0.0061	U	0.26	U	0.0046	U	0.0044	U	0.0053	U	0.27	U
Chloroform	1.4	0.00122	0.44	mg/kg	0.005	U	0.0042	U	0.0049	U	0.0046	U	0.0061	U	0.26	U	0.0046	U	0.0044	U	0.0053	U	0.27	U
Chloromethane	460	0.98		mg/kg	0.005	U	0.0042	U	0.0049	U	0.0046	U	0.0061	U	0.26	U	0.0046	U	0.0044	U	0.0053	U	0.27	U
cis-1,2-Dichloroethene	2300	0.22	0.42	mg/kg	0.0038	J	0.0042	U	0.0049	U	0.0025	J	0.0061	U	0.26	U	0.0046	U	0.0044	U	0.0053	U	0.27	U
cis-1,3-Dichloropropene				mg/kg	0.005	U	0.0042	U	0.0049	U	0.0046	U	0.0061	U	0.26	U	0.0046	U	0.0044	U	0.0053	U	0.27	U
Cyclohexane	27000	260		mg/kg	0.005	U	0.0042	U	0.0049	U	0.0046	U	0.0061	U	0.26	U	0.0046	U	0.0044	U	0.0053	U	0.27	U
Dibromochloromethane	39	0.0046	0.42	mg/kg	0.005	U	0.0042	U	0.0049	U	0.0046	U	0.0061	U	0.26	U	0.0046	U	0.0044	U	0.0053	U	0.27	U
Dichlorodifluoromethane	370	6		mg/kg	0.005	U	0.0042	U	0.0049	U	0.0046	U	0.0061	U	0.26	UJ	0.0046	U	0.0044	U	0.0053	U	0.27	U
Diethyl Ether	230000	17.6		mg/kg	0.005	U	0.0042	U	0.0049	U	0.0046	U	0.0061	U	0.26	U	0.0046	U	0.0044	U	0.0053	U	0.27	U
Ethylbenzene	25	0.034	15.6	mg/kg	0.005	U	0.0042	U	0.0049	U	0.0046	U	0.0061	U	0.45		0.0046	U	0.0044	U	0.0053	U	0.27	U
Isopropylbenzene	9900	14.8		mg/kg	0.005	U	0.0042	U	0.0049	U	0.0046	U	0.0061	U	0.27		0.0046	U	0.0044	U	0.0053	U	0.27	U
m&p-Xylenes				mg/kg	0.005	U	0.0042	U	0.0049	U	0.0046	U	0.0061	U	0.053	J	0.0046	U	0.0044	U	0.0053	U	0.27	U
Methyl Acetate	1200000	82		mg/kg	0.005	U	0.0042	U	0.0049	U	0.0046	U	0.0061	U	0.15	J	0.0046	U	0.0044	U	0.0053	U	0.24	J
Methyl Tert-Butyl Ether	210	0.064		mg/kg	0.005	U	0.0042	UJ	0.0049	U	0.0046	U	0.0061	U	0.26	U	0.0046	U	0.0044	UJ	0.0053	U	0.27	U
Methylcyclohexane				mg/kg	0.005	U	0.0042	U	0.0049	U	0.0046	U	0.0061	U	0.19	J-	0.0046	U	0.0044	U	0.0053	U	0.27	U
Methylene Chloride	1000	0.058	0.026	mg/kg	0.005	U	0.0042	U	0.0049	U	0.0046	U	0.0061	U	0.26	U	0.0046	U	0.0044	U	0.0053	U	0.27	U
o-Xylene	2800	3.8		mg/kg	0.005	U	0.0042	U	0.0049	U	0.0046	U	0.0061	U	0.08	J	0.0046	U	0.0044	U	0.0053	U	0.27	U
Styrene	35000	26	2.2	mg/kg	0.005	U	0.0042	U	0.0049	U	0.0046	U	0.0061	U	0.26	U	0.0046	U	0.0044	U	0.0053	U	0.27	U
Tetrachloroethene	100	0.102	0.046	mg/kg	0.008		0.0042	U	0.0049	U	0.0046	U	0.0061	U	0.26	U	0.0046	U	0.0044	U	0.0053	U	0.27	U
Toluene	47000	15.2	13.8	mg/kg	0.005	U	0.0042	U	0.0049	U	0.0046	U	0.0061	U	0.052	J	0.0046	U	0.0044	U	0.0053	U	0.27	U
Total Xylenes	2500	3.8	198	mg/kg	0.0099	U	0.0083	U	0.0098	U	0.0092	U	0.012	U	0.13	J	0.0093	U	0.0087	U	0.011	U	0.54	U
trans-1,2-Dichloroethene	300	0.42	0.62	mg/kg	0.005	U	0.0042	U	0.0049	U	0.0046	U	0.0061	U	0.26	U	0.0046	U	0.0044	U	0.0053	U	0.27	U
trans-1,3-Dichloropropene				mg/kg	0.005	U	0.0042	U	0.0049	U	0.0046	U	0.0061	U	0.26	U	0.0046	U	0.0044	U	0.0053	U	0.27	U
Trichloroethene	6	0.0036	0.036	mg/kg	0.0034	J	0.0042	U	0.0049	U	0.00046	J	0.0061	U	0.26	U	0.0046	U	0.0044	U	0.0053	U	0.27	U
Trichlorofluoromethane	350000	66		mg/kg	0.005	U	0.0042	U	0.0049	U	0.0046	U	0.0061	U	0.26	U	0.0046	U	0.0044	U	0.0053	U	0.27	U
Vinyl Chloride	1.7	0.00013	0.0138	mg/kg	0.005	U	0.0042	U	0.0049	U	0.0031	J	0.0061	U	0.26	U	0.0046	U	0.0044	U	0.0053	U	0.27	U
Semi-Volatiles Organic Compounds																								
1,1'-Biphenyl	200	0.174		mg/kg	0.045	U	0.042	U	0.044	U	0.044	U	0.043	U	2.3		0.22	U	0.043	U	0.018	J	0.043	U
1,2,4,5-Tetrachlorobenzene	35	0.0158		mg/kg	0.045	U	0.042	U	0.044	U	0.044	U	0.019	J	0.45	U	0.22	U	0.043	U	0.038	U	0.043	U
2,2'-Oxybis(1-Chloropropane)	47000	5.2		mg/kg	0.054	U	0.05	U	0.052	U	0.052	U	0.051	U	0.53	U	0.25	U	0.051	U	0.045	UJ	0.051	UJ
2,3,4,6-Tetrachlorophenol	25000	3.6		mg/kg	0.21	U	0.19	U	0.2	U	0.2	U	0.19	U	2.1	U	0.98	U	0.2	U	0.17	U	0.2	U
2,4,5-Trichlorophenol	82000	80		mg/kg	0.045	U	0.042	U	0.044	U	0.044	U	0.045	U	0.45	U	0.22	U	0.043	U	0.053	U	0.043	U
2,4,6-Trichlorophenol	210	0.08		mg/kg	0.045	U	0.042	U	0.044	U	0.044	U	0.043	U	0.45	U	0.22	U	0.043	U	0.086		0.043	U
2,4-Dichlorophenol	2500	0.46		mg/kg	0.054	U	0.05	U	0.052	U	0.052	U	0.063	U	0.53	U	0.25	U	0.051	U	0.14		0.051	U
2,4-Dimethylphenol	16000	8.4		mg/kg	0.045	U	0.042	U	0.044	U	0.044	U	0.043	U	0.45	U	0.22	U	0.043	U	0.038	U	0.043	U
2,4-Dinitrophenol	1600	0.88		mg/kg	1.2	U	1.1	UJ	1.2	UJ	1.2	UJ	1.2	U	12	U	5.9	U	1.2	U	1	U	1.2	U
2,4-Dinitrotoluene	7.4	0.0064		mg/kg	0.21	U	0.19	U	0.2	U	0.2	U	0.19	U	2.1	U	0.98	U	0.2	U	0.17	U	0.2	U
2,6-Dinitrotoluene	1.5	0.00134		mg/kg	0.045	U	0.042	U	0.044	U	0.044	U	0.043	U	0.45	U	0.22	U	0.043	U	0.038	U	0.043	U
2-Chloronaphthalene	60000	78		mg/kg	0.041	U	0.038	U	0.04	U	0.04	U	0.039	U	0.41	U	0.2	U	0.039	U	0.035	U	0.039	U
2-Chlorophenol	5800	1.78		mg/kg	0.045	U	0.042	U	0.044	U	0.044	U	0.043	U	0.38	J	0.22	U	0.043	U	0.038	U	0.043	U
2-Methylnaphthalene	3000	3.8		mg/kg	0.015	J	0.028		0.02	U	0.02	U	0.07		5.4		0.14		0.026		0.021		0.02	U
2-Methylphenol	41000	15		mg/kg	0.062	U	0.057	U	0.059	U	0.061	U	0.058	U	0.62	U	0.29	U	0.059	U	0.052	U	0.059	U
2-Nitroaniline	8000	1.6		mg/kg	0.062	U	0.057	U	0.059	U	0.061	U	0.058	U	0.62	U	0.29	U	0.059	U	0.052	U	0.059	U
2-Nitrophenol				mg/kg	0.062	U	0.057	U	0.059	U	0.061	U	0.058	U	0.62	U	0.29	U	0.059	U	0.052	U	0.059	U
3,3'-Dichlorobenzidine	5.1	0.0164		mg/kg	0.21	U	0.19	U	0.2	U	0.2	U	0.19	U	2.1	U	0.98	U	0.2	U	0.17	U	0.2	U
3-Nitroaniline				mg/kg	0.21	U	0.19	U	0.2	U	0.2	U	0.19	U	2.1	U	0.98	U	0.2	U	0.17	U	0.2	U
4,6-Dinitro-2-Methylphenol	66	0.052		mg/kg	0.62	U	0.57	U	0.59	U	0.61	U	0.58	U	6.2	U	2.9	U	0.59	U	0.52	U	0.59	U
4-Bromophenyl Phenyl Ether				mg/kg	0.045	U	0.042	U	0.044	U	0.044	U	0.043	U	0.45	U	0.22	U	0.043	U	0.038	U	0.043	U
4-Chloro-3-Methylphenol	82000	34		mg/kg	0.062	U	0.057	U	0.059	U	0.061	U	0.058	U	0.62	U	0.29	U	0.059	U	0.052	U	0.059	U
4-Chloroaniline	11	0.0032		mg/kg	0.21	U	0.19	U	0.2	U	0.2	U	0.19	U	2.1	U	0.98	U	0.2	U	0.17	U	0.2	U
4-Chlorophenyl Phenyl Ether				mg/kg	0.045	U	0.042	U	0.044	U	0.044	U	0.043	U	0.45	U	0.22	U	0.043	U	0.038	U	0.043	U
4-Methylphenol	16000	6		mg/kg	0.062	U	0.057	U	0.059	U	0.061	U	0.058	U	0.62	U	0.29	U	0.059	U	0.052	U	0.059	U
4-Nitroaniline	110	0.032		mg/kg	0.21	U	0.19	U	0.2	U	0.2	U	0.19	U	2.1	U	0.98	U	0.2	U	0.17	U	0.2	U
4-Nitrophenol				mg/kg	0.62	U	0.57	U	0															

Table 19. Wastewater Soil Analytical Results
RCRA Facility Investigation Report
Honeywell Delaware Valley Works
Claymont, Delaware
Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date			SBWW-10 SBWW-10_8.5-10.5 7/7/2021		SBWW-11 SBWW-11_0-2 7/7/2021		SBWW-11 SBWW-11_10-12 7/7/2021		SBWW-11 SBWW-11_10-12-DUP 7/7/2021		SBWW-12 SBWW-12_0-2 7/20/2021		SBWW-12 SBWW-12_3-5 7/20/2021		SBWW-12A SBWW-12A_0-2 7/26/2021		SBWW-12A SBWW-12A_2-4 7/26/2021		SBWW-12AB SBWW-12AB_0-2 8/11/2021		SBWW-12AB SBWW-12AB_2-4 8/11/2021		
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Butylbenzyl Phthalate	1200	4.8		mg/kg	0.21	U	0.19	U	0.2	U	0.2	U	0.19	U	2.1	U	0.98	U	0.2	U	0.17	U	0.2	U
Caprolactam	400000	50		mg/kg	0.21	U	0.19	U	0.2	U	0.2	U	0.19	U	2.1	U	0.98	U	0.2	U	0.17	U	0.2	U
Carbazole				mg/kg	0.045	U	0.042	U	0.044	U	0.044	U	0.048	U	0.45	U	0.43	U	0.049	U	0.038	U	0.043	U
Chrysene	2100	180		mg/kg	0.021	U	0.019	U	0.02	U	0.02	U	0.44	U	0.84	U	2	U	0.32	U	0.1	U	0.02	U
Dibenzo(a,h)Anthracene	2.1	1.92		mg/kg	0.021	U	0.019	U	0.02	U	0.02	U	0.077	U	0.21	U	0.26	U	0.052	U	0.017	U	0.02	U
Dibenzofuran	1200	3		mg/kg	0.045	U	0.042	U	0.044	U	0.044	U	0.029	J	2.2	U	0.33	U	0.026	J	0.038	U	0.043	U
Diethyl Phthalate	660000	122		mg/kg	0.21	U	0.19	U	0.2	U	0.2	U	0.19	U	2.1	U	0.98	U	0.2	U	0.17	U	0.2	U
Dimethyl Phthalate				mg/kg	0.21	U	0.19	U	0.2	U	0.2	U	0.19	U	2.1	U	0.98	U	0.2	U	0.17	U	0.2	U
Di-n-Butyl Phthalate	82000	46		mg/kg	0.21	U	0.19	U	0.2	U	0.2	U	0.19	U	2.1	U	0.98	U	0.2	U	0.17	U	0.2	U
Di-n-Octyl Phthalate	8200	1140		mg/kg	0.21	U	0.19	U	0.2	U	0.2	U	0.19	U	2.1	U	0.98	U	0.2	U	0.17	U	0.2	U
Fluoranthene	30000	1780		mg/kg	0.021	U	0.019	U	0.02	U	0.02	U	0.75	U	1.2	U	4.3	U	0.64	U	0.17	U	0.02	U
Fluorene	30000	108		mg/kg	0.021	U	0.019	U	0.02	U	0.02	U	0.038	U	7.3	U	0.56	U	0.049	U	0.017	U	0.02	U
Hexachlorobenzene	0.96	0.0024	0.26	mg/kg	0.021	U	0.019	U	0.02	U	0.02	U	0.019	U	0.21	U	0.098	U	0.02	U	0.062	U	0.02	U
Hexachlorobutadiene	5.3	0.0054		mg/kg	0.062	U	0.057	U	0.059	U	0.061	U	0.058	U	0.62	U	0.29	U	0.059	U	0.052	U	0.059	U
Hexachlorocyclopentadiene	7.5	0.026	3.2	mg/kg	0.62	U	0.57	U	0.59	U	0.61	U	0.58	UJ	6.2	UJ	2.9	UJ	0.59	UJ	0.52	UJ	0.59	UJ
Hexachloroethane	8	0.004		mg/kg	0.21	U	0.19	U	0.2	U	0.2	U	0.19	U	2.1	U	0.98	U	0.2	U	0.17	U	0.2	U
Indeno(1,2,3-Cd)Pyrene	21	19.6		mg/kg	0.021	U	0.019	U	0.02	U	0.02	U	0.24	J	0.16	U	0.98	U	0.16	U	0.097	U	0.02	U
Isophorone	2400	0.52		mg/kg	0.082	U	0.076	U	0.079	U	0.081	U	0.078	U	0.82	U	0.39	U	0.079	U	0.069	U	0.078	U
Naphthalene	8.6	0.0076		mg/kg	0.021	U	0.019	U	0.02	U	0.02	U	0.069	U	2.5	U	0.21	U	0.048	U	0.022	U	0.02	U
Nitrobenzene	22	0.00184		mg/kg	0.045	U	0.042	U	0.044	U	0.044	U	0.043	U	0.45	U	0.22	U	0.043	U	0.038	U	0.043	U
n-Nitroso-di-n-Propylamine	0.33	0.000162		mg/kg	0.082	U	0.076	U	0.079	U	0.081	U	0.078	U	0.82	U	0.39	U	0.079	U	0.069	U	0.078	U
n-Nitrosodiphenylamine	470	1.34		mg/kg	0.045	U	0.042	U	0.044	U	0.044	U	0.043	U	0.45	U	0.22	U	0.039	J	0.06	U	0.043	U
Pentachlorophenol	4	0.00114	0.028	mg/kg	0.21	U	0.19	U	0.2	U	0.2	U	0.19	U	2.1	U	0.98	U	0.2	U	0.17	UJ	0.2	UJ
Phenanthrene				mg/kg	0.0057	J	0.063	U	0.02	U	0.02	U	0.44	U	6.3	U	3.9	U	0.27	U	0.079	U	0.02	U
Phenol	250000	66		mg/kg	0.045	U	0.042	U	0.044	U	0.044	U	0.043	U	0.45	U	0.22	U	0.043	U	0.038	U	0.043	U
Pyrene	23000	260		mg/kg	0.021	U	0.019	U	0.02	U	0.02	U	0.72	U	3.3	U	3.5	U	0.51	U	0.15	U	0.02	U

Notes:

Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), Industrial Soil Screening Level (SSL) (November 2021)

Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20

Exceeds the EPA RSL, Maximum Contaminant Level (MCL) SSL assuming a DAF of 20

Blanks indicate RSL not established or constituent not analyzed

RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0

U = undetected

J = estimated value

J+ = estimated biased high

J- = estimated biased low

R = rejected

MG/KG - milligram per kilogram

SWMU = Solid Waste Management Unit

RCRA = Resource Conservation and Recovery Act

Sample depth shown in Sample ID (e.g., SBBF3-04_6-8 indicates 6 to 8-foot sample)

DUP = Duplicate sample

Exceedances shown may exceed one or more criteria if available

Table 19. Wastewater Soil Analytical Results
RCRA Facility Investigation Report
Honeywell Delaware Valley Works
Claymont, Delaware
Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date			SBWW-12B SBWW-12B_2-4 7/26/2021		SBWW-12B SBWW-12B_2-4-DUP 7/26/2021		SBWW-12BB SBWW-12BB_0-2 8/11/2021		SBWW-12BB SBWW-12BB_4-6 8/11/2021		SBWW-12C SBWW-12C_0-2 7/26/2021		SBWW-12C SBWW-12C_2-4 7/26/2021		SBWW-12C SBWW-12C_6-8 7/26/2021		SBWW-12CB SBWW-12CB_0-2 8/12/2021		SBWW-12CB SBWW-12CB_3-5 8/12/2021		SBWW-12CB SBWW-12CB_5-7 8/12/2021		
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Butylbenzyl Phthalate	1200	4.8		mg/kg	1	U	0.98	U	0.19	U	12	U	0.93	U	0.96	U	0.2	U	0.96	U	1.1	U	0.21	U
Caprolactam	400000	50		mg/kg	1	U	0.98	U	0.19	U	12	U	0.93	U	0.96	U	0.2	U	0.96	U	1.1	U	0.21	U
Carbazole				mg/kg	0.22	U	0.22	U	0.042	U	1.4	J	0.21	U	0.21	U	0.044	U	0.21	U	0.24	U	0.046	U
Chrysene	2100	180		mg/kg	0.71	J	2.3	J	0.1		2.4		0.12		0.41		0.02	U	0.19		0.47		0.0066	J
Dibenzo(a,h)Anthracene	2.1	1.92		mg/kg	0.1	U	0.098	U	0.077		1.2	U	0.093	U	0.096	U	0.02	U	0.048	J	0.13		0.021	U
Dibenzofuran	1200	3		mg/kg	1.2	J	0.22	UJ	0.042	U	2.6	U	0.21	U	0.21	U	0.044	U	0.21	U	0.24	U	0.046	U
Diethyl Phthalate	660000	122		mg/kg	1	U	0.98	U	0.19	U	12	U	0.93	U	0.96	U	0.2	U	0.96	U	1.1	U	0.21	U
Dimethyl Phthalate				mg/kg	1	U	0.98	U	0.19	U	12	U	0.93	U	0.96	U	0.2	U	0.96	U	1.1	U	0.21	U
Di-n-Butyl Phthalate	82000	46		mg/kg	1	U	0.98	U	0.19	U	12	U	0.93	U	0.96	U	0.2	U	0.96	U	1.1	U	0.21	U
Di-n-Octyl Phthalate	8200	1140		mg/kg	1	U	0.98	U	0.19	U	12	U	0.93	U	0.96	U	0.2	U	0.96	U	1.1	U	0.21	U
Fluoranthene	30000	1780		mg/kg	1.5	J	3	J	0.13		6.1		0.14		0.52		0.02	U	0.26		0.39		0.0076	J
Fluorene	30000	108		mg/kg	4.3	J	10	J	0.019	U	1.2	U	0.093	U	0.096	U	0.02	U	0.096	U	0.14		0.021	U
Hexachlorobenzene	0.96	0.0024	0.26	mg/kg	0.1	U	0.098	U	1.3		1.2	U	0.093	U	0.096	U	0.02	U	0.096	U	0.11	U	0.021	U
Hexachlorobutadiene	5.3	0.0054		mg/kg	0.3	U	0.3	U	0.25		3.6	U	0.28	U	0.29	U	0.06	U	0.29	U	0.33	U	0.063	U
Hexachlorocyclopentadiene	7.5	0.026	3.2	mg/kg	3	UJ	3	UJ	0.57	UJ	36	UJ	2.8	UJ	2.9	UJ	0.6	UJ	2.9	UJ	3.3	UJ	0.63	UJ
Hexachloroethane	8	0.004		mg/kg	1	U	0.98	U	0.19	U	12	U	0.93	U	0.96	U	0.2	U	0.96	U	1.1	U	0.21	U
Indeno(1,2,3-Cd)Pyrene	21	19.6		mg/kg	0.23	J	0.4	J	0.18		1.2	U	0.093	U	0.096	U	0.02	U	0.12		0.31		0.021	U
Isophorone	2400	0.52		mg/kg	0.4	U	0.39	U	0.076	U	4.8	U	0.37	U	0.38	U	0.08	U	0.38	U	0.44	U	0.084	U
Naphthalene	8.6	0.0076		mg/kg	1.2	J	14	J	0.066		2.1		0.043	J	0.096	U	0.014	J	0.072	J	0.42		0.021	U
Nitrobenzene	22	0.00184		mg/kg	0.22	U	0.22	U	0.042	U	2.6	U	0.21	U	0.21	U	0.044	U	0.21	U	0.14	J	0.046	U
n-Nitroso-di-n-Propylamine	0.33	0.000162		mg/kg	0.4	U	0.39	U	0.076	U	4.8	U	0.37	U	0.38	U	0.08	U	0.38	U	0.44	U	0.084	U
n-Nitrosodiphenylamine	470	1.34		mg/kg	0.22	U	0.22	U	0.042	U	2.6	U	0.7		0.21	U	0.044	U	0.21	U	0.9		0.046	U
Pentachlorophenol	4	0.00114	0.028	mg/kg	1	U	0.98	U	0.19	UJ	12	UJ	0.93	U	0.96	U	0.2	U	0.96	UJ	1.1	UJ	0.21	UJ
Phenanthrene				mg/kg	2.3	J	13	J	0.11		8.7		0.14		1.1		0.02	U	0.16		0.37		0.021	U
Phenol	250000	66		mg/kg	0.22	U	0.22	U	0.042	U	2.6	U	0.21	U	0.21	U	0.044	U	0.21	U	0.13	J	0.046	U
Pyrene	23000	260		mg/kg	7.5		11		0.019	U	5		0.18		1.1		0.02	U	0.23		0.86		0.013	J

Notes:

Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), Industrial Soil Screening Level (SSL) (November 2021)

Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20

Exceeds the EPA RSL, Maximum Contaminant Level (MCL) SSL assuming a DAF of 20

Blanks indicate RSL not established or constituent not analyzed

RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0

U = undetected

J = estimated value

J+ = estimated biased high

J- = estimated biased low

R = rejected

MG/KG - milligram per kilogram

SWMU = Solid Waste Management Unit

RCRA = Resource Conservation and Recovery Act

Sample depth shown in Sample ID (e.g., SBBF3-04_6-8 indicates 6 to 8-foot sample)

DUP = Duplicate sample

Exceedances shown may exceed one or more criteria if available

Table 19. Wastewater Soil Analytical Results
RCRA Facility Investigation Report
Honeywell Delaware Valley Works
Claymont, Delaware
Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date			SBWW-12CB SBWW-12CB_5-7-DUP 8/12/2021		SBWW-12D SBWW-12D_0-2 7/26/2021		SBWW-12D SBWW-12D_2-4 7/26/2021		SBWW-12DB SBWW-12DB_0-2 8/11/2021		SBWW-12DB SBWW-12DB_2-4 8/11/2021		SBWW-12DB SBWW-12DB_4-6 8/11/2021		SBWW-12E SBWW-12E_0-2 8/4/2021		SBWW-12E SBWW-12E_4.5-6.5 8/4/2021		SBWW-12EB SBWW-12EB_0-2 8/11/2021		SBWW-12EB SBWW-12EB_2-4 8/11/2021		
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Butylbenzyl Phthalate	1200	4.8		mg/kg	0.2	U	1	U	2	U	0.17	U	2.1	U	0.2	U	0.23	U	2	U	0.18	U	0.2	U
Caprolactam	400000	50		mg/kg	0.2	U	1	U	2	U	0.17	U	2.1	U	0.2	U	0.23	U	2	U	0.18	U	0.2	U
Carbazole				mg/kg	0.044	U	0.22	U	0.45	U	0.038	U	0.45	U	0.044	U	0.05	U	0.45	U	0.14		0.13	
Chrysene	2100	180		mg/kg	0.0064	J	1.6		1.8		0.0068	J	0.38		0.02	U	0.19		0.11	J	0.43		0.24	
Dibenzo(a,h)Anthracene	2.1	1.92		mg/kg	0.02	U	0.1	U	0.2	U	0.017	U	0.21	U	0.02	U	0.052		0.2	U	0.086		0.034	
Dibenzofuran	1200	3		mg/kg	0.044	U	2.3		6.4		0.038	U	0.45	U	0.044	U	0.029	J	0.45	U	0.063		0.035	J
Diethyl Phthalate	660000	122		mg/kg	0.2	U	1	U	2	U	0.17	U	2.1	U	0.2	U	0.23	U	2	U	0.18	U	0.2	U
Dimethyl Phthalate				mg/kg	0.2	U	1	U	2	U	0.17	U	2.1	U	0.2	U	0.23	U	2	U	0.18	U	0.2	U
Di-n-Butyl Phthalate	82000	46		mg/kg	0.2	U	1	U	2	U	0.17	U	2.1	U	0.2	U	0.23	U	2	U	0.18	U	0.2	U
Di-n-Octyl Phthalate	8200	1140		mg/kg	0.2	U	1	U	2	U	0.17	U	2.1	U	0.2	U	0.23	U	2	U	0.18	U	0.2	U
Fluoranthene	30000	1780		mg/kg	0.0046	J	1.5		1		0.0097	J	0.32		0.0043	J	0.24		0.14	J	1		0.31	
Fluorene	30000	108		mg/kg	0.02	U	6.6		15		0.017	U	0.21	U	0.02	U	0.017	J	0.2	U	0.1		0.02	U
Hexachlorobenzene	0.96	0.0024	0.26	mg/kg	0.02	U	0.1	U	0.2	U	0.017	U	0.21	U	0.02	U	0.022	J	0.2	U	0.016	J	0.02	U
Hexachlorobutadiene	5.3	0.0054		mg/kg	0.06	U	0.31	U	0.61	U	0.052	U	0.62	U	0.06	U	0.068	U	0.61	U	0.053	U	0.06	U
Hexachlorocyclopentadiene	7.5	0.026	3.2	mg/kg	0.6	UJ	3.1	UJ	6.1	UJ	0.52	UJ	6.2	UJ	0.6	UJ	0.68	UJ	6.1	UJ	0.53	UJ	0.6	R
Hexachloroethane	8	0.004		mg/kg	0.2	U	1	U	2	U	0.17	U	2.1	U	0.2	U	0.23	U	2	U	0.18	U	0.2	UJ
Indeno(1,2,3-Cd)Pyrene	21	19.6		mg/kg	0.02	U	0.43		0.2	U	0.0059	J	0.21		0.02	U	0.13		0.2	U	0.23		0.1	
Isophorone	2400	0.52		mg/kg	0.079	U	0.41	U	0.81	U	0.07	U	0.82	U	0.08	U	0.09	U	0.81	U	0.07	U	0.08	U
Naphthalene	8.6	0.0076		mg/kg	0.02	U	5.6		15		0.017	U	0.21	U	0.02	U	0.08		0.28		0.033		0.14	
Nitrobenzene	22	0.00184		mg/kg	0.044	U	0.22	U	0.45	U	0.038	U	0.45	U	0.044	U	0.06		0.45	U	0.039	U	0.13	
n-Nitroso-di-n-Propylamine	0.33	0.000162		mg/kg	0.079	U	0.41	U	0.81	U	0.07	U	0.82	U	0.08	U	0.09	U	0.81	U	0.07	U	0.08	U
n-Nitrosodiphenylamine	470	1.34		mg/kg	0.044	U	0.22	U	0.45	U	0.038	U	2		0.021	J	0.06		0.45	U	0.065		0.4	
Pentachlorophenol	4	0.00114	0.028	mg/kg	0.2	UJ	1	U	2	U	0.17	UJ	2.1	UJ	0.2	UJ	0.23	U	2	UJ	0.18	UJ	0.2	UJ
Phenanthrene				mg/kg	0.0057	J	11		29		0.017	U	0.24		0.02	U	0.2		0.28		0.94		0.27	
Phenol	250000	66		mg/kg	0.044	U	0.22	U	0.45	U	0.038	U	0.45	U	0.044	U	0.05	U	47		0.039	U	0.044	U
Pyrene	23000	260		mg/kg	0.011	J	2.7		3.2		0.012	J	0.32		0.02	U	0.2		0.34		0.75		0.25	

Notes:
Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), Industrial Soil Screening Level (SSL) (November 2021)
Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20
Exceeds the EPA RSL, Maximum Contaminant Level (MCL) SSL assuming a DAF of 20
Blanks indicate RSL not established or constituent not analyzed
RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0
U = undetected
J = estimated value
J+ = estimated biased high
J- = estimated biased low
R = rejected
MG/KG - milligram per kilogram
SWMU = Solid Waste Management Unit
RCRA = Resource Conservation and Recovery Act
Sample depth shown in Sample ID (e.g., SBBF3-04_6-8 indicates 6 to 8-foot sample)
DUP = Duplicate sample
Exceedances shown may exceed one or more criteria if available

Table 19. Wastewater Soil Analytical Results
RCRA Facility Investigation Report
Honeywell Delaware Valley Works
Claymont, Delaware
Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date			SBWW-12EB SBWW-12EB_4-6 8/11/2021		SBWW-12F SBWW-12F_0-2 8/3/2021		SBWW-12F SBWW-12F_2-4 8/3/2021		SBWW-12FB SBWW-12FB_0-2 8/11/2021		SBWW-12FB SBWW-12FB_2-4 8/11/2021		SBWW-12FB SBWW-12FB_4-6 8/11/2021		SBWW-12FB SBWW-12FB_4-6-DUP 8/11/2021		SBWW-12G SBWW-12G_0-2 8/3/2021		SBWW-12G SBWW-12G_8-10 8/3/2021		SBWW-12GB SBWW-12GB_0-2 8/11/2021		
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Butylbenzyl Phthalate	1200	4.8		mg/kg	0.21	U	2	U	2	U	0.17	U	0.2	U	0.2	U	0.2	U	0.19	U	0.21	U	0.17	U
Caprolactam	400000	50		mg/kg	0.21	U	2	U	2	U	0.17	U	0.2	U	0.2	U	0.2	U	0.19	U	0.21	U	0.17	U
Carbazole				mg/kg	0.045	U	0.43	U	0.43	U	0.029	J	0.21		0.045	U	0.045	U	0.062		0.045	U	0.038	U
Chrysene	2100	180		mg/kg	0.021	U	0.92		1.1		0.23		0.14		0.02	U	0.02	U	0.36		0.018	J	0.047	
Dibenzo(a,h)Anthracene	2.1	1.92		mg/kg	0.021	U	0.2	U	0.2	U	0.043		0.02	U	0.02	U	0.02	U	0.071		0.021	U	0.016	J
Dibenzofuran	1200	3		mg/kg	0.045	U	0.5		4.8		0.027	J	0.028	J	0.045	U	0.045	U	0.037	J	0.045	U	0.038	U
Diethyl Phthalate	660000	122		mg/kg	0.21	U	2	U	2	U	0.17	U	0.2	U	0.2	U	0.2	U	0.19	U	0.21	U	0.17	U
Dimethyl Phthalate				mg/kg	0.21	U	2	U	2	U	0.17	U	0.2	U	0.2	U	0.2	U	0.19	U	0.21	U	0.17	U
Di-n-Butyl Phthalate	82000	46		mg/kg	0.21	U	2	U	2	U	0.17	U	0.2	U	0.2	U	0.2	U	0.19	U	0.21	U	0.17	U
Di-n-Octyl Phthalate	8200	1140		mg/kg	0.21	U	2	U	2	U	0.17	U	0.2	U	0.2	U	0.2	U	0.19	U	0.21	U	0.17	U
Fluoranthene	30000	1780		mg/kg	0.021	U	0.52		0.59		0.39		0.05		0.02	U	0.02	U	0.75		0.022		0.066	
Fluorene	30000	108		mg/kg	0.021	U	1.1		7.2		0.03		0.02	U	0.02	U	0.02	U	0.056		0.019	J	0.017	U
Hexachlorobenzene	0.96	0.0024	0.26	mg/kg	0.021	U	0.2	U	0.2	U	0.017	U	0.02	U	0.02	U	0.02	U	0.019	U	0.029		0.016	J
Hexachlorobutadiene	5.3	0.0054		mg/kg	0.062	U	0.59	U	0.59	U	0.051	U	0.061	U	0.061	U	0.061	U	0.057	U	0.062	U	0.052	U
Hexachlorocyclopentadiene	7.5	0.026	3.2	mg/kg	0.62	UJ	5.9	UJ	5.9	UJ	0.51	UJ	0.61	UJ	0.61	UJ	0.61	UJ	0.57	UJ	0.62	UJ	0.52	UJ
Hexachloroethane	8	0.004		mg/kg	0.21	U	2	U	2	U	0.17	U	0.2	U	0.2	U	0.2	U	0.19	U	0.21	U	0.17	U
Indeno(1,2,3-Cd)Pyrene	21	19.6		mg/kg	0.021	U	0.37		0.18	J	0.14		0.02	U	0.02	U	0.02	U	0.21		0.0085	J	0.031	
Isophorone	2400	0.52		mg/kg	0.082	U	0.78	U	0.78	U	0.069	U	0.081	U	0.082	U	0.082	U	0.076	U	0.082	U	0.069	U
Naphthalene	8.6	0.0076		mg/kg	0.021	U	0.5		2		0.035		0.052		0.02	U	0.02	U	0.051		0.0095	J	0.0079	J
Nitrobenzene	22	0.00184		mg/kg	0.045	U	0.43	U	0.43	U	0.038	U	0.18		0.045	U	0.045	U	0.042	U	0.045	U	0.038	U
n-Nitroso-di-n-Propylamine	0.33	0.000162		mg/kg	0.082	U	0.78	U	0.78	U	0.069	U	0.081	U	0.082	U	0.082	U	0.076	U	0.082	U	0.069	U
n-Nitrosodiphenylamine	470	1.34		mg/kg	0.032	J	0.43	U	0.43	U	0.038	U	0.66		0.024	J	0.045	U	0.042	U	0.045	U	0.034	J
Pentachlorophenol	4	0.00114	0.028	mg/kg	0.21	UJ	2	U	2	U	0.17	UJ	0.2	UJ	0.2	UJ	0.2	UJ	0.19	U	0.21	U	0.17	UJ
Phenanthrene				mg/kg	0.005	J	1.8		22		0.18		0.11		0.02	U	0.02	U	0.5		0.024		0.034	
Phenol	250000	66		mg/kg	0.045	U	0.43	U	0.43	U	0.038	U	0.045	U	0.045	U	0.045	U	0.042	U	0.045	U	0.038	U
Pyrene	23000	260		mg/kg	0.021	U	1.2		1.8		0.37		0.067		0.02	U	0.02	U	0.6		0.022		0.062	

Notes:
Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), Industrial Soil Screening Level (SSL) (November 2021)
Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20
Exceeds the EPA RSL, Maximum Contaminant Level (MCL) SSL assuming a DAF of 20
Blanks indicate RSL not established or constituent not analyzed
RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0
U = undetected
J = estimated value
J+ = estimated biased high
J- = estimated biased low
R = rejected
MG/KG - milligram per kilogram
SWMU = Solid Waste Management Unit
RCRA = Resource Conservation and Recovery Act
Sample depth shown in Sample ID (e.g., SBBF3-04_6-8 indicates 6 to 8-foot sample)
DUP = Duplicate sample
Exceedances shown may exceed one or more criteria if available

Table 19. Wastewater Soil Analytical Results
RCRA Facility Investigation Report
Honeywell Delaware Valley Works
Claymont, Delaware
Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date			SBWW-12GB SBWW-12GB_2-4 8/11/2021		SBWW-12GB SBWW-12GB_4-6 8/11/2021		SBWW-12H SBWW-12H_0-2 8/4/2021		SBWW-12H SBWW-12H_2-4 8/4/2021		SBWW-12H SBWW-12H_2-4-DUP 8/4/2021		SBWW-12H SBWW-12H_7-9 8/4/2021		SBWW-12HB SBWW-12HB_0-2 8/12/2021		SBWW-12HB SBWW-12HB_10-12 8/12/2021		SBWW-12I SBWW-12I_0-2 8/4/2021		SBWW-12I SBWW-12I_2.5-4.5 8/4/2021		
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Butylbenzyl Phthalate	1200	4.8		mg/kg	0.19	U	0.2	U	0.97	U	4	U	10	U	4.2	U	0.99	U	0.21	U	20	U	1.9	U
Caprolactam	400000	50		mg/kg	0.19	U	0.2	U	0.97	U	4	U	10	U	4.2	U	0.99	U	0.21	U	20	U	1.9	U
Carbazole				mg/kg	0.036	J	0.15		0.21	U	0.88	U	2.2	U	0.92	U	0.22	U	0.046	U	4.3	U	0.42	U
Chrysene	2100	180		mg/kg	0.057		0.49		3		3		4.3		2.7		0.35		0.0046	J	1.2	J+	0.13	J
Dibenzo(a,h)Anthracene	2.1	1.92		mg/kg	0.019	U	0.074		0.097	U	0.44		1	U	0.42	U	0.077	J	0.021	U	2.2	J+	0.19	U
Dibenzofuran	1200	3		mg/kg	0.042	U	0.058		0.21	U	3.4	J	6.1	J	3.1		0.22	U	0.046	U	4.3	U	0.42	U
Diethyl Phthalate	660000	122		mg/kg	0.19	U	0.2	U	0.97	U	4	U	10	U	4.2	U	0.99	U	0.21	U	20	U	1.9	U
Dimethyl Phthalate				mg/kg	0.19	U	0.2	U	0.97	U	4	U	10	U	4.2	U	0.99	U	0.21	U	20	U	1.9	U
Di-n-Butyl Phthalate	82000	46		mg/kg	0.19	U	0.2	U	0.97	U	4	U	10	U	4.2	U	0.99	U	0.21	U	20	U	1.9	U
Di-n-Octyl Phthalate	8200	1140		mg/kg	0.19	U	0.2	U	0.97	U	4	U	10	U	4.2	U	0.99	U	0.21	U	20	U	1.9	U
Fluoranthene	30000	1780		mg/kg	0.051		0.73		0.66		1.8	J	3.2	J	1.6		0.78		0.009	J	0.58	J+	0.14	J
Fluorene	30000	108		mg/kg	0.019	U	0.02	U	2.5		12	J	21	J	10		0.059	J	0.021	U	2	U	0.19	U
Hexachlorobenzene	0.96	0.0024	0.26	mg/kg	0.019	U	0.02	U	0.097	U	0.4	U	1	U	0.42	U	0.099	U	0.021	U	2	U	0.19	U
Hexachlorobutadiene	5.3	0.0054		mg/kg	0.057	U	0.059	U	0.29	U	1.2	U	3	U	1.3	U	0.3	U	0.063	U	5.9	U	0.57	U
Hexachlorocyclopentadiene	7.5	0.026	3.2	mg/kg	0.57	R	0.59	UJ	2.9	UJ	12	UJ	30	UJ	13	UJ	3	UJ	0.63	R	59	UJ	5.7	UJ
Hexachloroethane	8	0.004		mg/kg	0.19	UJ	0.2	U	0.97	U	4	U	10	U	4.2	U	0.99	U	0.21	U	20	U	1.9	U
Indeno(1,2,3-Cd)Pyrene	21	19.6		mg/kg	0.015	J	0.21		1.3		0.48	J	1.1	J	0.43		0.23		0.021	U	4.4	J+	1.1	U
Isophorone	2400	0.52		mg/kg	0.076	U	0.078	U	0.39	U	1.6	U	4	U	1.7	U	0.39	U	0.084	U	7.8	U	0.76	U
Naphthalene	8.6	0.0076		mg/kg	0.013	J	0.22		1.4		3.1	J	6.3	J	2.6		0.096	J	0.021	U	2	U	0.19	U
Nitrobenzene	22	0.00184		mg/kg	0.042	U	0.065		0.21	U	0.88	U	2.2	U	0.92	U	0.22	U	0.046	U	4.3	U	0.42	U
n-Nitroso-di-n-Propylamine	0.33	0.000162		mg/kg	0.076	U	0.078	U	0.39	U	1.6	U	4	U	1.7	U	0.39	U	0.084	U	7.8	U	0.76	U
n-Nitrosodiphenylamine	470	1.34		mg/kg	0.13		0.38		0.21	U	0.88	U	2.2	U	0.92	U	0.22	U	0.046	U	4.3	U	0.59	U
Pentachlorophenol	4	0.00114	0.028	mg/kg	0.19	U	0.2	UJ	0.97	U	4	U	10	U	4.2	U	0.99	UJ	0.21	UJ	20	U	1.9	U
Phenanthrene				mg/kg	0.04		0.63		4.3		19	J	36	J	18		0.54		0.011	J	0.5	J+	0.19	U
Phenol	250000	66		mg/kg	0.042	U	0.043	U	0.21	U	0.88	U	2.2	U	0.92	U	0.22	U	0.046	U	4.3	U	0.42	U
Pyrene	23000	260		mg/kg	0.044		0.59		6.8		7.4	J	14	J	7.1		0.63		0.008	J	5.2	J+	0.19	U

Notes:
Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), Industrial Soil Screening Level (SSL) (November 2021)
Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20
Exceeds the EPA RSL, Maximum Contaminant Level (MCL) SSL assuming a DAF of 20
Blanks indicate RSL not established or constituent not analyzed
RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0
U = undetected
J = estimated value
J+ = estimated biased high
J- = estimated biased low
R = rejected
MG/KG - milligram per kilogram
SWMU = Solid Waste Management Unit
RCRA = Resource Conservation and Recovery Act
Sample depth shown in Sample ID (e.g., SBBF3-04_6-8 indicates 6 to 8-foot sample)
DUP = Duplicate sample
Exceedances shown may exceed one or more criteria if available

Table 19. Wastewater Soil Analytical Results
RCRA Facility Investigation Report
Honeywell Delaware Valley Works
Claymont, Delaware
Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date			SBWW-12I SBWW-12I_4.5-6.5 8/4/2021		SBWW-12IB SBWW-12IB_0-2 8/12/2021		SBWW-12IB SBWW-12IB_10-12 8/12/2021		SBWW-12J SBWW-12J_0-2 8/4/2021		SBWW-12J SBWW-12J_2-4 8/4/2021		SBWW-12J SBWW-12J_2-4-DUP 8/4/2021		SBWW-12J SBWW-12J_4-6 8/4/2021		SBWW-12JB SBWW-12JB_0-2 8/12/2021		SBWW-12JB SBWW-12JB_2-4 8/12/2021		SBWW-12JB SBWW-12JB_4-6 8/12/2021		
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Butylbenzyl Phthalate	1200	4.8		mg/kg	0.21	U	0.18	U	0.21	U	10	U	10	U	4.2	U	0.21	U	0.2	U	0.2	U	0.2	U
Caprolactam	400000	50		mg/kg	0.21	U	0.18	U	0.21	U	10	U	10	U	4.2	U	0.21	UJ	0.2	U	0.2	U	0.2	U
Carbazole				mg/kg	0.046	U	0.04	U	0.046	U	31	J+	4.7	J	2.5	J	0.046	U	0.046	U	0.045	U	0.043	U
Chrysene	2100	180		mg/kg	0.064		0.018		0.021	U	110	J+	18	J	3.7	J	0.028	J	0.18		0.0068	J	0.0062	J
Dibenzo(a,h)Anthracene	2.1	1.92		mg/kg	0.021	U	0.018	U	0.021	U	31	J+	5.8	J	2.3	J	0.021	U	0.088		0.02	U	0.02	U
Dibenzofuran	1200	3		mg/kg	0.032	J	0.04	U	0.046	U	28	J+	3.3	J	1.8	J	0.046	U	0.022	J	0.045	U	0.043	U
Diethyl Phthalate	660000	122		mg/kg	0.21	U	0.18	U	0.21	U	10	U	10	U	4.2	U	0.21	U	0.2	U	0.2	U	0.2	U
Dimethyl Phthalate				mg/kg	0.21	U	0.18	U	0.21	U	10	U	10	U	4.2	U	0.21	U	0.2	U	0.2	U	0.2	U
Di-n-Butyl Phthalate	82000	46		mg/kg	0.21	U	0.18	U	0.21	U	10	U	10	U	4.2	U	0.21	U	0.2	U	0.2	U	0.2	U
Di-n-Octyl Phthalate	8200	1140		mg/kg	0.21	U	0.18	U	0.21	U	10	U	10	U	4.2	U	0.21	U	0.2	U	0.2	U	0.2	U
Fluoranthene	30000	1780		mg/kg	0.32		0.021		0.021	U	410	J+	53	J	12	J	0.065	J+	0.3		0.0057	J	0.0054	J
Fluorene	30000	108		mg/kg	0.049		0.018	U	0.021	U	44	J+	1.2	J	0.53	J	0.0091	J	0.02	U	0.011	J	0.02	U
Hexachlorobenzene	0.96	0.0024	0.26	mg/kg	0.021	U	0.018	U	0.021	U	0.81	J+	0.96	J+	0.81	J+	0.021	U	0.018	J	0.02	U	0.02	U
Hexachlorobutadiene	5.3	0.0054		mg/kg	0.062	U	0.054	U	0.063	U	3.1	U	3.1	U	1.2	U	0.063	U	0.059	U	0.061	U	0.059	U
Hexachlorocyclopentadiene	7.5	0.026	3.2	mg/kg	0.62	UJ	0.54	UJ	0.63	UJ	31	UJ	31	UJ	12	UJ	0.63	UJ	0.59	UJ	0.61	UJ	0.59	UJ
Hexachloroethane	8	0.004		mg/kg	0.21	U	0.18	U	0.21	U	10	U	10	U	4.2	U	0.21	U	0.2	U	0.2	U	0.2	U
Indeno(1,2,3-Cd)Pyrene	21	19.6		mg/kg	0.015	J	0.013	J	0.021	U	88	J+	14	J	4.4	J	0.022	J	0.27		0.02	U	0.02	U
Isophorone	2400	0.52		mg/kg	0.083	U	0.073	U	0.084	U	4.1	U	4.2	U	1.7	U	0.084	U	0.078	U	0.082	U	0.078	U
Naphthalene	8.6	0.0076		mg/kg	0.014	J	0.018	U	0.021	U	6.2	J+	8.6	J	3.9	J	0.0089	J	0.36		0.02	U	0.02	U
Nitrobenzene	22	0.00184		mg/kg	0.046	U	0.046	U	0.046	U	2.2	U	2.3	U	0.56	J+	0.046	U	0.043	U	0.045	U	0.043	U
n-Nitroso-di-n-Propylamine	0.33	0.000162		mg/kg	0.083	U	0.073	U	0.084	U	4.1	U	4.2	U	1.7	U	0.084	U	0.078	U	0.082	U	0.078	U
n-Nitrosodiphenylamine	470	1.34		mg/kg	0.046	U	0.025	J	0.046	U	2.2	U	2.3	U	0.91	U	0.046	U	0.043	U	0.045	U	0.043	U
Pentachlorophenol	4	0.00114	0.028	mg/kg	0.21	U	0.18	UJ	0.21	UJ	10	U	10	U	4.2	U	0.21	U	0.2	U	0.2	U	0.2	U
Phenanthrene				mg/kg	0.37		0.012	J	0.021	U	290	J+	41	J	14	J	0.059	J	0.16		0.02		0.0059	J
Phenol	250000	66		mg/kg	0.046	U	0.04	U	0.046	U	7.4		10	J	5.4	J	0.046	U	0.043	U	0.045	U	0.043	U
Pyrene	23000	260		mg/kg	0.25		0.019		0.021	U	270	J+	35	J	8.9	J	0.052	J	0.22		0.0053	J	0.0054	J

Notes:
Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), Industrial Soil Screening Level (SSL) (November 2021)
Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20
Exceeds the EPA RSL, Maximum Contaminant Level (MCL) SSL assuming a DAF of 20
Blanks indicate RSL not established or constituent not analyzed
RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0
U = undetected
J = estimated value
J+ = estimated biased high
J- = estimated biased low
R = rejected
MG/KG - milligram per kilogram
SWMU = Solid Waste Management Unit
RCRA = Resource Conservation and Recovery Act
Sample depth shown in Sample ID (e.g., SBBF3-04_6-8 indicates 6 to 8-foot sample)
DUP = Duplicate sample
Exceedances shown may exceed one or more criteria if available

Table 19. Wastewater Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date			SBWW-12K SBWW-12K_0-2 8/4/2021		SBWW-12K SBWW-12K_2-4 8/4/2021		SBWW-12K SBWW-12K_4-6 8/4/2021		SBWW-12L SBWW-12L_0-2 8/4/2021		SBWW-12L SBWW-12L_2-4 8/4/2021		SBWW-12L SBWW-12L_4-6 8/4/2021		SBWW-12M SBWW-12M_0-2 8/4/2021		SBWW-12M SBWW-12M_2-4 8/4/2021		SBWW-12M SBWW-12M_4-6 8/4/2021		SBWW-12N SBWW-12N_0-2 8/5/2021		
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Bromomethane	30	0.038		mg/kg	0.3	U	0.26	U	0.33	U	0.31	U	0.23	U	0.33	U	0.24	U	0.23	U	0.75	U	0.0045	U
Carbon Disulfide	3500	4.8		mg/kg	0.3	U	0.26	U	0.33	U	0.31	U	0.23	U	0.33	U	0.24	U	0.23	U	0.75	U	0.00098	J+
Carbon Tetrachloride	2.9	0.0036	0.038	mg/kg	0.3	U	0.26	U	0.33	U	0.31	U	0.23	U	0.33	U	0.24	U	0.23	U	0.75	U	0.0045	U
Chlorobenzene	1300	1.06	1.36	mg/kg	0.75		48		0.098	J	18		13		0.33	U	12		2.1		0.79		0.00076	J
Chloroethane	23000	48		mg/kg	0.3	U	0.26	U	0.33	U	0.31	U	0.23	U	0.33	U	0.24	U	0.23	U	0.75	U	0.0045	U
Chloroform	1.4	0.00122	0.44	mg/kg	0.88		0.14	J	0.33	U	0.31	U	0.23	U	0.33	U	0.24	U	0.33		0.75	U	0.014	
Chloromethane	460	0.98		mg/kg	0.3	U	0.26	U	0.33	U	0.31	U	0.23	U	0.33	U	0.24	U	0.23	U	0.75	U	0.0045	U
cis-1,2-Dichloroethene	2300	0.22	0.42	mg/kg	0.3	U	0.26	U	0.33	U	0.31	U	0.23	U	0.33	U	0.24	U	0.044	J	0.75	U	0.0045	U
cis-1,3-Dichloropropene				mg/kg	0.3	U	0.26	U	0.33	U	0.31	U	0.23	U	0.33	U	0.24	U	0.23	U	0.75	U	0.0045	U
Cyclohexane	27000	260		mg/kg	0.3	U	0.26	U	0.33	U	0.31	U	0.23	U	0.33	U	0.24	U	0.23	U	0.75	U	0.0045	U
Dibromochloromethane	39	0.0046	0.42	mg/kg	0.3	U	0.26	U	0.33	U	0.31	U	0.23	U	0.33	U	0.24	U	0.23	U	0.75	U	0.0045	U
Dichlorodifluoromethane	370	6		mg/kg	0.3	U	0.26	U	0.33	U	0.31	U	0.23	U	0.33	U	0.24	U	0.23	U	0.75	U	0.0045	UJ
Diethyl Ether	230000	17.6		mg/kg	0.3	U	0.26	U	0.33	U	0.31	U	0.23	U	0.33	U	0.24	U	0.23	U	0.75	U	0.0045	U
Ethylbenzene	25	0.034	15.6	mg/kg	0.3	U	0.26	U	0.33	U	0.028	J	0.02	J	0.33	U	0.24	U	0.032	J	0.15	J	0.0045	U
Isopropylbenzene	9900	14.8		mg/kg	0.3	U	0.26	U	0.33	U	0.31	U	0.23	U	0.33	U	0.24	U	0.23	U	0.54	J	0.0045	U
m&p-Xylenes				mg/kg	0.3	U	0.26	U	0.33	U	0.31	U	0.23	U	0.33	U	0.24	U	0.17	J	0.17	J	0.0045	U
Methyl Acetate	1200000	82		mg/kg	0.3	U	0.26	U	0.33	U	0.26	J	0.19	J	0.34		0.088	J	0.16	J	0.31	J	0.0045	U
Methyl Tert-Butyl Ether	210	0.064		mg/kg	0.3	U	0.26	U	0.33	U	0.31	U	0.23	U	0.33	U	0.24	U	0.23	U	0.75	U	0.0045	U
Methylcyclohexane				mg/kg	0.3	U	0.26	U	0.33	U	0.31	U	0.23	U	0.33	U	0.24	U	0.23	U	0.098	J	0.0045	U
Methylene Chloride	1000	0.058	0.026	mg/kg	0.3	U	0.26	U	0.33	U	0.31	U	0.23	U	0.33	U	0.24	U	0.23	U	0.75	U	0.0045	U
o-Xylene	2800	3.8		mg/kg	0.3	U	0.26	U	0.33	U	0.042	J	0.029	J	0.33	U	0.24	U	0.058	J	0.2	J	0.0045	U
Styrene	35000	26	2.2	mg/kg	0.3	U	0.26	U	0.33	U	0.31	U	0.23	U	0.33	U	0.24	U	0.23	U	0.75	U	0.0045	U
Tetrachloroethene	100	0.102	0.046	mg/kg	0.041	J	0.044	J	0.33	U	0.31	U	0.23	U	0.33	U	0.24	U	0.6		0.75	U	0.007	
Toluene	47000	15.2	13.8	mg/kg	0.055	J	0.26	U	0.33	U	0.057	J	0.041	J	0.33	U	0.24	U	0.12	J	0.75	U	0.0045	U
Total Xylenes	2500	3.8	198	mg/kg	0.6	U	0.51	U	0.67	U	0.63	U	0.46	U	0.66	U	0.48	U	0.23	J	0.37	J	0.0089	U
trans-1,2-Dichloroethene	300	0.42	0.62	mg/kg	0.3	U	0.26	U	0.33	U	0.31	U	0.23	U	0.33	U	0.24	U	0.23	U	0.75	U	0.0045	U
trans-1,3-Dichloropropene				mg/kg	0.3	U	0.26	U	0.33	U	0.31	U	0.23	U	0.33	U	0.24	U	0.23	U	0.75	U	0.0045	U
Trichloroethene	6	0.0036	0.036	mg/kg	0.12	J	0.26	U	0.33	U	0.31	U	0.23	U	0.33	U	0.24	U	0.2	J	0.75	U	0.0045	U
Trichlorofluoromethane	350000	66		mg/kg	0.3	U	0.26	U	0.33	U	0.31	U	0.23	U	0.33	U	0.24	U	0.23	U	0.75	U	0.0045	U
Vinyl Chloride	1.7	0.00013	0.0138	mg/kg	0.3	U	0.26	U	0.33	U	0.31	U	0.23	U	0.33	U	0.24	U	0.23	U	0.75	U	0.0045	U
Semi-Volatiles Organic Compounds																								
1,1'-Biphenyl	200	0.174		mg/kg	0.9		0.15	J	0.031	J	0.46		0.48		0.047	U	0.39	U	5.5		0.049	U	0.04	U
1,2,4,5-Tetrachlorobenzene	35	0.0158		mg/kg	0.21	J	0.22	U	0.046	U	0.41	U	0.41	U	0.047	U	0.39	U	0.86	U	0.049	U	0.04	U
2,2'-Oxybis(1-Chloropropane)	47000	5.2		mg/kg	0.5	U	0.26	U	0.054	U	0.48	U	0.49	U	0.055	U	0.46	U	1	U	0.057	U	0.047	UJ
2,3,4,6-Tetrachlorophenol	25000	3.6		mg/kg	1.9	U	0.99	U	0.21	U	1.9	U	1.9	U	0.21	U	1.8	U	3.9	U	0.22	U	0.18	U
2,4,5-Trichlorophenol	82000	80		mg/kg	0.42	U	0.22	U	0.046	U	0.46	U	0.41	U	0.047	U	0.39	U	0.86	U	0.049	U	0.018	J
2,4,6-Trichlorophenol	210	0.08		mg/kg	0.42	U	0.22	U	0.046	U	0.41	U	0.41	U	0.047	U	0.39	U	0.86	U	0.049	U	0.04	U
2,4-Dichlorophenol	2500	0.46		mg/kg	0.5	U	0.26	U	0.054	U	0.62		0.49	U	0.055	U	0.46	U	1	U	0.057	U	0.047	U
2,4-Dimethylphenol	16000	8.4		mg/kg	0.42	U	0.22	U	0.046	U	0.41	U	0.41	U	0.047	U	0.39	U	0.86	U	0.049	U	0.04	U
2,4-Dinitrophenol	1600	0.88		mg/kg	11	U	5.9	U	1.2	U	11	U	11	U	1.3	U	11	U	23	U	1.3	U	1.1	UJ
2,4-Dinitrotoluene	7.4	0.0064		mg/kg	1.9	U	0.99	U	0.21	U	1.9	U	1.9	U	0.21	U	1.8	U	3.9	U	0.22	U	0.18	U
2,6-Dinitrotoluene	1.5	0.00134		mg/kg	0.42	U	0.22	U	0.046	U	0.41	U	0.41	U	0.047	U	0.39	U	0.86	U	0.049	U	0.04	U
2-Chloronaphthalene	60000	78		mg/kg	0.38	U	0.2	U	0.042	U	0.37	U	0.37	U	0.042	U	0.36	U	0.78	U	0.044	U	0.036	U
2-Chlorophenol	5800	1.78		mg/kg	0.42	U	0.22	U	0.046	U	0.41	U	0.41	U	0.047	U	0.39	U	0.86	U	0.049	U	0.04	U
2-Methylnaphthalene	3000	3.8		mg/kg	0.43		1.7		0.0097	J	0.71		0.19	U	0.04		0.19		20		0.015	J	0.013	J
2-Methylphenol	41000	15		mg/kg	0.57	U	0.26	J	0.062	U	0.56	U	0.56	U	0.064	U	0.53	U	1.2	U	0.066	U	0.055	U
2-Nitroaniline	8000	1.6		mg/kg	0.57	U	0.3	U	0.062	U	0.56	U	0.56	U	0.064	U	0.53	U	1.2	U	0.066	U	0.055	U
2-Nitrophenol				mg/kg	0.57	U	0.3	U	0.062	U	0.56	U	0.56	U	0.064	U	0.53	U	1.2	U	0.066	U	0.055	U
3,3'-Dichlorobenzidine	5.1	0.0164		mg/kg	1.9	U	0.99	U	0.21	U	1.9	U	1.9	U	0.21	U	1.8	U	3.9	U	0.22	U	0.18	U
3-Nitroaniline				mg/kg	1.9	U	0.99	U	0.21	U	1.9	U	1.9	U	0.21	U	1.8	U	3.9	U	0.22	U	0.18	U
4,6-Dinitro-2-Methylphenol	66	0.052		mg/kg	5.7	U	3	U	0.62	U	5.6	U	5.6	U	0.64	U	5.3	U	12	U	0.66	U	0.55	U
4-Bromophenyl Phenyl Ether				mg/kg	0.42	U	0.22	U	0.046	U	0.41	U	0.41	U	0.047	U	0.39	U	0.86	U	0.049	U	0.04	U
4-Chloro-3-Methylphenol	82000	34		mg/kg	0.57	U	0.3	U	0.062	U	0.56	U	0.56	U	0.064	U	0.53	U	1.2	U	0.066	U	0.055	U
4-Chloroaniline	11	0.0032		mg/kg	1.9	U	0.99	U	0.21	U	1.9	U	1.9	U	0.21	U	1.8	U	3.9	U	0.22	U	0.18	U
4-Chlorophenyl Phenyl Ether				mg/kg	0.42	U	0.22	U	0.046	U	0.41	U	0.41	U	0.047	U	0.39	U	0.86	U	0.049	U	0.04	U
4-Methylphenol	16000	6		mg/kg	0.57	U	0.3	U	0.062	U	0.56	U	0.56	U	0.064	U	0.53	U	1.2	U	0.066	U	0.055	U
4-Nitroaniline	110	0.032		mg/kg	1.9	U	0.99	U	0.21	U	1.9	U	1.9	U	0.21	U	1.8	U	3.9	U	0.22	U	0.18	U
4-Nitrophenol				mg/kg	5.7	U	3	U	0.62	U	5.6	U	5.6	U	0.64	U	5.3	U	12	U	0.66	U	0.55	U
Acenaphthene	45000	110		mg/kg	0.19	U	0.54		0.021	U	4.8		0.19	U	0.021	U	0.18	U	6.9		0.0094	J	0.018	U
Acenaphthylene				mg/kg	0.19	U	0.099	U	0.021	U	0.29		0.19	U	0.021	U	0.18	U	0.39	U	0.022	U	0.018	U
Acetophenone	120000	11.6		mg/kg	0.57	U	0.3	U	0.062	U	0.56	U	0.56	U	0.064	U	0.53	U	1.2	U				

Table 19. Wastewater Soil Analytical Results
RCRA Facility Investigation Report
Honeywell Delaware Valley Works
Claymont, Delaware
Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date			SBWW-12K SBWW-12K_0-2 8/4/2021		SBWW-12K SBWW-12K_2-4 8/4/2021		SBWW-12K SBWW-12K_4-6 8/4/2021		SBWW-12L SBWW-12L_0-2 8/4/2021		SBWW-12L SBWW-12L_2-4 8/4/2021		SBWW-12L SBWW-12L_4-6 8/4/2021		SBWW-12M SBWW-12M_0-2 8/4/2021		SBWW-12M SBWW-12M_2-4 8/4/2021		SBWW-12M SBWW-12M_4-6 8/4/2021		SBWW-12N SBWW-12N_0-2 8/5/2021		
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Butylbenzyl Phthalate	1200	4.8		mg/kg	1.9	U	0.99	U	0.21	U	1.9	U	1.9	U	0.21	U	1.8	U	3.9	U	0.22	U	0.18	U
Caprolactam	400000	50		mg/kg	1.9	U	0.99	U	0.21	U	1.9	U	1.9	U	0.21	U	1.8	U	3.9	U	0.22	U	0.18	U
Carbazole				mg/kg	0.42	U	0.22	U	0.046	U	2		0.63		0.047	U	0.39	U	0.86	U	0.049	U	0.04	U
Chrysene	2100	180		mg/kg	0.42		0.48		0.0093	J	42		0.34		0.0064	J	0.26		3.9		0.027		0.066	
Dibenzo(a,h)Anthracene	2.1	1.92		mg/kg	0.24		0.14		0.021	U	6.5		0.19	U	0.021	U	0.18	U	0.39	U	0.022	U	0.018	U
Dibenzofuran	1200	3		mg/kg	0.42	U	0.69		0.046	U	3.1		0.41	U	0.047	U	0.39	U	2.9		0.049	U	0.04	U
Diethyl Phthalate	660000	122		mg/kg	1.9	U	0.99	U	0.21	U	1.9	U	1.9	U	0.21	U	1.8	U	3.9	U	0.22	U	0.18	U
Dimethyl Phthalate				mg/kg	1.9	U	0.99	U	0.21	U	1.9	U	1.9	U	0.21	U	1.8	U	3.9	U	0.22	U	0.18	U
Di-n-Butyl Phthalate	82000	46		mg/kg	1.9	U	0.99	U	0.21	U	1.9	U	1.9	U	0.21	U	1.8	U	3.9	U	0.22	U	0.18	U
Di-n-Octyl Phthalate	8200	1140		mg/kg	1.9	U	0.99	U	0.21	U	1.9	U	1.9	U	0.21	U	1.8	U	3.9	U	0.22	U	0.18	U
Fluoranthene	30000	1780		mg/kg	0.82		0.26		0.019	J	140		0.55		0.0082	J	0.37		3		0.061		0.092	
Fluorene	30000	108		mg/kg	0.19	U	1.5		0.021	U	6.2		0.19	U	0.011	J	0.18	U	15		0.016	J	0.018	U
Hexachlorobenzene	0.96	0.0024	0.26	mg/kg	0.19	U	0.099	U	0.021	U	0.27		0.19	U	0.021	U	0.18	U	0.39	U	0.022	U	1.1	
Hexachlorobutadiene	5.3	0.0054		mg/kg	0.57	U	0.3	U	0.062	U	0.56	U	0.56	U	0.064	U	0.53	U	1.2	U	0.066	U	0.11	
Hexachlorocyclopentadiene	7.5	0.026	3.2	mg/kg	5.7	UJ	3	UJ	0.62	UJ	5.6	UJ	5.6	UJ	0.64	UJ	5.3	UJ	12	UJ	0.66	UJ	0.55	UJ
Hexachloroethane	8	0.004		mg/kg	1.9	U	0.99	U	0.21	U	1.9	U	1.9	U	0.21	U	1.8	U	3.9	U	0.22	U	0.11	J
Indeno(1,2,3-Cd)Pyrene	21	19.6		mg/kg	0.44		0.15		0.021	U	17		0.3		0.021	U	0.15	J	0.59		0.016	J	0.056	
Isophorone	2400	0.52		mg/kg	0.76	U	0.4	U	0.083	U	0.74	U	0.75	U	0.085	U	0.71	U	1.6	U	0.088	U	0.073	U
Naphthalene	8.6	0.0076		mg/kg	4.2		1.3		0.01	J	1.1		0.19	U	0.021	U	0.098	J	8		0.0089	J	0.012	J
Nitrobenzene	22	0.00184		mg/kg	0.45		0.22	U	0.046	U	0.41	U	0.41	U	0.047	U	0.39	U	0.86	U	0.049	U	0.04	U
n-Nitroso-di-n-Propylamine	0.33	0.000162		mg/kg	0.33	U	0.4	U	0.083	U	0.74	U	0.75	U	0.085	U	0.71	U	1.6	U	0.088	U	0.073	U
n-Nitrosodiphenylamine	470	1.34		mg/kg	0.25	J	0.22	U	0.046	U	0.41	U	1.8		0.047	U	0.39	U	0.86	U	0.049	U	0.04	U
Pentachlorophenol	4	0.00114	0.028	mg/kg	1.9	U	0.99	U	0.21	U	1.9	U	1.9	U	0.21	U	1.8	U	3.9	U	0.22	U	0.18	UJ
Phenanthrene				mg/kg	0.79		2.8		0.016	J	83		0.58		0.018	J	0.29		8.2		0.054		0.053	
Phenol	250000	66		mg/kg	0.42	U	0.19	J	0.046	U	0.41	U	0.41	U	0.047	U	0.39	U	0.86	U	0.049	U	0.04	U
Pyrene	23000	260		mg/kg	0.19	U	0.47		0.017	J	110		0.48		0.01	J	0.37		12		0.057		0.082	

Notes:
Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), Industrial Soil Screening Level (SSL) (November 2021)
Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20
Exceeds the EPA RSL, Maximum Contaminant Level (MCL) SSL assuming a DAF of 20
Blanks indicate RSL not established or constituent not analyzed
RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0
U = undetected
J = estimated value
J+ = estimated biased high
J- = estimated biased low
R = rejected
MG/KG - milligram per kilogram
SWMU = Solid Waste Management Unit
RCRA = Resource Conservation and Recovery Act
Sample depth shown in Sample ID (e.g., SBBF3-04_6-8 indicates 6 to 8-foot sample)
DUP = Duplicate sample
Exceedances shown may exceed one or more criteria if available

Table 19. Wastewater Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date			SBWW-12N SBWW-12N_2-4 8/5/2021		SBWW-12N SBWW-12N_9-11 8/5/2021		SBWW-12O SBWW-12O_0-2 8/6/2021		SBWW-12O SBWW-12O_2-4 8/6/2021		SBWW-12O SBWW-12O_2-4-DUP 8/6/2021		SBWW-12O SBWW-12O_11.5-13.5 8/6/2021		SBWW-12P SBWW-12P_0-2 8/6/2021		SBWW-12P SBWW-12P_2-4 8/6/2021		SBWW-12P SBWW-12P_11-13 8/6/2021		SBWW-12Q SBWW-12Q_0-2 8/6/2021															
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual													
Metals																																					
Aluminum	110000	60000		mg/kg	3200			13000				19000			3600			3200			25000			20000			4800			31000			12000				
Antimony	470	7	5.4	mg/kg	62			4.1	U			4.2	J		37			44			5.3	U		84			20			5.8	UJ		8.4				
Arsenic	3	0.03	5.8	mg/kg	170			2.1	J			12			63			74			3.2	U		27			230			4.4			32				
Barium	220000	3200	1640	mg/kg	640			50				180			940			870			110			660			56			120	J+		240				
Beryllium	2300	380	64	mg/kg	0.14	J		0.58				0.66			0.22	J		0.16	J		1.1			0.77			0.26	J		1.7			0.31	J			
Cadmium	100	2.8	7.6	mg/kg	17			0.41	U			1.9			12			19			0.53	U		13			66			0.58	U		5.6				
Calcium				mg/kg	5400			850				4100		J	16000			8900		J	720			6900			7600			800			2500				
Chromium			3600000	mg/kg	82			17				51			94			92			32			120			200			41			26				
Cobalt	350	5.4		mg/kg	50			3.7				16			23			30			9.3			44			8.4			7.6			7.2				
Copper	47000	560	920	mg/kg	2100			52				200			640			910			15			910			310			17			960				
Iron	820000	7000		mg/kg	510000			11000				40000			230000			370000			13000			62000			89000			11000			34000				
Lead	800		280	mg/kg	1900			7.8				300			21000			26000			16			1600			460			17	J-		820				
Magnesium				mg/kg	1100			1900				4100			3500			2200			4000			3800			1200			3600			1500				
Manganese	26000	560		mg/kg	2900			57				240			1500			2000			94			380			390			68	J-		170				
Nickel	22000	520		mg/kg	80			12				55			110			140			24			160			31			24			29				
Potassium				mg/kg	360	J		1300				3800			1000			1000			1500			2500			620			1900	J+		1200				
Selenium	5800	10.4	5.2	mg/kg	53	U		4.1	U			5.2	U		25	U		26	U		5.3	U		6	U		2.5	J		5.8	UJ		3.6	U			
Silver	5800	16		mg/kg	11			0.83	U			0.85	J		3			3.4			1.1	U		2.9			0.98	J		1.2	U		1				
Sodium				mg/kg	130			68	J			170			380			370			600			280			450			580			140				
Thallium	12	0.28	2.8	mg/kg	32	U		2.5	U			3.1	U		15	U		15	U		3.2	U		3.6	U		3.7	U		3.5	U		2.1	U			
Vanadium	5800	1720		mg/kg	130			26				44			92			130			33			51			45			55			42				
Zinc	350000	7400		mg/kg	860			120				200		J	1700			3100		J	120			770			490			70			720				
Mercury	46	0.66	2	mg/kg	0.37			0.07	U			1.7			12			13			0.032	J		14			0.89			0.047	J		2.8				
Pesticides																																					
4,4'-DDD	9.6	0.15		mg/kg	0.041			0.0057	J			89		J	2.8			9.8	J		0.008	U		380			0.16			0.13	J+		15				
4,4'-DDE	9.3	0.22		mg/kg	0.049			0.008	U			63		J	4.7			14	J		0.008	U		1200			0.28			0.094	J+		39				
4,4'-DDT	8.5	1.54		mg/kg	0.45			0.11				1100			45			35			0.037	J		8500			0.84			0.8	J+		170				
Aldrin	0.18	0.003		mg/kg	0.016	U		0.008	U			0.014	U		0.016	U		0.015	U		0.008	U		0.016	U		0.017	U		0.008	U		0.014	U			
Alpha-BHC	0.36	0.00084		mg/kg	0.016	U		0.008	U			5.1		J	0.031			0.17	J		0.033			73			0.017	U		0.088	J+		3.2				
Beta-BHC	1.3	0.003		mg/kg	0.016	U		0.008	U			87		J	0.19			0.62	J		0.0078	J		150			3.9			0.12	J+		16				
cis-Chlordane	500	9.8		mg/kg	0.016	U		0.008	U			0.014	U		0.016	U		0.015	U		0.008	U		0.016	U		0.017	U		0.008	U		0.014	U			
Delta-BHC				mg/kg	0.016	U		0.008	U			1	J		0.016	U		0.015	U		0.008	U		0.016	U		0.017	U		0.013	J		0.7				
Dieldrin	0.14	0.00142		mg/kg	0.016	U		0.008	U			0.014	U		0.016	U		0.015	U		0.008	U		0.016	U		0.017	U		0.008	U		0.014	U			
Endosulfan I				mg/kg	0.016	U		0.008	U			0.014	U		0.016	U		0.015	U		0.008	U		0.016	U		0.017	U		0.008	U		0.014	U			
Endosulfan II				mg/kg	0.016	U		0.008	U			0.014	U		0.016	U		0.015	U		0.008	U		0.016	U		0.017	U		0.008	U		0.014	U			
Endosulfan Sulfate	4900	42		mg/kg	0.016	U		0.008	U			0.014	U		0.016	U		0.015	U		0.008	U		0.016	U		0.017	U		0.008	U		0.014	U			
Endrin	250	1.84	1.62	mg/kg	0.016	UJ		0.008	U			0.014	U		0.016	U		0.015	U		0.008	U		0.016	U		0.017	U		0.008	U		0.014	U			
Endrin Aldehyde				mg/kg	0.016	UJ		0.008	U			0.014	U		0.016	U		0.015	U		0.008	U		0.016	U		0.017	U		0.008	U		0.014	U			
Endrin Ketone				mg/kg	0.016	U		0.008	U			0.014	U		0.016	U		0.015	U		0.008	U		0.016	U		0.017	U		0.008	U		0.014	U			
Gamma-BHC (Lindane)	2.5	0.0048	0.024	mg/kg	0.016	U		0.008	U			2.1		J	0.01			0.062	J		0.008	U		48			2.9			0.0083	J+		2.9				
Heptachlor	0.63	0.0024	0.66	mg/kg	0.016	UJ		0.008	U			0.014	U		0.016	U		0.015	U		0.008	U		0.016	U		0.017	U		0.008	U		0.014	U			
Heptachlor Epoxide	0.33	0.00056	0.082	mg/kg	0.016	U		0.008	U			0.014	U		0.016	U		0.015	U		0.008	U		0.016	U		0.017	U		0.008	U		0.014	U			
Methoxychlor	4100	40	44	mg/kg	0.031	UJ		0.015	U			0.027	U		0.03	U		0.03	U		0.016	U		0.031	U		0.033	U		0.016	U		0.026	U			
Toxaphene	2.1	0.22	9.2	mg/kg	0.41	U		0.2	U			0.36	U		0.4	U		0.39	U		0.2	U		0.41	U		0.43	U		0.2	U		0.35	U			
trans-Chlordane	500	28		mg/kg	0.016	U		0.008	U			0.014	U		0.016	U		0.015	U		0.008	U		0.016	U		0.017	U		0.008	U		0.014	U			
Volatiles Organics Compounds																																					
1,1,1-Trichloroethane	36000	56	1.4	mg/kg	0.26	U		0.28	U			0.0047	U		0.0041	U		0.0044	U		0.0046	U		0.005	U		0.005	U		0.0044	U		0.0049	U			
1,1,2,2-Tetrachloroethane	2.7	0.0006		mg/kg	0.26	U		0.28	U			0.0047	U		0.0041	U		0.0044	U		0.0046	U		0.005	U		0.005	U		0.0044	U		0.0049	U			
1,1,2-Trichloro-1,2,2-Trifluoroethane	28000	520		mg/kg	0.51	U		0.56	U			0.0093	U		0.0082	U		0.0089	U		0.0092	U		0.01	U		0.01	U		0.0089	U		0.0098	U			
1,1,2-Trichloroethane	5	0.00178	0.032	mg/kg	0.26	U		0.28	U			0.0047	U		0.0041	U		0.0044	U		0.0046	U		0.005	U		0.005	U		0.0044	U		0.0049	U			
1,1-Dichloroethane	16	0.0156		mg/kg	0.26	U		0.28	U			0.0047	U		0.0041	U																					

Table 19. Wastewater Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date			SBWW-12N SBWW-12N_2-4 8/5/2021		SBWW-12N SBWW-12N_9-11 8/5/2021		SBWW-12O SBWW-12O_0-2 8/6/2021		SBWW-12O SBWW-12O_2-4 8/6/2021		SBWW-12O SBWW-12O_2-4-DUP 8/6/2021		SBWW-12O SBWW-12O_11.5-13.5 8/6/2021		SBWW-12P SBWW-12P_0-2 8/6/2021		SBWW-12P SBWW-12P_2-4 8/6/2021		SBWW-12P SBWW-12P_11-13 8/6/2021		SBWW-12Q SBWW-12Q_0-2 8/6/2021		
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Bromomethane	30	0.038		mg/kg	0.26	U	0.28	U	0.0047	U	0.0041	U	0.0044	U	0.0046	U	0.005	U	0.005	U	0.0044	U	0.0049	U
Carbon Disulfide	3500	4.8		mg/kg	0.26	U	0.28	U	0.00058	J+	0.013	J	0.0028	J	0.0046	U	0.005	U	0.049	J+	0.0044	U	0.0015	J+
Carbon Tetrachloride	2.9	0.0036	0.038	mg/kg	0.26	U	0.28	U	0.0047	U	0.0041	U	0.0044	U	0.0046	U	0.005	U	0.005	U	0.0044	U	0.0049	U
Chlorobenzene	1300	1.06	1.36	mg/kg	8.5		0.23	J	0.0009	J	0.0079		0.0066		0.0012	J	0.0022	J	0.00079	J	0.00052	J	0.0012	J
Chloroethane	23000	48		mg/kg	0.26	U	0.28	U	0.0047	U	0.0041	U	0.0044	U	0.0046	U	0.005	U	0.005	U	0.0044	U	0.0049	U
Chloroform	1.4	0.00122	0.44	mg/kg	0.26	U	0.28	U	0.0073		0.0041	U	0.0044	U	0.0046	U	0.04		0.00074	J	0.0044	U	0.0031	J
Chloromethane	460	0.98		mg/kg	0.26	U	0.28	U	0.0047	U	0.0041	U	0.0044	U	0.0046	U	0.00081	J	0.001	J	0.0044	U	0.0049	U
cis-1,2-Dichloroethene	2300	0.22	0.42	mg/kg	0.18	J	0.28	U	0.0047	U	0.0041	U	0.0044	U	0.0046	U	0.005	U	0.005	U	0.0044	U	0.0049	U
cis-1,3-Dichloropropene				mg/kg	0.26	U	0.28	U	0.0047	U	0.0041	U	0.0044	U	0.0046	U	0.005	U	0.005	U	0.0044	U	0.0049	U
Cyclohexane	27000	260		mg/kg	0.26	U	0.28	U	0.0047	U	0.0041	U	0.0044	U	0.0046	U	0.005	U	0.005	U	0.0044	U	0.0049	U
Dibromochloromethane	39	0.0046	0.42	mg/kg	0.26	U	0.28	U	0.0047	U	0.0041	U	0.0044	U	0.0046	U	0.005	U	0.005	U	0.0044	U	0.0049	U
Dichlorodifluoromethane	370	6		mg/kg	0.26	U	0.28	U	0.0047	UJ	0.0041	UJ	0.0044	UJ	0.0046	UJ	0.005	UJ	0.005	UJ	0.0044	U	0.0049	UJ
Diethyl Ether	230000	17.6		mg/kg	0.26	U	0.28	U	0.0012	J	0.0041	U	0.0011	J	0.0046	U	0.005	U	0.005	U	0.0044	U	0.0049	U
Ethylbenzene	25	0.034	15.6	mg/kg	0.26	U	0.027	J	0.0047	U	0.00043	J	0.00042	J	0.0046	U	0.005	U	0.005	U	0.0044	U	0.0049	U
Isopropylbenzene	9900	14.8		mg/kg	0.26	U	0.28	U	0.0047	U	0.0041	U	0.00037	J	0.0046	U	0.005	U	0.005	U	0.0044	U	0.0049	U
m&p-Xylenes				mg/kg	0.26	U	0.2	J	0.0047	U	0.00085	J	0.0014	J	0.0046	U	0.005	U	0.005	U	0.0044	U	0.0049	U
Methyl Acetate	1200000	82		mg/kg	0.26	U	0.14	J	0.0047	U	0.0041	U	0.0044	U	0.0046	U	0.005	U	0.019		0.0044	U	0.0049	U
Methyl Tert-Butyl Ether	210	0.064		mg/kg	0.26	U	0.28	U	0.0047	U	0.0041	U	0.0044	U	0.0046	U	0.005	U	0.005	U	0.0044	U	0.0049	U
Methylcyclohexane				mg/kg	0.26	U	0.28	U	0.0047	U	0.00058	J	0.0011	J	0.0046	U	0.005	U	0.005	U	0.0044	U	0.0049	U
Methylene Chloride	1000	0.058	0.026	mg/kg	0.26	U	0.28	U	0.0047	U	0.0041	U	0.0044	U	0.0046	U	0.005	U	0.005	U	0.0044	U	0.0049	U
o-Xylene	2800	3.8		mg/kg	0.26	U	0.084	J	0.0047	U	0.00099	J	0.001	J	0.0046	U	0.005	U	0.005	U	0.0044	U	0.0049	U
Styrene	35000	26	2.2	mg/kg	0.26	U	0.28	U	0.0047	U	0.0041	U	0.0044	U	0.0046	U	0.005	U	0.005	U	0.0044	U	0.0049	U
Tetrachloroethene	100	0.102	0.046	mg/kg	0.59		0.28	U	0.00066	J	0.0041	U	0.0044	U	0.0046	U	0.052		0.005	U	0.0044	U	0.0049	U
Toluene	47000	15.2	13.8	mg/kg	0.26	U	0.28	U	0.0047	U	0.014	J	0.21	J	0.0046	U	0.005	U	0.005	U	0.0044	U	0.0049	U
Total Xylenes	2500	3.8	198	mg/kg	0.51	U	0.28	J	0.0093	U	0.0018	J	0.0024	J	0.0092	U	0.01	U	0.01	U	0.0089	U	0.0098	U
trans-1,2-Dichloroethene	300	0.42	0.62	mg/kg	0.26	U	0.28	U	0.0047	U	0.0041	U	0.0044	U	0.0046	U	0.005	U	0.005	U	0.0044	U	0.0049	U
trans-1,3-Dichloropropene				mg/kg	0.26	U	0.28	U	0.0047	U	0.0041	U	0.0044	U	0.0046	U	0.005	U	0.005	U	0.0044	U	0.0049	U
Trichloroethene	6	0.0036	0.036	mg/kg	0.26	U	0.28	U	0.0047	U	0.0041	U	0.0044	U	0.0046	U	0.0016	J	0.005	U	0.0044	U	0.0049	U
Trichlorofluoromethane	350000	66		mg/kg	0.26	U	0.28	U	0.0047	U	0.0041	U	0.0044	U	0.0046	U	0.005	U	0.005	U	0.0044	U	0.0049	U
Vinyl Chloride	1.7	0.00013	0.0138	mg/kg	0.26	U	0.28	U	0.0047	U	0.0041	U	0.0044	U	0.0046	U	0.005	U	0.005	U	0.0044	U	0.0049	U
Semi-Volatiles Organic Compounds																								
1,1'-Biphenyl	200	0.174		mg/kg	0.45	U	0.044	U	0.19	U	0.45		0.45		0.044	U	0.22	U	0.13	J	0.044	U	6.4	
1,2,4,5-Tetrachlorobenzene	35	0.0158		mg/kg	0.45	U	0.044	U	0.19	U	0.44	U	0.44	U	0.044	U	0.22	U	0.24	U	0.044	U	0.19	U
2,2'-Oxybis(1-Chloropropane)	47000	5.2		mg/kg	0.53	UJ	0.052	UJ	0.23	UJ	0.52	UJ	0.51	UJ	0.052	UJ	0.26	UJ	0.28	U	0.052	U	0.23	U
2,3,4,6-Tetrachlorophenol	25000	3.6		mg/kg	2	U	0.2	U	0.88	U	2	U	2	U	0.2	U	1	U	1.1	U	0.2	U	0.87	U
2,4,5-Trichlorophenol	82000	80		mg/kg	0.45	U	0.044	U	0.19	U	0.44	U	0.44	U	0.044	U	1		0.34		0.044	U	0.19	U
2,4,6-Trichlorophenol	210	0.08		mg/kg	0.45	U	0.044	U	0.19	U	0.44	U	0.44	U	0.044	U	0.33		0.24	U	0.044	U	0.19	U
2,4-Dichlorophenol	2500	0.46		mg/kg	0.24	J	0.052	U	0.25	U	0.52	U	0.51	U	0.052	U	0.68		0.22	J	0.052	U	0.23	U
2,4-Dimethylphenol	16000	8.4		mg/kg	0.45	U	0.044	U	0.19	U	0.44	U	0.44	U	0.044	U	0.22	U	0.24	U	0.044	U	0.19	U
2,4-Dinitrophenol	1600	0.88		mg/kg	12	UJ	1.2	UJ	5.3	UJ	12	UJ	12	UJ	1.2	UJ	6.1	UJ	6.5	U	1.2	U	5.2	U
2,4-Dinitrotoluene	7.4	0.0064		mg/kg	2	U	0.2	U	0.88	U	0.8	J	1.8	J	0.2	U	1	U	1.1	U	0.2	U	0.74	J
2,6-Dinitrotoluene	1.5	0.00134		mg/kg	0.45	U	0.044	U	0.19	U	0.44	U	0.44	U	0.044	U	0.22	U	0.24	U	0.044	U	0.19	U
2-Chloronaphthalene	60000	78		mg/kg	0.41	U	0.04	U	0.18	U	0.4	U	0.4	U	0.04	U	0.2	U	0.22	U	0.04	U	0.17	U
2-Chlorophenol	5800	1.78		mg/kg	0.45	U	0.044	U	0.19	U	0.44	U	0.44	U	0.044	U	0.22	U	0.24	U	0.044	U	0.19	U
2-Methylnaphthalene	3000	3.8		mg/kg	0.2	U	0.02	U	0.033	J	0.14	J	0.17	J	0.02	U	0.058	J	0.15	U	0.02	U	0.069	J
2-Methylphenol	41000	15		mg/kg	0.61	U	0.06	U	0.26	U	0.6	U	0.59	U	0.06	U	0.31	U	0.32	U	0.06	U	0.26	U
2-Nitroaniline	8000	1.6		mg/kg	0.61	U	0.06	U	0.26	U	0.6	U	0.59	U	0.06	U	0.31	U	0.32	U	0.06	U	0.26	U
2-Nitrophenol				mg/kg	0.61	U	0.06	U	0.26	U	0.6	U	0.59	U	0.06	U	0.31	U	0.32	U	0.06	U	0.26	U
3,3'-Dichlorobenzidine	5.1	0.0164		mg/kg	2	U	0.2	U	0.88	U	2	U	2	U	0.2	U	1	U	1.1	U	0.2	U	0.87	U
3-Nitroaniline				mg/kg	2	U	0.2	U	0.88	U	2	U	2	U	0.2	U	1	U	1.1	U	0.2	U	0.87	U
4,6-Dinitro-2-Methylphenol	66	0.052		mg/kg	6.1	U	0.6	U	2.6	U	6	U	5.9	U	0.6	U	3.1	U	3.2	U	0.6	U	2.6	U
4-Bromophenyl Phenyl Ether				mg/kg	0.45	U	0.044	U	0.19	U	0.44	U	0.44	U	0.044	U	0.22	U	0.24	U	0.044	U	0.19	U
4-Chloro-3-Methylphenol	82000	34		mg/kg	0.61	U	0.06	U	0.26	U	0.6	U	0.59	U	0.06	U	0.31	U	0.32	U	0.06	U	0.26	U
4-Chloroaniline	11	0.0032		mg/kg	2	U	0.2	U	0.88	U	2	U	2	U	0.2	U	1	U	1.1	U	0.2	U	0.87	U
4-Chlorophenyl Phenyl Ether				mg/kg	0.45	U	0.044	U	0.19	U	0.44	U	0.44	U	0.044	U	0.22	U	0.24	U	0.044	U	0.19	U
4-Methylphenol	16000	6		mg/kg	0.61	U	0.06	U	0.26	U	0.6	U	0.59	U	0.06	U	0.31	U	0.32	U	0.06	U	0.26	U
4-Nitroaniline	110	0.032		mg/kg	2	U	0.2	U	0.88	U	2	U	2	U	0.2	U	1	U	1.1	U	0.2	U	0.87	U
4-Nitrophenol				mg/kg	6.1	U	0.6	U	2.6	U	6	U	5.9	U	0.6	U	3.1	U	3.2	U	0.6	U	2.6	U
Acenaphthene	45000	110		mg/kg	0.2	U	0.02	U	0.088	U	0.2	U	0.083	J	0.02	U	0.1	U	0.11	U	0.02	U	0.087	U

Table 19. Wastewater Soil Analytical Results
RCRA Facility Investigation Report
Honeywell Delaware Valley Works
Claymont, Delaware
Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date			SBWW-12N SBWW-12N_2-4 8/5/2021		SBWW-12N SBWW-12N_9-11 8/5/2021		SBWW-12O SBWW-12O_0-2 8/6/2021		SBWW-12O SBWW-12O_2-4 8/6/2021		SBWW-12O SBWW-12O_2-4-DUP 8/6/2021		SBWW-12O SBWW-12O_11.5-13.5 8/6/2021		SBWW-12P SBWW-12P_0-2 8/6/2021		SBWW-12P SBWW-12P_2-4 8/6/2021		SBWW-12P SBWW-12P_11-13 8/6/2021		SBWW-12Q SBWW-12Q_0-2 8/6/2021		
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Butylbenzyl Phthalate	1200	4.8		mg/kg	2	U	0.2	U	0.88	U	2	U	2	U	0.2	U	1	U	1.1	U	0.2	U	0.87	U
Caprolactam	400000	50		mg/kg	2	U	0.2	U	0.88	U	2	U	2	U	0.2	U	1	U	1.1	U	0.2	U	0.87	U
Carbazole				mg/kg	0.45	U	0.044	U	0.19	U	0.21	J	0.35	J	0.044	U	0.16	J	0.18	J	0.044	U	0.19	U
Chrysene	2100	180		mg/kg	0.36		0.0042	J	0.19		0.48	J	1.5	J	0.02	U	1.2		0.32		0.02	U	0.34	
Dibenzo(a,h)Anthracene	2.1	1.92		mg/kg	0.2	U	0.02	U	0.051	J	0.2	U	0.2	U	0.02	U	0.32		0.09	J	0.02	U	0.1	
Dibenzofuran	1200	3		mg/kg	0.45	U	0.044	U	0.19	U	0.44	U	0.44	U	0.044	U	0.22	U	0.24	U	0.044	U	0.11	J
Diethyl Phthalate	660000	122		mg/kg	2	U	0.2	U	0.88	U	2	U	2	U	0.2	U	1	U	1.1	U	0.2	U	0.87	U
Dimethyl Phthalate				mg/kg	2	U	0.2	U	0.88	U	2	U	2	U	0.2	U	1	U	1.1	U	0.2	U	0.87	U
Di-n-Butyl Phthalate	82000	46		mg/kg	2	U	0.2	U	0.88	U	2	U	2	U	0.2	U	1	U	1.1	U	0.2	U	0.87	U
Di-n-Octyl Phthalate	8200	1140		mg/kg	2	U	0.2	U	0.88	U	2	U	2	U	0.2	U	1	U	1.1	U	0.2	U	0.87	U
Fluoranthene	30000	1780		mg/kg	0.61		0.0082	J	0.25	J	0.74	J	2.7	J	0.02	U	1.8		0.27		0.02	U	0.27	
Fluorene	30000	108		mg/kg	0.2	U	0.02	U	0.088	U	0.2	U	0.2	U	0.02	U	0.1	U	0.11	U	0.02	U	0.087	U
Hexachlorobenzene	0.96	0.0024	0.26	mg/kg	0.2	U	0.02	U	0.088	U	0.2	U	0.2	U	0.02	U	0.1	U	0.11	U	0.02	U	0.087	U
Hexachlorobutadiene	5.3	0.0054		mg/kg	0.61	U	0.06	U	0.26	U	0.6	U	0.59	U	0.06	U	0.31	U	0.32	U	0.06	U	0.26	U
Hexachlorocyclopentadiene	7.5	0.026	3.2	mg/kg	6.1	UJ	0.6	UJ	2.6	UJ	6	UJ	5.9	UJ	0.6	UJ	3.1	UJ	3.2	UJ	0.6	UJ	2.6	UJ
Hexachloroethane	8	0.004		mg/kg	2	U	0.2	U	0.88	U	2	U	2	U	0.2	U	1	U	1.1	U	0.2	U	0.87	U
Indeno(1,2,3-Cd)Pyrene	21	19.6		mg/kg	0.11	J	0.02	U	0.14	J	0.27	J	0.94	J	0.02	U	0.94		0.15		0.02	U	0.27	
Isophorone	2400	0.52		mg/kg	0.81	U	0.08	U	0.35	U	0.8	U	0.79	U	0.08	U	0.41	U	0.43	U	0.08	U	0.35	U
Naphthalene	8.6	0.0076		mg/kg	1.5		0.02	U	0.037	J	0.15	J	0.15	J	0.02	U	0.068	J	0.13		0.02	U	0.15	
Nitrobenzene	22	0.00184		mg/kg	0.45	U	0.044	U	0.19	U	0.44	U	0.44	U	0.044	U	0.22	U	0.2	J	0.044	U	0.19	U
n-Nitroso-di-n-Propylamine	0.33	0.000162		mg/kg	0.81	U	0.08	U	0.35	U	0.8	U	0.79	U	0.08	U	0.41	U	0.43	U	0.08	U	0.35	U
n-Nitrosodiphenylamine	470	1.34		mg/kg	3.4		0.024	J	0.19	U	0.73	J	1.5	J	0.044	U	0.22	U	1		0.044	U	0.13	J
Pentachlorophenol	4	0.00114	0.028	mg/kg	2	UJ	0.2	UJ	0.88	UJ	2	UJ	2	UJ	0.2	UJ	1	UJ	1.1	U	0.2	U	0.87	U
Phenanthrene				mg/kg	0.5		0.0094	J	0.13		0.59	J	1.5	J	0.02	U	0.73		0.36		0.02	U	0.18	
Phenol	250000	66		mg/kg	0.45	U	0.044	U	0.19	U	0.44	U	0.44	U	0.044	U	0.22	U	0.24	U	0.044	U	2.9	
Pyrene	23000	260		mg/kg	0.49		0.0086	J	0.26		0.6	J	2.5	J	0.011	J	1.8		0.28		0.02	U	0.27	

Notes:
Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), Industrial Soil Screening Level (SSL) (November 2021)
Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20
Exceeds the EPA RSL, Maximum Contaminant Level (MCL) SSL assuming a DAF of 20
Blanks indicate RSL not established or constituent not analyzed
RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0
U = undetected
J = estimated value
J+ = estimated biased high
J- = estimated biased low
R = rejected
MG/KG - milligram per kilogram
SWMU = Solid Waste Management Unit
RCRA = Resource Conservation and Recovery Act
Sample depth shown in Sample ID (e.g., SBBF3-04_6-8 indicates 6 to 8-foot sample)
DUP = Duplicate sample
Exceedances shown may exceed one or more criteria if available

Table 19. Wastewater Soil Analytical Results
RCRA Facility Investigation Report
Honeywell Delaware Valley Works
Claymont, Delaware
Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date			SBWW-12Q SBWW-12Q_2-4 8/6/2021		SBWW-12R SBWW-12R_0-2 8/9/2021		SBWW-12R SBWW-12R_4-6 8/9/2021		SBWW-12R SBWW-12R_14-16 8/9/2021		SBWW-12S SBWW-12S_0-2 8/9/2021		SBWW-12S SBWW-12S_4.5-6.5 8/9/2021		SBWW-12S SBWW-12S_4.5-6.5-DUP 8/9/2021		SBWW-12T SBWW-12T_0-2 8/9/2021		SBWW-12T SBWW-12T_2-4 8/9/2021		SBWW-12T SBWW-12T_4-6 8/9/2021		
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Bromomethane	30	0.038		mg/kg	0.24	U	0.0046	U	3.1	U	0.0045	U	0.005	U	0.36	U	2.2	U	0.0052	U	0.4	U	0.27	U
Carbon Disulfide	3500	4.8		mg/kg	0.24	U	0.0046	U	3.1	U	0.0045	U	0.00067	J	0.36	U	2.2	U	0.0023	J	0.4	U	0.27	U
Carbon Tetrachloride	2.9	0.0036	0.038	mg/kg	0.24	U	0.0046	U	3.1	U	0.0045	U	0.005	U	0.36	U	2.2	U	0.0052	U	0.4	U	0.27	U
Chlorobenzene	1300	1.06	1.36	mg/kg	2.9		0.0046	U	0.85	J	0.011		0.00068	J	50		56		0.00097	J	2.7		0.27	U
Chloroethane	23000	48		mg/kg	0.24	U	0.0046	U	3.1	U	0.0045	U	0.005	U	0.36	U	2.2	U	0.0052	U	0.4	U	0.27	U
Chloroform	1.4	0.00122	0.44	mg/kg	0.24	U	0.0046	U	3.1	U	0.093		0.00069	J	0.36	U	2.2	U	0.002	J	0.77		0.27	U
Chloromethane	460	0.98		mg/kg	0.24	U	0.0046	U	3.1	U	0.0045	U	0.0017	J	0.36	U	2.2	U	0.0052	U	0.4	U	0.27	U
cis-1,2-Dichloroethene	2300	0.22	0.42	mg/kg	0.24	U	0.0046	U	3.1	U	0.0045	U	0.005	U	0.36	U	2.2	U	0.0052	U	0.4	U	0.27	U
cis-1,3-Dichloropropene				mg/kg	0.24	U	0.0046	U	3.1	U	0.0045	U	0.005	U	0.36	U	2.2	U	0.0052	U	0.4	U	0.27	U
Cyclohexane	27000	260		mg/kg	0.24	U	0.0046	U	3.1	U	0.0045	U	0.005	U	0.36	U	2.2	U	0.0052	U	0.4	U	0.27	U
Dibromochloromethane	39	0.0046	0.42	mg/kg	0.24	U	0.0046	U	3.1	U	0.0045	U	0.005	U	0.36	U	2.2	U	0.0052	U	0.4	U	0.27	U
Dichlorodifluoromethane	370	6		mg/kg	0.24	U	0.0046	U	3.1	UJ	0.0045	U	0.005	U	0.36	UJ	2.2	UJ	0.0052	U	0.4	UJ	0.27	U
Diethyl Ether	230000	17.6		mg/kg	0.24	U	0.0046	U	3.1	U	0.0045	U	0.005	U	0.36	U	2.2	U	0.0052	U	0.4	U	0.27	U
Ethylbenzene	25	0.034	15.6	mg/kg	0.24	U	0.0046	U	3.1	U	0.0045	U	0.005	U	0.031	J	2.2	U	0.0052	U	0.4	U	0.27	U
Isopropylbenzene	9900	14.8		mg/kg	0.24	U	0.0046	U	0.39	J	0.0045	U	0.005	U	0.36	U	2.2	U	0.0052	U	0.4	U	0.27	U
m&p-Xylenes				mg/kg	0.24	U	0.0046	U	1.3	J	0.0045	U	0.005	U	0.25	J	2.2	U	0.0052	U	0.4	U	0.27	U
Methyl Acetate	1200000	82		mg/kg	0.31		0.0046	U	3.1	U	0.0045	U	0.0022	J	0.29	J	2.2	U	0.0052	U	0.4	U	0.27	U
Methyl Tert-Butyl Ether	210	0.064		mg/kg	0.24	U	0.0046	U	3.1	U	0.0045	U	0.005	U	0.36	U	2.2	U	0.0052	U	0.4	U	0.27	U
Methylcyclohexane				mg/kg	0.24	U	0.0046	U	3.1	U	0.0045	U	0.005	U	0.36	U	2.2	U	0.0052	U	0.4	U	0.27	U
Methylene Chloride	1000	0.058	0.026	mg/kg	0.24	U	0.0046	U	3.1	U	0.0064		0.005	U	0.36	U	2.2	U	0.0052	U	0.4	U	0.27	U
o-Xylene	2800	3.8		mg/kg	0.24	U	0.0046	U	0.74	J	0.0045	U	0.005	U	0.075	J	2.2	U	0.0052	U	0.4	U	0.27	U
Styrene	35000	26	2.2	mg/kg	0.24	U	0.0046	U	3.1	U	0.0045	U	0.005	U	0.36	U	2.2	U	0.0052	U	0.4	U	0.27	U
Tetrachloroethene	100	0.102	0.046	mg/kg	0.24	U	0.0046	U	3.1	U	0.0015	J	0.005	U	0.36	U	2.2	U	0.0022	J	0.4	U	0.27	U
Toluene	47000	15.2	13.8	mg/kg	0.24	U	0.0046	U	0.61	J	0.0045	U	0.005	U	0.071	J	2.2	U	0.0052	U	0.4	U	0.27	U
Total Xylenes	2500	3.8	198	mg/kg	0.48	U	0.0092	U	2	J	0.009	U	0.0099	U	0.33	J	4.5	U	0.01	U	0.8	U	0.55	U
trans-1,2-Dichloroethene	300	0.42	0.62	mg/kg	0.24	U	0.0046	U	3.1	U	0.0045	U	0.005	U	0.36	U	2.2	U	0.0052	U	0.4	U	0.27	U
trans-1,3-Dichloropropene				mg/kg	0.24	U	0.0046	U	3.1	U	0.0045	U	0.005	U	0.36	U	2.2	U	0.0052	U	0.4	U	0.27	U
Trichloroethene	6	0.0036	0.036	mg/kg	0.24	U	0.0046	U	3.1	U	0.0045	U	0.005	U	0.36	U	2.2	U	0.0052	U	0.4	U	0.27	U
Trichlorofluoromethane	350000	66		mg/kg	0.24	U	0.0046	U	3.1	U	0.0045	U	0.005	U	0.36	U	2.2	U	0.0052	U	0.4	U	0.27	U
Vinyl Chloride	1.7	0.00013	0.0138	mg/kg	0.24	U	0.0046	U	3.1	U	0.0045	U	0.005	U	0.36	U	2.2	U	0.0052	U	0.4	U	0.27	U
Semi-Volatiles Organic Compounds																								
1,1'-Biphenyl	200	0.174		mg/kg	0.17	J	0.039	U	10		0.044	U	0.04	U	1.5	J	6.9	J	0.039	U	0.24	U	0.044	U
1,2,4,5-Tetrachlorobenzene	35	0.0158		mg/kg	0.2	U	0.039	U	0.45	U	0.044	U	0.04	U	0.03	J	1.1	J	0.039	U	0.24	U	0.044	U
2,2'-Oxybis(1-Chloropropane)	47000	5.2		mg/kg	0.24	U	0.046	U	0.54	U	0.052	U	0.047	U	0.056	U	0.67	U	0.046	U	0.28	U	0.052	U
2,3,4,6-Tetrachlorophenol	25000	3.6		mg/kg	0.93	U	0.18	U	2.1	UJ	0.2	U	0.18	U	0.22	U	2.6	U	0.18	U	1.1	U	0.2	U
2,4,5-Trichlorophenol	82000	80		mg/kg	0.2	U	0.039	U	0.45	U	0.044	U	0.04	U	0.048	U	0.57	U	0.039	U	0.82	U	0.044	U
2,4,6-Trichlorophenol	210	0.08		mg/kg	0.2	U	0.039	U	0.45	U	0.044	U	0.04	U	0.07	J	3.9	J	0.039	U	0.27		0.044	U
2,4-Dichlorophenol	2500	0.46		mg/kg	0.24	U	0.046	U	0.54	U	0.052	U	0.047	U	0.031	J	0.39	J	0.046	U	0.15	J	0.052	U
2,4-Dimethylphenol	16000	8.4		mg/kg	0.2	U	0.039	U	0.45	U	0.044	U	0.04	U	0.048	U	0.57	U	0.039	U	0.24	U	0.044	U
2,4-Dinitrophenol	1600	0.88		mg/kg	5.6	U	1.1	U	12	UJ	1.2	U	1.1	U	1.3	U	15	U	1.1	U	6.5	U	1.2	U
2,4-Dinitrotoluene	7.4	0.0064		mg/kg	0.93	U	0.18	U	2.1	UJ	0.2	U	0.18	U	0.22	U	2.6	U	0.18	U	1.1	U	0.2	U
2,6-Dinitrotoluene	1.5	0.00134		mg/kg	0.2	U	0.039	U	0.45	UJ	0.044	U	0.04	U	0.048	U	0.57	U	0.039	U	0.24	U	0.044	U
2-Chloronaphthalene	60000	78		mg/kg	0.19	U	0.036	U	0.41	U	0.04	U	0.036	U	0.043	U	0.51	U	0.035	U	0.22	U	0.04	U
2-Chlorophenol	5800	1.78		mg/kg	0.2	U	0.039	U	1.2	J-	0.044	U	0.04	U	0.056		0.57	U	0.039	U	0.24	U	0.044	U
2-Methylnaphthalene	3000	3.8		mg/kg	0.093	U	0.0092	J	0.7	J-	0.02	U	0.018	U	0.0067	J	0.26	U	0.026	U	0.13		0.02	U
2-Methylphenol	41000	15		mg/kg	0.28	U	0.053	U	0.62	U	0.06	U	0.055	U	0.065	U	0.77	U	0.053	U	0.33	U	0.06	U
2-Nitroaniline	8000	1.6		mg/kg	0.28	U	0.053	U	0.62	UJ	0.06	U	0.055	U	0.065	U	0.77	U	0.053	U	0.33	U	0.06	U
2-Nitrophenol				mg/kg	0.28	U	0.053	U	0.62	UJ	0.06	U	0.055	U	0.065	U	0.77	U	0.053	U	0.33	U	0.06	U
3,3'-Dichlorobenzidine	5.1	0.0164		mg/kg	0.93	U	0.18	U	2.1	U	0.2	U	0.18	U	0.22	U	2.6	U	0.18	U	1.1	U	0.2	U
3-Nitroaniline				mg/kg	0.93	U	0.18	U	2.1	UJ	0.2	U	0.18	U	0.22	U	2.6	U	0.18	U	1.1	U	0.2	U
4,6-Dinitro-2-Methylphenol	66	0.052		mg/kg	2.8	U	0.53	U	6.2	R	0.6	U	0.55	U	0.65	U	7.7	U	0.53	U	3.3	U	0.6	U
4-Bromophenyl Phenyl Ether				mg/kg	0.2	U	0.039	U	0.45	U	0.044	U	0.04	U	0.048	U	0.57	U	0.039	U	0.24	U	0.044	U
4-Chloro-3-Methylphenol	82000	34		mg/kg	0.28	U	0.053	U	0.62	U	0.06	U	0.055	U	0.065	U	0.77	U	0.053	U	0.33	U	0.06	U
4-Chloroaniline	11	0.0032		mg/kg	0.93	U	0.18	U	2.1	UJ	0.2	U	0.18	U	0.22	U	2.6	U	0.18	U	1.1	U	0.2	U
4-Chlorophenyl Phenyl Ether				mg/kg	0.2	U	0.039	U	0.45	U	0.044	U	0.04	U	0.048	U	0.57	U	0.039	U	0.24	U	0.044	U
4-Methylphenol	16000	6		mg/kg	0.28	U	0.053	U	0.62	U	0.06	U	0.055	U	0.065	U	0.77	U	0.053	U	0.33	U	0.06	U
4-Nitroaniline	110	0.032		mg/kg	0.93	U	0.18	U	2.1	UJ	0.2	U	0.18	U	0.22	U	2.6	U	0.18	U	1.1	U	0.2	U
4-Nitrophenol				mg/kg	2.8	U	0.53	U	6.2	R	0.6	U	0.55	U	0.65	U	7.7	U	0.53	U	3.3	U	0.6	U
Acenaphthene	45000	110		mg/kg																				

Table 19. Wastewater Soil Analytical Results
RCRA Facility Investigation Report
Honeywell Delaware Valley Works
Claymont, Delaware
Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date			SBWW-12Q SBWW-12Q_2-4 8/6/2021		SBWW-12R SBWW-12R_0-2 8/9/2021		SBWW-12R SBWW-12R_4-6 8/9/2021		SBWW-12R SBWW-12R_14-16 8/9/2021		SBWW-12S SBWW-12S_0-2 8/9/2021		SBWW-12S SBWW-12S_4.5-6.5 8/9/2021		SBWW-12S SBWW-12S_4.5-6.5-DUP 8/9/2021		SBWW-12T SBWW-12T_0-2 8/9/2021		SBWW-12T SBWW-12T_2-4 8/9/2021		SBWW-12T SBWW-12T_4-6 8/9/2021		
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Butylbenzyl Phthalate	1200	4.8		mg/kg	0.93	U	0.18	U	2.1	U	0.2	U	0.18	U	0.22	U	2.6	U	0.18	U	1.1	U	0.2	U
Caprolactam	400000	50		mg/kg	0.93	U	0.18	U	2.1	U	0.2	U	0.18	U	0.22	U	2.6	U	0.18	U	1.1	U	0.2	U
Carbazole				mg/kg	0.11	J	0.039	U	0.45	U	0.044	U	0.04	U	0.048	U	0.57	U	0.039	U	0.34		0.044	U
Chrysene	2100	180		mg/kg	0.098		0.035		0.69	J	0.02	U	0.014	J	0.011	J	0.061	J	0.069		3.2		0.02	U
Dibenzo(a,h)Anthracene	2.1	1.92		mg/kg	0.093	U	0.018	U	0.17	J	0.02	U	0.018	U	0.022	U	0.26	U	0.017	J	0.93		0.02	U
Dibenzofuran	1200	3		mg/kg	0.2	U	0.039	U	0.45	U	0.044	U	0.04	U	0.048	U	0.57	U	0.039	U	0.18	J	0.044	U
Diethyl Phthalate	660000	122		mg/kg	0.93	U	0.18	U	2.1	U	0.2	U	0.18	U	0.22	U	2.6	U	0.18	U	1.1	U	0.2	U
Dimethyl Phthalate				mg/kg	0.93	U	0.18	U	2.1	U	0.2	U	0.18	U	0.22	U	2.6	U	0.18	U	1.1	U	0.2	U
Di-n-Butyl Phthalate	82000	46		mg/kg	0.93	U	0.18	U	2.1	U	0.2	U	0.18	U	0.22	U	2.6	U	0.18	U	1.1	U	0.2	U
Di-n-Octyl Phthalate	8200	1140		mg/kg	0.93	U	0.18	U	2.1	U	0.2	U	0.18	U	0.22	U	2.6	U	0.18	U	1.1	U	0.2	U
Fluoranthene	30000	1780		mg/kg	0.12		0.046		1	J	0.02	U	0.018		0.023	J	0.12	J	0.09		8		0.02	U
Fluorene	30000	108		mg/kg	0.093	U	0.018	U	0.22		0.02	U	0.018	U	0.022	U	0.26	U	0.018	U	0.31		0.02	U
Hexachlorobenzene	0.96	0.0024	0.26	mg/kg	0.093	U	0.095		0.21	U	0.02	U	0.018	U	0.022	U	0.26	U	0.18		0.11	U	0.02	U
Hexachlorobutadiene	5.3	0.0054		mg/kg	0.28	U	0.053	U	0.62	U	0.06	U	0.055	U	0.065	U	0.77	U	0.053	U	0.33	U	0.06	U
Hexachlorocyclopentadiene	7.5	0.026	3.2	mg/kg	2.8	UJ	0.53	UJ	6.2	UJ	0.6	UJ	0.55	UJ	0.65	UJ	7.7	UJ	0.53	UJ	3.3	UJ	0.6	UJ
Hexachloroethane	8	0.004		mg/kg	0.93	U	0.18	U	2.1	R	0.2	U	0.18	U	0.22	U	2.6	U	0.18	U	1.1	U	0.2	U
Indeno(1,2,3-Cd)Pyrene	21	19.6		mg/kg	0.093	U	0.026		0.35		0.02	U	0.012	J	0.0066	J	0.26	U	0.048		2.6		0.02	U
Isophorone	2400	0.52		mg/kg	0.37	U	0.071	U	0.82	U	0.08	U	0.073	U	0.087	U	1	U	0.071	U	0.44	U	0.08	U
Naphthalene	8.6	0.0076		mg/kg	0.093	U	0.008	J	0.65	J-	0.02	U	0.018	U	0.06	J	0.21	J	0.023		0.087	J	0.02	U
Nitrobenzene	22	0.00184		mg/kg	0.2	U	0.039	U	0.45	U	0.044	U	0.04	U	0.048	U	0.57	U	0.039	U	0.24	U	0.044	U
n-Nitroso-di-n-Propylamine	0.33	0.000162		mg/kg	0.37	U	0.071	U	0.82	U	0.08	U	0.073	U	0.087	U	1	U	0.071	U	0.44	U	0.08	U
n-Nitrosodiphenylamine	470	1.34		mg/kg	0.69		0.039	U	2.2	J	0.044	U	0.04	U	0.034	J	0.57	U	0.02	J	0.33		0.044	U
Pentachlorophenol	4	0.00114	0.028	mg/kg	0.93	U	0.18	U	2.1	R	0.2	U	0.18	U	0.22	U	2.6	U	0.18	U	1.1	U	0.2	UJ
Phenanthrene				mg/kg	0.12		0.025		0.75	J	0.02	U	0.008	J	0.019	J	0.097	J	0.059		6		0.02	U
Phenol	250000	66		mg/kg	0.2	U	0.039	U	0.45	U	0.044	U	0.04	U	0.048	U	0.57	U	0.039	U	0.24	U	0.044	U
Pyrene	23000	260		mg/kg	0.088	J	0.041		0.9	J	0.02	U	0.017	J	0.021	J	0.094	J	0.075		5.8		0.02	U

Notes:
Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), Industrial Soil Screening Level (SSL) (November 2021)
Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20
Exceeds the EPA RSL, Maximum Contaminant Level (MCL) SSL assuming a DAF of 20
Blanks indicate RSL not established or constituent not analyzed
RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0
U = undetected
J = estimated value
J+ = estimated biased high
J- = estimated biased low
R = rejected
MG/KG - milligram per kilogram
SWMU = Solid Waste Management Unit
RCRA = Resource Conservation and Recovery Act
Sample depth shown in Sample ID (e.g., SBBF3-04_6-8 indicates 6 to 8-foot sample)
DUP = Duplicate sample
Exceedances shown may exceed one or more criteria if available

Table 19. Wastewater Soil Analytical Results
RCRA Facility Investigation Report
Honeywell Delaware Valley Works
Claymont, Delaware
Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date			SBWW-12U SBWW-12U_0-2 8/10/2021	SBWW-12U SBWW-12U_14-16 8/10/2021	SBWW-12U SBWW-12U_14-16-DUP 8/10/2021	SBWW-12V SBWW-12V_0-2 8/10/2021	SBWW-12V SBWW-12V_2-4 8/10/2021	SBWW-12V SBWW-12V_13.5-16.5 8/10/2021	SBWW-12W SBWW-12W_0-2 8/10/2021	SBWW-12W SBWW-12W_2-4 8/10/2021	SBWW-12W SBWW-12W_4-6 8/10/2021	SBWW-12W SBWW-12W_4-6-DUP 8/10/2021	
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Bromomethane	30	0.038		mg/kg	0.0047	U	0.0046	U	0.0048	U	0.0051	U	0.0052	U
Carbon Disulfide	3500	4.8		mg/kg	0.0047	U	0.0046	U	0.0048	U	0.0051	J	0.0052	J
Carbon Tetrachloride	2.9	0.0036	0.038	mg/kg	0.0047	U	0.0046	U	0.0048	U	0.0051	U	0.0052	U
Chlorobenzene	1300	1.06	1.36	mg/kg	0.0047	U	0.00092	J	0.00076	J	0.0092		0.0092	J
Chloroethane	23000	48		mg/kg	0.0047	U	0.0046	U	0.0048	U	0.0051	U	0.0052	U
Chloroform	1.4	0.00122	0.44	mg/kg	0.0047	U	0.0046	U	0.0048	U	0.0051	J	0.0052	J
Chloromethane	460	0.98		mg/kg	0.0047	U	0.0046	U	0.0048	U	0.0051	U	0.0052	U
cis-1,2-Dichloroethene	2300	0.22	0.42	mg/kg	0.0047	U	0.0046	U	0.0048	U	0.0051	U	0.0052	U
cis-1,3-Dichloropropene				mg/kg	0.0047	U	0.0046	U	0.0048	U	0.0051	U	0.0052	U
Cyclohexane	27000	260		mg/kg	0.0047	U	0.0046	U	0.0048	U	0.0051	U	0.0052	U
Dibromochloromethane	39	0.0046	0.42	mg/kg	0.0047	U	0.0046	U	0.0048	U	0.0051	U	0.0052	U
Dichlorodifluoromethane	370	6		mg/kg	0.0047	U	0.0046	U	0.0048	U	0.0051	U	0.0052	U
Diethyl Ether	230000	17.6		mg/kg	0.0047	U	0.0046	U	0.0048	U	0.0051	U	0.0052	U
Ethylbenzene	25	0.034	15.6	mg/kg	0.0047	U	0.0046	U	0.0048	U	0.0051	U	0.0052	U
Isopropylbenzene	9900	14.8		mg/kg	0.0047	U	0.0046	U	0.0048	U	0.0051	U	0.0052	U
m&p-Xylenes				mg/kg	0.0047	U	0.0046	U	0.0048	U	0.0051	U	0.0052	U
Methyl Acetate	1200000	82		mg/kg	0.0047	U	0.0046	U	0.0048	U	0.0051	U	0.0052	U
Methyl Tert-Butyl Ether	210	0.064		mg/kg	0.0047	U	0.0046	U	0.0048	U	0.0051	U	0.0052	U
Methylcyclohexane				mg/kg	0.0047	U	0.0046	U	0.0048	U	0.0051	U	0.0052	U
Methylene Chloride	1000	0.058	0.026	mg/kg	0.0047	U	0.0046	U	0.0048	U	0.0051	U	0.0052	U
o-Xylene	2800	3.8		mg/kg	0.0047	U	0.0046	U	0.0048	U	0.0051	U	0.0052	U
Styrene	35000	26	2.2	mg/kg	0.0047	U	0.0046	U	0.0048	U	0.0051	U	0.0052	U
Tetrachloroethene	100	0.102	0.046	mg/kg	0.0047	U	0.0046	U	0.0048	U	0.0051	U	0.0052	U
Toluene	47000	15.2	13.8	mg/kg	0.0047	U	0.0046	U	0.0048	U	0.0051	U	0.0052	U
Total Xylenes	2500	3.8	198	mg/kg	0.0094	U	0.0092	U	0.0096	U	0.011	U	0.011	U
trans-1,2-Dichloroethene	300	0.42	0.62	mg/kg	0.0047	U	0.0046	U	0.0048	U	0.0051	U	0.0052	U
trans-1,3-Dichloropropene				mg/kg	0.0047	U	0.0046	U	0.0048	U	0.0051	U	0.0052	U
Trichloroethene	6	0.0036	0.036	mg/kg	0.0047	U	0.0046	U	0.0048	U	0.0051	U	0.0052	U
Trichlorofluoromethane	350000	66		mg/kg	0.0047	U	0.0046	U	0.0048	U	0.0051	U	0.0052	U
Vinyl Chloride	1.7	0.0013	0.0138	mg/kg	0.0047	U	0.0046	U	0.0048	U	0.0051	U	0.0052	U
Semi-Volatiles Organic Compounds														
1,1'-Biphenyl	200	0.174		mg/kg	0.038	U	0.043	U	0.043	U	0.039	J	0.044	U
1,2,4,5-Tetrachlorobenzene	35	0.0158		mg/kg	0.038	U	0.043	U	0.043	U	0.039	U	0.044	U
2,2'-Oxybis(1-Chloropropane)	47000	5.2		mg/kg	0.045	UJ	0.051	UJ	0.051	UJ	0.046	UJ	0.052	UJ
2,3,4,6-Tetrachlorophenol	25000	3.6		mg/kg	0.17	U	0.2	U	0.2	U	0.18	U	0.2	U
2,4,5-Trichlorophenol	82000	80		mg/kg	0.038	U	0.043	U	0.043	U	0.04	U	0.044	U
2,4,6-Trichlorophenol	210	0.08		mg/kg	0.037	J	0.043	U	0.043	U	0.034	J	0.044	U
2,4-Dichlorophenol	2500	0.46		mg/kg	0.074	U	0.051	U	0.051	U	0.065	U	0.065	U
2,4-Dimethylphenol	16000	8.4		mg/kg	0.038	U	0.043	U	0.043	U	0.039	U	0.044	U
2,4-Dinitrophenol	1600	0.88		mg/kg	1	U	1.2	U	1.2	U	1.1	U	1.2	U
2,4-Dinitrotoluene	7.4	0.0064		mg/kg	0.17	U	0.35	U	0.34	U	0.18	U	0.2	U
2,6-Dinitrotoluene	1.5	0.00134		mg/kg	0.038	U	0.043	U	0.043	U	0.039	U	0.044	U
2-Chloronaphthalene	60000	78		mg/kg	0.035	U	0.039	U	0.04	U	0.035	U	0.04	U
2-Chlorophenol	5800	1.78		mg/kg	0.038	U	0.043	U	0.043	U	0.039	U	0.044	U
2-Methylnaphthalene	3000	3.8		mg/kg	0.0083	J	0.02	U	0.02	U	0.017	J	0.02	U
2-Methylphenol	41000	15		mg/kg	0.052	U	0.059	U	0.059	U	0.053	U	0.06	U
2-Nitroaniline	8000	1.6		mg/kg	0.052	U	0.04	J	0.038	J	0.053	U	0.06	U
2-Nitrophenol				mg/kg	0.052	U	0.059	U	0.059	U	0.053	U	0.06	U
3,3'-Dichlorobenzidine	5.1	0.0164		mg/kg	0.17	U	0.2	U	0.2	U	0.18	U	0.2	U
3-Nitroaniline				mg/kg	0.17	U	0.17	J	0.14	J	0.18	U	0.2	U
4,6-Dinitro-2-Methylphenol	66	0.052		mg/kg	0.52	U	0.59	U	0.59	U	0.53	U	0.6	U
4-Bromophenyl Phenyl Ether				mg/kg	0.038	U	0.043	U	0.043	U	0.039	U	0.044	U
4-Chloro-3-Methylphenol	82000	34		mg/kg	0.052	U	0.059	U	0.059	U	0.053	U	0.06	U
4-Chloroaniline	11	0.0032		mg/kg	0.17	U	0.2	U	0.2	U	0.18	U	0.2	U
4-Chlorophenyl Phenyl Ether				mg/kg	0.038	U	0.043	U	0.043	U	0.039	U	0.044	U
4-Methylphenol	16000	6		mg/kg	0.052	U	0.059	U	0.059	U	0.053	U	0.06	U
4-Nitroaniline	110	0.032		mg/kg	0.17	U	0.2	U	0.2	U	0.18	U	0.2	U
4-Nitrophenol				mg/kg	0.52	U	0.59	U	0.59	U	0.53	U	0.6	U
Acenaphthene	45000	110		mg/kg	0.017	U	0.02	U	0.02	U	0.018	U	0.02	U
Acenaphthylene				mg/kg	0.0084	J	0.02	U	0.02	U	0.028	U	0.02	U
Acetophenone	120000	11.6		mg/kg	0.052	U	0.059	U	0.059	U	0.053	U	0.06	U
Anthracene	230000	1160		mg/kg	0.007	J	0.02	U	0.02	U	0.025	J	0.02	U
Atrazine	10	0.004	0.038	mg/kg	0.17	U	0.2	U	0.2	U	0.18	U	0.2	U
Benzaldehyde	820	0.082		mg/kg	0.17	U	0.2	U	0.2	U	0.18	U	0.2	U
Benzo(A)Anthracene	21	0.22		mg/kg	0.025	U	0.02	U	0.02	U	0.17	J	0.02	U
Benzo(A)Pyrene	2.1	0.58	4.8	mg/kg	0.024	U	0.02	U	0.02	U	0.23	J	0.02	U
Benzo(B)Fluoranthene	21	6		mg/kg	0.055	U	0.02	U	0.02	U	0.33	J	0.02	U
Benzo(G,H,I)perylene				mg/kg	0.026	U	0.02	U	0.02	U	0.19	J	0.02	U
Benzo(K)Fluoranthene	210	58		mg/kg	0.019	U	0.02	U	0.02	U	0.14	J	0.02	U
bis-(2-Chloroethoxy)Methane	2500	0.26		mg/kg	0.038	U	0.043	U	0.043	U	0.039	U	0.044	U
bis-(2-Chloroethyl)Ether	1	0.000072		mg/kg	0.038	U	0.043	U	0.043	U	0.039	U	0.044	U
bis-(2-Ethylhexyl)Phthalate	160	26	28	mg/kg	0.17	U	0.2	U	0.2	U	0.18	U	0.2	U

Table 19. Wastewater Soil Analytical Results
RCRA Facility Investigation Report
Honeywell Delaware Valley Works
Claymont, Delaware
Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date			SBWW-12U SBWW-12U_0-2 8/10/2021		SBWW-12U SBWW-12U_14-16 8/10/2021		SBWW-12U SBWW-12U_14-16-DUP 8/10/2021		SBWW-12V SBWW-12V_0-2 8/10/2021		SBWW-12V SBWW-12V_2-4 8/10/2021		SBWW-12V SBWW-12V_13.5-16.5 8/10/2021		SBWW-12W SBWW-12W_0-2 8/10/2021		SBWW-12W SBWW-12W_2-4 8/10/2021		SBWW-12W SBWW-12W_4-6 8/10/2021		SBWW-12W SBWW-12W_4-6-DUP 8/10/2021		
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Butylbenzyl Phthalate	1200	4.8		mg/kg	0.17	U	0.2	U	0.2	U	0.18	U	1.9	U	0.2	U	1.7	U	0.2	U	0.2	U	0.2	U
Caprolactam	400000	50		mg/kg	0.17	U	0.2	U	0.2	U	0.18	U	1.9	U	0.2	U	1.7	U	0.2	U	0.2	U	0.2	U
Carbazole				mg/kg	0.038	U	0.043	U	0.043	U	0.039	U	0.43	U	0.044	U	0.38	U	0.043	U	0.044	U	0.044	U
Chrysene	2100	180		mg/kg	0.045		0.02	U	0.02	U	0.2		0.61		0.02	U	0.44		0.0063	J	0.0064	J	0.02	U
Dibenzo(a,h)Anthracene	2.1	1.92		mg/kg	0.017	U	0.02	U	0.02	U	0.018	U	0.14	J	0.02	U	0.17	U	0.02	U	0.02	U	0.02	U
Dibenzofuran	1200	3		mg/kg	0.038	U	0.043	U	0.043	U	0.039	U	0.43	U	0.044	U	0.17	J	0.043	U	0.044	U	0.044	U
Diethyl Phthalate	660000	122		mg/kg	0.17	U	0.2	U	0.2	U	0.18	U	1.9	U	0.2	U	1.7	U	0.2	U	0.2	U	0.2	U
Dimethyl Phthalate				mg/kg	0.17	U	0.2	U	0.2	U	0.18	U	1.9	U	0.2	U	1.7	U	0.2	U	0.2	U	0.2	U
Di-n-Butyl Phthalate	82000	46		mg/kg	0.17	U	0.2	U	0.2	U	0.18	U	1.9	U	0.2	U	1.7	U	0.2	U	0.2	U	0.2	U
Di-n-Octyl Phthalate	8200	1140		mg/kg	0.17	U	0.2	U	0.2	U	0.18	U	1.9	U	0.2	U	1.7	U	0.2	U	0.2	U	0.2	U
Fluoranthene	30000	1780		mg/kg	0.051		0.02	U	0.0046	J	0.22		0.61		0.02	U	0.72		0.0097	J	0.0047	J	0.02	U
Fluorene	30000	108		mg/kg	0.017	U	0.02	U	0.02	U	0.018	U	0.19	U	0.02	U	0.17	U	0.02	U	0.02	U	0.02	U
Hexachlorobenzene	0.96	0.0024	0.26	mg/kg	0.032		0.02	U	0.02	U	0.059		0.19	U	0.02	U	1		0.02	U	0.02	U	0.02	U
Hexachlorobutadiene	5.3	0.0054		mg/kg	0.052	U	0.059	U	0.059	U	0.053	U	0.58	U	0.06	U	0.52	U	0.059	U	0.06	U	0.06	U
Hexachlorocyclopentadiene	7.5	0.026	3.2	mg/kg	0.52	UJ	0.59	UJ	0.59	UJ	0.53	UJ	5.8	UJ	0.6	UJ	5.2	UJ	0.59	UJ	0.6	UJ	0.6	UJ
Hexachloroethane	8	0.004		mg/kg	0.17	U	0.2	U	0.2	U	0.18	U	1.9	U	0.2	U	1.7	U	0.2	U	0.2	U	0.2	U
Indeno(1,2,3-Cd)Pyrene	21	19.6		mg/kg	0.03		0.02	U	0.02	U	0.19		0.33		0.02	U	0.35		0.02	U	0.02	U	0.02	U
Isophorone	2400	0.52		mg/kg	0.07	U	0.079	U	0.079	U	0.07	U	0.78	U	0.081	U	0.7	U	0.079	U	0.08	U	0.08	U
Naphthalene	8.6	0.0076		mg/kg	0.007	J	0.02	U	0.02	U	0.013	J	0.083	J	0.02	U	0.12	J	0.02	U	0.02	U	0.02	U
Nitrobenzene	22	0.00184		mg/kg	0.038	U	0.043	U	0.043	U	0.039	U	0.81		0.044	U	0.38	U	0.043	U	0.044	U	0.044	U
n-Nitroso-di-n-Propylamine	0.33	0.000162		mg/kg	0.07	U	0.079	U	0.079	U	0.07	U	0.78	U	0.081	U	0.7	U	0.079	U	0.08	U	0.08	U
n-Nitrosodiphenylamine	470	1.34		mg/kg	0.023	J	0.097	J	0.31	J	0.049		1.6		0.044	U	0.38	U	0.043	U	0.044	U	0.044	U
Pentachlorophenol	4	0.00114	0.028	mg/kg	0.17	UJ	0.2	UJ	0.2	UJ	0.18	UJ	1.9	UJ	0.2	UJ	1.7	UJ	0.2	UJ	0.2	UJ	0.2	UJ
Phenanthrene				mg/kg	0.028		0.02	U	0.02	U	0.057		0.38		0.02	U	0.45		0.0092	J	0.02	U	0.02	U
Phenol	250000	66		mg/kg	0.038	U	0.043	U	0.043	U	0.039	U	0.43	U	0.044	U	2.9		0.043	U	0.044	U	0.044	U
Pyrene	23000	260		mg/kg	0.044		0.02	U	0.02	U	0.21		0.59		0.02	U	0.17	U	0.0084	J	0.0064	J	0.005	J

Notes:
Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), Industrial Soil Screening Level (SSL) (November 2021)
Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20
Exceeds the EPA RSL, Maximum Contaminant Level (MCL) SSL assuming a DAF of 20
Blanks indicate RSL not established or constituent not analyzed
RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0
U = undetected
J = estimated value
J+ = estimated biased high
J- = estimated biased low
R = rejected
MG/KG - milligram per kilogram
SWMU = Solid Waste Management Unit
RCRA = Resource Conservation and Recovery Act
Sample depth shown in Sample ID (e.g., SBBF3-04_6-8 indicates 6 to 8-foot sample)
DUP = Duplicate sample
Exceedances shown may exceed one or more criteria if available

Table 19. Wastewater Soil Analytical Results
RCRA Facility Investigation Report
Honeywell Delaware Valley Works
Claymont, Delaware
Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date			SBWW-12X SBWW-12X_0-2 8/10/2021		SBWW-12X SBWW-12X_2-4 8/10/2021		SBWW-12Y SBWW-12Y_0-2 8/10/2021		SBWW-12Y SBWW-12Y_0-2-DUP 8/10/2021		SBWW-12Y SBWW-12Y_2.5-4.5 8/10/2021		SBWW-12Z SBWW-12Z_0-2 8/10/2021		SBWW-12Z SBWW-12Z_10-12 8/10/2021		SBWW-13 SBWW-13_0-2 7/15/2021		SBWW-13 SBWW-13_8-10 7/15/2021		SBWW-13 SBWW-13_8-10-DUP 7/15/2021		
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Butylbenzyl Phthalate	1200	4.8		mg/kg	0.18	U	1.1	U	0.88	U	1.7	U	23	U	1.1	U	0.2	U	0.21	U	0.2	U	0.2	U
Caprolactam	400000	50		mg/kg	0.18	U	1.1	U	0.88	U	1.7	U	23	U	1.1	U	0.2	U	0.21	U	0.2	U	0.2	U
Carbazole				mg/kg	0.039	U	0.24	U	0.093	J	0.38	U	5.1	U	7.1	U	0.044	U	0.028	J	0.043	U	0.043	U
Chrysene	2100	180		mg/kg	0.087		0.93		0.59		0.41		5.4		36		0.02	U	0.14		0.02	U	0.02	U
Dibenzo(a,h)Anthracene	2.1	1.92		mg/kg	0.024		0.25		0.16		0.17	U	1.5	J	6.7		0.02	U	0.037		0.02	U	0.02	U
Dibenzofuran	1200	3		mg/kg	0.039	U	0.24	U	0.19	U	0.38	U	5.1	U	3.8		0.044	U	0.045	U	0.043	U	0.043	U
Diethyl Phthalate	660000	122		mg/kg	0.18	U	1.1	U	0.88	U	1.7	U	23	U	1.1	U	0.2	U	0.21	U	0.2	U	0.2	U
Dimethyl Phthalate				mg/kg	0.18	U	1.1	U	0.88	U	1.7	U	23	U	1.1	U	0.2	U	0.7	U	0.2	U	0.2	U
Di-n-Butyl Phthalate	82000	46		mg/kg	0.18	U	1.1	U	0.88	U	1.7	U	23	U	1.1	U	0.2	U	0.21	U	0.2	U	0.2	U
Di-n-Octyl Phthalate	8200	1140		mg/kg	0.18	U	1.1	U	0.88	U	1.7	U	23	U	1.1	U	0.2	U	0.21	U	0.2	U	0.2	U
Fluoranthene	30000	1780		mg/kg	0.11		1.5		1.2	J	0.66	J	14		87		0.013	J	0.2		0.02	U	0.02	U
Fluorene	30000	108		mg/kg	0.018	U	0.11	U	0.084	J	0.063	J	0.72	J	7.2		0.02	U	0.019	J	0.02	U	0.02	U
Hexachlorobenzene	0.96	0.0024	0.26	mg/kg	0.073		2.7		0.044	J	0.077	J	2.3	U	0.11	U	0.02	U	0.021	U	0.02	U	0.02	U
Hexachlorobutadiene	5.3	0.0054		mg/kg	0.053	U	0.32	U	0.26	U	0.52	U	7	U	0.33	U	0.06	U	0.062	U	0.059	U	0.059	U
Hexachlorocyclopentadiene	7.5	0.026	3.2	mg/kg	0.53	UJ	3.2	UJ	2.6	UJ	5.2	UJ	70	UJ	3.3	UJ	0.6	UJ	0.62	UJ	0.59	UJ	0.59	UJ
Hexachloroethane	8	0.004		mg/kg	0.18	U	1.1	U	0.88	U	1.7	U	23	U	1.1	U	0.2	U	0.21	U	0.2	U	0.2	U
Indeno(1,2,3-Cd)Pyrene	21	19.6		mg/kg	0.063		0.55		0.35		0.28		3.9		24		0.02	U	0.1		0.02	U	0.02	U
Isophorone	2400	0.52		mg/kg	0.07	U	0.43	U	0.35	U	0.7	U	9.3	U	0.44	U	0.079	U	0.082	U	0.078	U	0.078	U
Naphthalene	8.6	0.0076		mg/kg	0.021		0.17		0.073	J	0.11	J	2.6		2		0.02	U	0.099		0.02	U	0.02	U
Nitrobenzene	22	0.00184		mg/kg	0.039	U	0.24	U	0.19	U	0.38	U	5.1	U	0.24	U	0.044	U	0.045	U	0.043	U	0.043	U
n-Nitroso-di-n-Propylamine	0.33	0.000162		mg/kg	0.07	U	0.43	U	0.35	U	0.7	U	9.3	U	0.44	U	0.079	U	0.082	U	0.078	U	0.078	U
n-Nitrosodiphenylamine	470	1.34		mg/kg	0.041		0.24	U	0.19	U	0.38	U	5.1	U	0.24	U	0.044	U	0.045	U	0.043	U	0.043	U
Pentachlorophenol	4	0.00114	0.028	mg/kg	0.18	UJ	1.1	UJ	0.88	UJ	1.7	UJ	23	U	1.1	UJ	0.2	UJ	0.21	U	0.2	U	0.2	U
Phenanthrene				mg/kg	0.071		1.1		0.92		0.59		14		62		0.0076	J	0.12		0.02	U	0.02	U
Phenol	250000	66		mg/kg	0.039	U	0.24	U	0.19	U	0.38	U	5.1	U	0.24	U	0.044	U	0.045	U	0.043	U	0.043	U
Pyrene	23000	260		mg/kg	0.11		0.86		0.97	J	0.57	J	11		65		0.01	J	0.18		0.02	U	0.02	U

Notes:

Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), Industrial Soil Screening Level (SSL) (November 2021)

Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20

Exceeds the EPA RSL, Maximum Contaminant Level (MCL) SSL assuming a DAF of 20

Blanks indicate RSL not established or constituent not analyzed

RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0

U = undetected

J = estimated value

J+ = estimated biased high

J- = estimated biased low

R = rejected

MG/KG - milligram per kilogram

SWMU = Solid Waste Management Unit

RCRA = Resource Conservation and Recovery Act

Sample depth shown in Sample ID (e.g., SBBF3-04_6-8 indicates 6 to 8-foot sample)

DUP = Duplicate sample

Exceedances shown may exceed one or more criteria if available

Table 19. Wastewater Soil Analytical Results
RCRA Facility Investigation Report
Honeywell Delaware Valley Works
Claymont, Delaware
Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date			SBWW-13A SBWW-13A_0-2 7/20/2021		SBWW-13A SBWW-13A_8-10 7/20/2021		SBWW-13B SBWW-13B_0-2 7/20/2021		SBWW-13B SBWW-13B_6-8 7/20/2021		SBWW-13B SBWW-13B_8-10 7/20/2021		SBWW-13C SBWW-13C_0-2 7/21/2021		SBWW-13C SBWW-13C_8-10 7/21/2021		SBWW-13D SBWW-13D_0-2 7/21/2021		SBWW-13D SBWW-13D_8-10 7/21/2021		SBWW-13E SBWW-13E_0-2 7/27/2021		
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Butylbenzyl Phthalate	1200	4.8		mg/kg	0.2	U	0.2	U	0.3		0.2	U	0.2	U	0.18	U	0.2	U	0.2	U	0.2	U	0.19	U
Caprolactam	400000	50		mg/kg	0.2	U	0.2	U	0.18	U	0.2	U	0.2	U	0.18	U	0.2	U	0.2	U	0.2	U	0.19	U
Carbazole				mg/kg	0.044	U	0.043	U	0.4		0.043	U	0.044	U	0.023	J	0.044	U	0.029	J	0.044	U	0.041	U
Chrysene	2100	180		mg/kg	0.034		0.02	U	1.3		0.02	U	0.02	U	0.13		0.02	U	0.22		0.02	U	0.029	
Dibenzo(a,h)Anthracene	2.1	1.92		mg/kg	0.011	J	0.02	U	0.21		0.02	U	0.02	U	0.034		0.02	U	0.046		0.02	UJ	0.019	U
Dibenzofuran	1200	3		mg/kg	0.044	U	0.043	U	0.32		0.043	U	0.044	U	0.04	U	0.044	U	0.045		0.044	U	0.041	U
Diethyl Phthalate	660000	122		mg/kg	0.2	U	0.2	U	0.18	U	0.2	U	0.2	U	0.18	U	0.2	U	0.2	U	0.2	U	0.19	U
Dimethyl Phthalate				mg/kg	0.2	U	0.2	U	0.076	J	0.2	U	0.2	U	0.27	U	0.2	U	0.2	U	0.2	U	0.19	U
Di-n-Butyl Phthalate	82000	46		mg/kg	0.2	U	0.2	U	0.18	U	0.2	U	0.2	U	0.18	U	0.2	U	0.2	U	0.2	U	0.19	U
Di-n-Octyl Phthalate	8200	1140		mg/kg	0.2	U	0.2	U	0.18	U	0.2	U	0.2	U	0.18	U	0.2	U	0.2	U	0.2	U	0.19	U
Fluoranthene	30000	1780		mg/kg	0.049		0.02	U	3		0.02	U	0.02	U	0.18		0.02	U	0.31		0.02	U	0.055	
Fluorene	30000	108		mg/kg	0.02	U	0.02	U	0.37		0.02	U	0.02	U	0.013	J	0.02	U	0.037		0.02	U	0.019	U
Hexachlorobenzene	0.96	0.0024	0.26	mg/kg	0.02	U	0.02	U	0.062		0.02	U	0.01	J	0.018	U	0.02	U	0.02	U	0.02	U	0.019	U
Hexachlorobutadiene	5.3	0.0054		mg/kg	0.06	U	0.059	U	0.054	U	0.059	U	0.06	U	0.055	U	0.06	U	0.061	U	0.06	U	0.056	U
Hexachlorocyclopentadiene	7.5	0.026	3.2	mg/kg	0.6	UJ	0.59	R	0.54	UJ	0.59	UJ	0.6	UJ	0.55	UJ	0.6	UJ	0.61	UJ	0.6	R	0.56	U
Hexachloroethane	8	0.004		mg/kg	0.2	U	0.2	U	0.18	U	0.2	U	0.2	U	0.18	U	0.2	U	0.2	U	0.2	UJ	0.19	U
Indeno(1,2,3-Cd)Pyrene	21	19.6		mg/kg	0.019	J	0.02	U	0.63		0.02	U	0.02	U	0.099		0.02	U	0.11		0.02	UJ	0.019	U
Isophorone	2400	0.52		mg/kg	0.08	U	0.079	U	0.072	U	0.079	U	0.08	U	0.073	U	0.08	U	0.081	U	0.08	U	0.075	U
Naphthalene	8.6	0.0076		mg/kg	0.012	J	0.02	U	0.21		0.02	U	0.02	U	0.031		0.02	U	0.086		0.02		0.011	J
Nitrobenzene	22	0.00184		mg/kg	0.044	U	0.043	U	0.04	U	0.043	U	0.044	U	0.04	U	0.044	U	0.045	U	0.044	U	0.041	U
n-Nitroso-di-n-Propylamine	0.33	0.000162		mg/kg	0.08	U	0.079	U	0.072	U	0.079	U	0.08	U	0.073	U	0.08	U	0.081	U	0.08	U	0.075	U
n-Nitrosodiphenylamine	470	1.34		mg/kg	0.044	U	0.043	U	0.04	U	0.043	U	0.044	U	0.04	U	0.044	U	0.045	U	0.044	U	0.041	U
Pentachlorophenol	4	0.00114	0.028	mg/kg	0.2	U	0.2	UJ	0.18	UJ	0.2	UJ	0.2	UJ	0.18	UJ	0.2	UJ	0.2	UJ	0.2	UJ	0.19	U
Phenanthrene				mg/kg	0.044		0.02	U	3.6		0.0058	J	0.0049	J	0.099		0.02	U	0.3		0.02	U	0.036	
Phenol	250000	66		mg/kg	0.044	U	1		0.18		0.043	U	0.044	U	0.04	U	0.044	U	0.045	U	0.044	U	0.041	U
Pyrene	23000	260		mg/kg	0.04		0.02	U	2.3		0.02	U	0.02	U	0.16		0.02	U	0.26		0.02	U	0.045	

Notes:

Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), Industrial Soil Screening Level (SSL) (November 2021)

Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20

Exceeds the EPA RSL, Maximum Contaminant Level (MCL) SSL assuming a DAF of 20

Blanks indicate RSL not established or constituent not analyzed

RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0

U = undetected

J = estimated value

J+ = estimated biased high

J- = estimated biased low

R = rejected

MG/KG - milligram per kilogram

SWMU = Solid Waste Management Unit

RCRA = Resource Conservation and Recovery Act

Sample depth shown in Sample ID (e.g., SBBF3-04_6-8 indicates 6 to 8-foot sample)

DUP = Duplicate sample

Exceedances shown may exceed one or more criteria if available

Table 19. Wastewater Soil Analytical Results
RCRA Facility Investigation Report
Honeywell Delaware Valley Works
Claymont, Delaware
Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date			SBWW-13E SBWW-13E_5-7 7/27/2021		SBWW-14 SBWW-14_0-2 7/15/2021		SBWW-14 SBWW-14_6-8 7/15/2021		SBWW-15 SBWW-15_0-2 7/15/2021		SBWW-15 SBWW-15_3-5 7/15/2021		SBWW-15A SBWW-15A_0-2 7/21/2021		SBWW-15A SBWW-15A_2-4 7/21/2021		SBWW-15B SBWW-15B_0-2 7/21/2021		SBWW-15B SBWW-15B_3.5-5.5 7/21/2021		SBWW-15C SBWW-15C_0-2 7/22/2021		
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Butylbenzyl Phthalate	1200	4.8		mg/kg	0.2	U	0.19	U	0.2	U	0.2	U	0.19	U	0.2	U	0.082	J	0.19	U	0.19	U	0.36	
Caprolactam	400000	50		mg/kg	0.2	U	0.19	U	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U	0.19	U	0.19	U	0.19	U
Carbazole				mg/kg	0.043	U	0.021	J	0.043	U	0.039	J	0.042	U	0.051		0.043	U	0.26		0.042	U	1.1	
Chrysene	2100	180		mg/kg	0.0067	J	0.069		0.0061	J	0.18		0.019	U	0.18		0.043		0.9		0.019	U	3.3	
Dibenzo(a,h)Anthracene	2.1	1.92		mg/kg	0.02	U	0.02		0.02	U	0.02	U	0.019	U	0.02	U	0.02	U	0.13		0.019	U	0.56	
Dibenzofuran	1200	3		mg/kg	0.043	U	0.041	U	0.043	U	0.034	J	0.042	U	0.038	J	0.043	U	0.2		0.042	U	0.91	
Diethyl Phthalate	660000	122		mg/kg	0.2	U	0.19	U	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U	0.19	U	0.19	U	0.19	U
Dimethyl Phthalate				mg/kg	0.2	U	0.15	J	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U	0.19	U	0.19	U	0.19	U
Di-n-Butyl Phthalate	82000	46		mg/kg	0.2	U	0.19	U	0.2	U	0.23		0.19	U	0.2	U	0.2	U	0.091	J	0.19	U	0.17	J
Di-n-Octyl Phthalate	8200	1140		mg/kg	0.2	U	0.19	U	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U	0.19	U	0.19	U	0.16	J
Fluoranthene	30000	1780		mg/kg	0.02	U	0.086		0.0074	J	0.33		0.019	U	0.41		0.063		2.2		0.004	J	8.3	
Fluorene	30000	108		mg/kg	0.02	U	0.0093	J	0.02	U	0.043		0.019	U	0.045		0.02	U	0.21		0.019	U	0.86	
Hexachlorobenzene	0.96	0.0024	0.26	mg/kg	0.02	U	0.019	U	0.02	U	0.02	U	0.019	U	0.057		0.044		0.34		0.019	U	0.019	U
Hexachlorobutadiene	5.3	0.0054		mg/kg	0.059	U	0.056	U	0.059	U	0.061	U	0.058	U	0.06	U	0.059	U	0.058	U	0.058	U	0.056	U
Hexachlorocyclopentadiene	7.5	0.026	3.2	mg/kg	0.59	U	0.56	UJ	0.59	UJ	0.61	U	0.58	U	0.6	U	0.59	U	0.58	U	0.58	UJ	0.56	U
Hexachloroethane	8	0.004		mg/kg	0.2	U	0.19	U	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U	0.19	U	0.19	U	0.19	U
Indeno(1,2,3-Cd)Pyrene	21	19.6		mg/kg	0.02	U	0.06		0.02	U	0.11		0.019	U	0.099		0.022		0.46		0.019	U	1.7	
Isophorone	2400	0.52		mg/kg	0.079	U	0.075	U	0.079	U	0.081	U	0.077	U	0.08	U	0.079	U	0.077	U	0.077	U	0.075	U
Naphthalene	8.6	0.0076		mg/kg	0.036		0.051		0.02	U	0.083		0.019	U	0.025		0.02	U	0.14		0.019	U	0.64	
Nitrobenzene	22	0.00184		mg/kg	0.043	U	0.041	U	0.043	U	0.044	U	0.042	U	0.044	U	0.043	U	0.042	U	0.042	U	0.041	U
n-Nitroso-di-n-Propylamine	0.33	0.000162		mg/kg	0.079	U	0.075	U	0.079	U	0.081	U	0.077	U	0.08	U	0.079	U	0.077	U	0.077	U	0.075	U
n-Nitrosodiphenylamine	470	1.34		mg/kg	0.043	U	0.041	U	0.043	U	0.044	U	0.042	U	0.044	U	0.043	U	0.042	U	0.042	U	0.041	U
Pentachlorophenol	4	0.00114	0.028	mg/kg	0.2	U	0.19	U	0.2	U	0.2	U	0.19	U	0.2	U	0.2	U	0.47		0.19	UJ	0.075	J
Phenanthrene				mg/kg	0.02	U	0.052		0.0089	J	0.3		0.019	U	0.41		0.051		2.1		0.019	U	9.5	
Phenol	250000	66		mg/kg	0.18		0.041	U	0.043	U	0.09		0.042	U	0.044	U	0.043	U	0.15		0.042	U	0.36	
Pyrene	23000	260		mg/kg	0.02	U	0.093		0.0082	J	0.27		0.019	U	0.33		0.02	U	1.6		0.0039	J	6.1	

Notes:
Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), Industrial Soil Screening Level (SSL) (November 2021)
Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20
Exceeds the EPA RSL, Maximum Contaminant Level (MCL) SSL assuming a DAF of 20
Blanks indicate RSL not established or constituent not analyzed
RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0
U = undetected
J = estimated value
J+ = estimated biased high
J- = estimated biased low
R = rejected
MG/KG - milligram per kilogram
SWMU = Solid Waste Management Unit
RCRA = Resource Conservation and Recovery Act
Sample depth shown in Sample ID (e.g., SBBF3-04_6-8 indicates 6 to 8-foot sample)
DUP = Duplicate sample
Exceedances shown may exceed one or more criteria if available

Table 19. Wastewater Soil Analytical Results
RCRA Facility Investigation Report
Honeywell Delaware Valley Works
Claymont, Delaware
Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date			SBWW-15C SBWW-15C_2-4 7/22/2021		SBWW-15C SBWW-15C_4-6 7/22/2021		SBWW-15D SBWW-15D_0-2 7/21/2021		SBWW-15D SBWW-15D_7-9 7/21/2021		SBWW-15D SBWW-15D_7-9-DUP 7/21/2021		SBWW-15E SBWW-15E_0-2 7/27/2021		SBWW-15E SBWW-15E_6-8 7/27/2021		SBWW-15F SBWW-15F_0-2 7/27/2021		SBWW-15F SBWW-15F_4-6 7/27/2021		SBWW-15F SBWW-15F_7-9 7/27/2021		
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Butylbenzyl Phthalate	1200	4.8		mg/kg	0.19	U	0.21	UJ	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.97	U	0.21	U	0.2	U
Caprolactam	400000	50		mg/kg	0.19	U	0.21	UJ	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.97	U	0.21	U	0.2	U
Carbazole				mg/kg	0.06		0.046	UJ	0.65		0.043	U	0.044	U	0.044	U	0.043	U	0.52		0.047	U	0.043	U
Chrysene	2100	180		mg/kg	0.22		0.014	J-	2.1		0.0046	J	0.0071	J	0.02	U	0.02	U	1.3		0.2		0.026	
Dibenzo(a,h)Anthracene	2.1	1.92		mg/kg	0.019	U	0.021	UJ	0.35		0.02	U	0.02	U	0.02	U	0.02	U	0.23		0.021	U	0.02	U
Dibenzofuran	1200	3		mg/kg	0.084		0.046	UJ	0.59		0.043	U	0.044	U	0.044	U	0.043	U	0.43		0.047	U	0.043	U
Diethyl Phthalate	660000	122		mg/kg	0.19	U	0.21	UJ	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.97	U	0.21	U	0.2	U
Dimethyl Phthalate				mg/kg	0.19	U	0.21	UJ	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.97	U	0.21	U	0.2	U
Di-n-Butyl Phthalate	82000	46		mg/kg	0.19	U	0.21	UJ	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.97	U	0.21	U	0.2	U
Di-n-Octyl Phthalate	8200	1140		mg/kg	0.19	U	0.21	UJ	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.97	U	0.21	U	0.2	U
Fluoranthene	30000	1780		mg/kg	0.49		0.026	J-	5.5		0.02	U	0.0078	J	0.02	U	0.02	U	3.5		0.1		0.025	
Fluorene	30000	108		mg/kg	0.098		0.021	UJ	0.51		0.02	U	0.02	U	0.02	U	0.02	U	0.37		0.021	U	0.01	J
Hexachlorobenzene	0.96	0.0024	0.26	mg/kg	0.25		0.084	J-	0.036		0.02	U	0.02	U	0.02	U	0.02	U	0.11		0.047		0.027	
Hexachlorobutadiene	5.3	0.0054		mg/kg	0.034	J	0.062	UJ	0.06	U	0.059	U	0.06	U	0.059	U	0.059	U	0.29	U	0.43		0.059	U
Hexachlorocyclopentadiene	7.5	0.026	3.2	mg/kg	0.58	U	0.62	UJ	0.6	UJ	0.59	UJ	0.6	U	0.59	UJ	0.59	UJ	2.9	U	0.64	U	0.59	U
Hexachloroethane	8	0.004		mg/kg	0.19	U	0.21	UJ	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.97	U	0.21	U	0.2	U
Indeno(1,2,3-Cd)Pyrene	21	19.6		mg/kg	0.11		0.021	UJ	1.1		0.02	U	0.02	U	0.02	U	0.02	U	0.72		0.021	U	0.02	U
Isophorone	2400	0.52		mg/kg	0.077	U	0.083	UJ	0.081	U	0.079	U	0.08	U	0.079	U	0.079	U	0.39	U	0.085	U	0.078	U
Naphthalene	8.6	0.0076		mg/kg	0.36		0.016	J-	0.4		0.02	U	0.02	U	0.02	U	0.02	U	0.39		0.019	J	0.029	
Nitrobenzene	22	0.00184		mg/kg	0.042	U	0.046	UJ	0.044	U	0.043	U	0.044	U	0.044	U	0.043	U	0.21	U	0.047	U	0.043	U
n-Nitroso-di-n-Propylamine	0.33	0.000162		mg/kg	0.077	U	0.083	UJ	0.081	U	0.079	U	0.08	U	0.079	U	0.079	U	0.39	U	0.085	U	0.078	U
n-Nitrosodiphenylamine	470	1.34		mg/kg	0.042	U	0.046	UJ	0.044	U	0.043	U	0.044	U	0.044	U	0.043	U	0.21	U	0.047	U	0.043	U
Pentachlorophenol	4	0.00114	0.028	mg/kg	0.19	U	0.21	UJ	0.2	UJ	0.2	UJ	0.2	U	0.2	UJ	0.2	UJ	0.97	U	0.21	U	0.2	U
Phenanthrene				mg/kg	0.54		0.026	J-	6.3		0.007	J	0.0091	J	0.02	U	0.02	U	4.1		0.067		0.019	J
Phenol	250000	66		mg/kg	0.042	U	0.046	UJ	0.45		0.043	U	0.044	U	0.044	U	0.043	U	0.23		0.047	U	0.043	U
Pyrene	23000	260		mg/kg	0.36		0.018	J-	4		0.0065	J	0.0078	J	0.02	U	0.02	U	2.4		0.17		0.025	

Notes:
Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), Industrial Soil Screening Level (SSL) (November 2021)
Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20
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Table 19. Wastewater Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date				SBWW-16 SBWW-16_0-2 7/14/2021		SBWW-16 SBWW-16_3-5 7/14/2021		SBWW-16 SBWW-16_3-5-DUP 7/14/2021		SBWW-17 SBWW-17_0-2 7/14/2021		SBWW-17 SBWW-17_8-10 7/14/2021		SBWW-18 SBWW-18_0-2 7/14/2021		SBWW-18 SBWW-18_4-6 7/14/2021		SBWW-18 SBWW-18_4-6-DUP 7/14/2021		SBWW-18A SBWW-18A_0-2 7/27/2021		SBWW-18A SBWW-18A_4-6 7/27/2021	
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Bromomethane	30	0.038		mg/kg	0.31	U	0.31	U	0.39	U	0.0058	U	0.0044	U	0.29	U	0.28	U	0.27	U	0.0059	U	0.0049	U
Carbon Disulfide	3500	4.8		mg/kg	0.31	U	0.31	U	0.39	U	0.028	U	0.0044	U	0.05	U	0.28	U	0.27	U	0.0054	J	0.0017	J
Carbon Tetrachloride	2.9	0.0036	0.038	mg/kg	0.31	U	0.31	U	0.39	U	0.0058	U	0.0044	U	0.29	U	0.28	U	0.18	J	0.0059	U	0.0049	U
Chlorobenzene	1300	1.06	1.36	mg/kg	0.11	J	0.069	J	0.055	J	0.0074		0.034		0.29	U	0.37	J	3.2	J	0.0041	J	0.0043	J
Chloroethane	23000	48		mg/kg	0.31	U	0.31	U	0.39	U	0.0058	U	0.0044	U	0.29	U	0.28	U	0.27	U	0.0059	U	0.0049	U
Chloroform	1.4	0.00122	0.44	mg/kg	0.31	U	0.31	U	0.39	U	0.0018	J	0.012		0.29	U	4.2	J	11	J	0.0059	U	0.0049	U
Chloromethane	460	0.98		mg/kg	0.31	U	0.31	U	0.39	U	0.0058	U	0.0044	U	0.29	U	0.28	U	0.27	U	0.0059	U	0.0049	U
cis-1,2-Dichloroethene	2300	0.22	0.42	mg/kg	0.31	U	0.31	U	0.39	U	0.0017	J	0.04		0.29	U	0.14	J	0.74	J	0.004	J	0.11	
cis-1,3-Dichloropropene				mg/kg	0.31	U	0.31	U	0.39	U	0.0058	U	0.0044	U	0.29	U	0.28	U	0.27	U	0.0059	U	0.0049	U
Cyclohexane	27000	260		mg/kg	0.07	J	0.21	J	0.082	J	0.0028	J	0.0044	U	0.29	U	0.28	U	0.037	J	0.0059	U	0.0049	U
Dibromochloromethane	39	0.0046	0.42	mg/kg	0.31	U	0.31	U	0.39	U	0.0058	U	0.0044	U	0.29	U	0.28	U	0.27	U	0.0059	U	0.0049	U
Dichlorodifluoromethane	370	6		mg/kg	0.31	U	0.31	U	0.39	U	0.0058	U	0.0044	U	0.29	U	0.28	U	0.27	U	0.0059	U	0.0049	U
Diethyl Ether	230000	17.6		mg/kg	0.089	J	0.1	J	0.39	U	0.058		0.61		0.29	U	0.28	U	0.27	U	0.013		0.049	
Ethylbenzene	25	0.034	15.6	mg/kg	0.31	U	0.31	U	0.39	U	0.0058	U	0.0044	U	0.29	U	0.28	U	0.17	J	0.0059	U	0.0049	U
Isopropylbenzene	9900	14.8		mg/kg	0.31	U	0.31	U	0.39	U	0.0058	U	0.0044	U	0.29	U	0.28	U	0.039	J	0.0059	U	0.0049	U
m&p-Xylenes				mg/kg	0.098	J	0.1	J	0.39	U	0.0058	U	0.0044	U	0.29	U	0.29	J	3.2	J	0.0059	U	0.0049	U
Methyl Acetate	1200000	82		mg/kg	0.15	J	1.5	J	0.13	J	0.0021	J	0.0044	U	0.16	J	0.28	U	0.27	U	0.0059	U	0.0049	U
Methyl Tert-Butyl Ether	210	0.064		mg/kg	0.31	U	0.31	U	0.39	U	0.0058	U	0.0044	U	0.29	U	0.28	U	0.27	U	0.0059	U	0.0049	U
Methylcyclohexane				mg/kg	0.31	U	0.31	U	0.39	U	0.0058	U	0.0044	U	0.29	U	0.28	U	0.092	J	0.0059	U	0.0049	U
Methylene Chloride	1000	0.058	0.026	mg/kg	0.31	U	0.31	U	0.39	U	0.0058	U	0.0044	U	0.29	U	4.7		5.4		0.0059	U	0.0049	U
o-Xylene	2800	3.8		mg/kg	0.037	J	0.042	J	0.39	U	0.00059	J	0.0044	U	0.29	U	0.032	J	0.34	J	0.0059	U	0.0049	U
Styrene	35000	26	2.2	mg/kg	0.31	U	0.31	U	0.39	U	0.0058	U	0.0044	U	0.29	U	0.28	U	0.27	U	0.0059	U	0.0049	U
Tetrachloroethene	100	0.102	0.046	mg/kg	0.086	J	0.17	J	0.45	J	0.064		0.15		0.39	J	29	J	320	J	0.038		0.019	
Toluene	47000	15.2	13.8	mg/kg	2.6		4.6	J	1.9	J	0.01		0.0011	J	0.07	J	0.65	J	5.6	J	0.0035	J	0.0043	J
Total Xylenes	2500	3.8	198	mg/kg	0.14	J	0.14	J	0.77	U	0.012	U	0.0089	U	0.58	U	0.32	J	3.5	J	0.012	U	0.0098	U
trans-1,2-Dichloroethene	300	0.42	0.62	mg/kg	0.31	U	0.31	U	0.39	U	0.0058	U	0.0044	U	0.29	U	0.28	U	0.27	U	0.00077	J	0.0025	J
trans-1,3-Dichloropropene				mg/kg	0.31	U	0.31	U	0.39	U	0.0058	U	0.0044	U	0.29	U	0.28	U	0.27	U	0.0059	U	0.0049	U
Trichloroethene	6	0.0036	0.036	mg/kg	0.061	J	0.07	J	0.039	J	0.0016	J	0.0062		0.29	U	0.13	J	1.1	J	0.0046	J	0.015	
Trichlorofluoromethane	350000	66		mg/kg	0.31	U	0.31	U	0.39	U	0.0013	J	0.0044	U	0.29	U	0.099	J	0.65	J	0.018		0.0049	U
Vinyl Chloride	1.7	0.00013	0.0138	mg/kg	0.31	U	0.31	U	0.39	U	0.0058	U	0.0069		0.29	U	0.28	U	0.27	U	0.0034	J	0.051	
Semi-Volatiles Organic Compounds																								
1,1'-Biphenyl	200	0.174		mg/kg	0.052	J	0.044	UJ	0.023	J	0.1	J	0.042	UJ	0.044	UJ	0.043	UJ	0.056	J	0.044	U	0.044	U
1,2,4,5-Tetrachlorobenzene	35	0.0158		mg/kg	0.064	J	0.044	UJ	0.045	UJ	0.042	UJ	0.042	UJ	0.044	UJ	0.043	UJ	0.042	UJ	0.033	J	0.044	U
2,2'-Oxybis(1-Chloropropane)	47000	5.2		mg/kg	0.052	UJ	0.052	UJ	0.053	UJ	0.05	UJ	0.05	UJ	0.052	UJ	0.05	UJ	0.05	UJ	0.052	U	0.052	U
2,3,4,6-Tetrachlorophenol	25000	3.6		mg/kg	0.2	UJ	0.2	UJ	0.2	UJ	0.19	UJ	0.19	UJ	0.2	UJ	0.19	UJ	0.19	UJ	0.2	U	0.2	U
2,4,5-Trichlorophenol	82000	80		mg/kg	0.044	UJ	0.044	UJ	0.045	UJ	0.042	UJ	0.042	UJ	0.044	UJ	0.043	UJ	0.042	UJ	0.044	U	0.044	U
2,4,6-Trichlorophenol	210	0.08		mg/kg	0.057	J	0.13	J	0.19	J	0.046	J	0.042	UJ	0.044	UJ	0.043	UJ	0.042	UJ	0.044	U	0.044	U
2,4-Dichlorophenol	2500	0.46		mg/kg	2.5	J	2	J	2.6	J	0.38	J	0.05	UJ	0.052	UJ	0.05	UJ	0.05	UJ	0.052	U	0.052	U
2,4-Dimethylphenol	16000	8.4		mg/kg	0.044	UJ	0.044	UJ	0.045	UJ	0.042	UJ	0.042	UJ	0.044	UJ	0.043	UJ	0.042	UJ	0.044	U	0.044	U
2,4-Dinitrophenol	1600	0.88		mg/kg	1.2	UJ	1.2	UJ	1.2	UJ	1.2	UJ	1.2	UJ	1.2	UJ	1.2	UJ	1.1	UJ	1.2	U	1.2	U
2,4-Dinitrotoluene	7.4	0.0064		mg/kg	0.2	UJ	0.2	UJ	0.2	UJ	0.19	UJ	0.19	UJ	0.2	UJ	0.19	UJ	0.19	UJ	0.2	U	0.2	U
2,6-Dinitrotoluene	1.5	0.00134		mg/kg	0.044	UJ	0.044	UJ	0.045	UJ	0.042	UJ	0.042	UJ	0.044	UJ	0.043	UJ	0.042	UJ	0.044	U	0.044	U
2-Chloronaphthalene	60000	78		mg/kg	0.04	UJ	0.04	UJ	0.041	UJ	0.038	UJ	0.039	UJ	0.04	UJ	0.039	UJ	0.038	UJ	0.04	U	0.04	U
2-Chlorophenol	5800	1.78		mg/kg	0.051	J	0.044	UJ	0.045	UJ	0.042	UJ	0.042	UJ	0.044	UJ	0.043	UJ	0.042	UJ	0.044	U	0.044	U
2-Methylnaphthalene	3000	3.8		mg/kg	0.12	J	0.07	J	0.069	J	0.26	J	0.019	UJ	0.031	J	0.019	UJ	0.02	J	0.015	J	0.02	U
2-Methylphenol	41000	15		mg/kg	0.061	UJ	0.06	UJ	0.061	UJ	0.058	UJ	0.058	UJ	0.06	UJ	0.058	UJ	0.057	UJ	0.06	U	0.06	U
2-Nitroaniline	8000	1.6		mg/kg	0.061	UJ	0.06	UJ	0.061	UJ	0.058	UJ	0.058	UJ	0.06	UJ	0.058	UJ	0.057	UJ	0.06	U	0.06	U
2-Nitrophenol				mg/kg	0.061	UJ	0.06	UJ	0.061	UJ	0.058	UJ	0.058	UJ	0.06	UJ	0.058	UJ	0.057	UJ	0.06	U	0.06	U
3,3'-Dichlorobenzidine	5.1	0.0164		mg/kg	0.2	UJ	0.2	UJ	0.2	UJ	0.19	UJ	0.19	UJ	0.2	UJ	0.19	UJ	0.19	UJ	0.2	U	0.2	U
3-Nitroaniline				mg/kg	0.2	UJ	0.2	UJ	0.2	UJ	0.19	UJ	0.19	UJ	0.2	UJ	0.19	UJ	0.19	UJ	0.2	U	0.2	U
4,6-Dinitro-2-Methylphenol	66	0.052		mg/kg	0.61	UJ	0.6	UJ	0.61	UJ	0.58	UJ	0.58	UJ	0.6	UJ	0.58	UJ	0.57	UJ	0.6	U	0.6	U
4-Bromophenyl Phenyl Ether				mg/kg	0.044	UJ	0.044	UJ	0.045	UJ	0.042	UJ	0.042	UJ	0.044	UJ	0.043	UJ	0.042	UJ	0.044	U	0.044	U
4-Chloro-3-Methylphenol	82000	34		mg/kg	0.061	UJ	0.06	UJ	0.061	UJ	0.058	UJ	0.058	UJ	0.06	UJ	0.058	UJ	0.057	UJ	0.06	U	0.06	U
4-Chloroaniline	11	0.0032		mg/kg	0.2	UJ	0.2	UJ	0.2	UJ	0.19	UJ	0.19	UJ	0.2	UJ	0.19	UJ	0.19	UJ	0.2	U	0.2	U
4-Chlorophenyl Phenyl Ether				mg/kg	0.044	UJ	0.044	UJ	0.045	UJ	0.042	UJ	0.042	UJ	0.044	UJ	0.043	UJ	0.042	UJ	0.044	U	0.044	U
4-Methylphenol	16000	6		mg/kg	0.061	UJ	0.06	UJ	0.061	UJ	0.02	J	0.058	UJ	0.06	UJ	0.058	UJ	0.057	UJ	0.06	U	0.06	U
4-Nitroaniline	110	0.032		mg/kg	0.2	UJ	0.2	UJ	0.2	UJ	0.19	UJ	0.19	UJ	0.2	UJ	0.19	UJ	0.19	UJ	0.2	U	0.2	U
4-Nitrophenol				mg/kg	0.61	UJ	0.6	UJ	0.61	UJ	0.58	UJ	0.58	UJ	0.6	UJ	0.58	UJ	0.57	UJ	0.6	U	0.6	U
Acenaphthene	45000	110		mg/kg	0.25	J	0.074	J	0.076	J	0.68	J	0.019	UJ	0.02	UJ								

Table 19. Wastewater Soil Analytical Results
RCRA Facility Investigation Report
Honeywell Delaware Valley Works
Claymont, Delaware
Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date			SBWW-16 SBWW-16_0-2 7/14/2021		SBWW-16 SBWW-16_3-5 7/14/2021		SBWW-16 SBWW-16_3-5-DUP 7/14/2021		SBWW-17 SBWW-17_0-2 7/14/2021		SBWW-17 SBWW-17_8-10 7/14/2021		SBWW-18 SBWW-18_0-2 7/14/2021		SBWW-18 SBWW-18_4-6 7/14/2021		SBWW-18 SBWW-18_4-6-DUP 7/14/2021		SBWW-18A SBWW-18A_0-2 7/27/2021		SBWW-18A SBWW-18A_4-6 7/27/2021		
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Butylbenzyl Phthalate	1200	4.8		mg/kg	0.2	UJ	0.2	UJ	0.2	UJ	0.19	UJ	0.19	UJ	0.2	UJ	0.19	UJ	0.19	UJ	0.2	U	0.2	U
Caprolactam	400000	50		mg/kg	0.2	UJ	0.2	UJ	0.2	UJ	0.19	UJ	0.19	UJ	0.2	UJ	0.19	UJ	0.19	UJ	0.2	U	0.2	U
Carbazole				mg/kg	0.42	J	0.14	J	0.13	J	1.2	J	0.042	UJ	0.044	UJ	0.043	UJ	0.042	UJ	0.044	U	0.044	U
Chrysene	2100	180		mg/kg	1.5	J	0.46	J	0.36	J	4.5	J	0.019	UJ	0.15	J	0.019	UJ	0.035	J	0.079		0.02	U
Dibenzo(a,h)Anthracene	2.1	1.92		mg/kg	0.24	J	0.075	J	0.057	J	0.85	J	0.019	UJ	0.03	J	0.019	UJ	0.019	UJ	0.019	J	0.02	U
Dibenzofuran	1200	3		mg/kg	0.29	J	0.11	J	0.11	J	0.98	J	0.042	UJ	0.044	UJ	0.043	UJ	0.042	UJ	0.044	U	0.044	U
Diethyl Phthalate	660000	122		mg/kg	0.2	UJ	0.2	UJ	0.2	UJ	0.19	UJ	0.19	UJ	0.2	UJ	0.19	UJ	0.19	UJ	0.2	U	0.2	U
Dimethyl Phthalate				mg/kg	0.2	UJ	0.2	UJ	0.2	UJ	0.19	UJ	0.19	UJ	0.2	UJ	0.19	UJ	0.19	UJ	0.2	U	0.2	U
Di-n-Butyl Phthalate	82000	46		mg/kg	0.089	J	0.13	J	0.2	UJ	0.19	UJ	0.19	UJ	0.2	UJ	0.19	UJ	0.19	UJ	0.2	U	0.2	U
Di-n-Octyl Phthalate	8200	1140		mg/kg	0.2	UJ	0.2	UJ	0.2	UJ	0.19	UJ	0.19	UJ	0.2	UJ	0.19	UJ	0.19	UJ	0.2	U	0.2	U
Fluoranthene	30000	1780		mg/kg	3.7	J	1	J	0.86	J	13	J	0.01	J	0.23	J	0.019	UJ	0.013	J	0.1		0.02	U
Fluorene	30000	108		mg/kg	0.43	J	0.14	J	0.13	J	1.5	J	0.019	UJ	0.031	J	0.019	UJ	0.019	UJ	0.02	U	0.02	U
Hexachlorobenzene	0.96	0.0024	0.26	mg/kg	0.083	J	0.076	J	0.1	J	0.42	J	0.019	UJ	2.1	J	0.1	J	4.5	J	1.3		0.02	U
Hexachlorobutadiene	5.3	0.0054		mg/kg	0.061	UJ	0.06	UJ	0.031	J	0.084	J	0.058	UJ	0.028	J	0.058	UJ	0.67	J	0.025	J	0.06	UJ
Hexachlorocyclopentadiene	7.5	0.026	3.2	mg/kg	0.61	UJ	0.6	UJ	0.61	UJ	0.58	UJ	0.58	UJ	0.6	UJ	0.58	UJ	0.57	UJ	0.6	UJ	0.6	UJ
Hexachloroethane	8	0.004		mg/kg	0.2	UJ	0.2	UJ	0.2	UJ	0.19	UJ	0.19	UJ	0.2	UJ	0.19	UJ	0.47	J	0.2	U	0.2	U
Indeno(1,2,3-Cd)Pyrene	21	19.6		mg/kg	0.65	J	0.26	J	0.18	J	2.5	J	0.019	UJ	0.084	J	0.019	UJ	0.019	UJ	0.052	U	0.02	U
Isophorone	2400	0.52		mg/kg	0.081	UJ	0.08	UJ	0.081	UJ	0.077	UJ	0.077	UJ	0.08	UJ	0.077	UJ	0.076	UJ	0.08	U	0.081	U
Naphthalene	8.6	0.0076		mg/kg	0.17	J	0.12	J	0.14	J	0.37	J	0.046	J	0.26	J	0.036	J	0.57	J	0.046		0.02	U
Nitrobenzene	22	0.00184		mg/kg	0.044	UJ	0.044	UJ	0.045	UJ	0.042	UJ	0.042	UJ	0.044	UJ	0.043	UJ	0.042	UJ	0.044	U	0.044	U
n-Nitroso-di-n-Propylamine	0.33	0.000162		mg/kg	0.081	UJ	0.08	UJ	0.081	UJ	0.077	UJ	0.077	UJ	0.08	UJ	0.077	UJ	0.076	UJ	0.08	U	0.081	U
n-Nitrosodiphenylamine	470	1.34		mg/kg	0.044	UJ	0.044	UJ	0.045	UJ	0.042	UJ	0.042	UJ	0.044	UJ	0.043	UJ	0.044	J	0.024	J	0.044	U
Pentachlorophenol	4	0.00114	0.028	mg/kg	0.092	J	0.2	UJ	0.2	UJ	0.19	UJ	0.19	UJ	0.2	UJ	0.19	UJ	0.19	UJ	0.2	U	0.2	U
Phenanthrene				mg/kg	3.9	J	1.1	J	0.94	J	12	J	0.0064	J	0.16	J	0.019	UJ	0.036	J	0.061		0.02	U
Phenol	250000	66		mg/kg	0.11	J	0.064	J	0.07	J	0.042	UJ	0.042	UJ	0.044	UJ	0.043	UJ	0.042	UJ	0.044	U	0.044	U
Pyrene	23000	260		mg/kg	2.9	J	0.87	J	0.74	J	10	J	0.011	J	0.21	J	0.019	UJ	0.019	UJ	0.091		0.02	U

Notes:
Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), Industrial Soil Screening Level (SSL) (November 2021)
Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20
Exceeds the EPA RSL, Maximum Contaminant Level (MCL) SSL assuming a DAF of 20
Blanks indicate RSL not established or constituent not analyzed
RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0
U = undetected
J = estimated value
J+ = estimated biased high
J- = estimated biased low
R = rejected
MG/KG - milligram per kilogram
SWMU = Solid Waste Management Unit
RCRA = Resource Conservation and Recovery Act
Sample depth shown in Sample ID (e.g., SBBF3-04_6-8 indicates 6 to 8-foot sample)
DUP = Duplicate sample
Exceedances shown may exceed one or more criteria if available

Table 19. Wastewater Soil Analytical Results
RCRA Facility Investigation Report
Honeywell Delaware Valley Works
Claymont, Delaware
Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date			SBWW-18B SBWW-18B_0-2 7/23/2021		SBWW-18B SBWW-18B_9-11 7/23/2021		SBWW-18C SBWW-18C_0-2 7/23/2021		SBWW-18C SBWW-18C_8-10 7/23/2021		SBWW-18D SBWW-18D_0-2 7/27/2021		SBWW-18D SBWW-18D_7.5-9.5 7/27/2021		SBWW-19 SBWW-19_0-2 7/14/2021		SBWW-19 SBWW-19_3-5 7/14/2021		SBWW-19 SBWW-19_5-7 7/14/2021		SBWW-20 SBWW-20_0-2 7/14/2021													
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual											
Metals																																			
Aluminum	110000	60000		mg/kg	14000			16000			12000			15000			14000			15000			19000			7200									
Antimony	470	7	5.4	mg/kg	1.6	J		4.8	U		4.9	U		4.3	U		5.9	U		4.3	UJ		3.9	U		5.4	U		5.3	U		5.5	U		
Arsenic	3	0.03	5.8	mg/kg	7.7			3.8			4.9	J		1.7	J		5.2			2.2	J		6.2			3.6			3.2	U		2.1	J		
Barium	220000	3200	1640	mg/kg	110			80			100			69			110			64	J+		81			37			61			41			
Beryllium	2300	380	64	mg/kg	0.5			0.87			0.54			0.88			0.36	J		0.48			0.49			0.6			0.43	J		0.55	U		
Cadmium	100	2.8	7.6	mg/kg	2.6			0.48	U		0.59			0.43	U		1.2			0.43			0.37	J		0.54	U		0.53	U		0.55	U		
Calcium				mg/kg	1800			630			16000			770			29000			590	J+		8900			990			860			110000			
Chromium			3600000	mg/kg	24			28			30			23			31			22			34			28			21			15			
Cobalt	350	5.4		mg/kg	4.5			8			4.3			8.2			4.5			9.3			5			6.3			6.3			1.6			
Copper	47000	560	920	mg/kg	43			12			70			10			45			10			30			11			8.9			9.3			
Iron	820000	7000		mg/kg	22000			15000			21000			12000			21000			18000			25000			22000			11000			7500			
Lead	800		280	mg/kg	93			11			81			12			230			14	J-		59			8.2			11			18			
Magnesium				mg/kg	1900			3100			3400			3300			5000			2900			3100			2700			3400			33000			
Manganese	26000	560		mg/kg	75			83			160			84			200			89			150			110			96			120			
Nickel	22000	520		mg/kg	13			21			17			19			14			17			14			10			17			6.4			
Potassium				mg/kg	1300			860			1400			710			1900			950	J+		1700			1900			1200			1200			
Selenium	5800	10.4	5.2	mg/kg	4.7	U		4.8	U		4.9	U		4.3	U		5.9	U		4.3	UJ		3.9	U		5.4	U		5.3	U		5.5	U		
Silver	5800	16		mg/kg	0.94	U		0.97	U		0.98	U		0.86	U		1.2	U		0.87	U		0.39	J		1.1	U		1.1	U		1.1	U		
Sodium				mg/kg	390			420			370			850			500			530	J+		420			310			510			350			
Thallium	12	0.28	2.8	mg/kg	2.8	U		2.9	U		2.9	U		2.6	U		3.5	U		2.6	U		2.3	U		3.3	U		3.2	U		3.3	U		
Vanadium	5800	1720		mg/kg	35			30			26			23			24			24			32			37			17			14			
Zinc	350000	7400		mg/kg	1100			44			260			47			230			39			120			25			39			33			
Mercury	46	0.66	2	mg/kg	1			0.035	J		3.4			0.042	J		4			0.067	U		0.21			0.073	U		0.063	U		1.1			
Pesticides																																			
4,4'-DDD	9.6	0.15		mg/kg	1.3			0.00043	J		0.9			0.00062	J		1.2			0.0078	U		0.49			0.023			0.0074	U		0.27			
4,4'-DDE	9.3	0.22		mg/kg	0.053			0.00079	U		1.2	J		0.00079	U		1.5			0.0078	U		0.44			0.11			0.0074	U		0.51			
4,4'-DDT	8.5	1.54		mg/kg	0.041	UJ		0.00079	UJ		7.1			0.00079	U		2.1			0.0078	U		0.51			0.31			0.0074	U		1.8			
Aldrin	0.18	0.003		mg/kg	0.041	U		0.00079	U		0.037	U		0.00079	U		0.039	U		0.0078	U		0.037	U		0.008	U		0.0074	U		0.0077	U		
Alpha-BHC	0.36	0.00084		mg/kg	0.068			0.0027	J		0.42			0.04			1.7			0.013			56			0.11			0.039	J+		0.078			
Beta-BHC	1.3	0.003		mg/kg	0.12			0.0042			4.6			0.03			3.3			0.022			4.6			0.031			0.031	J+		1.2			
cis-Chlordane	500	9.8		mg/kg	0.041	U		0.00079	U		0.037	U		0.00079	U		0.039	U		0.0078	U		0.037	U		0.008	U		0.0074	U		0.0077	U		
Delta-BHC				mg/kg	0.098			0.00071	J		0.062			0.00079	U		0.059			0.0057	J		0.059			0.0051	J		0.0035	J+		0.0077	U		
Dieldrin	0.14	0.00142		mg/kg	0.041	U		0.00079	U		0.037	U		0.00079	U		0.039	U		0.0078	U		0.037	U		0.008	U		0.0074	U		0.0077	U		
Endosulfan I				mg/kg	0.041	U		0.00079	U		0.037	U		0.00079	U		0.039	U		0.0078	U		0.037	U		0.008	U		0.0074	U		0.0077	U		
Endosulfan II				mg/kg	0.041	U		0.00079	U		0.037	U		0.00079	U		0.039	U		0.0078	U		0.037	U		0.008	U		0.0074	U		0.0077	U		
Endosulfan Sulfate	4900	42		mg/kg	0.041	U		0.00079	U		0.037	U		0.00079	U		0.039	UJ		0.0078	U		0.037	U		0.008	U		0.0074	U		0.0077	U		
Endrin	250	1.84	1.62	mg/kg	0.041	U		0.00079	U		0.037	U		0.00079	U		0.039	U		0.0078	U		0.037	U		0.008	U		0.0074	U		0.0077	U		
Endrin Aldehyde				mg/kg	0.041	UJ		0.00079	UJ		0.037	U		0.00079	U		0.039	UJ		0.0078	U		0.037	U		0.008	U		0.0074	U		0.0077	U		
Endrin Ketone				mg/kg	0.041	U		0.00079	U		0.037	U		0.00079	U		0.039	U		0.0078	U		0.037	U		0.008	U		0.0074	U		0.0077	U		
Gamma-BHC (Lindane)	2.5	0.0048	0.024	mg/kg	0.041	U		0.00079	U		0.4			0.024			0.15			0.0075	J		0.41			0.096	J		0.023	J+		0.008	J		
Heptachlor	0.63	0.0024	0.66	mg/kg	0.041	U		0.00079	U		0.037	U		0.00079	U		0.039	U		0.0078	U		0.037	U		0.008	U		0.0074	U		0.0077	U		
Heptachlor Epoxide	0.33	0.00056	0.082	mg/kg	0.041	U		0.00079	U		0.037	U		0.00079	U		0.039	U		0.0078	U		0.037	U		0.016	J		0.0074	U		0.0077	U		
Methoxychlor	4100	40	44	mg/kg	0.08	UJ		0.0015	UJ		0.072	U		0.0015	U		0.076	U		0.015	U		0.072	U		0.015	U		0.014	U		0.053			
Toxaphene	2.1	0.22	9.2	mg/kg	1	U		0.02	U		0.95	U		0.02	U		1	U		0.2	U		0.94	U		0.2	U		0.19	U		0.2	U		
trans-Chlordane	500	28		mg/kg	0.041	U		0.00079	U		0.037	U		0.00079	U		0.039	U		0.0078	U		0.037	U		0.008	U		0.0074	U		0.0077	U		
Volatiles Organics Compounds																																			
1,1,1-Trichloroethane	36000	56	1.4	mg/kg	0.0047	U		0.27	U		0.0044	U		0.28	U		0.29	U		0.27	U		0.32	U		0.0045	U		0.0051	U		0.32	U		
1,1,2,2-Tetrachloroethane	2.7	0.0006		mg/kg	0.0047	U		0.27	U		0.0044	U		0.28	U		0.29	U		0.27	U		0.32	U		0.0045	U		0.0051	U		0.32	U		
1,1,2-Trichloro-1,2,2-Trifluoroethane	28000	520		mg/kg	0.033			1	J-		0.11			5.4	J-		1.2			5.4	J		3			0.7			0.72			0.78			
1,1,2-Trichloroethane	5	0.00178	0.032	mg/kg	0.0047	U		0.27	U		0.0044	U		0.28	U		0.29	U		0.27	U		0.32	U		0.0045	U		0.0051	U		0.32	U		
1,1-Dichloroethane	16	0.0156		mg/kg	0.0047	U		0.27	U		0.0044	U		0.28	U		0.29	U		0.27	U		0.32	U		0.0045	U		0.0051	U		0.32	U		

Table 19. Wastewater Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date				SBWW-18B SBWW-18B_0-2 7/23/2021		SBWW-18B SBWW-18B_9-11 7/23/2021		SBWW-18C SBWW-18C_0-2 7/23/2021		SBWW-18C SBWW-18C_8-10 7/23/2021		SBWW-18D SBWW-18D_0-2 7/27/2021		SBWW-18D SBWW-18D_7.5-9.5 7/27/2021		SBWW-19 SBWW-19_0-2 7/14/2021		SBWW-19 SBWW-19_3-5 7/14/2021		SBWW-19 SBWW-19_5-7 7/14/2021		SBWW-20 SBWW-20_0-2 7/14/2021	
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Bromomethane	30	0.038		mg/kg	0.0047	U	0.27	U	0.0044	U	0.28	U	0.29	U	0.27	U	0.32	U	0.0045	U	0.0051	U	0.32	U
Carbon Disulfide	3500	4.8		mg/kg	0.0098	U	0.27	U	0.0043	J	0.28	U	0.29	U	0.27	U	0.32	U	0.017	U	0.0051	U	0.32	U
Carbon Tetrachloride	2.9	0.0036	0.038	mg/kg	0.0047	U	0.27	U	0.0044	U	0.28	U	0.29	U	0.27	U	0.32	U	0.0045	U	0.0051	U	0.32	U
Chlorobenzene	1300	1.06	1.36	mg/kg	0.029		0.076	J	0.0012	J	0.046	J	0.36		0.64		0.037	J	0.0072		0.0031	J	0.32	U
Chloroethane	23000	48		mg/kg	0.0047	U	0.27	U	0.0044	U	0.28	U	0.29	U	0.27	U	0.32	U	0.0045	U	0.0051	U	0.32	U
Chloroform	1.4	0.00122	0.44	mg/kg	0.0047	U	0.27	U	0.0019	J	0.27	J	0.036	J	0.15	J	0.32	U	0.0034	J	0.0031	J	0.32	U
Chloromethane	460	0.98		mg/kg	0.0047	U	0.27	U	0.0044	U	0.28	U	0.29	U	0.27	U	0.32	U	0.0045	U	0.0051	U	0.32	U
cis-1,2-Dichloroethene	2300	0.22	0.42	mg/kg	0.18		0.36	J	0.0039	J	0.46		0.067	J	0.062	J	0.32	U	0.14		0.11		0.06	J
cis-1,3-Dichloropropene				mg/kg	0.0047	U	0.27	U	0.0044	U	0.28	U	0.29	U	0.27	U	0.32	U	0.0045	U	0.0051	U	0.32	U
Cyclohexane	27000	260		mg/kg	0.0047	U	0.27	UJ	0.0044	U	0.28	UJ	0.29	U	0.27	U	0.32	U	0.0045	U	0.0051	U	0.32	U
Dibromochloromethane	39	0.0046	0.42	mg/kg	0.0047	U	0.27	U	0.0044	U	0.28	U	0.29	U	0.27	U	0.32	U	0.0045	U	0.0051	U	0.32	U
Dichlorodifluoromethane	370	6		mg/kg	0.0047	U	0.27	UJ	0.0044	U	0.28	UJ	0.29	U	0.27	U	0.32	U	0.0045	U	0.0051	U	0.32	U
Diethyl Ether	230000	17.6		mg/kg	0.0043	J	0.27	U	0.0044	U	0.28	U	0.29	U	0.098	J	0.32	U	0.0045	U	0.0051	U	0.32	U
Ethylbenzene	25	0.034	15.6	mg/kg	0.0047	U	0.27	U	0.0044	U	0.28	U	0.028	J	0.27	U	0.32	U	0.0045	U	0.0051	U	0.32	U
Isopropylbenzene	9900	14.8		mg/kg	0.0047	U	0.27	U	0.0044	U	0.28	U	0.031	J	0.27	U	0.32	U	0.0045	U	0.0051	U	0.32	U
m&p-Xylenes				mg/kg	0.0047	U	0.27	U	0.0044	U	0.28	U	0.15	J	0.27	U	0.32	U	0.0045	U	0.0051	U	0.32	U
Methyl Acetate	1200000	82		mg/kg	0.0047	U	0.27	U	0.0044	U	0.28	U	0.14	J	0.27	U	0.11	J	0.0045	U	0.0051	U	0.65	
Methyl Tert-Butyl Ether	210	0.064		mg/kg	0.0047	U	0.27	U	0.0044	U	0.28	U	0.29	U	0.27	U	0.32	U	0.0045	U	0.0051	U	0.32	U
Methylcyclohexane				mg/kg	0.0047	U	0.27	UJ	0.0044	U	0.28	UJ	0.29	U	0.27	U	0.32	U	0.0045	U	0.0051	U	0.32	U
Methylene Chloride	1000	0.058	0.026	mg/kg	0.0059		0.27	U	0.0023	J	0.6		0.29	U	6.2		0.32	U	0.021		0.015		0.32	U
o-Xylene	2800	3.8		mg/kg	0.0047	U	0.27	U	0.0044	U	0.28	U	0.065	J	0.27	U	0.32	U	0.0045	U	0.0051	U	0.32	U
Styrene	35000	26	2.2	mg/kg	0.0047	U	0.27	U	0.0044	U	0.28	U	0.29	U	0.27	U	0.32	U	0.0045	U	0.0051	U	0.028	J
Tetrachloroethene	100	0.102	0.046	mg/kg	0.015		0.27		0.035		4.1		1.8		0.57		1.3		1.5		0.18		130	
Toluene	47000	15.2	13.8	mg/kg	0.002	J	0.27	U	0.0021	J	0.15	J	0.38		0.18	J	0.056	J	0.0027	J	0.0026	J	0.044	J
Total Xylenes	2500	3.8	198	mg/kg	0.0095	U	0.54	U	0.0089	U	0.56	U	0.22	J	0.54	U	0.63	U	0.0091	U	0.01	U	0.64	U
trans-1,2-Dichloroethene	300	0.42	0.62	mg/kg	0.0034	J	0.27	U	0.0044	U	0.28	U	0.29	U	0.27	U	0.32	U	0.0045	U	0.0051	U	0.32	U
trans-1,3-Dichloropropene				mg/kg	0.0047	U	0.27	U	0.0044	U	0.28	U	0.29	U	0.27	U	0.32	U	0.0045	U	0.0051	U	0.32	U
Trichloroethene	6	0.0036	0.036	mg/kg	0.0047		0.061	J	0.0028	J	0.31		0.08	J	0.03	J	0.32	U	0.011		0.012		0.061	J
Trichlorofluoromethane	350000	66		mg/kg	0.0047	U	0.27	U	0.019		0.28	U	0.29	U	0.27	U	0.32	U	0.0015	J	0.0015	J	0.065	J
Vinyl Chloride	1.7	0.00013	0.0138	mg/kg	0.056		0.27	U	0.0044	U	0.28	U	0.29	U	0.27	U	0.32	U	0.032		0.0096		0.32	U
Semi-Volatiles Organic Compounds																								
1,1'-Biphenyl	200	0.174		mg/kg	0.033	J	0.043	U	0.053		0.043	U	0.11	J	0.044	U	0.018	J	0.044	UJ	0.041	UJ	0.31	J
1,2,4,5-Tetrachlorobenzene	35	0.0158		mg/kg	0.045	U	0.043	U	0.041	U	0.043	U	0.1	J	0.044	U	0.04	UJ	0.044	UJ	0.041	UJ	0.042	UJ
2,2'-Oxybis(1-Chloropropane)	47000	5.2		mg/kg	0.053	U	0.051	U	0.048	U	0.051	U	0.26	U	0.052	U	0.048	UJ	0.052	UJ	0.048	UJ	0.049	UJ
2,3,4,6-Tetrachlorophenol	25000	3.6		mg/kg	0.2	U	0.2	U	0.18	U	0.2	U	1	U	0.2	U	0.18	UJ	0.2	UJ	0.19	UJ	0.19	UJ
2,4,5-Trichlorophenol	82000	80		mg/kg	0.045	U	0.043	U	0.041	U	0.043	U	0.22	U	0.044	U	0.04	UJ	0.044	UJ	0.041	UJ	0.042	UJ
2,4,6-Trichlorophenol	210	0.08		mg/kg	0.045	U	0.043	U	0.041	U	0.043	U	0.22	U	0.044	U	0.04	UJ	0.044	UJ	0.041	UJ	0.042	UJ
2,4-Dichlorophenol	2500	0.46		mg/kg	0.029	J	0.051	U	0.093		0.051	U	0.16	J	0.052	U	0.033	J	0.052	UJ	0.048	UJ	0.049	UJ
2,4-Dimethylphenol	16000	8.4		mg/kg	0.045	U	0.043	U	0.041	U	0.043	U	0.22	U	0.044	U	0.04	UJ	0.044	UJ	0.041	UJ	0.042	UJ
2,4-Dinitrophenol	1600	0.88		mg/kg	1.2	U	1.2	U	1.1	U	1.2	U	6.1	U	1.2	U	1.1	UJ	1.2	UJ	1.1	UJ	1.1	UJ
2,4-Dinitrotoluene	7.4	0.0064		mg/kg	0.2	U	0.2	U	0.18	U	0.2	U	1	U	0.2	U	0.18	UJ	0.2	UJ	0.19	UJ	0.19	UJ
2,6-Dinitrotoluene	1.5	0.00134		mg/kg	0.045	U	0.043	U	0.041	U	0.043	U	0.22	U	0.044	U	0.04	UJ	0.044	UJ	0.041	UJ	0.042	UJ
2-Chloronaphthalene	60000	78		mg/kg	0.041	U	0.039	U	0.037	U	0.039	U	0.2	U	0.04	U	0.037	UJ	0.04	UJ	0.037	UJ	0.038	UJ
2-Chlorophenol	5800	1.78		mg/kg	0.045	U	0.043	U	0.041	U	0.043	U	0.22	U	0.044	U	0.04	UJ	0.044	UJ	0.041	UJ	0.042	UJ
2-Methylnaphthalene	3000	3.8		mg/kg	0.038		0.02	U	0.15		0.036		0.39		0.02	U	0.045	J	0.02	UJ	0.019	UJ	0.23	J
2-Methylphenol	41000	15		mg/kg	0.061	U	0.059	U	0.055	U	0.059	U	0.3	U	0.06	U	0.055	UJ	0.06	UJ	0.056	UJ	0.057	UJ
2-Nitroaniline	8000	1.6		mg/kg	0.061	U	0.059	U	0.055	U	0.059	U	0.3	U	0.06	U	0.055	UJ	0.06	UJ	0.056	UJ	0.057	UJ
2-Nitrophenol				mg/kg	0.061	U	0.059	U	0.055	U	0.059	U	0.3	U	0.06	U	0.055	UJ	0.06	UJ	0.056	UJ	0.057	UJ
3,3'-Dichlorobenzidine	5.1	0.0164		mg/kg	0.2	U	0.2	U	0.18	U	0.2	U	1	U	0.2	UJ	0.18	UJ	0.2	UJ	0.19	UJ	0.19	UJ
3-Nitroaniline				mg/kg	0.2	U	0.2	U	0.18	U	0.2	U	1	U	0.2	U	0.18	UJ	0.2	UJ	0.19	UJ	0.19	UJ
4,6-Dinitro-2-Methylphenol	66	0.052		mg/kg	0.61	U	0.59	U	0.55	U	0.59	U	3	U	0.6	U	0.55	UJ	0.6	UJ	0.56	UJ	0.57	UJ
4-Bromophenyl Phenyl Ether				mg/kg	0.045	U	0.043	U	0.041	U	0.043	U	0.22	U	0.044	U	0.04	UJ	0.044	UJ	0.041	UJ	0.042	UJ
4-Chloro-3-Methylphenol	82000	34		mg/kg	0.061	U	0.059	U	0.055	U	0.059	U	0.3	U	0.06	U	0.055	UJ	0.06	UJ	0.056	UJ	0.057	UJ
4-Chloroaniline	11	0.0032		mg/kg	0.2	U	0.2	U	0.18	U	0.2	U	1	U	0.2	UJ	0.18	UJ	0.2	UJ	0.19	UJ	0.19	UJ
4-Chlorophenyl Phenyl Ether				mg/kg	0.045	U	0.043	U	0.041	U	0.043	U	0.22	U	0.044	U	0.04	UJ	0.044	UJ	0.041	UJ	0.042	UJ
4-Methylphenol	16000	6		mg/kg	0.034	J	0.059	U	0.055	U	0.059	U	0.3	U	0.06	U	0.055	UJ	0.06	UJ	0.056	UJ	0.057	UJ
4-Nitroaniline	110	0.032		mg/kg	0.2	U	0.2	U	0.18	U	0.2	U	1	U	0.2	U	0.18	UJ	0.2	UJ	0.19	UJ	0.19	UJ
4-Nitrophenol				mg/kg	0.61	U	0.59																	

Table 19. Wastewater Soil Analytical Results
RCRA Facility Investigation Report
Honeywell Delaware Valley Works
Claymont, Delaware
Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date			SBWW-18B SBWW-18B_0-2 7/23/2021		SBWW-18B SBWW-18B_9-11 7/23/2021		SBWW-18C SBWW-18C_0-2 7/23/2021		SBWW-18C SBWW-18C_8-10 7/23/2021		SBWW-18D SBWW-18D_0-2 7/27/2021		SBWW-18D SBWW-18D_7.5-9.5 7/27/2021		SBWW-19 SBWW-19_0-2 7/14/2021		SBWW-19 SBWW-19_3-5 7/14/2021		SBWW-19 SBWW-19_5-7 7/14/2021		SBWW-20 SBWW-20_0-2 7/14/2021		
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Butylbenzyl Phthalate	1200	4.8		mg/kg	0.2	U	0.2	U	0.18	U	0.2	U	1	U	0.2	U	0.18	UJ	0.2	UJ	0.19	UJ	0.19	UJ
Caprolactam	400000	50		mg/kg	0.2	U	0.2	U	0.18	U	0.2	U	1	U	0.2	U	0.18	UJ	0.2	UJ	0.19	UJ	0.19	UJ
Carbazole				mg/kg	0.044	J	0.043	U	0.041	U	0.043	U	1.1		0.044	U	0.089	J	0.044	UJ	0.041	UJ	2.2	J
Chrysene	2100	180		mg/kg	0.21		0.02	U	1.1		0.02	U	3.1		0.02	U	0.4	J	0.02	UJ	0.019	UJ	7	J
Dibenzo(a,h)Anthracene	2.1	1.92		mg/kg	0.029		0.02	U	0.18		0.02	U	0.58		0.02	U	0.068	J	0.02	UJ	0.019	UJ	0.97	J
Dibenzofuran	1200	3		mg/kg	0.033	J	0.043	U	0.27		0.043	U	0.77		0.044	U	0.096	J	0.044	UJ	0.041	UJ	2.1	J
Diethyl Phthalate	660000	122		mg/kg	0.2	U	0.2	U	0.18	U	0.2	U	1	U	0.2	U	0.18	UJ	0.2	UJ	0.19	UJ	0.19	UJ
Dimethyl Phthalate				mg/kg	0.2	U	0.2	U	0.12	J	0.2	U	1	U	0.2	U	0.18	UJ	0.2	UJ	0.19	UJ	0.19	UJ
Di-n-Butyl Phthalate	82000	46		mg/kg	0.2	U	0.2	U	0.18	U	0.2	U	1	U	0.2	U	0.18	UJ	0.2	UJ	0.19	UJ	0.19	UJ
Di-n-Octyl Phthalate	8200	1140		mg/kg	0.2	U	0.2	U	0.18	U	0.2	U	1	U	0.2	U	0.18	UJ	0.2	UJ	0.19	UJ	0.19	UJ
Fluoranthene	30000	1780		mg/kg	0.38		0.02	U	2.6		0.0065	J	7.7		0.02	U	0.91	J	0.02	UJ	0.019	UJ	21	J
Fluorene	30000	108		mg/kg	0.042		0.02	U	0.33		0.007	J	1.1		0.02	U	0.11	J	0.02	UJ	0.019	UJ	3.1	J
Hexachlorobenzene	0.96	0.0024	0.26	mg/kg	0.02	U	0.02	U	33		0.02	U	3.1		0.02	U	4	J	0.02	UJ	0.019	UJ	0.87	J
Hexachlorobutadiene	5.3	0.0054		mg/kg	0.061	U	0.059	U	0.05	J	0.059	U	0.3	U	0.06	R	0.041	J	0.033	J	0.056	UJ	0.057	UJ
Hexachlorocyclopentadiene	7.5	0.026	3.2	mg/kg	0.61	U	0.59	U	0.55	U	0.59	U	3	UJ	0.6	R	0.55	UJ	0.6	UJ	0.56	UJ	0.57	UJ
Hexachloroethane	8	0.004		mg/kg	0.2	U	0.2	U	0.18	U	0.2	U	1	U	0.2	U	0.18	UJ	0.2	UJ	0.19	UJ	0.19	UJ
Indeno(1,2,3-Cd)Pyrene	21	19.6		mg/kg	0.091		0.02	U	0.54		0.02	U	1.6		0.02	U	0.21	J	0.02	UJ	0.019	UJ	2.8	J
Isophorone	2400	0.52		mg/kg	0.081	U	0.078	U	0.074	U	0.078	U	0.4	U	0.08	U	0.073	UJ	0.08	UJ	0.074	UJ	0.076	UJ
Naphthalene	8.6	0.0076		mg/kg	0.7		0.02	U	0.28		0.011	J	0.85		0.02	U	0.088	J	0.02	UJ	0.019	UJ	0.55	J
Nitrobenzene	22	0.00184		mg/kg	0.045	U	0.043	U	0.041	U	0.043	U	0.22	U	0.044	U	0.04	UJ	0.044	UJ	0.041	UJ	0.042	UJ
n-Nitroso-di-n-Propylamine	0.33	0.000162		mg/kg	0.081	U	0.078	U	0.074	U	0.078	U	0.4	U	0.08	U	0.073	UJ	0.08	UJ	0.074	UJ	0.076	UJ
n-Nitrosodiphenylamine	470	1.34		mg/kg	0.063		0.043	U	0.041	U	0.043	U	0.22	U	0.044	U	0.04	UJ	0.044	UJ	0.041	UJ	0.042	UJ
Pentachlorophenol	4	0.00114	0.028	mg/kg	0.2	U	0.2	U	0.5		0.2	U	1	U	0.2	U	0.18	UJ	0.2	UJ	0.19	UJ	0.19	UJ
Phenanthrene				mg/kg	0.25		0.02	U	3		0.017	J	9.4		0.02	U	0.91	J	0.02	UJ	0.019	UJ	26	J
Phenol	250000	66		mg/kg	0.045	U	0.043	U	0.9		0.1		1.3		0.044	U	0.04	UJ	0.044	UJ	0.041	UJ	0.042	UJ
Pyrene	23000	260		mg/kg	0.28		0.02	U	1.9		0.0078	J	5.8		0.02	U	0.84	J	0.02	UJ	0.019	UJ	16	J

Notes:
Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), Industrial Soil Screening Level (SSL) (November 2021)
Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20
Exceeds the EPA RSL, Maximum Contaminant Level (MCL) SSL assuming a DAF of 20
Blanks indicate RSL not established or constituent not analyzed
RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0
U = undetected
J = estimated value
J+ = estimated biased high
J- = estimated biased low
R = rejected
MG/KG - milligram per kilogram
SWMU = Solid Waste Management Unit
RCRA = Resource Conservation and Recovery Act
Sample depth shown in Sample ID (e.g., SBBF3-04_6-8 indicates 6 to 8-foot sample)
DUP = Duplicate sample
Exceedances shown may exceed one or more criteria if available

Table 19. Wastewater Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date			SBWW-20 SBWW-20_4-6 7/14/2021	SBWW-20A SBWW-20A_0-2 7/23/2021	SBWW-20A SBWW-20A_2-4 7/23/2021	SBWW-20A SBWW-20A_9-11 7/23/2021	SBWW-20A SBWW-20A_9-11-DUP 7/23/2021	SBWW-20B SBWW-20B_0-2 7/22/2021	SBWW-20B SBWW-20B_7-9 7/23/2021	SBWW-20C SBWW-20C_0-2 7/23/2021	SBWW-20C SBWW-20C_8-10 7/23/2021	SBWW-20C SBWW-20C_8-10-DUP 7/23/2021											
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual										
Metals																								
Aluminum	110000	60000		mg/kg	14000		13000		13000		14000		15000		2300		20000		11000		16000		13000	
Antimony	470	7	5.4	mg/kg	5.5	U	5.2	U	5.8	U	4.2	U	5.9	U	5.4	U	4	U	1.9	J-	5	U	4.4	U
Arsenic	3	0.03	5.8	mg/kg	5		4		6		4.7		3.8		17		2.3	J	5.6		3.4		3.3	
Barium	220000	3200	1640	mg/kg	62		57		63		67		68		100		79		100	J-	84		63	
Beryllium	2300	380	64	mg/kg	0.74		0.32	J	0.51	J	0.9		0.81		0.21	J	0.62		0.55		0.92		1	
Cadmium	100	2.8	7.6	mg/kg	0.55	U	0.54		0.58	U	0.42	U	0.59	U	0.23	J	0.12	J	0.46		0.5	U	0.44	U
Calcium				mg/kg	3800		11000		2600		540		520		14000		300		30000		710		540	
Chromium			3600000	mg/kg	23		14		19		22		22		8.2		25		31		28		22	
Cobalt	350	5.4		mg/kg	5.6		3.2		4.9		9.4		8.4		1.7		5.2		3.5		8.6		8.3	
Copper	47000	560	920	mg/kg	16		20		73		12		12		17		12		40	J-	9.8		12	
Iron	820000	7000		mg/kg	20000		9400		19000		14000		13000		11000		15000		19000		16000		16000	
Lead	800		280	mg/kg	44		36		71		11		10		63		12		72		11		12	
Magnesium				mg/kg	3100		1900		1800		2800		2900		5700		2600		4400		3100		2800	
Manganese	26000	560		mg/kg	120		62		110		84		86		20		80		260		84		81	
Nickel	22000	520		mg/kg	12		11		10		20		20		6.1		16		13		21		19	
Potassium				mg/kg	1500		950		1200		820		970		1300		1100		1500	J+	850		660	
Selenium	5800	10.4	5.2	mg/kg	5.5	U	5.2	U	5.8	U	4.2	U	5.9	U	5.3	J	4	U	3.9	UJ	5	U	4.4	U
Silver	5800	16		mg/kg	1.1	U	1	U	1.2	U	0.84	U	1.2	U	1.1	U	0.79	U	0.79	U	1	U	0.89	U
Sodium				mg/kg	310		210		280		260		250		350		240		380		530		450	
Thallium	12	0.28	2.8	mg/kg	3.3	U	3.1	U	3.5	U	2.5	U	3.6	U	3.2	U	2.4	U	2.4	U	3	U	2.7	U
Vanadium	5800	1720		mg/kg	34		19		28		29		25		14		34		26		23		33	
Zinc	350000	7400		mg/kg	35		150		50		47		48		11		42		260	J	51		47	
Mercury	46	0.66	2	mg/kg	0.42		0.54		2.5		0.04	J	0.047	J	0.18		0.07	U	5		0.18	J+	0.04	J+
Pesticides																								
4,4'-DDD	9.6	0.15		mg/kg	0.004	J	0.39		0.008	U	0.00081		0.00054	J	0.018		0.012		0.82		0.0079	U	0.0023	J
4,4'-DDE	9.3	0.22		mg/kg	0.0077	U	0.14		0.008	U	0.0011		0.00057	J	0.15		0.0019	J	0.34		0.0079	U	0.0078	U
4,4'-DDT	8.5	1.54		mg/kg	0.0077	U	0.028		0.008	UJ	0.00081	UJ	0.00081	UJ	0.061		0.0077	U	0.24	J-	0.0079	U	0.0078	U
Aldrin	0.18	0.003		mg/kg	0.0077	U	0.0076	U	0.008	U	0.00081	U	0.00081	U	0.0079	U	0.0077	U	0.037	U	0.0079	U	0.0078	U
Alpha-BHC	0.36	0.00084		mg/kg	0.012		0.33		0.008	U	0.0074	J	0.013	J	0.015		0.022		0.63		0.0079	U	0.0078	U
Beta-BHC	1.3	0.003		mg/kg	0.0077	U	1.2		0.008	U	0.0012		0.00085		0.32		0.016		1.6		0.0079	U	0.0078	U
cis-Chlordane	500	9.8		mg/kg	0.0077	U	0.0076	U	0.008	U	0.00081	U	0.00081	U	0.0079	U	0.0077	U	0.037	U	0.0079	U	0.0078	U
Delta-BHC				mg/kg	0.0077	U	0.017		0.008	U	0.00081	U	0.00081	U	0.0079	U	0.0077	U	0.031	J	0.0079	U	0.0078	U
Dieldrin	0.14	0.00142		mg/kg	0.0077	U	0.0076	U	0.008	U	0.00081	U	0.00081	U	0.0079	U	0.0077	U	0.037	U	0.0079	U	0.0078	U
Endosulfan I				mg/kg	0.0077	U	0.0076	U	0.008	U	0.00081	U	0.00081	U	0.0079	U	0.0077	U	0.037	U	0.0079	U	0.0078	U
Endosulfan II				mg/kg	0.0077	U	0.0076	U	0.008	U	0.00081	U	0.00081	U	0.0079	U	0.0077	U	0.037	U	0.0079	U	0.0078	U
Endosulfan Sulfate	4900	42		mg/kg	0.0077	U	0.0076	U	0.008	U	0.00081	U	0.00081	U	0.0079	U	0.0077	U	0.037	U	0.0079	U	0.0078	U
Endrin	250	1.84	1.62	mg/kg	0.0077	U	0.0076	U	0.008	U	0.00081	U	0.00081	U	0.0079	U	0.0077	U	0.037	U	0.0079	U	0.0078	U
Endrin Aldehyde				mg/kg	0.0077	U	0.0076	UJ	0.008	UJ	0.00081	UJ	0.00081	UJ	0.0079	UJ	0.0077	UJ	0.037	UJ	0.0079	U	0.0078	U
Endrin Ketone				mg/kg	0.0077	U	0.0076	U	0.008	U	0.00081	U	0.00081	U	0.0079	U	0.0077	U	0.037	U	0.0079	U	0.0078	U
Gamma-BHC (Lindane)	2.5	0.0048	0.024	mg/kg	0.0077	U	0.1	J	0.008	U	0.00081	U	0.00081	U	0.0083	J	0.0077	U	0.037	U	0.0079	U	0.0078	U
Heptachlor	0.63	0.0024	0.66	mg/kg	0.0077	U	0.0076	U	0.008	U	0.00081	U	0.00081	U	0.0079	U	0.0077	U	0.037	U	0.0079	U	0.0078	U
Heptachlor Epoxide	0.33	0.00056	0.082	mg/kg	0.0077	U	0.0076	U	0.008	U	0.00081	U	0.00081	U	0.0079	U	0.0077	U	0.037	U	0.0079	U	0.0078	U
Methoxychlor	4100	40	44	mg/kg	0.015	U	0.015	UJ	0.015	UJ	0.0016	UJ	0.0016	UJ	0.015	UJ	0.015	UJ	0.072	UJ	0.015	U	0.015	U
Toxaphene	2.1	0.22	9.2	mg/kg	0.19	U	0.19	U	0.2	U	0.021	U	0.021	U	0.2	U	0.2	U	0.95	U	0.2	U	0.2	U
trans-Chlordane	500	28		mg/kg	0.0077	U	0.0076	U	0.008	U	0.00081	U	0.00081	U	0.0079	U	0.0077	U	0.037	U	0.0079	U	0.0078	U
Volatiles Organics Compounds																								
1,1,1-Trichloroethane	36000	56	1.4	mg/kg	0.0046	U	0.0046	U	0.29	U	0.0048	U	0.29	U	0.67	U	0.26	U	0.35	U	0.0044	U	0.0047	U
1,1,2,2-Tetrachloroethane	2.7	0.0006		mg/kg	0.0046	U	0.0046	U	0.29	U	0.0048	U	0.29	U	0.67	U	0.26	U	0.35	U	0.0044	U	0.0047	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	28000	520		mg/kg	0.0023	J	0.0092	U	0.57	UJ	0.01		0.58	UJ	2.3		1		0.5	J-	4		1.6	
1,1,2-Trichloroethane	5	0.00178	0.032	mg/kg	0.0046	U	0.0046	U	0.29	U	0.0048	U	0.29	U	0.67	U	0.26	U	0.35	U	0.0044	U	0.0047	U
1,1-Dichloroethane	16	0.0156		mg/kg	0.0046	U	0.0046	U	0.29	U	0.0048	U	0.29	U	0.67	U	0.26	U	0.35	U	0.0044	U	0.0047	U
1,1-Dichloroethene	1000	2	0.05	mg/kg	0.0015	J	0.0046	U	0.29	U	0.015		0.29	U	0.67	U	0.26	U	0.35	U	0.0044	U	0.0047	U
1,2,3-Trichlorobenzene	930	0.42		mg/kg	0.0092	U	0.0092	U	0.57	U	0.0095	U	0.58	U	1.3	U	0.52	U	0.67	J	0.0088	U	0.0094	U
1,2,4-Trichlorobenzene	110	0.068	4	mg/kg	0.0092	U	0.0092	U	0.57	U	0.0095	U	0.58	U	1.3	U	0.52	U	9		0.0088	U	0.0094	U
1,2-Dibromo-3-Chloropropane	0.064	0.0000028	0.00172	mg/kg	0.0046	U	0.0046	U	0.29	U	0.0048	U	0.29	U	0.67	U	0.26	U	0.35					

Table 19. Wastewater Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date				SBWW-20 SBWW-20_4-6 7/14/2021		SBWW-20A SBWW-20A_0-2 7/23/2021		SBWW-20A SBWW-20A_2-4 7/23/2021		SBWW-20A SBWW-20A_9-11 7/23/2021		SBWW-20A SBWW-20A_9-11-DUP 7/23/2021		SBWW-20B SBWW-20B_0-2 7/22/2021		SBWW-20B SBWW-20B_7-9 7/22/2021		SBWW-20C SBWW-20C_0-2 7/23/2021		SBWW-20C SBWW-20C_8-10 7/23/2021		SBWW-20C SBWW-20C_8-10-DUP 7/23/2021		
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	
Bromomethane	30	0.038		mg/kg	0.0046	U		0.0046	U	0.29	U	0.0048	U	0.29	U	0.67	U	0.26	U	0.35	U	0.0044	U	0.0047	U
Carbon Disulfide	3500	4.8		mg/kg	0.0012	J		0.0046	U	0.054	J	0.0011	J	0.29	U	0.67	U	0.26	U	0.35	U	0.0007	J	0.0006	J
Carbon Tetrachloride	2.9	0.0036	0.038	mg/kg	0.0046	U		0.0046	U	0.29	U	0.0048	U	0.29	U	0.67	U	0.26	U	0.35	U	0.0044	U	0.0047	U
Chlorobenzene	1300	1.06	1.36	mg/kg	0.0021	J		0.0046	U	0.14	J	0.0016	J	0.29	U	0.67	U	0.26	U	0.041	J	0.0077		0.0087	
Chloroethane	23000	48		mg/kg	0.0046	U		0.0046	U	0.29	U	0.0048	U	0.29	U	0.67	U	0.26	U	0.35	U	0.0044	U	0.0047	U
Chloroform	1.4	0.00122	0.44	mg/kg	0.0046	U		0.0046	U	0.29	U	0.0048	U	0.29	U	0.67	U	0.26	U	0.35	U	0.0044	U	0.0047	U
Chloromethane	460	0.98		mg/kg	0.0046	U		0.0046	U	0.29	U	0.0048	U	0.29	U	0.67	U	0.26	U	0.35	U	0.0044	U	0.0047	U
cis-1,2-Dichloroethene	2300	0.22	0.42	mg/kg	0.21	J		0.0092	J	0.031	J	3.8		4.9		5.1		0.97		0.045	J	0.084		0.096	
cis-1,3-Dichloropropene				mg/kg	0.0046	U		0.0046	U	0.29	U	0.0048	U	0.29	U	0.67	U	0.26	U	0.35	U	0.0044	U	0.0047	U
Cyclohexane	27000	260		mg/kg	0.0046	U		0.0046	U	0.29	UJ	0.0048	U	0.29	UJ	0.67	U	0.26	U	0.35	UJ	0.0044	U	0.0047	U
Dibromochloromethane	39	0.0046	0.42	mg/kg	0.0046	U		0.0046	U	0.29	U	0.0048	U	0.29	U	0.67	U	0.26	U	0.35	U	0.0044	U	0.0047	U
Dichlorodifluoromethane	370	6		mg/kg	0.0046	U		0.0046	U	0.29	UJ	0.0048	U	0.29	UJ	0.67	U	0.26	U	0.35	UJ	0.0044	U	0.0047	U
Diethyl Ether	230000	17.6		mg/kg	0.014			0.0015	J	0.3		0.073		0.29	U	0.67	U	0.26	U	0.35	U	0.0044	U	0.0064	
Ethylbenzene	25	0.034	15.6	mg/kg	0.01			0.0046	U	0.29	U	0.0048	U	0.29	U	0.67	U	0.26	U	0.35	U	0.0044	U	0.0047	U
Isopropylbenzene	9900	14.8		mg/kg	0.00088	J		0.0046	U	0.29	U	0.0048	U	0.29	U	0.67	U	0.034	J	0.35	U	0.0044	U	0.0047	U
m&p-Xylenes				mg/kg	0.012			0.0046	U	0.29	U	0.0048	U	0.29	U	0.67	U	0.26	U	0.17	J	0.0044	U	0.0047	U
Methyl Acetate	1200000	82		mg/kg	0.0046	U		0.0046	U	0.19	J	0.0048	U	0.29	U	0.67	U	0.26	U	0.15	J	0.0044	U	0.0047	U
Methyl Tert-Butyl Ether	210	0.064		mg/kg	0.0046	U		0.0046	U	0.29	U	0.0048	U	0.29	U	0.67	U	0.26	U	0.35	U	0.0044	U	0.0047	U
Methylcyclohexane				mg/kg	0.0046	U		0.0046	U	0.29	UJ	0.0048	U	0.29	UJ	0.12	J	0.26	U	0.35	UJ	0.0044	U	0.0047	U
Methylene Chloride	1000	0.058	0.026	mg/kg	0.0046	U		0.0046	U	0.29	U	0.0048	U	0.29	U	0.77		0.26	U	0.35	U	0.0044	U	0.0047	U
o-Xylene	2800	3.8		mg/kg	0.013			0.0046	U	0.29	U	0.0048	U	0.29	U	0.67	U	0.26	U	0.058	J	0.0044	U	0.0047	U
Styrene	35000	26	2.2	mg/kg	0.0046	U		0.0046	U	0.29	U	0.0048	U	0.29	U	0.67	U	0.26	U	0.35	U	0.0044	U	0.0047	U
Tetrachloroethene	100	0.102	0.046	mg/kg	0.017			0.014		1.6		0.11		0.14	J	590	J	190	J	1.3		0.15		0.19	
Toluene	47000	15.2	13.8	mg/kg	0.0042	J		0.0046	U	0.29	U	0.0017	J	0.29	U	0.67	U	0.26	U	0.13	J	0.0012	J	0.0014	J
Total Xylenes	2500	3.8	198	mg/kg	0.025			0.0092	U	0.57	U	0.0095	U	0.58	U	1.3	U	0.52	U	0.23	J	0.0088	U	0.0094	U
trans-1,2-Dichloroethene	300	0.42	0.62	mg/kg	0.0026	J		0.0046	U	0.18	J	0.029		0.29	U	0.67	U	0.26	U	0.35	U	0.00092	J	0.001	J
trans-1,3-Dichloropropene				mg/kg	0.0046	U		0.0046	U	0.29	U	0.0048	U	0.29	U	0.67	U	0.26	U	0.35	U	0.0044	U	0.0047	U
Trichloroethene	6	0.0036	0.036	mg/kg	0.019			0.0013	J	0.42		0.052		0.048	J	11		1.2		0.041	J	0.0073		0.0085	
Trichlorofluoromethane	350000	66		mg/kg	0.0046	U		0.0046	U	0.29	U	0.0048	U	0.29	U	0.67	U	0.26	U	0.13	J	0.0044	U	0.0047	U
Vinyl Chloride	1.7	0.00013	0.0138	mg/kg	0.0033	J		0.0012	J	0.048	J	0.3	J	0.29	U	0.67	U	0.26	U	0.35	U	0.0031	J	0.0033	J
Semi-Volatiles Organic Compounds																									
1,1'-Biphenyl	200	0.174		mg/kg	0.043	UJ		0.052		0.044	U	0.045	U	0.044	U	0.084		0.043	U	0.061		0.044	U	0.044	U
1,2,4,5-Tetrachlorobenzene	35	0.0158		mg/kg	0.043	UJ		0.041	U	0.044	U	0.045	U	0.044	U	0.044	U	0.043	U	0.041	U	0.044	U	0.044	U
2,2'-Oxybis(1-Chloropropane)	47000	5.2		mg/kg	0.05	UJ		0.049	U	0.052	U	0.053	U	0.052	U	0.052	U	0.051	U	0.048	U	0.052	U	0.051	U
2,3,4,6-Tetrachlorophenol	25000	3.6		mg/kg	0.19	UJ		0.19	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U	0.19	U	0.2	U	0.2	U
2,4,5-Trichlorophenol	82000	80		mg/kg	0.043	UJ		0.041	U	0.044	U	0.045	U	0.044	U	0.044	U	0.043	U	0.041	U	0.044	U	0.044	U
2,4,6-Trichlorophenol	210	0.08		mg/kg	0.043	UJ		0.041	U	0.044	U	0.045	U	0.044	U	0.044	U	0.043	U	0.041	U	0.044	U	0.044	U
2,4-Dichlorophenol	2500	0.46		mg/kg	0.05	UJ		0.049	U	0.052	U	0.053	U	0.052	U	0.052	U	0.051	U	0.074		0.052	U	0.051	U
2,4-Dimethylphenol	16000	8.4		mg/kg	0.043	UJ		0.041	U	0.044	U	0.045	U	0.044	U	0.044	U	0.043	U	0.041	U	0.044	U	0.044	U
2,4-Dinitrophenol	1600	0.88		mg/kg	1.2	UJ		1.1	UJ	1.2	U	1.2	U	1.2	U	1.2	U	1.2	U	1.1	U	1.2	U	1.2	U
2,4-Dinitrotoluene	7.4	0.0064		mg/kg	0.19	UJ		0.19	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U	0.19	U	0.2	U	0.2	U
2,6-Dinitrotoluene	1.5	0.00134		mg/kg	0.043	UJ		0.041	U	0.044	U	0.045	U	0.044	U	0.044	U	0.043	U	0.041	U	0.044	U	0.044	U
2-Chloronaphthalene	60000	78		mg/kg	0.039	UJ		0.037	U	0.04	U	0.041	U	0.04	U	0.04	U	0.039	U	0.037	U	0.04	U	0.04	U
2-Chlorophenol	5800	1.78		mg/kg	0.043	UJ		0.041	U	0.044	U	0.045	U	0.044	U	0.044	U	0.043	U	0.041	U	0.044	U	0.044	U
2-Methylnaphthalene	3000	3.8		mg/kg	0.03	J		0.032		0.036		0.022		0.02	U	0.17		0.019	U	0.13		0.02	U	0.02	U
2-Methylphenol	41000	15		mg/kg	0.058	UJ		0.056	U	0.06	U	0.061	U	0.06	U	0.06	U	0.058	U	0.056	U	0.06	U	0.059	U
2-Nitroaniline	8000	1.6		mg/kg	0.058	UJ		0.056	U	0.06	U	0.061	U	0.06	U	0.06	U	0.058	U	0.056	U	0.06	U	0.059	U
2-Nitrophenol				mg/kg	0.058	UJ		0.056	U	0.06	U	0.061	U	0.06	U	0.06	U	0.058	U	0.056	U	0.06	U	0.059	U
3,3'-Dichlorobenzidine	5.1	0.0164		mg/kg	0.19	UJ		0.19	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U	0.19	U	0.2	U	0.2	U
3-Nitroaniline				mg/kg	0.19	UJ		0.19	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U	0.19	U	0.2	U	0.2	U
4,6-Dinitro-2-Methylphenol	66	0.052		mg/kg	0.58	UJ		0.56	UJ	0.6	U	0.61	U	0.6	U	0.6	U	0.58	U	0.56	U	0.6	U	0.59	U
4-Bromophenyl Phenyl Ether				mg/kg	0.043	UJ		0.041	U	0.044	U	0.045	U	0.044	U	0.044	U	0.043	U	0.041	U	0.044	U	0.044	U
4-Chloro-3-Methylphenol	82000	34		mg/kg	0.058	UJ		0.056	U	0.06	U	0.061	U	0.06	U	0.06	U	0.058	U	0.056	U	0.06	U	0.059	U
4-Chloroaniline	11	0.0032		mg/kg	0.19	UJ		0.19	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U	0.19	U	0.2	U	0.2	U
4-Chlorophenyl Phenyl Ether				mg/kg	0.043	UJ		0.041	U	0.044	U	0.045	U	0.044	U	0.044	U	0.043	U	0.041	U	0.044	U	0.044	U
4-Methylphenol	16000	6		mg/kg	0.058	UJ		0.056	U	0.06	U	0.061	U	0.06	U	0.06	U	0.058	U	0.056	U	0.06	U	0.059	U
4-Nitroaniline	110	0.032		mg/kg	0.19	UJ		0.19	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U	0.19	U	0.2	U	0.2	U
4-Nitrophenol				mg/kg	0.58	UJ		0.56	U	0.6	U	0.61	U	0.6	U	0.6	U	0.58	U						

Table 19. Wastewater Soil Analytical Results
RCRA Facility Investigation Report
Honeywell Delaware Valley Works
Claymont, Delaware
Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date			SBWW-20 SBWW-20_4-6 7/14/2021		SBWW-20A SBWW-20A_0-2 7/23/2021		SBWW-20A SBWW-20A_2-4 7/23/2021		SBWW-20A SBWW-20A_9-11 7/23/2021		SBWW-20A SBWW-20A_9-11-DUP 7/23/2021		SBWW-20B SBWW-20B_0-2 7/22/2021		SBWW-20B SBWW-20B_7-9 7/22/2021		SBWW-20C SBWW-20C_0-2 7/23/2021		SBWW-20C SBWW-20C_8-10 7/23/2021		SBWW-20C SBWW-20C_8-10-DUP 7/23/2021	
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result
Butylbenzyl Phthalate	1200	4.8		mg/kg	0.19	UJ		0.18	J	0.2	U	0.2	U	0.2	U	0.19	U	0.19	U	0.2	U	0.2	U
Caprolactam	400000	50		mg/kg	0.19	UJ		0.19	U	0.2	U	0.2	U	0.2	U	0.19	U	0.19	U	0.2	U	0.2	U
Carbazole				mg/kg	0.073	J		0.03	J	0.057	U	0.045	U	0.044	U	0.043	U	0.041	U	0.044	U	0.044	U
Chrysene	2100	180		mg/kg	0.029	J		0.11		0.12	U	0.02	U	0.02	U	0.068	U	0.019	U	0.94	U	0.02	U
Dibenzo(a,h)Anthracene	2.1	1.92		mg/kg	0.019	UJ		0.019	U	0.02	U	0.02	U	0.02	U	0.019	U	0.15		0.01	J	0.02	U
Dibenzofuran	1200	3		mg/kg	0.062	J		0.022	J	0.033	J	0.045	U	0.044	U	0.049	U	0.043	U	0.25		0.044	U
Diethyl Phthalate	660000	122		mg/kg	0.19	UJ		0.19	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U	0.19	U	0.2	U
Dimethyl Phthalate				mg/kg	0.19	UJ		0.19	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U	0.19	U	0.2	U
Di-n-Butyl Phthalate	82000	46		mg/kg	0.19	UJ		0.19	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U	0.19	U	0.2	U
Di-n-Octyl Phthalate	8200	1140		mg/kg	0.19	UJ		0.19	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U	0.19	U	0.2	U
Fluoranthene	30000	1780		mg/kg	0.057	J		0.16		0.23	U	0.02	U	0.02	U	0.037	U	0.019	U	2.4		0.023	J
Fluorene	30000	108		mg/kg	0.05	J		0.024		0.052	U	0.02	U	0.02	U	0.02	U	0.019	U	0.33		0.0047	J
Hexachlorobenzene	0.96	0.0024	0.26	mg/kg	0.015	J		0.17		0.02	U	0.02	U	0.02	U	0.053	U	0.019	U	7.3		0.013	J
Hexachlorobutadiene	5.3	0.0054		mg/kg	0.058	UJ		0.056	U	0.06	U	0.061	U	0.06	U	0.046	J	0.058	U	0.11		0.06	U
Hexachlorocyclopentadiene	7.5	0.026	3.2	mg/kg	0.58	UJ		0.56	R	0.6	U	0.61	U	0.6	U	0.6	U	0.58	U	0.56	U	0.6	U
Hexachloroethane	8	0.004		mg/kg	0.19	UJ		0.19	UJ	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U	0.19	U	0.2	U
Indeno(1,2,3-Cd)Pyrene	21	19.6		mg/kg	0.018	J		0.035		0.045	U	0.02	U	0.02	U	0.02	U	0.019	U	0.43		0.01	J
Isophorone	2400	0.52		mg/kg	0.077	UJ		0.075	U	0.08	U	0.081	U	0.079	U	0.08	U	0.078	U	0.074	U	0.079	U
Naphthalene	8.6	0.0076		mg/kg	0.44	J		0.24		0.19		0.0093	J	0.02	U	0.15		0.019	U	0.69		0.02	U
Nitrobenzene	22	0.00184		mg/kg	0.043	UJ		0.041	U	0.044	U	0.045	U	0.044	U	0.071		0.043	U	0.041	U	0.044	U
n-Nitroso-di-n-Propylamine	0.33	0.000162		mg/kg	0.077	UJ		0.075	U	0.08	U	0.081	U	0.079	U	0.08	U	0.078	U	0.074	U	0.079	U
n-Nitrosodiphenylamine	470	1.34		mg/kg	0.057	J		0.074		0.15		0.045	U	0.044	U	0.044	U	0.043	U	0.085		0.044	U
Pentachlorophenol	4	0.00114	0.028	mg/kg	0.19	UJ		0.19	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U	0.19	U	0.2	U
Phenanthrene				mg/kg	0.13	J		0.14		0.2		0.0091	J	0.02	U	0.13		0.019	U	2.9		0.019	J
Phenol	250000	66		mg/kg	0.043	UJ		0.041	U	0.044	U	0.045	U	0.044	U	0.13		0.043	U	0.041	U	0.044	U
Pyrene	23000	260		mg/kg	0.055	J		0.15		0.17		0.02	U	0.02	U	0.045		0.019	U	1.6		0.022	J

Notes:
Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), Industrial Soil Screening Level (SSL) (November 2021)
Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20
Exceeds the EPA RSL, Maximum Contaminant Level (MCL) SSL assuming a DAF of 20
Blanks indicate RSL not established or constituent not analyzed
RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0
U = undetected
J = estimated value
J+ = estimated biased high
J- = estimated biased low
R = rejected
MG/KG - milligram per kilogram
SWMU = Solid Waste Management Unit
RCRA = Resource Conservation and Recovery Act
Sample depth shown in Sample ID (e.g., SBBF3-04_6-8 indicates 6 to 8-foot sample)
DUP = Duplicate sample
Exceedances shown may exceed one or more criteria if available

Table 19. Wastewater Soil Analytical Results
RCRA Facility Investigation Report
Honeywell Delaware Valley Works
Claymont, Delaware
Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date				SBWW-21 SBWW-21_0-2 7/15/2021		SBWW-21 SBWW-21_8-10 7/15/2021		SBWW-22 SBWW-22_0-2 7/14/2021		SBWW-22 SBWW-22_4-6 7/14/2021		SBWW-22 SBWW-22_6-8 7/14/2021		SBWW-22A SBWW-22A_0-2 7/22/2021		SBWW-22A SBWW-22A_5.5-7.5 7/22/2021		SBWW-22B SBWW-22B_0-2 7/22/2021		SBWW-22B SBWW-22B_2-4 7/22/2021		SBWW-22B SBWW-22B_2-4-DUP 7/22/2021		
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	
Metals																									
Aluminum	1100000	600000		mg/kg	16000			12000		12000		16000		14000		9900		31000		21000		14000		16000	
Antimony	470	7	5.4	mg/kg	4.7	U		4.7	U	4.3	U	6.7	U	5.4	UJ	4	U	5.6	U	100		4.9	U	5.4	U
Arsenic	3	0.03	5.8	mg/kg	4.5			2.8	U	5		32		14	J	4		5.2		230		2.9		3.7	
Barium	220000	3200	1640	mg/kg	140			54		70		78		74	J+	54		140		3100		54	J	200	J
Beryllium	2300	380	64	mg/kg	0.73			0.58		0.57		0.63	J	0.85		0.43		0.85		0.56	U	0.25	J	0.58	
Cadmium	100	2.8	7.6	mg/kg	1.2			0.47	U	0.43	U	0.25	J	0.2	J	0.47		0.56	U	2.7	J	0.17	J	0.14	J
Calcium				mg/kg	12000			520		6000		6000		3100	J	2700		1300		53000		1900	J	5700	J
Chromium			3600000	mg/kg	30			20		22		46		26	J+	16		32		57		16		19	
Cobalt	350	5.4		mg/kg	5.5			4.9		4.9		6		5.9		6.5		6.6		19		3.9		5.3	
Copper	47000	560	920	mg/kg	23			9.7		42		47		19		17		11		1700		15	J	34	J
Iron	820000	7000		mg/kg	24000			12000		21000		27000		29000	J	15000		14000		90000		11000		16000	
Lead	800		280	mg/kg	49			7.8		190		250		57	J	27		15		1700		23	J	84	J
Magnesium				mg/kg	4100			2600		2300		3400		2300	J+	3800		3500		17000		1500	J	3200	J
Manganese	26000	560		mg/kg	250			65		120		150		120	J	62		46		150		70		100	
Nickel	22000	520		mg/kg	12			14		12		18		17		15		16		15		7.8		10	
Potassium				mg/kg	2400			720		1400		4200		2000	J	1300		1500		11000		3500		5400	
Selenium	5800	10.4	5.2	mg/kg	4.7	U		4.7	U	4.3	U	3.3	J	5.4	U	4	U	1.9	J	9.4	J	4.9	U	5.4	U
Silver	5800	16		mg/kg	0.43	J		0.95	U	0.34	J	1.3	U	0.49	J	0.8	U	1.1	U	6.4		0.98	U	1.1	U
Sodium				mg/kg	670			380		170		440		290		130		660		1000		430		550	
Thallium	12	0.28	2.8	mg/kg	2.8	U		2.8	U	2.6	U	4	U	3.2	U	2.4	U	3.4	U	17	U	2.9	U	3.2	U
Vanadium	5800	1720		mg/kg	35			23		29		34		33	J+	25		45		73		24		28	
Zinc	350000	7400		mg/kg	61			39		40		240		120	J	60		34		81		30		41	
Mercury	46	0.66	2	mg/kg	4.7			0.032	J	0.72		3.6		2.2	J	0.33		0.045	J	0.8		0.073		0.091	
Pesticides																									
4,4'-DDD	9.6	0.15		mg/kg	0.039	UJ		0.0079	U	8.7		39		6	J	0.51		0.24		130		13	J	7.3	J
4,4'-DDE	9.3	0.22		mg/kg	0.039	U		0.0079	U	0.68	J+	9.7		0.91	J	0.017	J	0.074		1.5		0.16	J	0.087	J
4,4'-DDT	8.5	1.54		mg/kg	0.039	UJ		0.0079	U	1.9		67		9.3	J	0.14		0.34		3.7		0.085		0.14	
Aldrin	0.18	0.003		mg/kg	0.039	U		0.0079	U	0.0069	U	0.062	U	0.017	U	0.0079	U	0.0082	U	0.042	U	0.008	U	0.0079	U
Alpha-BHC	0.36	0.00084		mg/kg	0.039	U		0.0079	U	9.2		4.4		2.7	J	0.38		1.7		20		0.15	J	0.18	
Beta-BHC	1.3	0.003		mg/kg	0.039	U		0.0079	U	11		4.1		0.83		0.3		0.13		16		1.7		1.3	
cis-Chlordane	500	9.8		mg/kg	0.039	U		0.0079	U	0.0069	U	0.062	U	0.017	U	0.0079	U	0.0082	U	0.042	U	0.008	U	0.0079	U
Delta-BHC				mg/kg	0.039	U		0.0079	U	0.12	J+	0.53		0.31	J	0.64		0.055		0.042	U	0.008	U	0.0079	U
Dieldrin	0.14	0.00142		mg/kg	0.039	U		0.0079	U	0.0069	U	0.062	U	0.017	U	0.0079	U	0.0082	U	0.042	U	0.008	U	0.0079	U
Endosulfan I				mg/kg	0.039	U		0.0079	U	0.0069	U	0.062	U	0.017	U	0.0079	U	0.0082	U	0.042	U	0.008	U	0.0079	U
Endosulfan II				mg/kg	0.039	U		0.0079	U	0.0069	U	0.062	U	0.017	U	0.0079	U	0.0082	U	0.042	U	0.008	U	0.0079	U
Endosulfan Sulfate	4900	42		mg/kg	0.039	UJ		0.0079	UJ	0.0069	U	0.062	U	0.017	U	0.0079	U	0.0082	U	0.042	U	0.008	U	0.0079	U
Endrin	250	1.84	1.62	mg/kg	0.039	UJ		0.0079	UJ	0.0069	U	0.062	U	0.017	U	0.0079	U	0.0082	U	0.042	U	0.008	U	0.0079	U
Endrin Aldehyde				mg/kg	0.039	UJ		0.0079	UJ	0.0069	U	0.062	U	0.017	U	0.0079	UJ	0.0082	UJ	0.042	UJ	0.008	UJ	0.0079	UJ
Endrin Ketone				mg/kg	0.039	UJ		0.0079	U	0.0069	U	0.062	U	0.017	U	0.0079	U	0.0082	U	0.042	U	0.008	U	0.0079	U
Gamma-BHC (Lindane)	2.5	0.0048	0.024	mg/kg	0.039	U		0.0079	U	0.35	J+	1.3		1.1	J	0.09	J	0.15		0.69		0.008	UJ	0.18	J
Heptachlor	0.63	0.0024	0.66	mg/kg	0.039	U		0.0079	U	0.0069	U	0.062	U	0.017	U	0.0079	U	0.0082	U	0.042	U	0.008	U	0.0079	U
Heptachlor Epoxide	0.33	0.00056	0.082	mg/kg	0.039	U		0.0079	U	0.0069	U	0.062	U	0.017	U	0.0079	U	0.0082	U	0.042	U	0.008	U	0.0079	U
Methoxychlor	4100	40	44	mg/kg	0.076	UJ		0.015	U	0.013	U	0.12	U	0.033	U	0.015	UJ	0.016	UJ	0.081	UJ	0.015	UJ	0.015	UJ
Toxaphene	2.1	0.22	9.2	mg/kg	1	U		0.2	U	0.17	U	1.6	U	0.43	U	0.2	U	0.21	U	1.1	U	0.2	U	0.2	U
trans-Chlordane	500	28		mg/kg	0.039	U		0.0079	U	0.0069	U	0.062	U	0.017	U	0.0079	U	0.0082	U	0.042	U	0.008	U	0.0079	U
Volatiles Organics Compounds																									
1,1,1-Trichloroethane	36000	56	1.4	mg/kg	0.28	U		0.0047	U	0.0055	U	15	U	0.32	U	0.0056	U	0.6	U	1.3	U	1.3	U	3.7	U
1,1,2,2-Tetrachloroethane	2.7	0.0006		mg/kg	0.28	U		0.0047	U	0.0055	UJ	15	U	0.32	U	0.0056	U	0.6	U	1.3	U	1.3	U	3.7	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	28000	520		mg/kg	0.05	J		1.2		0.013		2800		29		0.0085	J	370	J	380	J	0.58	J	800	J
1,1,2-Trichloroethane	5	0.00178	0.032	mg/kg	0.28	U		0.0047	U	0.0055	U	15	U	0.32	U	0.0056	U	0.6	U	1.3	U	1.3	U	3.7	U
1,1-Dichloroethane	16	0.0156		mg/kg	0.28	U		0.0047	U	0.0055	U	15	U	0.32	U	0.0056	U	0.6	U	1.3	U	1.3	U	3.7	U
1,1-Dichloroethene	1000	2	0.05	mg/kg	0.28	U		0.0047	U	0.0055	U	30		0.29	J	0.0056	U	0.6	U	0.89	J	1.3	UJ	4.2	J
1,2,3-Trichlorobenzene	930	0.42		mg/kg	0.55	U		0.0094	U	0.011	UJ	30	U	0.64	U	0.011	U	1.2		7.4		2.6	U	7.4	U
1,2,4-Trichlorobenzene	110	0.068	4	mg/kg	0.55	U		0.0094	U	0.011	UJ	68		0.77		0.011	U	6.3		150	J	4.3	J	16	J
1,2-Dibromo-3-Chloropropane	0.064	0.0000028	0.00172	mg/kg	0.28	U		0.0047	U	0.0055	UJ	15	U	0.32	U	0.0056	U	0.6	U	1.3	U	1.3	U	3.7	U
1,2-Dibromoethane	0.16	0.000042	0.00028	mg/kg	0.28	U		0.0047	U	0.0055	U	15	U												

Table 19. Wastewater Soil Analytical Results
RCRA Facility Investigation Report
Honeywell Delaware Valley Works
Claymont, Delaware
Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date				SBWW-21 SBWW-21_0-2 7/15/2021		SBWW-21 SBWW-21_8-10 7/15/2021		SBWW-22 SBWW-22_0-2 7/14/2021		SBWW-22 SBWW-22_4-6 7/14/2021		SBWW-22 SBWW-22_6-8 7/14/2021		SBWW-22A SBWW-22A_0-2 7/22/2021		SBWW-22A SBWW-22A_5.5-7.5 7/22/2021		SBWW-22B SBWW-22B_0-2 7/22/2021		SBWW-22B SBWW-22B_2-4 7/22/2021		SBWW-22B SBWW-22B_2-4-DUP 7/22/2021		
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result
Bromomethane	30	0.038		mg/kg	0.28	U	0.0047	U	0.0055	U	15	U	0.32	U	0.0056	U	0.6	U	1.3	U	1.3	U	3.7	U	
Carbon Disulfide	3500	4.8		mg/kg	0.28	U	0.0047	U	0.0021	J	15	U	0.32	U	0.021	U	0.6	U	1.3	U	1.3	U	3.7	U	
Carbon Tetrachloride	2.9	0.0036	0.038	mg/kg	0.28	U	0.0047	U	0.0055	U	15	U	0.32	U	0.0056	U	0.6	U	1.3	U	1.3	U	3.7	U	
Chlorobenzene	1300	1.06	1.36	mg/kg	0.28	U	0.012		0.0011	J	660		10		0.095		22		8.1		6	J	25	J	
Chloroethane	23000	48		mg/kg	0.28	U	0.0047	U	0.0055	U	15	U	0.32	U	0.0056	U	0.6	U	1.3	U	1.3	U	3.7	U	
Chloroform	1.4	0.00122	0.44	mg/kg	0.28	U	0.076		0.0055	U	3.6	J	0.17	J	0.0056	U	0.6	U	1.3	U	1.3	U	3.7	U	
Chloromethane	460	0.98		mg/kg	0.28	U	0.0047	U	0.0055	U	15	U	0.32	U	0.0056	U	0.6	U	1.3	U	1.3	U	3.7	U	
cis-1,2-Dichloroethene	2300	0.22	0.42	mg/kg	0.28	U	0.0045	J	0.0012	J	32		1.3		0.0046	J	1.7		1.2	J	0.2	J	0.84	J	
cis-1,3-Dichloropropene				mg/kg	0.28	U	0.0047	U	0.0055	U	15	U	0.32	U	0.0056	U	0.6	U	1.3	U	1.3	U	3.7	U	
Cyclohexane	27000	260		mg/kg	0.28	U	0.0015	J	0.0055	U	15	U	0.32	U	0.0056	U	0.6	U	1.3	U	1.3	U	3.7	U	
Dibromochloromethane	39	0.0046	0.42	mg/kg	0.28	U	0.0047	U	0.0055	U	15	U	0.32	U	0.0056	U	0.6	U	1.3	U	1.3	U	3.7	U	
Dichlorodifluoromethane	370	6		mg/kg	0.28	U	0.0047	U	0.0055	U	15	U	0.32	U	0.0056	U	0.6	U	1.3	U	1.3	U	3.7	U	
Diethyl Ether	230000	17.6		mg/kg	0.079	J	6.7		0.0055	U	15	U	0.32	U	0.0056	U	0.6	U	1.3	U	1.3	U	3.7	U	
Ethylbenzene	25	0.034	15.6	mg/kg	0.19	J	0.00054	J	0.0055	U	15	U	0.32	U	0.0056	U	0.6	U	1.3	U	1.3	U	3.7	U	
Isopropylbenzene	9900	14.8		mg/kg	0.28	U	0.0047	U	0.0055	U	15	U	0.32	U	0.0056	U	0.054	J	1.3	U	1.3	U	3.7	U	
m&p-Xylenes				mg/kg	0.88		0.0047	U	0.0055	U	15	U	0.32	U	0.0056	U	0.6	U	1.3	U	1.3	U	3.7	U	
Methyl Acetate	1200000	82		mg/kg	0.083	J	0.0047	U	0.0055	U	15	U	0.32	U	0.0056	U	0.6	U	1.3	U	0.54	J	0.78	J	
Methyl Tert-Butyl Ether	210	0.064		mg/kg	0.28	U	0.0047	U	0.0055	U	15	U	0.32	U	0.0056	U	0.6	U	1.3	U	1.3	U	3.7	U	
Methylcyclohexane				mg/kg	0.28	U	0.0047	U	0.0055	U	15	U	0.32	U	0.0056	U	0.6	U	1.3	U	1.3	U	3.7	U	
Methylene Chloride	1000	0.058	0.026	mg/kg	0.28	U	0.081		0.0026	J	6	J	0.52		0.0023	J	0.6	U	1.1	J	1.3	U	1.5	J	
o-Xylene	2800	3.8		mg/kg	0.45		0.0011	J	0.0055	U	15	U	0.32	U	0.0056	U	0.6	U	1.3	U	1.3	U	3.7	U	
Styrene	35000	26	2.2	mg/kg	0.28	U	0.0047	U	0.0055	U	15	U	0.32	U	0.0056	U	0.6	U	1.3	U	1.3	U	3.7	U	
Tetrachloroethene	100	0.102	0.046	mg/kg	0.029	J	0.1		2.6		8600		59		0.031		500	J	2300	J	530	J	6200	J	
Toluene	47000	15.2	13.8	mg/kg	0.034	J	0.0014	J	0.0055	U	35		0.34		0.0035	J	0.46	J	3.5		3.3	J	22	J	
Total Xylenes	2500	3.8	198	mg/kg	1.3		0.0094	U	0.011	U	30	U	0.64	U	0.011	U	1.2	U	2.6	U	2.6	U	7.4	U	
trans-1,2-Dichloroethene	300	0.42	0.62	mg/kg	0.28	U	0.0047	U	0.0055	U	15	U	0.32	U	0.00096	J	0.6	U	1.3	U	1.3	U	3.7	U	
trans-1,3-Dichloropropene				mg/kg	0.28	U	0.0047	U	0.0055	U	15	U	0.32	U	0.0056	U	0.6	U	1.3	U	1.3	U	3.7	U	
Trichloroethene	6	0.0036	0.036	mg/kg	0.28	U	0.0054		0.0027	J	34		3.4		0.0024	J	0.49	J	10		4.2	J	31	J	
Trichlorofluoromethane	350000	66		mg/kg	0.28	U	0.0047	U	0.0055	U	15	U	0.32	U	0.0056	U	0.6	U	1.3	U	1.3	U	3.7	U	
Vinyl Chloride	1.7	0.00013	0.0138	mg/kg	0.28	U	0.0047	U	0.0055	U	15	U	0.32	U	0.0097		0.6	U	1.3	U	1.3	U	3.7	U	
Semi-Volatiles Organic Compounds																									
1,1'-Biphenyl	200	0.174		mg/kg	0.17		0.043	U	0.038	UJ	0.24	J	0.047	UJ	0.026	J	0.029	J	0.17		0.037	J	0.044	U	
1,2,4,5-Tetrachlorobenzene	35	0.0158		mg/kg	0.043	U	0.043	U	0.038	UJ	0.56	J	0.064	J	0.043	U	0.045	U	1.6		0.11	J	0.053	J	
2,2'-Oxybis(1-Chloropropane)	47000	5.2		mg/kg	0.051	U	0.051	U	0.045	UJ	0.082	UJ	0.055	UJ	0.051	U	0.053	U	0.054	U	0.052	U	0.052	U	
2,3,4,6-Tetrachlorophenol	25000	3.6		mg/kg	0.2	U	0.2	U	0.17	UJ	0.32	UJ	0.21	UJ	0.2	U	0.2	U	0.21	U	0.2	U	0.2	U	
2,4,5-Trichlorophenol	82000	80		mg/kg	0.043	U	0.043	U	0.069	J	0.069	UJ	0.047	UJ	0.043	U	0.045	U	0.046	U	0.044	U	0.044	U	
2,4,6-Trichlorophenol	210	0.08		mg/kg	0.36		0.038	J	0.038	UJ	0.14	J	0.069	J	0.043	U	0.045	U	0.046	U	0.028	J	0.044	U	
2,4-Dichlorophenol	2500	0.46		mg/kg	1		0.051	U	0.045	UJ	0.14	J	0.043	J	0.051	U	0.053	U	0.19		0.037	J	0.046	J	
2,4-Dimethylphenol	16000	8.4		mg/kg	0.043	U	0.043	U	0.038	UJ	0.038	J	0.047	UJ	0.043	U	0.045	U	0.046	U	0.044	U	0.044	U	
2,4-Dinitrophenol	1600	0.88		mg/kg	1.2	U	1.2	U	1	UJ	1.9	UJ	1.3	UJ	1.2	U	1.2	U	1.3	U	1.2	U	1.2	U	
2,4-Dinitrotoluene	7.4	0.0064		mg/kg	0.2	U	0.2	U	0.17	UJ	0.32	UJ	0.21	UJ	0.2	U	0.2	U	0.21	U	0.2	U	0.2	U	
2,6-Dinitrotoluene	1.5	0.00134		mg/kg	0.043	U	0.043	U	0.038	UJ	0.069	UJ	0.047	UJ	0.043	U	0.045	U	0.046	U	0.044	U	0.044	U	
2-Chloronaphthalene	60000	78		mg/kg	0.039	U	0.039	U	0.034	UJ	0.063	UJ	0.043	UJ	0.039	U	0.041	U	0.042	U	0.04	U	0.04	U	
2-Chlorophenol	5800	1.78		mg/kg	0.043	U	0.043	U	0.038	UJ	0.034	J	0.047	UJ	0.043	U	0.058		0.072		0.022	J	0.044	U	
2-Methylnaphthalene	3000	3.8		mg/kg	0.45		0.02	U	0.057	J	0.77	J	0.021	J	0.03		0.19		1		0.2	J	0.11	J	
2-Methylphenol	41000	15		mg/kg	0.059	U	0.059	U	0.052	UJ	0.095	UJ	0.064	UJ	0.059	U	0.061	U	0.063	U	0.06	U	0.06	U	
2-Nitroaniline	8000	1.6		mg/kg	0.059	U	0.059	U	0.052	UJ	0.095	UJ	0.064	UJ	0.059	U	0.061	U	0.063	U	0.06	U	0.06	U	
2-Nitrophenol				mg/kg	0.059	U	0.059	U	0.052	UJ	0.095	UJ	0.064	UJ	0.059	U	0.061	U	0.063	U	0.06	U	0.06	U	
3,3'-Dichlorobenzidine	5.1	0.0164		mg/kg	0.2	U	0.2	U	0.17	UJ	0.32	UJ	0.21	UJ	0.2	U	0.2	U	0.21	U	0.2	U	0.2	U	
3-Nitroaniline				mg/kg	0.2	U	0.2	U	0.17	UJ	0.32	UJ	0.21	UJ	0.2	U	0.2	U	0.21	U	0.2	U	0.2	U	
4,6-Dinitro-2-Methylphenol	66	0.052		mg/kg	0.59	U	0.59	U	0.52	UJ	0.95	UJ	0.64	UJ	0.59	U	0.61	U	0.63	U	0.6	U	0.6	U	
4-Bromophenyl Phenyl Ether				mg/kg	0.043	U	0.043	U	0.038	UJ	0.069	UJ	0.047	UJ	0.043	U	0.045	U	0.046	U	0.044	U	0.044	U	
4-Chloro-3-Methylphenol	82000	34		mg/kg	0.059	U	0.059	U	0.052	UJ	0.095	UJ	0.064	UJ	0.059	U	0.061	U	0.063	U	0.06	U	0.06	U	
4-Chloroaniline	11	0.0032		mg/kg	0.2	U	0.2	U	0.17	UJ	0.32	UJ	0.21	UJ	0.2	U	0.2	U	0.21	U	0.2	U	0.2	U	
4-Chlorophenyl Phenyl Ether				mg/kg	0.043	U	0.043	U	0.038	UJ	0.069	UJ	0.047	UJ	0.043	U	0.045	U	0.046	U	0.044	U	0.044	U	
4-Methylphenol	16000	6		mg/kg	0.059	U	0.059	U	0.052	UJ	0.18	J	0.064	UJ	0.059	U	0.061	U	0.063	U	0.051	J	0.06	U	
4-Nitroaniline	110	0.032		mg/kg	0.2	U	0.2	U	0.17	UJ	0.32	UJ	0.21	UJ	0.2	U	0.2	U	0.21	U	0.2	U	0.2	U	
4-Nitrophenol				mg/kg	0.59	U	0.59	U	0.52	UJ	0.95	UJ	0.64	UJ	0.59	U	0.61	U	0.63	U	0.6	U	0.6	U	
Acenaphthene	45000	110		mg/kg	1.4		0.02	U	0.017	UJ	0.032	UJ	0.021	UJ	0.15		0.66		0.19		0.042	J	0.02	UJ	
Acenaphthylene				mg/kg	0.35		0.02	U	0.017	UJ	0.032	UJ	0.021	UJ	0.023	U	0.02	U	0.021	U	0.02	U	0.02	U	
Acetophenone	120000																								

Table 19. Wastewater Soil Analytical Results
RCRA Facility Investigation Report
Honeywell Delaware Valley Works
Claymont, Delaware
Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date			SBWW-21 SBWW-21_0-2 7/15/2021		SBWW-21 SBWW-21_8-10 7/15/2021		SBWW-22 SBWW-22_0-2 7/14/2021		SBWW-22 SBWW-22_4-6 7/14/2021		SBWW-22 SBWW-22_6-8 7/14/2021		SBWW-22A SBWW-22A_0-2 7/22/2021		SBWW-22A SBWW-22A_5.5-7.5 7/22/2021		SBWW-22B SBWW-22B_0-2 7/22/2021		SBWW-22B SBWW-22B_2-4 7/22/2021		SBWW-22B SBWW-22B_2-4-DUP 7/22/2021			
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	
Butylbenzyl Phthalate	1200	4.8		mg/kg	0.26		U	0.2	U	0.17	UJ	0.32	UJ	0.21	UJ	0.2	U	0.21	U	0.2	U	0.2	U	0.2	U
Caprolactam	400000	50		mg/kg	0.2	U		0.2	U	0.17	UJ	0.32	UJ	0.21	UJ	0.2	U	0.2	U	0.21	U	0.2	U	0.2	U
Carbazole				mg/kg	2.6			0.043	U	0.038	UJ	0.069	UJ	0.047	UJ	0.03	J	0.037	J	0.046	U	0.03	J	0.023	J
Chrysene	2100	180		mg/kg	5.9		U	0.02	U	0.17	J	0.36	J	0.021	UJ	0.09		1.5		0.64		0.12		0.1	
Dibenzo(a,h)Anthracene	2.1	1.92		mg/kg	1		U	0.02	U	0.021	J	0.061	J	0.021	UJ	0.02	U	0.12		0.12		0.02	U	0.02	U
Dibenzofuran	1200	3		mg/kg	1.7			0.043	U	0.022	J	0.069	UJ	0.047	UJ	0.11		0.11		0.18		0.045		0.044	U
Diethyl Phthalate	660000	122		mg/kg	0.2	U		0.2	U	0.17	UJ	0.32	UJ	0.21	UJ	0.2	U	0.2	U	0.21	U	0.2	U	0.2	U
Dimethyl Phthalate				mg/kg	0.2	U		0.2	U	0.17	UJ	0.32	UJ	0.21	UJ	0.2	U	0.2	U	0.21	U	0.2	U	0.2	U
Di-n-Butyl Phthalate	82000	46		mg/kg	0.2	U		0.2	U	0.17	UJ	0.32	UJ	0.21	UJ	0.2	U	0.2	U	0.21	U	0.2	U	0.2	U
Di-n-Octyl Phthalate	8200	1140		mg/kg	0.2	U		0.2	U	0.17	UJ	0.32	UJ	0.21	UJ	0.2	U	0.2	U	0.21	U	0.2	U	0.2	U
Fluoranthene	30000	1780		mg/kg	15		U	0.02	U	0.17	J	0.24	J	0.011	J	0.15		2		0.87		0.11		0.13	
Fluorene	30000	108		mg/kg	2.6		U	0.02	U	0.017	UJ	0.12	J	0.021	UJ	0.18		0.61		0.14		0.071	J	0.039	J
Hexachlorobenzene	0.96	0.0024	0.26	mg/kg	0.02	U		0.02	U	2.8	J	44	J	2.3	J	0.018	J	0.26		1.5		0.27		0.17	
Hexachlorobutadiene	5.3	0.0054		mg/kg	0.059	U		0.059	U	0.065	J	23	J	2.1	J	0.059	U	0.096		0.063	U	0.06	U	0.06	U
Hexachlorocyclopentadiene	7.5	0.026	3.2	mg/kg	0.59	U		0.59	U	0.52	UJ	0.95	UJ	0.64	R	0.59	U	0.61	U	0.63	U	0.6	U	0.6	U
Hexachloroethane	8	0.004		mg/kg	0.2	U		0.2	U	0.17	UJ	0.32	UJ	0.25	J	0.2	U	0.2	U	0.21	U	0.2	U	0.2	U
Indeno(1,2,3-Cd)Pyrene	21	19.6		mg/kg	3.1		U	0.02	U	0.081	J	0.12	J	0.021	UJ	0.067		0.2		0.24		0.036		0.033	
Isophorone	2400	0.52		mg/kg	0.079	U		0.079	U	0.069	UJ	0.13	UJ	0.085	UJ	0.078	U	0.082	U	0.084	U	0.081	U	0.08	U
Naphthalene	8.6	0.0076		mg/kg	0.44			0.029		0.28	J	4.1	J	0.28	J	0.037		0.077		0.89		0.44	J	0.24	J
Nitrobenzene	22	0.00184		mg/kg	0.043	U		0.043	U	0.038	UJ	0.069	UJ	0.047	UJ	0.043	U	0.045	U	0.046	U	0.044	U	0.044	U
n-Nitroso-di-n-Propylamine	0.33	0.000162		mg/kg	0.079	U		0.079	U	0.069	UJ	0.13	UJ	0.085	UJ	0.078	U	0.082	U	0.084	U	0.081	U	0.08	U
n-Nitrosodiphenylamine	470	1.34		mg/kg	0.043	U		0.043	U	0.038	UJ	0.069	UJ	0.047	UJ	0.043	U	0.045	U	0.046	U	0.044	U	0.044	U
Pentachlorophenol	4	0.00114	0.028	mg/kg	0.2	U		0.2	U	0.17	UJ	0.32	UJ	0.21	UJ	0.2	U	0.2	U	0.21	U	0.2	U	0.2	U
Phenanthrene				mg/kg	18			0.02	U	0.12	J	0.61	J	0.034	J	0.1		4.7		0.9		0.23		0.18	
Phenol	250000	66		mg/kg	0.043	U		0.043	U	0.6	J	2.2	J	0.54	J	0.043	U	0.045	U	0.046	U	0.47	J	0.24	J
Pyrene	23000	260		mg/kg	11			0.02	U	0.18	J	0.22	J	0.0056	J	0.096		2.9		0.82		0.076		0.073	

Notes:
Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), Industrial Soil Screening Level (SSL) (November 2021)
Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20
Exceeds the EPA RSL, Maximum Contaminant Level (MCL) SSL assuming a DAF of 20
Blanks indicate RSL not established or constituent not analyzed
RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0
U = undetected
J = estimated value
J+ = estimated biased high
J- = estimated biased low
R = rejected
MG/KG - milligram per kilogram
SWMU = Solid Waste Management Unit
RCRA = Resource Conservation and Recovery Act
Sample depth shown in Sample ID (e.g., SBBF3-04_6-8 indicates 6 to 8-foot sample)
DUP = Duplicate sample
Exceedances shown may exceed one or more criteria if available

Table 19. Wastewater Soil Analytical Results
RCRA Facility Investigation Report
Honeywell Delaware Valley Works
Claymont, Delaware
Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date			Units	SBWW-22C SBWW-22C_0-2 7/22/2021		SBWW-22C SBWW-22C_2-4 7/22/2021		SBWW-22D SBWW-22D_0-2 7/27/2021		SBWW-22D SBWW-22D_6-8 7/27/2021		SBWW-22E SBWW-22E_0-2 7/27/2021		SBWW-22E SBWW-22E_2-4 7/27/2021		SBWW-22F SBWW-22F_0-2 7/27/2021		SBWW-22F SBWW-22F_5.5-7.5 7/27/2021		SBWW-22F SBWW-22F_5.5-7.5-DUP 7/27/2021		SBWW-22G SBWW-22G_0-2 7/27/2021												
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20		Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual									
Metals																																			
Aluminum	110000	60000		mg/kg	14000			11000			14000			25000			12000			19000			4000			22000			15000			15000			
Antimony	470	7	5.4	mg/kg	13			5.1	UJ		5.6	U		4.9	U		4.1	J		5.5	U		4.3	U		4.1	U		4.6	U		5.4	U		
Arsenic	3	0.03	5.8	mg/kg	18			5.2			7.6			1.9	J		5.8			5			2.6	U		10			7.2			6.9			
Barium	220000	3200	1640	mg/kg	220			70	J+		220			81			39			30			30			78			53			54			
Beryllium	2300	380	64	mg/kg	0.53	J		0.51			0.46	J		0.57			0.26	J		0.17	J		0.12	J		0.63			0.83			0.26	J		
Cadmium	100	2.8	7.6	mg/kg	3.1			0.27	J		1.2			0.49	U		1.4			0.42	J		0.11	J		0.25	J		0.46	U		0.57			
Calcium				mg/kg	5100			7800	J		20000			530			41000			850			1600			730			750			4100			
Chromium			3600000	mg/kg	39			20			69			33			36			32			6.1			33			31			26			
Cobalt	350	5.4		mg/kg	10			5.1			8.6			3.9			4.8			4			2.1			7.8			4.8			6			
Copper	47000	560	920	mg/kg	160			28	J		40			13			30			8.7			3.4			12			8.6			16			
Iron	820000	7000		mg/kg	66000			18000			29000			12000			25000			23000			5000			20000			18000			23000			
Lead	800		280	mg/kg	5700			67	J		320			13			70			14			8.1			15	J		8.1	J		17			
Magnesium				mg/kg	3300			1900			12000			3100			19000			2900			840			3500			3100			2800			
Manganese	26000	560		mg/kg	270			140	J		290			51			180			76			100			120			110			150			
Nickel	22000	520		mg/kg	31			12			110			12			15			9.8			3.6			16			11			10			
Potassium				mg/kg	3000			1700	J+		2400			8100			1700			2000			830			6700			6400			5600			
Selenium	5800	10.4	5.2	mg/kg	3.5	J		5.1	U		5.6	U		4.9	U		4.9	U		5.5	U		4.3	U		4.1	U		4.6	U		5.4	U		
Silver	5800	16		mg/kg	0.89	J		1	U		1.1	U		0.97	U		0.98	U		1.1	U		0.86	U		0.83	U		0.92	U		1.1	U		
Sodium				mg/kg	550			250			120			560			230			310			86	U		560			430			180			
Thallium	12	0.28	2.8	mg/kg	2.1	J		3.1	U		3.4	U		2.9	U		2.9	U		3.3	U		2.6	U		2.8	U		2.8	U		3.2	U		
Vanadium	5800	1720		mg/kg	44			25			40			28			29			39			7.2			51			41			38			
Zinc	350000	7400		mg/kg	540			47			120			26			220			26			12			34			30			26			
Mercury	46	0.66	2	mg/kg	2.6			0.87			0.46			0.038	J		2			0.067	U		0.03	J		0.049	J		0.069	U		0.036	J		
Pesticides																																			
4,4'-DDD	9.6	0.15		mg/kg	44			9			5.8			0.021			0.71			0.55			0.21			0.2	J		0.41	J		0.0078	U		
4,4'-DDE	9.3	0.22		mg/kg	12			0.12	J-		12			0.0085			4.8			0.13			0.74			0.025	J		0.0078	U		0.0078	U		
4,4'-DDT	8.5	1.54		mg/kg	73			0.2			57	J-		0.14			6.6			0.27			0.53			0.042	J		0.072	J		0.013			
Aldrin	0.18	0.003		mg/kg	0.0074	U		0.0079	U		0.037	U		0.0079	U		0.039	U		0.0078	U		0.0082	U		0.0078	U		0.0078	U		0.0078	U		
Alpha-BHC	0.36	0.0084		mg/kg	15			1.4			0.65			0.0079	U		1.5			0.073			0.014			0.012			0.0091			0.0078	U		
Beta-BHC	1.3	0.003		mg/kg	42			1.8			25			0.41			1.5			0.026			0.024	J		0.06			0.078			0.018			
cis-Chlordane	500	9.8		mg/kg	0.0074	U		0.0079	U		0.037	U		0.0079	U		0.039	U		0.0078	U		0.0082	U		0.0078	U		0.0078	U		0.0078	U		
Delta-BHC				mg/kg	0.72			7.6			0.56			0.0079	U		0.039	U		0.0085	U		0.0082	U		0.0078	U		0.0078	U		0.0078	U		
Dieldrin	0.14	0.00142		mg/kg	0.0074	U		0.0079	U		0.037	U		0.0079	U		0.039	U		0.0078	U		0.0082	U		0.0078	U		0.0078	U		0.0078	U		
Endosulfan I				mg/kg	0.0074	U		0.0079	U		0.037	U		0.0079	U		0.039	U		0.0078	U		0.0082	U		0.0078	U		0.0078	U		0.0078	U		
Endosulfan II				mg/kg	0.0074	U		0.0079	U		0.037	U		0.0079	U		0.039	U		0.0078	U		0.0082	U		0.0078	U		0.0078	U		0.0078	U		
Endosulfan Sulfate	4900	42		mg/kg	0.0074	U		0.0079	U		0.037	U		0.0079	U		0.039	UJ		0.0078	U		0.0082	U		0.0078	U		0.0078	U		0.0078	U		
Endrin	250	1.84	1.62	mg/kg	0.0074	U		0.0079	U		0.037	U		0.0079	U		0.039	U		0.0078	U		0.0082	U		0.0078	U		0.0078	U		0.0078	U		
Endrin Aldehyde				mg/kg	0.0074	UJ		0.0079	UJ		0.037	U		0.0079	U		0.039	UJ		0.0078	U		0.0082	U		0.0078	U		0.0078	U		0.0078	U		
Endrin Ketone				mg/kg	0.0074	U		0.0079	U		0.037	U		0.0079	U		0.039	U		0.0078	U		0.0082	U		0.0078	U		0.0078	U		0.0078	U		
Gamma-BHC (Lindane)	2.5	0.0048	0.024	mg/kg	0.054			0.13	J+		0.17			0.0079	U		0.093			0.0078	U		0.0082	U		0.0078	U		0.0078	U		0.0078	U		
Heptachlor	0.63	0.0024	0.66	mg/kg	0.0074	U		0.0079	U		0.037	U		0.0079	U		0.039	U		0.0078	U		0.0082	U		0.0078	U		0.0078	U		0.0078	U		
Heptachlor Epoxide	0.33	0.00056	0.082	mg/kg	0.0074	U		0.0079	U		0.037	U		0.0079	U		0.039	U		0.0078	U		0.0082	U		0.0078	U		0.0078	U		0.0078	U		
Methoxychlor	4100	40	44	mg/kg	0.014	UJ		0.015	UJ		0.073	U		0.015	U		0.076	U		0.015	U		0.016	U		0.015	U		0.015	U		0.015	U		
Toxaphene	2.1	0.22	9.2	mg/kg	0.19	U		0.2	U		0.95	U		0.2	U		1	U		0.2	U		0.21	U		0.2	U		0.2	U		0.2	U		
trans-Chlordane	500	28		mg/kg	0.0074	U		0.0079	U		0.037	U		0.0079	U		0.039	U		0.0078	U		0.0082	U		0.0078	U		0.0078	U		0.0078	U		
Volatiles Organics Compounds																																			
1,1,1-Trichloroethane	36000	56	1.4	mg/kg	0.86	U		1.3	U		0.34	U		0.0054	U		0.0052	U		1.1	U		0.32	U		0.57	U		0.33	U		0.0045	U		
1,1,2,2-Tetrachloroethane	2.7	0.0006		mg/kg	0.86	U		1.3	U		0.34	U		0.0054	U		0.0052	U		1.1	U		0.32	U		0.57	U		0.33	U		0.0045	U		
1,1,2-Trichloro-1,2,2-Trifluoroethane	28000	520		mg/kg	30			78	J		2.3			0.042			0.37	J-		290	J		78	J		4200	J		140	J		0.077			
1,1,2-Trichloroethane	5	0.00178	0.032	mg/kg	0.86	U		1.3	U		0.34	U		0.0054	U		0.0021	J		1.1	U		0.32	U		0.57	U		0.33	U		0.0045	U		
1,1-Dichloroethane	16	0.0156		mg/kg	0.86	U		1.3	U		0.34	U		0.0054	U		0.0052	U		1.1	U		0.32	U		0.57	U		0.33	U		0.0045	U		
1,1-Dichloroethene	1000	2	0.05	mg/kg	0.86	U		1.3	U		0.34	U		0.0054	U		0.017			4.7			0.32			7.2	J		0.68	J		0.0045	U		
1,2,3-Trichlorobenzene	930																																		

Table 19. Wastewater Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date				SBWW-22C SBWW-22C_0-2 7/22/2021		SBWW-22C SBWW-22C_2-4 7/22/2021		SBWW-22D SBWW-22D_0-2 7/27/2021		SBWW-22D SBWW-22D_6-8 7/27/2021		SBWW-22E SBWW-22E_0-2 7/27/2021		SBWW-22E SBWW-22E_2-4 7/27/2021		SBWW-22F SBWW-22F_0-2 7/27/2021		SBWW-22F SBWW-22F_5.5-7.5 7/27/2021		SBWW-22F SBWW-22F_5.5-7.5-DUP 7/27/2021		SBWW-22G SBWW-22G_0-2 7/27/2021			
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual		
Bromomethane	30	0.038		mg/kg	0.86	U		U	0.34	U	0.0054	U	0.0052	U	1.1	U	0.32	U	0.57	U	0.33	U	0.0045	U		
Carbon Disulfide	3500	4.8		mg/kg	0.86	U		U	1.3	U	0.34	U	0.0014	J	1.1	U	0.15	J+	0.57	U	0.33	U	0.00072	J		
Carbon Tetrachloride	2.9	0.0036	0.038	mg/kg	0.86	U		U	1.3	U	0.34	U	0.0054	U	1.1	U	0.32	U	0.57	U	0.33	U	0.0045	U		
Chlorobenzene	1300	1.06	1.36	mg/kg	1.9				0.73		0.042		0.0052	U	0.2	J	0.49		4.1	J	0.42	J	0.014			
Chloroethane	23000	48		mg/kg	0.86	U		U	1.3	U	0.34	U	0.0054	U	1.1	U	0.32	U	0.57	U	0.33	U	0.0045	U		
Chloroform	1.4	0.00122	0.44	mg/kg	0.86	U		U	1.3	U	0.34	U	0.0054	U	1.1	U	0.32	U	0.57	U	0.33	U	0.0045	U		
Chloromethane	460	0.98		mg/kg	0.86	U		U	1.3	U	0.34	U	0.0054	U	1.1	U	0.32	U	0.57	U	0.33	U	0.0045	U		
cis-1,2-Dichloroethene	2300	0.22	0.42	mg/kg	0.74	J		J	0.78		6.9		0.18		8.6		1.3		0.53	J	0.15	J	0.0026	J		
cis-1,3-Dichloropropene				mg/kg	0.86	U		U	1.3	U	0.34	U	0.0054	U	1.1	U	0.32	U	0.57	U	0.33	U	0.0045	U		
Cyclohexane	27000	260		mg/kg	0.86	U		U	1.3	U	0.34	U	0.0054	U	0.0012	J	0.78	J	0.32	U	0.57	U	0.0045	U		
Dibromochloromethane	39	0.0046	0.42	mg/kg	0.86	U		U	1.3	U	0.34	U	0.0054	U	1.1	U	0.32	U	0.57	U	0.33	U	0.0045	U		
Dichlorodifluoromethane	370	6		mg/kg	0.86	U		U	1.3	U	0.34	U	0.0054	U	1.1	U	0.32	U	0.57	U	0.33	U	0.0045	U		
Diethyl Ether	230000	17.6		mg/kg	0.86	U		U	1.3	U	0.34	U	0.0054	U	1.1	U	0.32	U	0.57	U	0.33	U	0.00095	J		
Ethylbenzene	25	0.034	15.6	mg/kg	0.86	U		J	0.34	U	0.0054	U	0.0052	U	1.1	U	0.32	U	0.57	U	0.33	U	0.0045	U		
Isopropylbenzene	9900	14.8		mg/kg	0.86	U		J	0.25	J	0.34	U	0.0054	U	1.1	U	0.32	U	0.074	J	0.33	U	0.0045	U		
m&p-Xylenes				mg/kg	0.86	U		J	0.41	J	0.34	U	0.0054	U	0.24	J	0.32	U	0.17	J	0.33	U	0.0045	U		
Methyl Acetate	1200000	82		mg/kg	0.86	U		U	1.3	U	0.34	U	0.0054	U	1.1	U	0.65		0.57	U	0.13	J	0.0014	J		
Methyl Tert-Butyl Ether	210	0.064		mg/kg	0.86	U		U	1.3	U	0.34	U	0.0054	U	1.1	U	0.32	U	0.57	U	0.33	U	0.0045	U		
Methylcyclohexane				mg/kg	0.86	U		U	1.3	U	0.34	U	0.0054	U	1.1	U	0.32	U	0.57	U	0.33	U	0.0045	U		
Methylene Chloride	1000	0.058	0.026	mg/kg	1.5			U	1.3	U	0.34	U	0.0054	U	1.1	U	0.32	U	0.57	U	0.33	U	0.0045	U		
o-Xylene	2800	3.8		mg/kg	0.86	U		J	0.17	J	0.34	U	0.0054	U	1.1	U	0.32	U	0.056	J	0.33	U	0.0045	U		
Styrene	35000	26	2.2	mg/kg	0.86	U		U	1.3	U	0.34	U	0.0054	U	1.1	U	0.32	U	0.57	U	0.33	U	0.0045	U		
Tetrachloroethene	100	0.102	0.046	mg/kg	610	J		J	2600	J	55	J	0.13		1400	J	98	J	1700	J	150	J	0.012			
Toluene	47000	15.2	13.8	mg/kg	0.86	U		U	2.2		0.34	U	0.0011	J	0.014		11	J	0.87		11	J	0.0045	U		
Total Xylenes	2500	3.8	198	mg/kg	1.7	U		J	0.58	J	0.67	U	0.011	U	2.2	U	0.64	U	0.23	J	0.66	U	0.009	U		
trans-1,2-Dichloroethene	300	0.42	0.62	mg/kg	0.1	J		U	1.3	U	0.34	U	0.0054	U	1.1	U	0.32	U	0.57	U	0.33	U	0.0045	U		
trans-1,3-Dichloropropene				mg/kg	0.86	U		U	1.3	U	0.34	U	0.0054	U	1.1	U	0.32	U	0.57	U	0.33	U	0.0045	U		
Trichloroethene	6	0.0036	0.036	mg/kg	9.6			J	3.1		3.1		0.0073		0.0064		3.1		1.4		16	J	1.6	J	0.0041	J
Trichlorofluoromethane	350000	66		mg/kg	0.86	U		U	1.3	U	0.34	U	0.0054	U	1.1	U	0.32	U	0.57	U	0.33	U	0.0045	U		
Vinyl Chloride	1.7	0.00013	0.0138	mg/kg	0.86	U		U	1.3	U	0.31	J	0.0066		0.0052	U	1.1	U	0.32	U	0.57	U	0.0012	J		
Semi-Volatiles Organic Compounds																										
1,1'-Biphenyl	200	0.174		mg/kg	0.026	J		J	0.03	J	0.21	U	0.044	U	0.21	U	0.044	U	0.045	U	0.043	U	0.043	U		
1,2,4,5-Tetrachlorobenzene	35	0.0158		mg/kg	0.21			J	0.03	J	0.21	U	0.044	U	0.21	U	0.044	U	0.045	U	0.043	U	0.043	U		
2,2'-Oxybis(1-Chloropropane)	47000	5.2		mg/kg	0.048	U		U	0.051	U	0.24	U	0.052	U	0.25	U	0.051	U	0.053	U	0.05	U	0.051	U		
2,3,4,6-Tetrachlorophenol	25000	3.6		mg/kg	0.18	U		U	0.2	U	0.94	U	0.2	U	0.97	U	0.2	U	0.19	U	0.2	U	0.2	U		
2,4,5-Trichlorophenol	82000	80		mg/kg	0.1			U	0.043	U	0.21	U	0.044	U	0.21	U	0.044	U	0.045	U	0.043	U	0.043	U		
2,4,6-Trichlorophenol	210	0.08		mg/kg	0.04	U		U	0.043	U	0.21	U	0.044	U	0.21	U	0.044	U	0.045	U	0.043	U	0.043	U		
2,4-Dichlorophenol	2500	0.46		mg/kg	0.057			U	0.051	U	0.24	U	0.052	U	0.25	U	0.051	U	0.053	U	0.05	U	0.051	U		
2,4-Dimethylphenol	16000	8.4		mg/kg	0.04	U		U	0.043	U	0.21	U	0.044	U	0.21	U	0.044	U	0.045	U	0.043	U	0.043	U		
2,4-Dinitrophenol	1600	0.88		mg/kg	1.1	U		UJ	1.2	UJ	5.6	U	1.2	U	5.8	UJ	1.2	U	1.2	U	1.2	U	1.2	U		
2,4-Dinitrotoluene	7.4	0.0064		mg/kg	0.18	U		U	0.2	U	0.94	U	0.2	U	0.97	UJ	0.2	U	0.21	U	0.19	U	0.2	U		
2,6-Dinitrotoluene	1.5	0.00134		mg/kg	0.04	U		U	0.043	U	0.21	U	0.044	U	0.21	UJ	0.044	U	0.045	U	0.043	U	0.043	U		
2-Chloronaphthalene	60000	78		mg/kg	0.037	U		U	0.039	U	0.19	U	0.04	U	0.19	U	0.04	U	0.041	U	0.039	U	0.039	U		
2-Chlorophenol	5800	1.78		mg/kg	0.04	U		U	0.043	U	0.21	U	0.044	U	0.21	U	0.044	U	0.045	U	0.043	U	0.043	U		
2-Methylnaphthalene	3000	3.8		mg/kg	0.035			U	0.072	U	0.094	U	0.02	U	0.069	J	0.02	U	0.007	J	0.011	J	0.02	U		
2-Methylphenol	41000	15		mg/kg	0.055	U		U	0.059	U	0.28	U	0.06	U	0.29	U	0.059	U	0.062	U	0.058	U	0.059	U		
2-Nitroaniline	8000	1.6		mg/kg	0.055	U		U	0.059	U	0.28	U	0.06	U	0.29	U	0.059	U	0.062	U	0.058	U	0.059	U		
2-Nitrophenol				mg/kg	0.055	U		U	0.059	U	0.28	U	0.06	U	0.29	UJ	0.059	U	0.062	U	0.058	U	0.059	U		
3,3'-Dichlorobenzidine	5.1	0.0164		mg/kg	0.18	U		U	0.2	U	0.94	U	0.2	U	0.97	U	0.2	U	0.21	U	0.19	U	0.2	U		
3-Nitroaniline				mg/kg	0.18	U		U	0.2	U	0.94	U	0.2	U	0.97	U	0.2	U	0.21	U	0.19	U	0.2	U		
4,6-Dinitro-2-Methylphenol	66	0.052		mg/kg	0.55	U		UJ	0.59	UJ	2.8	U	0.6	U	2.9	R	0.59	U	0.62	U	0.58	U	0.59	U		
4-Bromophenyl Phenyl Ether				mg/kg	0.04	U		U	0.043	U	0.21	U	0.044	U	0.21	U	0.044	U	0.045	U	0.043	U	0.043	U		
4-Chloro-3-Methylphenol	82000	34		mg/kg	0.055	U		U	0.059	U	0.28	U	0.06	U	0.29	U	0.059	U	0.062	U	0.058	U	0.059	U		
4-Chloroaniline	11	0.0032		mg/kg	0.18	U		U	0.2	U	0.94	U	0.2	U	0.97	U	0.2	U	0.21	U	0.19	U	0.2	U		
4-Chlorophenyl Phenyl Ether				mg/kg	0.04	U		U	0.043	U	0.21	U	0.044	U	0.21	U	0.044	U	0.045	U	0.043	U	0.043	U		
4-Methylphenol	16000	6		mg/kg	0.055	U		U	0.059	U	0.28	U	0.06	U	0.29	U	0.059	U	0.062	U	0.058	U	0.059	U		
4-Nitroaniline	110	0.032		mg/kg	0.18	U		U	0.2	U	0.94	U	0.2	U	0.97	U	0.2	U	0.21	U	0.19	U	0.2	U		
4-Nitrophenol				mg/kg	0.55	U		U	0.59	U	2.8	U	0.6	U	2.9	U	0.59	U	0.62	U	0.58	U	0.59	U		
Acenaphthene	45000	110		mg/kg	0.018	U		U	0.04	U	0.094	U	0.02	U	0.14		0.0048	J	0.015	J	0.0096	J	0.0082	J		
Acenaphthylene				mg/kg	0.046			U	0.02	U	0.094	U	0.02	U	0.2		0.02	U	0.021	U	0.019	U	0.02	U		
Acetophenone	120000	11.6		mg/kg	0.055	U		U	0.059	U	0.28	U	0.06	U	0.29	U	0.059	U	0.062	U	0.058	U	0.059	U		
Anthracene	230000	1160		mg/kg	0.11																					

Table 19. Wastewater Soil Analytical Results
RCRA Facility Investigation Report
Honeywell Delaware Valley Works
Claymont, Delaware
Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date			SBWW-22C SBWW-22C_0-2 7/22/2021		SBWW-22C SBWW-22C_2-4 7/22/2021		SBWW-22D SBWW-22D_0-2 7/27/2021		SBWW-22D SBWW-22D_6-8 7/27/2021		SBWW-22E SBWW-22E_0-2 7/27/2021		SBWW-22E SBWW-22E_2-4 7/27/2021		SBWW-22F SBWW-22F_0-2 7/27/2021		SBWW-22F SBWW-22F_5.5-7.5 7/27/2021		SBWW-22F SBWW-22F_5.5-7.5-DUP 7/27/2021		SBWW-22G SBWW-22G_0-2 7/27/2021		
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Butylbenzyl Phthalate	1200	4.8		mg/kg	0.18	U	0.2	U	0.94	U	0.2	U	0.97	U	0.2	U	0.21	U	0.19	U	0.2	U	0.2	U
Caprolactam	400000	50		mg/kg	0.18	U	0.2	U	0.94	U	0.2	U	0.97	U	0.2	U	0.21	U	0.19	U	0.2	U	0.2	U
Carbazole				mg/kg	0.034	J	0.043	U	0.21	U	0.044	U	0.19	J	0.044	U	0.045	U	0.021	J	0.043	U	0.043	U
Chrysene	2100	180		mg/kg	0.39		0.46		0.7		0.02	U	1.3	J-	0.014	J	0.097		0.018	J	0.015	J	0.0048	J
Dibenzo(a,h)Anthracene	2.1	1.92		mg/kg	0.074		0.072		0.22		0.02	U	0.31		0.02	U	0.017	J	0.019	U	0.02	U	0.02	U
Dibenzofuran	1200	3		mg/kg	0.02	J	0.043	U	0.21	U	0.044	U	0.11	J	0.044	U	0.045	U	0.043	U	0.043	U	0.043	U
Diethyl Phthalate	660000	122		mg/kg	0.18	U	0.2	U	0.94	U	0.2	U	0.97	U	0.2	U	0.21	U	0.19	U	0.2	U	0.2	U
Dimethyl Phthalate				mg/kg	0.18	U	0.2	U	0.94	U	0.2	U	0.75	J-	0.2	U	0.21	U	0.19	U	0.2	U	0.2	U
Di-n-Butyl Phthalate	82000	46		mg/kg	0.18	U	0.2	U	0.94	U	0.2	U	0.97	U	0.2	U	0.21	U	0.19	U	0.2	U	0.2	U
Di-n-Octyl Phthalate	8200	1140		mg/kg	0.18	U	0.2	U	0.94	U	0.2	U	0.97	U	0.2	U	0.21	U	0.19	U	0.2	U	0.2	U
Fluoranthene	30000	1780		mg/kg	0.76		1.2	J-	0.97		0.02	U	3.2	J-	0.027		0.16		0.043		0.033		0.0063	J
Fluorene	30000	108		mg/kg	0.025		0.072		0.094	U	0.02	U	0.15		0.0062	J	0.012	J	0.013	J	0.0099	J	0.02	U
Hexachlorobenzene	0.96	0.0024	0.26	mg/kg	8.2		0.036		0.15		0.0083	J	1.4	J-	0.086		0.041		0.019	U	0.0087	J	0.02	U
Hexachlorobutadiene	5.3	0.0054		mg/kg	0.055	U	0.059	U	0.28	U	0.06	U	0.29	U	0.059	U	0.062	U	0.058	U	0.059	U	0.059	U
Hexachlorocyclopentadiene	7.5	0.026	3.2	mg/kg	0.55	U	0.59	R	2.8	U	0.6	U	2.9	R	0.59	U	0.62	U	0.58	U	0.59	U	0.59	U
Hexachloroethane	8	0.004		mg/kg	0.18	U	0.2	U	0.94	U	0.2	U	0.97	UJ	0.2	U	0.21	U	0.19	U	0.2	U	0.2	U
Indeno(1,2,3-Cd)Pyrene	21	19.6		mg/kg	0.2		0.21		0.73		0.02	U	0.9	J-	0.007	J	0.06		0.0052	J	0.02	U	0.02	U
Isophorone	2400	0.52		mg/kg	0.074	U	0.079	U	0.38	U	0.08	U	0.39	U	0.079	U	0.082	U	0.078	U	0.079	U	0.078	U
Naphthalene	8.6	0.0076		mg/kg	0.076		0.1		0.094	U	0.02	U	0.2		0.02	U	0.014	J	0.042		0.023		0.02	U
Nitrobenzene	22	0.00184		mg/kg	0.04	U	0.043	U	0.21	U	0.044	U	0.21	U	0.044	U	0.045	U	0.043	U	0.043	U	0.043	U
n-Nitroso-di-n-Propylamine	0.33	0.000162		mg/kg	0.074	U	0.079	U	0.38	U	0.08	U	0.39	U	0.079	U	0.082	U	0.078	U	0.079	U	0.078	U
n-Nitrosodiphenylamine	470	1.34		mg/kg	0.04	U	0.043	U	0.21	U	0.044	U	0.21	U	0.044	U	0.045	U	0.043	U	0.043	U	0.043	U
Pentachlorophenol	4	0.00114	0.028	mg/kg	0.18	U	0.2	U	0.94	U	0.2	U	0.97	UJ	0.2	U	0.21	U	0.19	U	0.2	U	0.2	U
Phenanthrene				mg/kg	0.36		0.65		0.27		0.012	J	1.9	J-	0.026		0.084		0.061		0.049		0.0057	J
Phenol	250000	66		mg/kg	0.29		0.043	U	0.21	U	0.044	U	0.15	J	0.044	U	0.045	U	0.36		0.3		0.043	U
Pyrene	23000	260		mg/kg	0.56		1.1	J-	0.82		0.02	U	2.5	J-	0.023		0.12		0.027		0.019	J	0.02	U

Notes:
Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), Industrial Soil Screening Level (SSL) (November 2021)
Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20
Exceeds the EPA RSL, Maximum Contaminant Level (MCL) SSL assuming a DAF of 20
Blanks indicate RSL not established or constituent not analyzed
RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0
U = undetected
J = estimated value
J+ = estimated biased high
J- = estimated biased low
R = rejected
MG/KG - milligram per kilogram
SWMU = Solid Waste Management Unit
RCRA = Resource Conservation and Recovery Act
Sample depth shown in Sample ID (e.g., SBBF3-04_6-8 indicates 6 to 8-foot sample)
DUP = Duplicate sample
Exceedances shown may exceed one or more criteria if available

Table 19. Wastewater Soil Analytical Results
RCRA Facility Investigation Report
Honeywell Delaware Valley Works
Claymont, Delaware
Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date			SBWW-22G SBWW-22G_6-8 7/27/2021	SBWW-22H SBWW-22H_0-2 8/5/2021	SBWW-22H SBWW-22H_5-7 8/5/2021	SBWW-22I SBWW-22I_0-2 8/5/2021	SBWW-22I SBWW-22I_6-8 8/5/2021	SBWW-22J SBWW-22J_0-2 8/5/2021	SBWW-22J SBWW-22J_8.5-10.5 8/5/2021	SBWW-23 SBWW-23_0-2 7/15/2021	SBWW-23 SBWW-23_7-9 7/15/2021	SBWW-24 SBWW-24_0-2 7/6/2021											
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual										
Metals																								
Aluminum	110000	60000		mg/kg	32000		13000		22000		27000		16000		18000		23000		7900		2300		11000	
Antimony	470	7	5.4	mg/kg	4.4	U	5.2	U	5.8	U	5.7	U	5.6	U	4.5	U	5.3	U	4.3	U	9.8		2.1	J
Arsenic	3	0.03	5.8	mg/kg	5.1		4.4		6.2		3.8		2.8	J	5.2		4.6		3.5		2.3	J	23	
Barium	220000	3200	1640	mg/kg	74		46		50		57		44		140		87		62		46		1400	
Beryllium	2300	380	64	mg/kg	0.74		0.36	J	0.79		0.54	J	0.42	J	0.88		1.5		0.67		0.44	U	0.26	J
Cadmium	100	2.8	7.6	mg/kg	0.44	U	0.52	U	0.58	U	0.57	U	0.56	U	0.45	U	0.53	U	0.72		0.44	U	1.2	
Calcium				mg/kg	580		2000		510		1300		690		10000		480		27000		1300		5000	
Chromium			3600000	mg/kg	33		16		37		36		25		25		30		24		6.1		26	
Cobalt	350	5.4		mg/kg	4.8		4.4		3.6		4.2		2.8		3.6		7.5		3.3		0.77		7	
Copper	47000	560	920	mg/kg	14		20		11		8.6		7		13		16		53		11		83	
Iron	820000	7000		mg/kg	14000		12000		27000		23000		8600		27000		22000		12000		2500		28000	
Lead	800		280	mg/kg	16		30		9.8		14		7.7		40		16		48		9.5		310	
Magnesium				mg/kg	2600		1600		2800		1900		1600		3300		3700		2600		290		3000	
Manganese	26000	560		mg/kg	29		100		81		66		61		190		86		150		12		160	
Nickel	22000	520		mg/kg	14		6.8		10		8.9		7.6		8.2		22		9.4		3.2		24	
Potassium				mg/kg	4500		1700		3200		4000		2200		2200		1800		890		520		3000	
Selenium	5800	10.4	5.2	mg/kg	4.4	U	5.2	U	5.8	U	5.7	U	5.6	U	4.5	U	5.3	U	4.3	U	4.4	U	6.5	
Silver	5800	16		mg/kg	0.87	U	1	U	0.62	J	0.56	J	1.1	U	0.46	J	0.54	J	0.87	U	0.88	U	1.1	U
Sodium				mg/kg	740		350		1300		510		340		260		640		340		240		250	
Thallium	12	0.28	2.8	mg/kg	2.6	U	3.1	U	3.5	U	3.4	U	3.4	U	2.7	U	3.2	U	1.4	J	2.6	U	3.3	U
Vanadium	5800	1720		mg/kg	41		23		51		47		23		38		63		17		3.8		43	
Zinc	350000	7400		mg/kg	26		31		27		29		21		31		59		210		5.4		600	
Mercury	46	0.66	2	mg/kg	0.11		0.048	J	0.068	U	0.073		0.53		0.22	J	0.032	J	3.3		0.13		3.8	
Pesticides																								
4,4'-DDD	9.6	0.15		mg/kg	9.1		0.8		0.015		0.015		0.26		0.053		0.011		2.2	J	0.0081	UJ	10	
4,4'-DDE	9.3	0.22		mg/kg	3.2		0.86		0.0087	J	0.16		0.34	J	0.035		0.01		1.1	J	0.17		380	
4,4'-DDT	8.5	1.54		mg/kg	120	J-	4.4		0.08		0.057		0.11		1.9		0.22		0.039	UJ	0.0081	UJ	750	
Aldrin	0.18	0.003		mg/kg	0.0082	U	0.017	U	0.0078	U	0.0079	U	0.008	U	0.0079	U	0.0076	U	0.039	U	0.0081	U	0.039	U
Alpha-BHC	0.36	0.00084		mg/kg	4.8		0.056		0.0077	UJ	0.047		0.0081	UJ	0.0079	U	0.0076	U	0.098		0.27		0.081	
Beta-BHC	1.3	0.003		mg/kg	0.0082	U	0.017	U	0.0078	U	0.0079	U	0.012		0.0085	J	0.022		0.85		0.0081	U	0.039	U
cis-Chlordane	500	9.8		mg/kg	0.0082	U	0.017	U	0.0078	U	0.0079	U	0.008	U	0.0079	U	0.0076	U	0.039	U	0.0081	U	0.039	U
Delta-BHC				mg/kg	0.33	J	0.017	U	0.0078	U	0.0079	U	0.008	U	0.0079	U	0.0076	U	0.039	U	0.0081	U	2.8	J
Dieldrin	0.14	0.00142		mg/kg	0.0082	U	0.017	U	0.0078	U	0.0079	U	0.008	U	0.0079	U	0.0076	U	0.039	U	0.0081	U	0.039	U
Endosulfan I				mg/kg	0.0082	U	0.017	U	0.0078	U	0.0079	U	0.008	U	0.0079	U	0.0076	U	0.039	U	0.0081	U	0.039	U
Endosulfan II				mg/kg	0.0082	U	0.017	U	0.0078	U	0.0079	U	0.008	U	0.0079	U	0.0076	U	0.039	U	0.0081	U	0.039	U
Endosulfan Sulfate	4900	42		mg/kg	0.0082	U	0.017	U	0.0078	U	0.0079	U	0.008	U	0.0079	U	0.0076	U	0.039	UJ	0.0081	UJ	0.039	U
Endrin	250	1.84	1.62	mg/kg	0.0082	U	0.017	U	0.0078	U	0.0079	U	0.008	U	0.0079	U	0.0076	U	0.039	UJ	0.0081	UJ	0.039	U
Endrin Aldehyde				mg/kg	0.0082	U	0.017	U	0.0078	U	0.0079	U	0.008	U	0.0079	U	0.0076	U	0.039	UJ	0.0081	UJ	0.039	U
Endrin Ketone				mg/kg	0.0082	U	0.017	U	0.0078	U	0.0079	U	0.008	U	0.0079	U	0.0076	U	0.039	UJ	0.0081	UJ	0.039	U
Gamma-BHC (Lindane)	2.5	0.0048	0.024	mg/kg	0.96		0.017	U	0.0078	U	0.0079	U	0.008	U	0.0079	U	0.0076	U	0.039	U	0.0081	U	0.021	J
Heptachlor	0.63	0.0024	0.66	mg/kg	0.0082	U	0.017	U	0.0078	U	0.0079	U	0.008	U	0.0079	U	0.0076	U	0.039	U	0.0081	U	0.039	U
Heptachlor Epoxide	0.33	0.00056	0.082	mg/kg	0.0082	U	0.017	U	0.0078	U	0.0079	U	0.008	U	0.0079	U	0.0076	U	0.039	U	0.0081	U	0.039	U
Methoxychlor	4100	40	44	mg/kg	0.016	U	0.032	U	0.015	U	0.015	U	0.016	U	0.015	U	0.015	U	0.075	UJ	0.016	UJ	0.075	U
Toxaphene	2.1	0.22	9.2	mg/kg	0.21	U	0.42	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U	0.98	U	0.21	U	0.98	U
trans-Chlordane	500	28		mg/kg	0.0082	U	0.017	U	0.0078	U	0.0079	U	0.008	U	0.0079	U	0.0076	U	0.039	U	0.0081	U	0.039	U
Volatiles Organics Compounds																								
1,1,1-Trichloroethane	36000	56	1.4	mg/kg	1.2	U	0.28	U	0.25	U	0.0046	U	0.59	U	0.0045	U	0.0045	U	0.29	U	0.0043	U	0.0067	U
1,1,2,2-Tetrachloroethane	2.7	0.0006		mg/kg	1.2	U	0.28	U	0.25	U	0.0046	U	0.59	U	0.0045	U	0.0045	U	0.29	U	0.0043	U	0.0067	UJ
1,1,2-Trichloro-1,2,2-Trifluoroethane	28000	520		mg/kg	640	J	0.55	U	0.51	U	0.0092	U	0.12	J	0.0089	U	0.76		0.053	J-	0.012		16	
1,1,2-Trichloroethane	5	0.00178	0.032	mg/kg	1.2	U	0.28	U	0.25	U	0.0046	U	0.59	U	0.0045	U	0.0045	U	0.29	U	0.0043	U	0.0067	U
1,1-Dichloroethane	16	0.0156		mg/kg	1.2	U	0.28	U	0.25	U	0.0046	U	0.59	U	0.0045	U	0.0045	U	0.29	U	0.0043	U	0.0067	U
1,1-Dichloroethene	1000	2	0.05	mg/kg	2.4		0.28	U	0.25	U	0.0046	U	0.59	U	0.0045	U	0.0034	J	0.29	U	0.0043	U	0.0067	U
1,2,3-Trichlorobenzene	930	0.42		mg/kg	2.3	U	0.55	U	0.51	U	0.0092	U	1.2	U	0.0089	U	0.0089	U	0.58	U	0.0086	U	0.013	UJ
1,2,4-Trichlorobenzene	110	0.068	4	mg/kg	2.1	J	0.55	U	0.51	U	0.0092	U	1.2	U	0.0089	U	0.0089	U	1.3		0.0086	U	0.013	UJ
1,2-Dibromo-3-Chloropropane	0.064	0.0000028	0.00172	mg/kg	1.2	U	0.28	U	0.25	U	0.0046	U	0.59	U	0.0045	U	0.0045	U	0.29	U	0.0043	U	0.0067	UJ
1,2-Dibromoethane	0.16	0.000042	0.00028	mg/kg	1.2	U	0.28	U	0.25	U	0.0046	U	0.59	U	0.0045	U	0.0045	U	0.29	U	0.0043	U	0.0067	U
1,2-Dichlorobenzene	9300	6	11.6	mg/kg	2.9		0.067	J	0.25	U	0.0046	U	0.59	U	0.0045	U	0.016		0.085	J	0.00057	J	0.0067	UJ
1,2-Dichloroethane	2	0.00096	0.028	mg/kg	1.2	U	0.28	U	0.25	U	0.0046	U	0.59	U	0.0045	U	0.0045	U	0.29	U	0.0043	U	0.0067	U
1,2-Dichloropropane	11	0.0056	0.034	mg/kg	1.2	U	0.28	U	0.25	U	0.0046	U	0.59	U	0.0045	U	0.0045	U	0.29	U	0.0043	U	0.0067	U
1,3-Dichlorobenzene				mg/kg	1.2	U	0.28	U	0.25	U	0.0046	U	0.59	U	0.0045	U	0.0045	U	0.29	U	0.0043	U	0.0067	UJ
1,4-Dichlorobenzene	11	0.0092	1.44	mg/kg	1.4		0.13	J	0.064	J	0.0046	U	0.59	U	0.0045	U	0.000							

Table 19. Wastewater Soil Analytical Results
RCRA Facility Investigation Report
Honeywell Delaware Valley Works
Claymont, Delaware
Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date				SBWW-22G SBWW-22G_6-8 7/27/2021		SBWW-22H SBWW-22H_0-2 8/5/2021		SBWW-22H SBWW-22H_5-7 8/5/2021		SBWW-22I SBWW-22I_0-2 8/5/2021		SBWW-22I SBWW-22I_6-8 8/5/2021		SBWW-22J SBWW-22J_0-2 8/5/2021		SBWW-22J SBWW-22J_8.5-10.5 8/5/2021		SBWW-23 SBWW-23_0-2 7/15/2021		SBWW-23 SBWW-23_7-9 7/15/2021		SBWW-24 SBWW-24_0-2 7/6/2021	
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Bromomethane	30	0.038		mg/kg	1.2	U	0.28	U	0.25	U	0.0046	U	0.59	U	0.0045	U	0.0045	U	0.29	U	0.0043	U	0.0067	U
Carbon Disulfide	3500	4.8		mg/kg	1.2	U	0.28	U	0.25	U	0.023	J+	0.59	U	0.0082	J+	0.0045	U	0.29	U	0.0037	U	0.0029	J
Carbon Tetrachloride	2.9	0.0036	0.038	mg/kg	12		0.28	U	0.25	U	0.0046	U	0.59	U	0.0045	U	0.0045	U	0.29	U	0.0043	U	0.0067	U
Chlorobenzene	1300	1.06	1.36	mg/kg	250	J	0.51		1.8		0.0022	J	15		0.0068		0.65		0.07	J	0.0046	U	0.0014	J
Chloroethane	23000	48		mg/kg	1.2	U	0.28	U	0.25	U	0.0046	U	0.59	U	0.0045	U	0.0045	U	0.29	U	0.0043	U	0.0067	U
Chloroform	1.4	0.00122	0.44	mg/kg	1.3		0.28	U	0.25	U	0.0046	U	0.59	U	0.0045	U	0.011		0.044	J	0.0021	J	0.024	
Chloromethane	460	0.98		mg/kg	1.2	U	0.28	U	0.25	U	0.0046	U	0.59	U	0.0045	U	0.0045	U	0.29	U	0.0043	U	0.0067	U
cis-1,2-Dichloroethene	2300	0.22	0.42	mg/kg	1.6		0.28	U	0.25	U	0.0058		0.59	U	0.0014	J	0.11		0.29	U	0.0042	J	0.0067	U
cis-1,3-Dichloropropene				mg/kg	1.2	U	0.28	U	0.25	U	0.0046	U	0.59	U	0.0045	U	0.0045	U	0.29	U	0.0043	U	0.0067	U
Cyclohexane	27000	260		mg/kg	1.2	U	0.28	U	0.25	U	0.0046	U	0.59	U	0.00052	J	0.0045	U	0.29	UJ	0.0043	U	0.0067	U
Dibromochloromethane	39	0.0046	0.42	mg/kg	1.2	U	0.28	U	0.25	U	0.0046	U	0.59	U	0.0045	U	0.0045	U	0.29	U	0.0043	U	0.0067	U
Dichlorodifluoromethane	370	6		mg/kg	0.27	J	0.28	U	0.25	U	0.0046	UJ	0.59	U	0.0045	UJ	0.0045	UJ	0.29	UJ	0.004	J	0.0067	U
Diethyl Ether	230000	17.6		mg/kg	1.2	U	0.28	U	0.25	U	0.0046	U	0.59	U	0.0045	U	0.0045	U	0.29	U	0.01		0.0047	J
Ethylbenzene	25	0.034	15.6	mg/kg	1.2	U	0.28	U	0.25	U	0.0046	U	0.59	U	0.0045	U	0.0045	U	0.11	J	0.0043	U	0.0067	U
Isopropylbenzene	9900	14.8		mg/kg	1.2	U	0.28	U	0.25	U	0.0046	U	0.59	U	0.0045	U	0.0045	U	0.29	U	0.0043	U	0.0067	U
m&p-Xylenes				mg/kg	1.2	U	0.28	U	0.25	U	0.0046	U	0.59	U	0.0045	U	0.0045	U	0.8		0.0043	U	0.0067	U
Methyl Acetate	1200000	82		mg/kg	1.2	U	0.28	U	0.25	U	0.017		0.59	U	0.0045	U	0.0045	U	0.3		0.0043	U	0.0067	U
Methyl Tert-Butyl Ether	210	0.064		mg/kg	1.2	U	0.28	U	0.25	U	0.0046	U	0.59	U	0.0045	U	0.0045	U	0.29	U	0.0043	U	0.0067	U
Methylcyclohexane				mg/kg	1.2	U	0.28	U	0.25	U	0.0046	U	0.59	U	0.00072	J	0.0045	U	0.29	U	0.0043	U	0.0067	U
Methylene Chloride	1000	0.058	0.026	mg/kg	2.3		0.28	U	0.25	U	0.0046	U	0.59	U	0.0045	U	0.0045	U	0.29	U	0.027		0.0067	U
o-Xylene	2800	3.8		mg/kg	1.2	U	0.28	U	0.25	U	0.0046	U	0.59	U	0.0045	U	0.0045	U	0.48		0.0043	U	0.0067	U
Styrene	35000	26	2.2	mg/kg	1.2	U	0.28	U	0.25	U	0.0046	U	0.59	U	0.0045	U	0.0045	U	0.29	U	0.0043	U	0.0067	U
Tetrachloroethene	100	0.102	0.046	mg/kg	2400	J	0.28	U	0.59		0.0046	U	0.59	U	0.0045	U	0.071		0.077	J	0.042		0.0025	J
Toluene	47000	15.2	13.8	mg/kg	4.7		0.28	U	0.25	U	0.0029	J	0.59	U	0.0045	U	0.0032	J	1.5		0.00053	J	0.0067	U
Total Xylenes	2500	3.8	198	mg/kg	2.3	U	0.55	U	0.51	U	0.0092	U	1.2	U	0.0089	U	0.0089	U	1.3		0.0086	U	0.013	U
trans-1,2-Dichloroethene	300	0.42	0.62	mg/kg	1.2	U	0.28	U	0.25	U	0.00061	J	0.59	U	0.0045	U	0.0045	U	0.29	U	0.0043	U	0.0067	U
trans-1,3-Dichloropropene				mg/kg	1.2	U	0.28	U	0.25	U	0.0046	U	0.59	U	0.0045	U	0.0045	U	0.29	U	0.0043	U	0.0067	U
Trichloroethene	6	0.0036	0.036	mg/kg	3.2		0.28	U	0.25	U	0.0013	J	0.59	U	0.0045	U	0.0067		0.29	U	0.0091		0.0067	U
Trichlorofluoromethane	350000	66		mg/kg	3.9		0.28	U	0.25	U	0.0046	U	0.59	U	0.0045	U	0.0045	U	0.29	U	0.0043	U	0.0067	U
Vinyl Chloride	1.7	0.00013	0.0138	mg/kg	1.2	U	0.28	U	0.25	U	0.0046	U	0.59	U	0.0028	J	0.024		0.29	U	0.0013	J	0.0067	U
Semi-Volatiles Organic Compounds																								
1,1'-Biphenyl	200	0.174		mg/kg	0.28		0.045	U	0.043	U	0.043	U	0.045	U	0.044	U	0.043	U	0.043	U	1		0.019	J
1,2,4,5-Tetrachlorobenzene	35	0.0158		mg/kg	0.31		0.045	U	0.043	U	0.043	U	0.033	J	0.044	U	0.043	U	0.063		0.45	U	0.037	J
2,2'-Oxybis(1-Chloropropane)	47000	5.2		mg/kg	0.053	U	0.054	U	0.051	UJ	0.051	UJ	0.053	UJ	0.052	UJ	0.051	UJ	0.051	U	0.53	U	0.05	U
2,3,4,6-Tetrachlorophenol	25000	3.6		mg/kg	0.2	U	0.21	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	2.1	U	0.19	U
2,4,5-Trichlorophenol	82000	80		mg/kg	0.045	U	0.045	U	0.043	U	0.043	U	0.045	U	0.044	U	0.043	U	0.043	U	0.45	U	0.042	U
2,4,6-Trichlorophenol	210	0.08		mg/kg	0.035	J	0.045	U	0.043	U	0.043	U	0.045	U	0.044	U	0.043	U	0.043	U	0.27	J	0.042	U
2,4-Dichlorophenol	2500	0.46		mg/kg	0.053	U	0.054	U	0.051	U	0.051	U	0.053	U	0.052	U	0.051	U	0.2		3.8		0.023	J
2,4-Dimethylphenol	16000	8.4		mg/kg	0.045	U	0.03	J	0.043	U	0.043	U	0.045	U	0.044	U	0.043	U	0.043	U	0.45	U	0.042	U
2,4-Dinitrophenol	1600	0.88		mg/kg	1.2	U	1.2	U	1.2	UJ	1.2	UJ	1.2	UJ	1.2	UJ	1.2	UJ	1.2	U	12	U	1.2	U
2,4-Dinitrotoluene	7.4	0.0064		mg/kg	0.2	U	0.21	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	2.1	U	0.19	U
2,6-Dinitrotoluene	1.5	0.00134		mg/kg	0.045	U	0.045	U	0.043	U	0.043	U	0.045	U	0.044	U	0.043	U	0.043	U	0.45	U	0.042	U
2-Chloronaphthalene	60000	78		mg/kg	0.041	U	0.041	U	0.039	U	0.039	U	0.041	U	0.04	U	0.039	U	0.039	U	0.41	U	0.038	U
2-Chlorophenol	5800	1.78		mg/kg	0.045	U	0.045	U	0.11		0.043	U	0.27		0.044	U	0.043	U	0.043	U	0.45	U	0.042	U
2-Methylnaphthalene	3000	3.8		mg/kg	0.065	U	0.018	J	0.02	U	0.02	U	0.02	U	0.034	U	0.019	U	0.0098	J	3.9		0.057	
2-Methylphenol	41000	15		mg/kg	0.061	U	0.062	U	0.059	U	0.059	U	0.061	U	0.059	U	0.058	U	0.059	U	0.62	U	0.058	U
2-Nitroaniline	8000	1.6		mg/kg	0.061	U	0.062	U	0.059	U	0.059	U	0.061	U	0.059	U	0.058	U	0.059	U	0.62	U	0.058	U
2-Nitrophenol				mg/kg	0.061	U	0.062	U	0.059	U	0.059	U	0.061	U	0.059	U	0.058	U	0.059	U	0.62	U	0.058	U
3,3'-Dichlorobenzidine	5.1	0.0164		mg/kg	0.2	U	0.21	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	2.1	U	0.19	U
3-Nitroaniline				mg/kg	0.2	U	0.21	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	2.1	U	0.19	U
4,6-Dinitro-2-Methylphenol	66	0.052		mg/kg	0.61	U	0.62	U	0.59	U	0.59	U	0.61	U	0.59	U	0.58	U	0.59	U	6.2	U	0.58	U
4-Bromophenyl Phenyl Ether				mg/kg	0.045	U	0.045	U	0.043	U	0.043	U	0.045	U	0.044	U	0.043	U	0.043	U	0.45	U	0.042	U
4-Chloro-3-Methylphenol	82000	34		mg/kg	0.061	U	0.062	U	0.059	U	0.059	U	0.061	U	0.059	U	0.058	U	0.059	U	0.62	U	0.058	U
4-Chloroaniline	11	0.0032		mg/kg	0.2	U	0.21	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	2.1	U	0.19	U
4-Chlorophenyl Phenyl Ether				mg/kg	0.045	U	0.045	U	0.043	U	0.043	U	0.045	U	0.044	U	0.043	U	0.043	U	0.45	U	0.042	U
4-Methylphenol	16000	6		mg/kg	0.087		0.032	J	0.059	U	0.059	U	0.061	U	0.059	U	0.058	U	0.059	U	0.62	U	0.058	U
4-Nitroaniline	110	0.032		mg/kg	0.2	U	0.21	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	2.1	U	0.19	U
4-Nitrophenol				mg/kg	0.61	U	0.62	U	0.59	U	0.59	U	0.61	U	0.59	U	0.58	U	0.59	U	6.2	U	0.58	U
Acenaphthene	45000	110																						

Table 19. Wastewater Soil Analytical Results
RCRA Facility Investigation Report
Honeywell Delaware Valley Works
Claymont, Delaware
Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date			SBWW-22G SBWW-22G_6-8 7/27/2021		SBWW-22H SBWW-22H_0-2 8/5/2021		SBWW-22H SBWW-22H_5-7 8/5/2021		SBWW-22I SBWW-22I_0-2 8/5/2021		SBWW-22I SBWW-22I_6-8 8/5/2021		SBWW-22J SBWW-22J_0-2 8/5/2021		SBWW-22J SBWW-22J_8.5-10.5 8/5/2021		SBWW-23 SBWW-23_0-2 7/15/2021		SBWW-23 SBWW-23_7-9 7/15/2021		SBWW-24 SBWW-24_0-2 7/6/2021		
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Butylbenzyl Phthalate	1200	4.8		mg/kg	0.2	U	0.21	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	2.1	U	0.19	U
Caprolactam	400000	50		mg/kg	0.2	U	0.21	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	2.1	U	0.19	U
Carbazole				mg/kg	0.045	U	0.045	U	0.043	U	0.043	U	0.045	U	0.044	U	0.043	U	0.043	U	0.45		0.073	
Chrysene	2100	180		mg/kg	0.11		0.015	J	0.02	U	0.02	U	0.02	U	0.046		0.019	U	0.099		0.96		0.36	
Dibenzo(a,h)Anthracene	2.1	1.92		mg/kg	0.02	U	0.021	U	0.02	U	0.02	U	0.02	U	0.02	U	0.019	U	0.021		0.21	U	0.089	
Dibenzofuran	1200	3		mg/kg	0.022	J	0.045	U	0.043	U	0.043	U	0.045	U	0.044	U	0.043	U	0.043	U	4.2		0.029	J
Diethyl Phthalate	660000	122		mg/kg	0.2	U	0.21	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	2.1	U	0.19	U
Dimethyl Phthalate				mg/kg	0.2	U	0.21	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	2.1	U	0.19	U
Di-n-Butyl Phthalate	82000	46		mg/kg	0.2	U	0.21	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U	0.078	J	2.1	U	0.19	U
Di-n-Octyl Phthalate	8200	1140		mg/kg	0.2	U	0.21	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	2.1	U	0.19	U
Fluoranthene	30000	1780		mg/kg	0.12		0.025	U	0.02	U	0.02	U	0.02	U	0.091		0.019	U	0.16		4.4		0.63	
Fluorene	30000	108		mg/kg	0.043		0.0064	J	0.02	U	0.02	U	0.02	U	0.019	J	0.019	U	0.02	U	3.8		0.022	
Hexachlorobenzene	0.96	0.0024	0.26	mg/kg	13		0.021	U	0.02	U	0.02	U	0.015	J	0.02	U	0.019	U	0.14		0.21	U	0.074	
Hexachlorobutadiene	5.3	0.0054		mg/kg	6.3		0.062	U	0.059	U	0.059	U	0.061	U	0.059	U	0.058	U	0.059	U	0.62	U	0.058	U
Hexachlorocyclopentadiene	7.5	0.026	3.2	mg/kg	0.61	U	0.62	UJ	0.59	UJ	0.59	UJ	0.61	UJ	0.59	UJ	0.58	UJ	0.59	UJ	6.2	UJ	0.58	UJ
Hexachloroethane	8	0.004		mg/kg	4.8		0.21	U	0.2	U	0.2	U	0.2	U	0.2	U	0.19	U	0.2	U	2.1	U	0.19	U
Indeno(1,2,3-Cd)Pyrene	21	19.6		mg/kg	0.023		0.0083	J	0.02	U	0.02	U	0.02	U	0.023		0.019	U	0.062		0.37		0.22	
Isophorone	2400	0.52		mg/kg	0.082	U	0.082	U	0.079	U	0.079	U	0.082	U	0.079	U	0.078	U	0.078	U	0.82	U	0.077	U
Naphthalene	8.6	0.0076		mg/kg	0.18		0.035		0.02	U	0.02	U	0.02	U	0.03		0.019	U	0.016	J	9.8		0.072	
Nitrobenzene	22	0.00184		mg/kg	0.045	U	0.045	U	0.043	U	0.043	U	0.045	U	0.044	U	0.043	U	0.043	U	0.45	U	0.042	U
n-Nitroso-di-n-Propylamine	0.33	0.000162		mg/kg	0.082	U	0.082	U	0.079	U	0.079	U	0.082	U	0.079	U	0.078	U	0.078	U	0.82	U	0.077	U
n-Nitrosodiphenylamine	470	1.34		mg/kg	0.045	U	0.045	U	0.043	U	0.043	U	0.045	U	0.044	U	0.043	U	0.043	U	0.45	U	0.042	U
Pentachlorophenol	4	0.00114	0.028	mg/kg	0.2	U	0.21	U	0.2	UJ	0.2	UJ	0.2	UJ	0.2	UJ	0.19	UJ	0.084	J	2.1	U	0.19	U
Phenanthrene				mg/kg	0.29		0.038		0.02	U	0.02	U	0.02	U	0.11		0.017	J	0.12		13		0.38	
Phenol	250000	66		mg/kg	0.44		0.045	U	0.043	U	0.043	U	0.045	U	0.044	U	0.043	U	0.043	U	0.45	U	0.042	U
Pyrene	23000	260		mg/kg	0.16		0.022		0.02	U	0.02	U	0.02	U	0.087		0.019	U	0.12		3		0.46	

Notes:
Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), Industrial Soil Screening Level (SSL) (November 2021)
Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20
Exceeds the EPA RSL, Maximum Contaminant Level (MCL) SSL assuming a DAF of 20
Blanks indicate RSL not established or constituent not analyzed
RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0
U = undetected
J = estimated value
J+ = estimated biased high
J- = estimated biased low
R = rejected
MG/KG - milligram per kilogram
SWMU = Solid Waste Management Unit
RCRA = Resource Conservation and Recovery Act
Sample depth shown in Sample ID (e.g., SBBF3-04_6-8 indicates 6 to 8-foot sample)
DUP = Duplicate sample
Exceedances shown may exceed one or more criteria if available

Table 19. Wastewater Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date			SBWW-24 SBWW-24_8.5-10.5 7/6/2021		SBWW-25 SBWW-25_0-2 7/7/2021		SBWW-26 SBWW-26_0-2 7/8/2021		SBWW-26 SBWW-26_10.5-12.5 7/8/2021		SBWW-27 SBWW-27_12.5-14.5 7/13/2021		SBWW-28 SBWW-28_6-8 7/13/2021		SBWW-29 SBWW-29_0-2 7/15/2021		SBWW-29 SBWW-29_3-5 7/15/2021		SBWW-30 SBWW-30_0-2 7/20/2021		SBWW-30 SBWW-30_8-10 7/20/2021													
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual											
Metals																																			
Aluminum	110000	60000		mg/kg	14000			16000			20000			21000			17000			9200			20000			7900			13000						
Antimony	470	7	5.4	mg/kg	4.7	U		4.8	U		5	J		5.7	U		4.9	U		4.3	U		5	U		4.8	U		4.1	U		4.6	U		
Arsenic	3	0.03	5.8	mg/kg	2	J		1.6	J		12			3.6			6.7			2.9	J		5.5			3.5			1.6	J		1.6	J		
Barium	220000	3200	1640	mg/kg	66			79			380			110			61			76			84			70			64			64			
Beryllium	2300	380	64	mg/kg	0.86			2.9			0.53	U		1			0.62			0.89			0.58			0.77			0.39	J		0.46			
Cadmium	100	2.8	7.6	mg/kg	0.44	J		0.098	J		3.6			0.68			0.49	U		0.43	U		0.35	J		0.12	J		0.3	J		0.16	J		
Calcium				mg/kg	580			4900			10000			850			400			750			100000			840			83000			520			
Chromium			3600000	mg/kg	20			31			55			22			15			33			22			40			21			25	J		
Cobalt	350	5.4		mg/kg	5.3			7.2			10			12			6.5			7.5			3.5			6.8			2.9			6.1			
Copper	47000	560	920	mg/kg	6.9			260			620			10			260			12			36			12			27			8.8			
Iron	820000	7000		mg/kg	18000			18000			45000			37000			11000			33000			10000			21000			8300			12000			
Lead	800		280	mg/kg	9.5			120			270			16			10			7.5			32			9.1			38			11			
Magnesium				mg/kg	2700			1400			4000			3300			2200			3400			10000			3300			13000			2600			
Manganese	26000	560		mg/kg	120			220			450			170			220			180			200			170			200			78			
Nickel	22000	520		mg/kg	15			17			43			24			14			16			11			19			8.4			16			
Potassium				mg/kg	980			950			2700			1300			1100			1700			1400			1500			870			760			
Selenium	5800	10.4	5.2	mg/kg	4.2	J		3.5	J		5.3	U		5.7	U		4.9	U		4.3	U		5	U		4.8	U		4.1	U		4.6	U		
Silver	5800	16		mg/kg	0.93	U		0.95	U		0.43	J		1.1	U		0.98	U		0.86	U		1	U		0.97	U		0.83	U		0.93	U		
Sodium				mg/kg	310			440			240			150			79	J		170			390			1100			180			350			
Thallium	12	0.28	2.8	mg/kg	2.8	U		2.9	U		1.6	J		3.4	U		2.9	U		1.1	J		1.3	J		2.9	U		2.5	U		2.8	U		
Vanadium	5800	1720		mg/kg	26			25			44			31			24			41			22			39			17			29	J		
Zinc	350000	7400		mg/kg	39			70			1500			62			37			37			160			92			92			48			
Mercury	46	0.66	2	mg/kg	0.071	U		2.8			0.73			0.041	J		0.064	U		0.071	U		0.29			0.072	U		0.065	U		0.035	J		
Pesticides																																			
4,4'-DDD	9.6	0.15		mg/kg	0.008	U		0.95			77			0.0082	U		0.0076	U		0.017			4.5			0.24			6.9			0.0029	J		
4,4'-DDE	9.3	0.22		mg/kg	0.0098	U		58			28			0.0082	U		0.0076	U		0.015			9.4			0.028			15			0.0078	U		
4,4'-DDT	8.5	1.54		mg/kg	0.039	U		34			240			0.0082	U		0.0076	U		0.028			17			0.2			29			0.0078	U		
Aldrin	0.18	0.003		mg/kg	0.008	U		0.014	U		0.078	U		0.0082	U		0.0076	U		0.0078	U		0.038	U		0.0078	U		0.036	U		0.0078	U		
Alpha-BHC	0.36	0.00084		mg/kg	0.008	U		0.013	J		0.79			0.0082	U		0.0076	U		0.0054	J		0.087			0.014			0.16			0.012			
Beta-BHC	1.3	0.003		mg/kg	0.014	U		1.2			5.6			0.082			0.0076	U		0.0067	J		0.67			0.19			1.8			0.025			
cis-Chlordane	500	9.8		mg/kg	0.008	U		0.014	U		0.078	U		0.0082	U		0.0076	U		0.0078	U		0.038	U		0.0078	U		0.036	U		0.0078	U		
Delta-BHC				mg/kg	0.008	U		0.014	U		0.078	U		0.0082	U		0.0076	U		0.0078	U		0.038	U		0.0078	U		0.036	U		0.0078	U		
Dieldrin	0.14	0.00142		mg/kg	0.008	U		0.014	U		0.078	U		0.0082	U		0.0076	U		0.0078	U		0.038	U		0.0078	U		0.036	U		0.0078	U		
Endosulfan I				mg/kg	0.008	U		0.014	U		0.078	U		0.0082	U		0.0076	U		0.0078	U		0.038	U		0.0078	U		0.036	U		0.0078	U		
Endosulfan II				mg/kg	0.008	U		0.014	U		0.078	U		0.0082	U		0.0076	U		0.0078	U		0.038	U		0.0078	U		0.036	U		0.0078	U		
Endosulfan Sulfate	4900	42		mg/kg	0.008	U		0.014	U		0.078	U		0.0082	U		0.0076	U		0.0078	U		0.038	U		0.0078	U		0.036	U		0.0078	U		
Endrin	250	1.84	1.62	mg/kg	0.008	U		0.014	U		0.078	U		0.0082	U		0.0076	U		0.0078	U		0.038	U		0.0078	U		0.036	U		0.0078	U		
Endrin Aldehyde				mg/kg	0.008	U		0.014	U		0.078	U		0.0082	U		0.0076	U		0.0078	U		0.038	U		0.0078	U		0.036	U		0.0078	U		
Endrin Ketone				mg/kg	0.008	U		0.014	U		0.078	U		0.0082	U		0.0076	U		0.0078	U		0.038	U		0.0078	U		0.036	U		0.0078	U		
Gamma-BHC (Lindane)	2.5	0.0048	0.024	mg/kg	0.008	U		0.0047	J		0.18			0.0082	U		0.0076	U		0.0078	U		0.061			0.0029	J		0.059			0.0051	J		
Heptachlor	0.63	0.0024	0.66	mg/kg	0.008	U		0.014	U		0.078	U		0.0082	U		0.0076	U		0.0078	U		0.038	U		0.0078	U		0.036	U		0.0078	U		
Heptachlor Epoxide	0.33	0.00056	0.082	mg/kg	0.008	U		0.014	U		0.078	U		0.0082	U		0.0076	U		0.0078	U		0.038	U		0.0078	U		0.036	U		0.0078	U		
Methoxychlor	4100	40	44	mg/kg	0.016	U		0.027	U		0.15	U		0.016	U		0.015	U		0.015	U		0.073	U		0.015	U		0.071	U		0.015	U		
Toxaphene	2.1	0.22	9.2	mg/kg	0.2	U		0.35	U		2	U		0.21	U		0.19	U		0.2	U		0.95	U		0.2	U		0.92	U		0.2	U		
trans-Chlordane	500	28		mg/kg	0.008	U		0.014	U		0.078	U		0.0082	U		0.0076	U		0.0078	U		0.038	U		0.0078	U		0.036	U		0.0078	U		
Volatiles Organics Compounds																																			
1,1,1-Trichloroethane	36000	56	1.4	mg/kg	0.0044	U		0.0044	U		0.0059	U		0.0046	U		0.005	U		0.0044	U		0.0052	U		0.0043	U		0.3	U		0.25	U		
1,1,2,2-Tetrachloroethane	2.7	0.0006		mg/kg	0.0044	U		0.0044	U		0.0059	U		0.0046	U		0.005	U		0.0044	U		0.0052	U		0.0043	U		0.3	U		0.25	U		
1,1,2-Trichloro-1,2,2-Trifluoroethane	28000	520		mg/kg	0.034			0.0087	U		0.0042	J		0.0092	U		0.01	U		0.0089	U		0.0047	J		5.5	J		0.1	J		11	J		
1,1,2-Trichloroethane	5	0.00178	0.032	mg/kg	0.0044	U		0.0044	U		0.0059	U		0.0046	U		0.005	U		0.0044	U		0.0052	U		0.0043	U		0.3	U		0.25	U		
1,1-Dichloroethane	16	0.0156		mg/kg	0.0044	U		0.0044	U		0.0059	U		0.0046	U		0.005	U		0.0044	U		0.0052	U		0.0043	U		0.3	U		0.25	U		
1,1-Dichloroethene	1000	2	0.05	mg/kg	0.0044	U		0.0044	U		0.0059	U		0.0046	U		0.005	U		0.0044															

Table 19. Wastewater Soil Analytical Results
RCRA Facility Investigation Report
Honeywell Delaware Valley Works
Claymont, Delaware
Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date				SBWW-24 SBWW-24_8.5-10.5 7/6/2021		SBWW-25 SBWW-25_0-2 7/7/2021		SBWW-26 SBWW-26_0-2 7/8/2021		SBWW-26 SBWW-26_10.5-12.5 7/8/2021		SBWW-27 SBWW-27_12.5-14.5 7/13/2021		SBWW-28 SBWW-28_6-8 7/13/2021		SBWW-29 SBWW-29_0-2 7/15/2021		SBWW-29 SBWW-29_3-5 7/15/2021		SBWW-30 SBWW-30_0-2 7/20/2021		SBWW-30 SBWW-30_8-10 7/20/2021	
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Bromomethane	30	0.038		mg/kg	0.0044	U	0.0044	U	0.0059	U	0.0046	U	0.005	U	0.0044	U	0.0052	U	0.0043	U	0.3	U	0.25	U
Carbon Disulfide	3500	4.8		mg/kg	0.0044	U	0.0044	U	0.0059	U	0.0046	U	0.005	U	0.0044	U	0.0024	J	0.0043	U	0.3	U	0.25	U
Carbon Tetrachloride	2.9	0.0036	0.038	mg/kg	0.0044	U	0.0044	U	0.0059	U	0.0046	U	0.005	U	0.0044	U	0.0052	U	0.0043	U	0.3	U	0.25	U
Chlorobenzene	1300	1.06	1.36	mg/kg	0.0035	J	0.0044	U	0.0059	U	0.0034	J	0.005	U	0.013		0.0012	J	0.0061		0.28	J	0.055	J
Chloroethane	23000	48		mg/kg	0.0044	U	0.0044	U	0.0059	U	0.0046	U	0.005	U	0.0044	U	0.0052	U	0.0043	U	0.3	U	0.25	U
Chloroform	1.4	0.00122	0.44	mg/kg	0.0044	U	0.0044	U	0.012		0.0046	U	0.005	U	0.0039	J	0.0052	U	0.0043	U	0.3	U	0.25	U
Chloromethane	460	0.98		mg/kg	0.0044	U	0.0044	U	0.0059	U	0.0046	U	0.005	U	0.0044	U	0.0052	U	0.0043	U	0.3	U	0.25	U
cis-1,2-Dichloroethene	2300	0.22	0.42	mg/kg	0.0044	U	0.0044	U	0.0059	U	0.00048	J	0.005	U	0.0044	U	0.0052	U	0.0043	U	0.3	U	0.25	U
cis-1,3-Dichloropropene				mg/kg	0.0044	U	0.0044	U	0.0059	U	0.0046	U	0.005	U	0.0044	U	0.0052	U	0.0043	U	0.3	U	0.25	U
Cyclohexane	27000	260		mg/kg	0.0044	U	0.0044	U	0.0059	U	0.0046	U	0.005	U	0.0044	U	0.0052	U	0.0022	J	0.3	U	0.25	U
Dibromochloromethane	39	0.0046	0.42	mg/kg	0.0044	U	0.0044	U	0.0059	U	0.0046	U	0.005	U	0.0044	U	0.0052	U	0.0043	U	0.3	U	0.25	U
Dichlorodifluoromethane	370	6		mg/kg	0.0044	U	0.0044	U	0.0059	U	0.0046	U	0.005	U	0.0044	U	0.0052	U	0.0043	U	0.3	UJ	0.25	UJ
Diethyl Ether	230000	17.6		mg/kg	0.0051		0.0044	U	0.0059	U	0.0046	U	0.005	U	0.0044	U	0.002	J	0.0027	J	0.3	U	0.25	U
Ethylbenzene	25	0.034	15.6	mg/kg	0.0044	U	0.0044	U	0.0059	U	0.0046	U	0.005	U	0.0044	U	0.0052	U	0.0043	U	0.3	U	0.25	U
Isopropylbenzene	9900	14.8		mg/kg	0.0044	U	0.0044	U	0.0059	U	0.0046	U	0.005	U	0.0044	U	0.0052	U	0.0043	U	0.3	U	0.25	U
m&p-Xylenes				mg/kg	0.0044	U	0.0044	U	0.0059	U	0.0046	U	0.005	U	0.0044	U	0.0052	U	0.0043	U	0.3	U	0.25	U
Methyl Acetate	1200000	82		mg/kg	0.0044	U	0.0044	U	0.0059	U	0.0046	U	0.005	U	0.0044	U	0.0052	U	0.0043	U	0.3	U	0.25	U
Methyl Tert-Butyl Ether	210	0.064		mg/kg	0.0044	U	0.0044	U	0.0059	U	0.0046	U	0.005	U	0.0044	U	0.0052	U	0.0043	U	0.3	U	0.25	U
Methylcyclohexane				mg/kg	0.0044	U	0.0044	U	0.0059	U	0.0046	U	0.005	U	0.0044	U	0.0052	U	0.0043	U	0.3	UJ	0.25	UJ
Methylene Chloride	1000	0.058	0.026	mg/kg	0.0044	U	0.0044	U	0.0059	U	0.0046	U	0.005	U	0.0044	U	0.0052	U	0.0083		0.3	U	0.25	U
o-Xylene	2800	3.8		mg/kg	0.0044	U	0.0044	U	0.0059	U	0.0046	U	0.005	U	0.0044	U	0.00052	J	0.0043	U	0.3	U	0.25	U
Styrene	35000	26	2.2	mg/kg	0.0044	U	0.0044	U	0.0059	U	0.0046	U	0.005	U	0.0044	U	0.0052	U	0.0043	U	0.3	U	0.25	U
Tetrachloroethene	100	0.102	0.046	mg/kg	0.0044	U	0.0044	U	0.006		0.0046	U	0.005	U	0.0044	U	0.0052	U	0.0047		0.3	U	0.25	U
Toluene	47000	15.2	13.8	mg/kg	0.0044	U	0.0044	U	0.0059	U	0.0046	U	0.005	U	0.0044	U	0.0052	U	0.0043	U	0.3	U	0.057	J
Total Xylenes	2500	3.8	198	mg/kg	0.0088	U	0.0087	U	0.012	U	0.0092	U	0.01	U	0.0089	U	0.01	U	0.0086	U	0.6	U	0.49	U
trans-1,2-Dichloroethene	300	0.42	0.62	mg/kg	0.0044	U	0.0044	U	0.0059	U	0.0046	U	0.005	U	0.0044	U	0.0052	U	0.0043	U	0.3	U	0.25	U
trans-1,3-Dichloropropene				mg/kg	0.0044	U	0.0044	U	0.0059	U	0.0046	U	0.005	U	0.0044	U	0.0052	U	0.0043	U	0.3	U	0.25	U
Trichloroethene	6	0.0036	0.036	mg/kg	0.0044	U	0.0044	U	0.0032	J	0.0014	J	0.005	U	0.0044	U	0.0052	U	0.0043	U	0.3	U	0.25	U
Trichlorofluoromethane	350000	66		mg/kg	0.0044	U	0.0044	U	0.0059	U	0.0046	U	0.005	U	0.0044	U	0.0052	U	0.0043	U	0.3	U	0.25	U
Vinyl Chloride	1.7	0.00013	0.0138	mg/kg	0.0044	U	0.0044	U	0.0059	U	0.0046	U	0.005	U	0.0044	U	0.0052	U	0.0043	U	0.3	U	0.25	U
Semi-Volatiles Organic Compounds																								
1,1'-Biphenyl	200	0.174		mg/kg	0.044	U	0.039	U	0.11		0.045	U	0.042	U	0.043	U	0.042	U	0.044	U	0.04	U	0.043	U
1,2,4,5-Tetrachlorobenzene	35	0.0158		mg/kg	0.044	U	0.18		0.14		0.045	U	0.042	U	0.043	U	0.042	U	0.044	U	0.04	U	0.043	U
2,2'-Oxybis(1-Chloropropane)	47000	5.2		mg/kg	0.052	U	0.046	U	0.051	U	0.053	U	0.05	U	0.051	U	0.05	U	0.052	U	0.047	U	0.05	U
2,3,4,6-Tetrachlorophenol	25000	3.6		mg/kg	0.2	U	0.18	U	0.2	U	0.2	U	0.19	U	0.2	U	0.19	U	0.2	U	0.18	U	0.19	U
2,4,5-Trichlorophenol	82000	80		mg/kg	0.044	U	0.039	U	0.036	J	0.045	U	0.042	U	0.043	U	0.042	U	0.044	U	0.04	U	0.043	U
2,4,6-Trichlorophenol	210	0.08		mg/kg	0.044	U	0.039	U	0.023	J	0.045	U	0.042	U	0.043	U	1.4		0.044	U	1.2		0.043	U
2,4-Dichlorophenol	2500	0.46		mg/kg	0.052	U	0.046	U	0.11		0.053	U	0.05	U	0.051	U	3		0.026	J	3.7		0.05	U
2,4-Dimethylphenol	16000	8.4		mg/kg	0.044	U	0.039	U	0.043	U	0.045	U	0.042	U	0.043	U	0.042	U	0.044	U	0.04	U	0.043	U
2,4-Dinitrophenol	1600	0.88		mg/kg	1.2	U	1.1	UJ	1.2	UJ	1.2	U	1.1	U	1.2	U	1.1	U	1.2	U	1.1	U	1.2	U
2,4-Dinitrotoluene	7.4	0.0064		mg/kg	0.2	U	0.18	U	0.2	U	0.2	U	0.19	U	0.2	U	0.19	U	0.2	U	0.18	U	0.19	U
2,6-Dinitrotoluene	1.5	0.00134		mg/kg	0.044	U	0.039	U	0.043	U	0.045	U	0.042	U	0.043	U	0.042	U	0.044	U	0.04	U	0.043	U
2-Chloronaphthalene	60000	78		mg/kg	0.04	U	0.035	U	0.039	U	0.041	U	0.038	U	0.039	U	0.038	U	0.04	U	0.036	U	0.039	U
2-Chlorophenol	5800	1.78		mg/kg	0.044	U	0.039	U	0.043	U	0.045	U	0.042	U	0.043	U	0.042	U	0.044	U	0.019	J	0.043	U
2-Methylnaphthalene	3000	3.8		mg/kg	0.0067	J	0.014	J	0.14		0.02	U	0.019	U	0.02	U	0.02	U	0.02	U	0.056	U	0.019	U
2-Methylphenol	41000	15		mg/kg	0.06	U	0.053	U	0.059	U	0.061	U	0.057	U	0.059	U	0.057	U	0.059	U	0.026	J	0.058	U
2-Nitroaniline	8000	1.6		mg/kg	0.06	U	0.053	U	0.059	U	0.061	U	0.057	U	0.059	U	0.057	U	0.059	U	0.055	U	0.058	U
2-Nitrophenol				mg/kg	0.06	U	0.053	U	0.059	U	0.061	U	0.057	U	0.059	U	0.057	U	0.059	U	0.055	U	0.058	U
3,3'-Dichlorobenzidine	5.1	0.0164		mg/kg	0.2	U	0.18	U	0.2	U	0.2	U	0.19	U	0.2	U	0.19	U	0.2	U	0.18	U	0.19	U
3-Nitroaniline				mg/kg	0.2	U	0.18	U	0.2	U	0.2	U	0.19	U	0.2	U	0.19	U	0.2	U	0.18	U	0.19	U
4,6-Dinitro-2-Methylphenol	66	0.052		mg/kg	0.6	U	0.53	U	0.59	U	0.61	U	0.57	U	0.59	U	0.57	U	0.59	U	0.55	U	0.58	U
4-Bromophenyl Phenyl Ether				mg/kg	0.044	U	0.039	U	0.043	U	0.045	U	0.042	U	0.043	U	0.042	U	0.044	U	0.04	U	0.043	U
4-Chloro-3-Methylphenol	82000	34		mg/kg	0.06	U	0.053	U	0.059	U	0.061	U	0.057	U	0.059	U	0.057	U	0.059	U	0.055	U	0.058	U
4-Chloroaniline	11	0.0032		mg/kg	0.2	U	0.18	U	0.2	U	0.2	U	0.19	U	0.2	U	0.19	U	0.2	U	0.18	U	0.19	U
4-Chlorophenyl Phenyl Ether				mg/kg	0.044	U	0.039	U	0.043	U	0.045	U	0.042	U	0.043	U	0.042	U	0.044	U	0.04	U	0.043	U
4-Methylphenol	16000	6		mg/kg	0.06	U	0.053	U	0.059	U	0.061	U	0.057	U	0.059	U	0.057	U	0.059	U	0.055	U	0.058	U
4-Nitroaniline	110	0.032		mg/kg	0.2	U	0.18	U	0.2	U	0.2	U	0.19	U	0.2	U	0.19	U	0.2	U	0.18	U	0.19	U
4-Nitrophenol				mg/kg	0.6	U	0.53																	

Table 19. Wastewater Soil Analytical Results
RCRA Facility Investigation Report
Honeywell Delaware Valley Works
Claymont, Delaware
Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date			SBWW-24 SBWW-24_8.5-10.5 7/6/2021		SBWW-25 SBWW-25_0-2 7/7/2021		SBWW-26 SBWW-26_0-2 7/8/2021		SBWW-26 SBWW-26_10.5-12.5 7/8/2021		SBWW-27 SBWW-27_12.5-14.5 7/13/2021		SBWW-28 SBWW-28_6-8 7/13/2021		SBWW-29 SBWW-29_0-2 7/15/2021		SBWW-29 SBWW-29_3-5 7/15/2021		SBWW-30 SBWW-30_0-2 7/20/2021		SBWW-30 SBWW-30_8-10 7/20/2021		
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Butylbenzyl Phthalate	1200	4.8		mg/kg	0.2	U	0.18	U	0.2	U	0.2	U	0.19	U	0.2	U	0.19	U	0.2	U	0.18	U	0.19	U
Caprolactam	400000	50		mg/kg	0.2	U	0.18	U	0.2	U	0.2	U	0.19	U	0.2	U	0.19	U	0.2	U	0.18	U	0.19	U
Carbazole				mg/kg	0.044	U	0.044		0.024	J	0.045	U	0.042	U	0.043	U	0.042	U	0.044	U	0.04	U	0.043	U
Chrysene	2100	180		mg/kg	0.02	U	0.44		0.16		0.02	U	0.019	U	0.02	U	0.036		0.02	U	0.044		0.019	U
Dibenzo(a,h)Anthracene	2.1	1.92		mg/kg	0.02	U	0.14		0.038		0.02	U	0.019	U	0.02	U	0.011	J	0.02	U	0.011	J	0.019	U
Dibenzofuran	1200	3		mg/kg	0.044	U	0.039	U	0.026	J	0.045	U	0.042	U	0.043	U	0.042	U	0.044	U	0.04	U	0.043	U
Diethyl Phthalate	660000	122		mg/kg	0.2	U	0.18	U	0.2	U	0.2	U	0.19	U	0.2	U	0.19	U	0.2	U	0.18	U	0.19	U
Dimethyl Phthalate				mg/kg	0.2	U	0.18	U	0.2	U	0.2	U	0.19	U	0.2	U	0.19	U	0.2	U	0.18	U	0.19	U
Di-n-Butyl Phthalate	82000	46		mg/kg	0.2	U	1.7		0.2	U	0.2	U	0.19	U	0.2	U	0.19	U	0.2	U	0.18	U	0.19	U
Di-n-Octyl Phthalate	8200	1140		mg/kg	0.2	U	0.18	U	0.2	U	0.2	U	0.19	U	0.2	U	0.19	U	0.2	U	0.18	U	0.19	U
Fluoranthene	30000	1780		mg/kg	0.0046	J	0.66		0.24	U	0.02	U	0.019	U	0.02	U	0.051	U	0.02	U	0.079	U	0.019	U
Fluorene	30000	108		mg/kg	0.02	U	0.023		0.02	U	0.02	U	0.019	U	0.02	U	0.0038	J	0.02	U	0.01	J	0.019	U
Hexachlorobenzene	0.96	0.0024	0.26	mg/kg	0.02	U	0.041		0.029		0.02	U	0.019	U	0.02	U	0.019	U	0.02	U	0.018	U	0.019	U
Hexachlorobutadiene	5.3	0.0054		mg/kg	0.06	U	0.053	U	0.059	U	0.061	U	0.057	U	0.059	U	0.057	U	0.059	U	0.055	U	0.058	U
Hexachlorocyclopentadiene	7.5	0.026	3.2	mg/kg	0.6	UJ	0.53	U	0.59	U	0.61	U	0.57	UJ	0.59	UJ	0.57	UJ	0.59	UJ	0.55	UJ	0.58	U
Hexachloroethane	8	0.004		mg/kg	0.2	U	0.18	U	0.2	U	0.2	U	0.19	U	0.2	U	0.19	U	0.2	U	0.18	U	0.19	U
Indeno(1,2,3-Cd)Pyrene	21	19.6		mg/kg	0.02	U	0.44		0.097		0.02	U	0.019	U	0.02	U	0.028		0.0051	J	0.037		0.019	U
Isophorone	2400	0.52		mg/kg	0.08	U	0.07	U	0.079	U	0.081	U	0.076	U	0.079	U	0.076	U	0.079	U	0.073	U	0.078	U
Naphthalene	8.6	0.0076		mg/kg	0.02	U	0.015	J	0.086		0.02	U	0.019	U	0.02	U	0.019	U	0.02	U	0.026		0.019	U
Nitrobenzene	22	0.00184		mg/kg	0.044	U	0.039	U	0.043		0.045	U	0.042	U	0.043	U	0.042	U	0.044	U	0.04	U	0.043	U
n-Nitroso-di-n-Propylamine	0.33	0.000162		mg/kg	0.08	U	0.07	U	0.079	U	0.081	U	0.076	U	0.079	U	0.076	U	0.079	U	0.073	U	0.078	U
n-Nitrosodiphenylamine	470	1.34		mg/kg	0.044	U	0.039	U	0.027	J	0.045	U	0.042	U	0.043	U	0.042	U	0.044	U	0.04	U	0.043	U
Pentachlorophenol	4	0.00114	0.028	mg/kg	0.2	U	0.18	UJ	0.2	U	0.2	U	0.19	U	0.2	U	0.19	U	0.2	U	0.18	U	0.19	U
Phenanthrene				mg/kg	0.02	U	0.32		0.14		0.02	U	0.019	U	0.02	U	0.036		0.02	U	0.067		0.019	U
Phenol	250000	66		mg/kg	0.044	U	0.039	U	0.043	U	0.045	U	0.042	U	0.043	U	0.042	U	0.044	U	0.064		0.043	U
Pyrene	23000	260		mg/kg	0.02	U	0.55		0.22		0.02	U	0.019	U	0.02	U	0.049		0.005	J	0.062		0.019	U

Notes:
Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), Industrial Soil Screening Level (SSL) (November 2021)
Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20
Exceeds the EPA RSL, Maximum Contaminant Level (MCL) SSL assuming a DAF of 20
Blanks indicate RSL not established or constituent not analyzed
RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0
U = undetected
J = estimated value
J+ = estimated biased high
J- = estimated biased low
R = rejected
MG/KG - milligram per kilogram
SWMU = Solid Waste Management Unit
RCRA = Resource Conservation and Recovery Act
Sample depth shown in Sample ID (e.g., SBBF3-04_6-8 indicates 6 to 8-foot sample)
DUP = Duplicate sample
Exceedances shown may exceed one or more criteria if available

Table 19. Wastewater Soil Analytical Results
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date			SBWW-30 SBWW-30_8-10-DUP 7/20/2021	SBWW-31 SBWW-31_8-10 7/16/2021	SBWW-32 SBWW-32_6.5-8.5 7/16/2021	SBWW-33 SBWW-33_0-2 7/16/2021	SBWW-33 SBWW-33_3-5 7/16/2021	SBWW-34 SBWW-34_2.5-4.5 7/16/2021							
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual		
Metals																
Aluminum	110000	60000		mg/kg	12000		19000		15000		10000		15000		17000	J
Antimony	470	7	5.4	mg/kg	4.3	U	5.1	U	2.1	J	1.2	J	3.6	J	2.7	J-
Arsenic	3	0.03	5.8	mg/kg	2.6	U	2.3	J	4.3		3.7		22		34	J-
Barium	220000	3200	1640	mg/kg	58		81		72		85		160		220	J
Beryllium	2300	380	64	mg/kg	0.5		0.52		0.48	U	0.36	U	0.1	J	0.17	J
Cadmium	100	2.8	7.6	mg/kg	0.43	U	0.51	U	0.48	U	0.12	J	0.52		1.6	J
Calcium				mg/kg	470		450		1300		2600		3000		2100	J
Chromium			3600000	mg/kg	14	J	26		31		21		36		49	J-
Cobalt	350	5.4		mg/kg	5.1		4.3		6.9		4.9		10		9.8	J
Copper	47000	560	920	mg/kg	7.8		12		19		37		220		100	J-
Iron	820000	7000		mg/kg	7300		14000		22000		14000		38000		38000	
Lead	800		280	mg/kg	8.9		13		13		59		360		210	J
Magnesium				mg/kg	2300		2400		2900		2100		2000		2800	
Manganese	26000	560		mg/kg	69		51		250		96		400		210	J
Nickel	22000	520		mg/kg	12		13		14		11		19		22	J
Potassium				mg/kg	660		1100		1500		1400		1200		1600	J+
Selenium	5800	10.4	5.2	mg/kg	4.3	U	3.3	J	4.2	J	3.1	J	8.6		8.2	J-
Silver	5800	16		mg/kg	0.87	U	1	U	0.96	U	0.72	U	1	U	1.1	U
Sodium				mg/kg	300		380		170		100		210		220	
Thallium	12	0.28	2.8	mg/kg	2.6	U	3.1	U	2.9	U	2.2	U	1.7	J	1.5	J
Vanadium	5800	1720		mg/kg	12	J	42		37		23		44		40	J
Zinc	350000	7400		mg/kg	40		36		77		110		280		280	
Mercury	46	0.66	2	mg/kg	0.035	J	0.033	J	0.068	U	0.23		1.3		1.5	
Pesticides																
4,4'-DDD	9.6	0.15		mg/kg	0.011	J	0.0078	U	2.8		42		69		0.014	J
4,4'-DDE	9.3	0.22		mg/kg	0.0079	U	0.0078	U	0.34		6.9		5.3		0.016	U
4,4'-DDT	8.5	1.54		mg/kg	0.0079	U	0.0078	U	2.5		51		46		0.016	U
Aldrin	0.18	0.003		mg/kg	0.0079	U	0.0078	U	0.0081	U	0.0067	U	0.0081	U	0.016	U
Alpha-BHC	0.36	0.0084		mg/kg	0.02		0.0044	J	2.2		0.27		570	J	0.25	
Beta-BHC	1.3	0.003		mg/kg	0.041		0.0078	U	0.35		1.1		83		0.17	
cis-Chlordane	500	9.8		mg/kg	0.0079	U	0.0078	U	0.0081	U	0.0067	U	0.0081	U	0.016	U
Delta-BHC				mg/kg	0.0079	U	0.0078	U	0.068		0.0067	U	6.1		0.34	
Dieldrin	0.14	0.00142		mg/kg	0.0079	U	0.0078	U	0.0081	U	0.0067	U	0.0081	U	0.016	U
Endosulfan I				mg/kg	0.0079	U	0.0078	U	0.0081	U	0.0067	U	0.0081	U	0.016	U
Endosulfan II				mg/kg	0.0079	U	0.0078	U	0.0081	U	0.0067	U	0.0081	U	0.016	U
Endosulfan Sulfate	4900	42		mg/kg	0.0079	U	0.0078	U	0.0081	U	0.0067	U	0.0081	U	0.016	U
Endrin	250	1.84	1.62	mg/kg	0.0079	U	0.0078	U	0.0081	U	0.0067	U	0.0081	U	0.016	U
Endrin Aldehyde				mg/kg	0.0079	U	0.0078	U	0.0081	U	0.0067	U	0.0081	U	0.016	U
Endrin Ketone				mg/kg	0.0079	U	0.0078	U	0.0081	U	0.0067	U	0.0081	U	0.016	U
Gamma-BHC (Lindane)	2.5	0.0048	0.024	mg/kg	0.008		0.004	J	0.11		0.057		9.6		0.016	U
Heptachlor	0.63	0.0024	0.66	mg/kg	0.0079	U	0.0078	U	0.0081	U	0.0067	U	0.0081	U	0.016	U
Heptachlor Epoxide	0.33	0.00056	0.082	mg/kg	0.0079	U	0.0078	U	0.0081	U	0.0067	U	0.0081	U	0.016	U
Methoxychlor	4100	40	44	mg/kg	0.015	U	0.015	U	0.016	U	0.013	U	0.016	U	0.032	U
Toxaphene	2.1	0.22	9.2	mg/kg	0.2	U	0.2	U	0.21	U	0.17	U	0.21	U	0.42	U
trans-Chlordane	500	28		mg/kg	0.0079	U	0.0078	U	0.0081	U	0.0067	U	0.0081	U	0.016	U
Volatiles Organics Compounds																
1,1,1-Trichloroethane	36000	56	1.4	mg/kg	0.26	U	0.0044	U	0.28	U	0.0045	U	0.37	U	0.36	U
1,1,2,2-Tetrachloroethane	2.7	0.0006		mg/kg	0.26	U	0.0044	U	0.28	U	0.0045	U	0.37	U	0.36	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	28000	520		mg/kg	6.8	J-	0.35	J	0.037	J	0.009	U	0.73	U	0.044	J-
1,1,2-Trichloroethane	5	0.00178	0.032	mg/kg	0.26	U	0.0044	U	0.28	U	0.0045	U	0.37	U	0.36	U
1,1-Dichloroethane	16	0.0156		mg/kg	0.26	U	0.0044	U	0.28	U	0.0045	U	0.37	U	0.36	U
1,1-Dichloroethene	1000	2	0.05	mg/kg	0.26	U	0.0044	U	0.28	U	0.0045	U	0.37	U	0.36	U
1,2,3-Trichlorobenzene	930	0.42		mg/kg	0.51	U	0.0089	U	0.56	U	0.009	U	0.73	U	0.48	J
1,2,4-Trichlorobenzene	110	0.068	4	mg/kg	0.51	U	0.0089	U	0.56	U	0.009	U	1.3		3.4	
1,2-Dibromo-3-Chloropropane	0.064	0.000028	0.00172	mg/kg	0.26	U	0.0044	U	0.28	UJ	0.0045	U	0.37	UJ	0.36	U
1,2-Dibromoethane	0.16	0.000042	0.00028	mg/kg	0.26	U	0.0044	U	0.28	U	0.0045	U	0.37	U	0.36	U
1,2-Dichlorobenzene	9300	6	11.6	mg/kg	0.036	J	0.0039	J	0.061	J	0.0045	U	3		7.2	
1,2-Dichloroethane	2	0.00096	0.028	mg/kg	0.26	U	0.0044	U	0.28	U	0.0045	U	0.37	U	0.36	U
1,2-Dichloropropane	11	0.0056	0.034	mg/kg	0.26	U	0.0044	U	0.28	U	0.0045	U	0.37	U	0.36	U
1,3-Dichlorobenzene				mg/kg	0.26	U	0.00047	J	0.28	U	0.0045	U	0.34	J	0.77	
1,4-Dichlorobenzene	11	0.0092	1.44	mg/kg	0.084	J	0.0069		0.11	J	0.001	J	8.3		29	
1,4-Dioxane	24	0.00188		mg/kg	13	U	0.22	U	14	U	0.22	U	18	U	18	U
2-Butanone	190000	24		mg/kg	0.51	U	2		0.56	U	0.009	U	0.2	J	0.71	U
2-Hexanone	1300	0.176		mg/kg	0.51	U	0.0089	U	0.56	U	0.009	U	0.73	U	0.71	U
4-Methyl-2-Pentanone	140000	28		mg/kg	0.51	U	1.8		0.56	U	0.009	U	0.73	U	0.71	U
Acetone	1100000	74		mg/kg	1	U	6.8	J+	1.1	U	0.0088	J	0.52	J+	1.4	U
Benzene	5.1	0.0046	0.052	mg/kg	0.26	U	0.0098		0.28	U	0.00056	J	6.4		0.31	J
Bromochloromethane	630	0.42		mg/kg	0.26	U	0.0044	U	0.28	U	0.0045	U	0.37	U	0.36	U
Bromodichloromethane	1.3	0.00072	0.44	mg/kg	0.26	U	0.0044	U	0.28	U	0.0045	U	0.37	U	0.36	U
Bromoform	86	0.0174	0.42	mg/kg	0.51	U	0.0089	U	0.56	U	0.009	U	0.73	U	0.71	U

Table 19. Wastewater Soil Analytical Results
RCRA Facility Investigation Report
Honeywell Delaware Valley Works
Claymont, Delaware
Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date			SBWW-30 SBWW-30_8-10-DUP 7/20/2021	SBWW-31 SBWW-31_8-10 7/16/2021	SBWW-32 SBWW-32_6.5-8.5 7/16/2021	SBWW-33 SBWW-33_0-2 7/16/2021	SBWW-33 SBWW-33_3-5 7/16/2021	SBWW-34 SBWW-34_2.5-4.5 7/16/2021							
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20	Units	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual		
Bromomethane	30	0.038		mg/kg	0.26	U	0.0044	U	0.28	U	0.0045	U	0.37	U	0.36	U
Carbon Disulfide	3500	4.8		mg/kg	0.26	U	0.0044	U	0.28	U	0.0045	U	0.052	J	0.36	U
Carbon Tetrachloride	2.9	0.0036	0.038	mg/kg	0.26	U	0.0044	U	0.28	U	0.0045	U	0.37	U	0.36	U
Chlorobenzene	1300	1.06	1.36	mg/kg	0.047	J	0.024		0.14	J	0.0018	J	63		240	
Chloroethane	23000	48		mg/kg	0.26	U	0.0044	U	0.28	U	0.0045	U	0.37	U	0.36	U
Chloroform	1.4	0.00122	0.44	mg/kg	0.26	U	0.0028	J	0.28	U	0.00089	J	0.37	U	0.051	J
Chloromethane	460	0.98		mg/kg	0.26	U	0.0044	U	0.28	U	0.0045	U	0.37	U	0.36	U
cis-1,2-Dichloroethene	2300	0.22	0.42	mg/kg	0.26	U	0.0044	U	0.28	U	0.0045	U	0.37	U	0.36	U
cis-1,3-Dichloropropene				mg/kg	0.26	U	0.0044	U	0.28	U	0.0045	U	0.37	U	0.36	U
Cyclohexane	27000	260		mg/kg	0.26	U	0.0044	U	0.28	UJ	0.0045	U	0.37	UJ	0.06	J-
Dibromochloromethane	39	0.0046	0.42	mg/kg	0.26	U	0.0044	U	0.28	U	0.0045	U	0.37	U	0.36	U
Dichlorodifluoromethane	370	6		mg/kg	0.26	UJ	0.0034	J	0.28	UJ	0.0045	U	0.37	UJ	0.36	UJ
Diethyl Ether	230000	17.6		mg/kg	0.26	U	0.25		0.28	U	0.0013	J	0.37	U	0.36	U
Ethylbenzene	25	0.034	15.6	mg/kg	0.26	U	0.0044	U	0.28	U	0.0045	U	0.37	U	0.36	U
Isopropylbenzene	9900	14.8		mg/kg	0.26	U	0.0044	U	0.28	U	0.0045	U	0.37	U	0.36	U
m&p-Xylenes				mg/kg	0.26	U	0.0044	U	0.28	U	0.0045	U	0.37	U	0.15	J
Methyl Acetate	1200000	82		mg/kg	0.26	U	0.038		0.28	U	0.0012	J	0.65		0.27	J+
Methyl Tert-Butyl Ether	210	0.064		mg/kg	0.26	U	0.0044	U	0.28	U	0.0045	U	0.37	U	0.36	U
Methylcyclohexane				mg/kg	0.26	UJ	0.0044	U	0.28	UJ	0.0045	U	0.37	UJ	0.36	UJ
Methylene Chloride	1000	0.058	0.026	mg/kg	0.26	U	0.0044	U	0.28	U	0.0045	U	0.37	U	0.36	U
o-Xylene	2800	3.8		mg/kg	0.26	U	0.0044	U	0.28	U	0.0045	U	0.37	U	0.36	U
Styrene	35000	26	2.2	mg/kg	0.26	U	0.0044	U	0.28	U	0.0045	U	0.37	U	0.36	U
Tetrachloroethene	100	0.102	0.046	mg/kg	0.26	U	0.0044	U	0.28	U	0.0045	U	0.37	U	0.22	J
Toluene	47000	15.2	13.8	mg/kg	0.055	J	0.0039	J	0.28	U	0.0045	U	0.082	J	0.21	J
Total Xylenes	2500	3.8	198	mg/kg	0.51	U	0.0089	U	0.56	U	0.009	U	0.73	U	0.15	J
trans-1,2-Dichloroethene	300	0.42	0.62	mg/kg	0.26	U	0.0044	U	0.28	U	0.0045	U	0.37	U	0.36	U
trans-1,3-Dichloropropene				mg/kg	0.26	U	0.0044	U	0.28	U	0.0045	U	0.37	U	0.36	U
Trichloroethene	6	0.0036	0.036	mg/kg	0.26	U	0.0044	U	0.28	U	0.0045	U	0.37	U	0.044	J
Trichlorofluoromethane	350000	66		mg/kg	0.26	U	0.0044	U	0.28	U	0.0045	U	0.37	U	0.36	U
Vinyl Chloride	1.7	0.00013	0.0138	mg/kg	0.26	U	0.0044	U	0.28	U	0.0045	U	0.37	U	0.36	U
Semi-Volatiles Organic Compounds																
1,1'-Biphenyl	200	0.174		mg/kg	0.043	U	0.043	U	0.095		0.019	J	0.39		1.9	
1,2,4,5-Tetrachlorobenzene	35	0.0158		mg/kg	0.043	U	0.043	U	0.044	U	0.034	J	1		0.25	
2,2'-Oxybis(1-Chloropropane)	47000	5.2		mg/kg	0.051	U	0.051	U	0.052	U	0.044	U	0.053	U	0.053	U
2,3,4,6-Tetrachlorophenol	25000	3.6		mg/kg	0.2	U	0.2	U	0.2	U	0.17	U	0.21	U	0.2	U
2,4,5-Trichlorophenol	82000	80		mg/kg	0.043	U	0.043	U	0.056		0.058		0.85		0.33	
2,4,6-Trichlorophenol	210	0.08		mg/kg	0.043	U	0.72		1.6		0.17		0.16		0.13	
2,4-Dichlorophenol	2500	0.46		mg/kg	0.025	J	12		6.9		0.88		0.71		0.48	
2,4-Dimethylphenol	16000	8.4		mg/kg	0.043	U	0.043	U	0.044	U	0.037	U	0.045	U	0.045	U
2,4-Dinitrophenol	1600	0.88		mg/kg	1.2	U	1.2	U	1.2	U	1	UJ	1.2	U	1.2	UJ
2,4-Dinitrotoluene	7.4	0.0064		mg/kg	0.2	U	0.2	U	0.2	U	0.17	U	0.21	U	0.2	
2,6-Dinitrotoluene	1.5	0.00134		mg/kg	0.043	U	0.043	U	0.044	U	0.037	U	0.045	U	0.098	
2-Chloronaphthalene	60000	78		mg/kg	0.039	U	0.039	U	0.04	U	0.034	U	0.041	U	0.041	U
2-Chlorophenol	5800	1.78		mg/kg	0.043	U	0.026	J	0.037	J	0.037	U	0.23		0.082	
2-Methylnaphthalene	3000	3.8		mg/kg	0.053		0.02	U	0.21		0.023		0.34		0.27	
2-Methylphenol	41000	15		mg/kg	0.059	U	0.059	U	0.06	U	0.051	U	0.027	J	0.061	U
2-Nitroaniline	8000	1.6		mg/kg	0.059	U	0.059	U	0.06	U	0.051	U	0.062	U	0.061	U
2-Nitrophenol				mg/kg	0.059	U	0.059	U	0.06	U	0.051	U	0.062	U	0.061	U
3,3'-Dichlorobenzidine	5.1	0.0164		mg/kg	0.2	U	0.2	U	0.2	U	0.17	UJ	0.21	U	0.2	U
3-Nitroaniline				mg/kg	0.2	U	0.2	U	0.2	U	0.17	U	0.21	U	0.2	U
4,6-Dinitro-2-Methylphenol	66	0.052		mg/kg	0.59	U	0.59	U	0.6	U	0.51	UJ	0.62	U	0.61	U
4-Bromophenyl Phenyl Ether				mg/kg	0.043	U	0.043	U	0.044	U	0.037	U	0.045	U	0.045	U
4-Chloro-3-Methylphenol	82000	34		mg/kg	0.059	U	0.059	U	0.06	U	0.051	U	0.062	U	0.061	U
4-Chloroaniline	11	0.0032		mg/kg	0.2	U	0.2	U	0.2	U	0.17	UJ	0.21	U	0.2	U
4-Chlorophenyl Phenyl Ether				mg/kg	0.043	U	0.043	U	0.044	U	0.037	U	0.045	U	0.045	U
4-Methylphenol	16000	6		mg/kg	0.059	U	0.059	U	0.06	U	0.051	U	0.17		0.033	J
4-Nitroaniline	110	0.032		mg/kg	0.2	U	0.2	U	0.2	U	0.17	UJ	0.21	U	0.2	U
4-Nitrophenol				mg/kg	0.59	U	0.59	U	0.6	U	0.51	U	0.62	U	0.61	U
Acenaphthene	45000	110		mg/kg	0.02	U	0.02	U	0.02	U	0.017	U	0.25		0.02	
Acenaphthylene				mg/kg	0.02	U	0.02	U	0.02	U	0.016	J	0.021	U	0.15	
Acetophenone	120000	11.6		mg/kg	0.059	U	0.059	U	0.06	U	0.051	U	0.062	U	0.033	J
Anthracene	230000	1160		mg/kg	0.02	U	0.02	U	0.017	J	0.022		0.38		0.11	
Atrazine	10	0.004	0.038	mg/kg	0.2	U	0.2	U	0.2	U	0.17	U	0.21	U	0.2	U
Benzaldehyde	820	0.082		mg/kg	0.2	U	0.2	U	0.2	U	0.17	U	0.075	J	0.2	U
Benzo(A)Anthracene	21	0.22		mg/kg	0.02	U	0.0059	J	0.022		0.09		0.77		0.27	
Benzo(A)Pyrene	2.1	0.58	4.8	mg/kg	0.02	U	0.0065	J	0.021		0.069		0.61		0.37	
Benzo(B)Fluoranthene	21	6		mg/kg	0.02	U	0.0062	J	0.037		0.13		0.89		0.57	
Benzo(G,H,D)perylene				mg/kg	0.02	U	0.02	U	0.022		0.068		0.4		0.4	
Benzo(K)Fluoranthene	210	58		mg/kg	0.02	U	0.0059	J	0.014	J	0.062		0.27		0.25	
bis-(2-Chloroethoxy)Methane	2500	0.26		mg/kg	0.043	U	0.043	U	0.044	U	0.037	U	0.045	U	0.045	U
bis-(2-Chloroethyl)Ether	1	0.000072		mg/kg	0.043	U	0.043	U	0.044	U	0.037	U	0.045	U	0.045	U
bis-(2-Ethylhexyl)Phthalate	160	26	28	mg/kg	0.2	U	0.2	U	0.36		0.12	J	0.23		0.2	U

Table 19. Wastewater Soil Analytical Results
RCRA Facility Investigation Report
Honeywell Delaware Valley Works
Claymont, Delaware
Wood Project No. 3482210786

Parameter	Location Sample ID Sample Date			Units	SBWW-30 SBWW-30_8-10-DUP 7/20/2021		SBWW-31 SBWW-31_8-10 7/16/2021		SBWW-32 SBWW-32_6.5-8.5 7/16/2021		SBWW-33 SBWW-33_0-2 7/16/2021		SBWW-33 SBWW-33_3-5 7/16/2021		SBWW-34 SBWW-34_2.5-4.5 7/16/2021	
	Industrial SSL	Risk-Based SSL DAF-20	MCL-Based SSL DAF-20		Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual	Result	Qual
Butylbenzyl Phthalate	1200	4.8		mg/kg	0.2	U	0.2	U	0.2	U	0.17	U	0.21	U	0.2	U
Caprolactam	400000	50		mg/kg	0.2	U	0.2	U	0.2	U	0.17	U	0.21	U	0.2	UJ
Carbazole				mg/kg	0.043	U	0.043	U	0.044	U	0.037	U	0.045	U	0.047	
Chrysene	2100	180		mg/kg	0.02	U	0.0062	J	0.031		0.11		0.81		0.41	
Dibenzo(a,h)Anthracene	2.1	1.92		mg/kg	0.02	U	0.02	U	0.02	U	0.027		0.13		0.13	
Dibenzofuran	1200	3		mg/kg	0.043	U	0.043	U	0.044	U	0.037	U	0.22		0.057	
Diethyl Phthalate	660000	122		mg/kg	0.2	U	0.2	U	0.2	U	0.17	U	0.21	U	0.2	U
Dimethyl Phthalate				mg/kg	0.2	U	0.2	U	0.2	U	0.17	U	0.21	U	0.2	U
Di-n-Butyl Phthalate	82000	46		mg/kg	0.2	U	0.2	U	0.2	U	0.17	U	0.21	U	0.2	U
Di-n-Octyl Phthalate	8200	1140		mg/kg	0.2	U	0.2	U	0.2	U	0.17	U	0.21	U	0.2	U
Fluoranthene	30000	1780		mg/kg	0.02	U	0.0041	J	0.056		0.14		1.6		0.56	
Fluorene	30000	108		mg/kg	0.02	U	0.02	U	0.02		0.012	J	0.23		0.037	
Hexachlorobenzene	0.96	0.0024	0.26	mg/kg	0.02	U	0.02	U	0.024		0.024		0.021	U	0.015	J
Hexachlorobutadiene	5.3	0.0054		mg/kg	0.059	U	0.059	U	0.06	U	0.051	U	0.062	U	0.061	U
Hexachlorocyclopentadiene	7.5	0.026	3.2	mg/kg	0.59	UJ	0.59	U	0.6	U	0.51	R	0.62	U	0.61	R
Hexachloroethane	8	0.004		mg/kg	0.2	U	0.2	U	0.2	U	0.17	U	0.21	U	0.2	U
Indeno(1,2,3-Cd)Pyrene	21	19.6		mg/kg	0.02	U	0.02	U	0.023		0.075		0.38		0.34	
Isophorone	2400	0.52		mg/kg	0.079	U	0.078	U	0.08	U	0.068	U	0.082	U	0.081	U
Naphthalene	8.6	0.0076		mg/kg	0.024		0.02	U	0.027		0.015	J	0.51		0.3	
Nitrobenzene	22	0.00184		mg/kg	0.043	U	0.043	U	0.044	U	0.037	U	0.045	U	0.053	
n-Nitroso-di-n-Propylamine	0.33	0.000162		mg/kg	0.079	U	0.078	U	0.08	U	0.068	U	0.082	U	0.081	U
n-Nitrosodiphenylamine	470	1.34		mg/kg	0.043	U	0.043	U	0.044	U	0.037	U	0.099		0.058	
Pentachlorophenol	4	0.00114	0.028	mg/kg	0.2	U	0.2	U	0.2	U	0.17	U	0.21	U	0.2	U
Phenanthrene				mg/kg	0.019	J	0.02	U	0.097		0.082		1.4		0.32	
Phenol	250000	66		mg/kg	0.043	U	0.043	U	0.044	U	0.037	U	0.045	U	0.045	U
Pyrene	23000	260		mg/kg	0.02	U	0.02	U	0.073		0.12		1.3		0.4	

Notes:

Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL), Industrial Soil Screening Level (SSL) (November 2021)

Exceeds the EPA RSL, Risk-Based SSL assuming a dilution attenuation factor (DAF) of 20

Exceeds the EPA RSL, Maximum Contaminant Level (MCL) SSL assuming a DAF of 20

Blanks indicate RSL not established or constituent not analyzed

RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0

U = undetected

J = estimated value

J+ = estimated biased high

J- = estimated biased low

R = rejected

MG/KG - milligram per kilogram

SWMU = Solid Waste Management Unit

RCRA = Resource Conservation and Recovery Act

Sample depth shown in Sample ID (e.g., SBBF3-04_6-8 indicates 6 to 8-foot sample)

DUP = Duplicate sample

Exceedances shown may exceed one or more criteria if available

Table 20. RFI Monitoring Well Construction Specifications
RCRA Facility Investigation Report
Honeywell-Delaware Valley Works
Claymont, Delaware
Wood Project No. 3482210786

Well	Date Started	Date Completed	Total Depth (ft)	Screened Interval (ft)	Surface Elevation (ft)	Hole Size (inch)
A05-01	6/18/2020	6/18/2020	11	1-11	19.69	2
A06-01	6/18/2020	6/18/2020	9	4-9	18.32	2
MW-01	5/13/2003	5/13/2003	20	10-20	30.36	6.25
MW-02*	unknown	unknown	unknown	unknown	unknown	unknown
MW-03	5/12/2003	5/12/2003	16	6-16	30.97	6.25
MW-04	5/13/2003	5/13/2003	20	10-20	30.50	6.25
MW-05	11/29/2004	11/29/2004	18	8-18	30.01	6.25
MW-06	11/29/2004	11/29/2004	18	8-18	30.32	6.25
MW-06-01	6/22/2020	6/22/2020	15	5-15	15.91	6
MW-06-02	6/22/2020	6/22/2020	15	5-15	29.28	6
MW-06-03	6/23/2020	6/23/2020	19	9-19	18.67	6
MW-07	11/19/2004	11/19/2004	16	6-16	30.64	6.25
MW-08	11/18/2004	11/18/2004	15	5-15	31.86	6.25
MW-09	1/4/2005	1/4/2005	14	4-14	unknown	6.25
MW-10**	unknown	unknown	unknown	unknown	unknown	unknown
MW-11**	unknown	unknown	unknown	unknown	unknown	unknown
MW-12	11/22/2004	11/22/2004	20	10-20	30.61	6.25
MW-13	11/23/2004	11/23/2004	18	8-18	29.48	6.25
MW-14	11/30/2004	11/30/2004	16	6-16	13.86	6.25
MW-15	11/30/2004	11/30/2004	14	4-14	11.13	6.25
MW-16	12/1/2004	12/1/2004	14	4-14	8.32	6.25
MW-17	12/1/2004	12/2/2004	16	6-16	10.85	6.25
MW-18	12/2/2004	12/2/2004	30	0-30	15.05	6.25
MW-19	12/2/2004	12/2/2004	14	4-14	13.54	6.25
MW-102	unknown	unknown	21	11-21	unknown	2
MW-104	11/19/2002	11/19/2002	16.9	6.9-16.9	28.40	2
MW-116	11/26/2002	11/26/2002	19	9-19	31.60	2
MW-117	11/19/2002	11/19/2002	19	9-19	30.59	2
MW-122	10/26/2016	10/26/2016	23	13-23	unknown	2
EWL-05**	unknown	unknown	19.5	9.5-19.5	unknown	2
EWL-06**	unknown	unknown	unknown	unknown	unknown	unknown
EWL-07**	unknown	unknown	unknown	unknown	unknown	unknown
EWL-08	unknown	unknown	12.8	2.8-12.8	unknown	2
EWL-09**	unknown	unknown	unknown	unknown	unknown	unknown
SM13-MW1	8/14/2015	8/14/2015	18	8-18	29.29	2
SM14-MW1	8/6/2015	8/6/2015	21	11-21	30.95	2
SM14-MW2	8/14/2015	8/14/2015	18.5	8.5-18.5	30.19	2
SM15-MW1**	8/4/2015	8/5/2015	19	9-19	31.13	2
SM15-MW2	8/5/2015	8/5/2015	18	8-18	30.32	2
SM16-MW1	7/31/2015	7/31/2015	15	5-15	30.87	2
SM16-MW2	8/6/2015	8/6/2015	15	5-15	29.75	2
SM17-MW1	8/13/2015	8/13/2015	18	8-18	29.50	2
SM17-MW2	8/13/2015	8/13/2015	17	7-17	30.57	2
SM18-MW1	8/12/2015	8/12/2015	15	5-15	31.03	2
SM19-MW1	8/12/2015	8/12/2015	16.5	6.5-16.5	30.95	2
SM19-MW2	8/11/2015	8/11/2015	17	7-17	30.55	2
SM20-MW1	8/10/2015	8/10/2015	15	5-15	30.97	2
SM20-MW2	8/17/2015	8/17/2015	18	8-18	29.71	2
SM20-MW3	8/10/2015	8/10/2015	20	10-20	30.21	2
SM21-MW1	8/17/2015	8/17/2015	17	7-17	35.48	2
SM21-MW2	8/7/2015	8/7/2015	25	15-25	38.31	2
SM22-MW1	8/7/2015	8/7/2015	19	9-19	33.40	2
SM22-MW2**	8/18/2015	8/18/2015	18	8-19	29.96	2
SM23-MW1	8/19/2015	8/19/2015	14	4-14	29.42	2
SM27-MW1	8/3/2015	8/3/2015	19	9-19	30.68	2
AOC16-MW1	7/31/2015	8/3/2015	18	8-18	29.39	2
AOC16-MW2	8/4/2015	8/4/2015	18	8-18	30.77	2
SM9-MW1	8/25/2015	8/25/2015	40	30-40	21.01	2
SWMU9-MW1	8/19/2018	8/20/2018	87	77-87	45.17	2
SWMU9-MW2	8/22/2018	8/23/2018	57	47-57	27.99	2
MW-123S	10/1/2019	10/1/2019	18.08	5-15	10.43	2
MW-123D	9/30/2019	10/2/2019	37.55	25-35	10.35	2
MW-124S	9/30/2019	9/30/2019	17	5-15	10.43	2
MW-124D	10/2/2019	10/3/2019	40.08	28-38	9.14	2
BF3-MW1	11/11/2021	11/11/2021	14.5	4.5-14.5	31.03	2
BF3-MW2	11/11/2021	11/11/2021	14.3	4.3-14.3	31.46	2
BF3-MW3	11/15/2021	11/15/2021	13	3.0-13.0	31.09	2
BF3-MW4	11/10/2021	11/10/2021	14.9	4.90-14.90	32.61	2
MW-06-01D	11/18/2021	11/22/2021	38	27.5-37.5	30.87	2
MW-06D	11/17/2021	11/19/2021	36.5	26-36	30.40	2
MW-118	11/11/2021	11/11/2021	13.1	3.1-13.1	29.82	2
SM16-MW1D	11/16/2021	11/18/2021	22.5	15-22	30.63	2
WS-MW1	11/10/2021	11/10/2021	15.7	5.7-15.7	32.41	2
WW-MW1	11/10/2021	11/10/2021	13.5	3.5-13.5	30.02	2
WW-MW2	11/9/2021	11/9/2021	13.65	3.65-13.65	30.54	2
WW-MW3	11/9/2021	11/9/2021	17	7-17	30.55	2
WW-MW4	11/9/2021	11/9/2021	15.5	5.5-15.5	31.01	2

Notes

* denotes that MW-02 was collapsed below 10.55'

** denotes that these wells were lost

NM=not measured

NA=non applicable

Table 21. Groundwater Elevation Data
 December 1, 2021
 RCRA Facility Investigation Report
 Honeywell Delaware Valley Works
 Claymont, Delaware
 Wood Project No. 3482210786

Well ID	Top of PVC Elevation (ft msl)	Depth to Water (ft BTOC)	Ground Surface Elevation (ft msl)	Height of PVC Above Ground Surface (ft)	Depth to Water (ft bgs)	Groundwater Elevation (ft msl)
North Plant Wells						
A5-01	25.50	3.72	25.69	-0.19	3.91	21.78
A6-01	23.74	4.03	24.32	-0.58	4.61	19.71
AOC16-MW1	30.77	8.61	31.06	-0.29	8.90	22.16
AOC16-MW2	29.39	7.45	29.72	-0.33	7.78	21.94
BF3-MW1	30.78	5.68	31.03	-0.25	5.93	25.10
BF3-MW2	31.18	6.51	31.46	-0.28	6.79	24.67
BF3-MW3	30.66	6.29	31.09	-0.43	6.72	24.37
BF3-MW4	32.12	7.64	32.61	-0.49	8.13	24.48
EWL-05*	31.49	NA	31.49	0.00	NA	NA
EWL-08*	35.94	3.00	35.94	0.00	3.00	32.94
MW-01**	32.81	9.10	29.81	3.00	6.10	23.71
MW-03*	30.77	5.80	30.77	0.00	5.80	24.97
MW-04**	32.68	9.29	29.68	3.00	6.29	23.39
MW-05*	29.60	5.45	29.60	0.00	5.45	24.24
MW-06**	33.04	11.70	30.04	3.00	8.70	21.34
MW06-01	30.57	6.90	30.91	-0.34	7.24	23.67
MW-06-01D	30.65	8.64	30.87	-0.22	8.86	22.01
MW06-02	30.39	2.15	30.78	-0.39	2.54	28.24
MW06-03	33.20	8.85	30.87	2.33	6.52	24.35
MW-06D	30.09	8.84	30.40	-0.31	9.15	21.25
MW-07*	30.29	4.54	30.29	0.00	4.54	25.75
MW-08**	34.69	8.72	31.69	3.00	5.72	25.97
MW-09**	34.75	7.87	31.75	3.00	4.87	26.88
MW-10**	34.91	11.61	31.91	3.00	8.61	23.30
MW-10**	30.41	6.65	27.41	3.00	3.65	23.76
MW-116*	33.46	10.44	33.46	0.00	10.44	23.02
MW-117*	29.85	4.70	29.85	0.00	4.70	25.15
MW-118	29.56	4.45	29.82	-0.26	4.71	25.11
MW-12*	30.09	4.12	30.09	0.00	4.12	25.97
MW-13*	29.01	6.81	29.01	0.00	6.81	22.20
SM13-MW1	29.29	6.38	29.50	-0.21	6.59	22.91
SM14-MW1	30.95	5.40	31.34	-0.39	5.79	23.55
SM14-MW2	30.19	6.25	30.45	-0.26	6.51	23.94
SM15-MW1	31.13	NA	31.69	-0.56	NA	NA
SM15-MW2	30.32	4.73	30.66	-0.34	5.07	23.59
SM16-MW1	30.87	4.98	31.18	-0.31	5.29	23.89
SM16-MW1D	30.49	6.85	30.63	-0.14	6.99	23.64
SM16-MW2	29.75	4.05	30.28	-0.53	4.58	23.70
SM17-MW1	29.50	4.96	29.66	-0.16	5.12	24.54
SM17-MW2	30.57	5.95	30.67	-0.10	6.05	24.62
SM18-MW1	31.03	4.60	31.47	-0.44	5.04	26.43
SM19-MW1	30.95	6.24	31.43	-0.48	6.72	24.71
SM19-MW2	30.55	4.60	30.99	-0.44	5.04	25.95
SM20-MW1	30.97	1.15	31.26	-0.39	1.54	29.82
SM20-MW2	29.71	5.59	29.95	-0.24	5.83	24.12
SM20-MW3	30.21	5.90	30.48	-0.27	6.17	24.31
SM21-MW1	35.48	10.90	35.86	-0.38	11.28	24.58
SM21-MW2	38.31	13.89	38.55	-0.24	14.13	24.42
SM22-MW1	33.40	9.36	33.50	-0.10	9.46	24.04
SM22-MW2	29.96	NA	30.27	-0.31	NA	NA
SM23-MW1	29.42	6.80	29.84	-0.42	7.22	22.62
SM27-MW1	30.68	7.44	31.09	-0.41	7.85	23.24
WS-MW1	31.99	7.75	32.41	-0.42	8.17	24.24
WW-MW1	29.57	5.47	30.02	-0.45	5.92	24.10
WW-MW2	30.20	6.41	30.54	-0.34	6.75	23.79
WW-MW3	30.26	6.62	30.55	-0.29	6.91	23.64
WW-MW4	30.64	7.73	31.01	-0.37	8.10	22.91
SWMU 9 Wells						
MW-14	16.69	13.86	13.82	2.87	10.99	2.83
MW-15	14.12	9.99	11.14	2.98	7.01	4.13
MW-16	11.10	7.94	8.04	3.06	4.88	3.16
MW-17	13.60	10.00	10.75	2.85	7.15	3.60
MW-18	17.49	14.06	14.84	2.65	11.41	3.43
MW-19	16.22	12.73	13.36	2.86	9.87	3.49
MW-122	16.31	13.50	13.73	2.58	10.92	2.81
MW-48	10.04	5.98	8.24	1.80	4.18	4.06
MW-557	9.72	7.22	7.25	2.47	4.75	2.50
MW-558	12.72	12.00	10.30	2.42	9.58	1.80
MW-559	12.30	10.18	9.54	2.76	7.42	2.12
MW-560	8.95	6.98	6.44	2.51	4.47	1.97
SWMU9-MW-1-2018	47.84	45.30	45.17	2.67	42.63	2.54
SWMU9-MW-2-2018	30.98	28.10	27.99	2.99	25.11	2.88
SM9-MW1	21.54	16.97	21.54	0.00	16.97	4.57
MW-123S	12.95	9.10	10.43	2.52	6.58	3.85
MW-123D	12.73	10.67	10.35	2.38	8.29	2.06
MW-124S	11.32	7.93	10.43	0.89	7.04	3.39
MW-124D	11.16	9.16	9.14	2.02	7.14	2.00
Lower stream gauge(a)	0.90	4.81	NA	NA	NA	3.71
Upper stream gauge(b)	-0.07	4.81	NA	NA	NA	2.74

Notes:

ft = feet

ft msl = feet above mean sea level

PVC = polyvinyl chloride

ft BTOC = feet below top of PVC casing

ft bgs = feet below ground surface

* = Ground surface elevation assumed to be approximately equal to top of PVC elevation

** = Ground surface elevation assumed to be approximately 3 feet below top of PVC elevation.

^(a) Reference Elevation for lower stream gauge was surveyed at the 2-foot mark; depth to water measurement shown is height of water level on staff gauge, in

^(b) Reference Elevation for upper stream gauge was surveyed at 1-foot mark; depth to water measurement shown is height of water level on staff gauge, in feet. SWMU 9 water level measurements collected on December 6, 2019.

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	MDE GNCS, Type I and II Aquifers	Location ID Sample ID Sample Date	A5-01 A5-01-121421 12/14/2021	A6-01 A6-01-121421 12/14/2021	AOC16-MW1 AOC16-MW1-120821 12/8/2021	AOC16-MW2 AOC16-MW2-120621 12/6/2021	BF3-MW1 BF3-MW1-121321 12/13/2021	BF3-MW2 BF3-MW2-121321 12/13/2021	BF3-MW3 BF3-MW3-121321 12/13/2021	BF3-MW4 BF3-MW4-121321 12/13/2021	EWL-08 EWL-08-120621 12/6/2021	MW-01 MW-01-120321 12/3/2021
Field Parameters												
Temperature	NG	degrees C	13.61	13.96	15.97	19.14	16.7	16.3	17.1	14.49	16.61	17.58
pH	NG	Standard Units	6.84	6.89	5.93	5.23	6.1	4.63	5.49	4.37	7.1	6.04
Conductivity	NG	ms/cm	0.73	1.54	0.556	1.34	1.07	1.74	4.93	3.82	1.12	2.39
Oxidation-Reduction Potential	NG	mV	110.00	82.00	61.00	121.00	-41.00	207.00	64.00	223.00	-3.00	-81.00
Dissolved Oxygen	NG	mg/L	1.83	0	0	0	0	0	0	0	0	0
Turbidity	NG	NTU	800	531	42.7	24.3	0.3	9.4	21	240	29.9	29.8

Notes:
 ms/cm - Millisiemens per centimeter; NTU - Nephelometric Turbidity
 unit; mV - millivolts; mg/L - milligrams per liter.

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	MDE GNCS, Type I and II Aquifers	Location ID Sample ID Sample Date	MW-03 MW-03-120721 12/7/2021	MW-04 MW-04-120221 12/2/2021	MW-05 MW-05-120321 12/3/2021	MW-06 MW-06-120921 12/9/2021	MW06-01 MW06-01-120921 12/9/2021	MW06-01D MW06-01D-121021 12/10/2021	MW-06-02 MW-06-02-120921 12/9/2021	MW-06D MW-06D-121021 12/10/2021	MW-07 MW-07-120721 12/7/2021	MW-08 MW-08-120221 12/2/2021
Field Parameters												
Temperature	NG	degrees C	17.95	16.31	16.79	15.78	17.11	16.38	16.13	15.1	17.08	14.68
pH	NG	Standard Units	6.19	6.58	6.27	6.45	6.23	6.4	8.46	6.29	7.13	6.08
Conductivity	NG	ms/cm	0.431	1.58	1.06	0.792	5.02	2.26	0.998	1.43	0.35	0.11
Oxidation-Reduction Potential	NG	mV	-72.00	195.00	-38.00	-49.00	-35.00	-56.00	-182.00	-91.00	-86.00	221.00
Dissolved Oxygen	NG	mg/L	0	0	0	0	0	0	0	0	0	1.93
Turbidity	NG	NTU	51.7	14.2	21.9	0.6	10.1	21.8	238	30.1	115	12.3

Notes:
 ms/cm - Millisiemens per centimeter; NTU - Nephelometric Turbidity
 unit; mV - millivolts; mg/L - milligrams per liter.

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	MDE GNCS, Type I and II Aquifers	Location ID Sample ID Sample Date	MW-09 MW-09-120221 12/2/2021	MW-102 MW-102-120321 12/3/2021	MW-104 MW-104-120721 12/7/2021	MW-116 MW-116-120921 12/9/2021	MW-117 MW-117-120621 12/6/2021	MW-118 MW-118-121321 12/13/2021	MW-12 MW-12-120821 12/8/2021	MW-13 MW-13-121521 12/15/2021	MW-13 MW-13-120721 12/7/2021	MW6-03 MW06-03-120921 12/9/2021
Field Parameters												
Temperature	NG	degrees C	14.04	15.92	17.02	12.77	16.69	17.42	16.76	17.42	16.88	17.02
pH	NG	Standard Units	6.48	5.9	6.21	6.47	6.87	6.93	6.47	6.34	6.5	6.29
Conductivity	NG	ms/cm	0.35	0.79	1.62	0.63	0.668	0.61	0.995	1.35	1.35	0.73
Oxidation-Reduction Potential	NG	mV	125.00	140.00	-58.00	157.00	-46.00	-67.00	-80.00	-85.00	-75.00	-2.00
Dissolved Oxygen	NG	mg/L	1.48	0.18	0	1.48	0	0	0	0	0	0
Turbidity	NG	NTU	26.8	20.6	6.5	79.8	9.2	4.9	17.6	92.5	44.4	42.7

Notes:
 ms/cm - Millisiemens per centimeter; NTU - Nephelometric Turbidity
 unit; mV - millivolts; mg/L - milligrams per liter.

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	MDE GNCS, Type I and II Aquifers	Location ID Sample ID Sample Date	SM13-MW1 SM13-MW1-120621 12/6/2021	SM13-MW1 SM13-MW1-120621 12/6/2021	SM14-MW1 SM14-MW1-120921 12/9/2021	SM14-MW2 SM14-MW2-120821 12/8/2021	SM15-MW2 SM15-MW2-120821 12/8/2021	SM16-MW1 SM16-MW1-120921 12/9/2021	SM16-MW1D SM16-MW1D-121021 12/10/2021	SM16-MW2 SM16-MW2-120821 12/8/2021	SM17-MW1 SM17-MW1-120321 12/3/2021	SM17-MW2 SM17-MW2-120821 12/8/2021
Field Parameters												
Temperature	NG	degrees C	16.28	17.93	16.66	15.72	16.23	17.57	18.01	17.8	16.3	15.9
pH	NG	Standard Units	6.32	6.69	5.96	5.74	6.19	5.88	6.59	6.52	6.59	6.68
Conductivity	NG	ms/cm	0.613	0.51	0.935	0.83	0.476	0.958	0.609	0.44	0.592	0.63
Oxidation-Reduction Potential	NG	mV	-39.00	-74.00	-19.00	-14.00	-23.00	-12.00	-95.00	-12.00	-79.00	-63.00
Dissolved Oxygen	NG	mg/L	0	0	0	0	0	0	0	0	0	0
Turbidity	NG	NTU	71.2	5.4	25.5	56.3	28.4	1000	6.9	280	5.6	9.1

Notes:
 ms/cm - Millisiemens per centimeter; NTU - Nephelometric Turbidity
 unit; mV - millivolts; mg/L - milligrams per liter.

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	MDE GNCS, Type I and II Aquifers	Location ID Sample ID Sample Date	SM18-MW1 SM18-MW1-120821 12/8/2021	SM19-MW1 SM-19-MW1-120821 12/8/2021	SM19-MW2 SM19-MW2-120621 12/6/2021	SM20-MW1 SM20-MW1-120221 12/2/2021	SM20-MW2 SM20-MW2-120221 12/2/2021	SM20-MW3 SM20-MW3-120721 12/7/2021	SM21-MW1 SM21-MW1-120621 12/6/2021	SM21-MW2 SM21-MW2-120221 12/2/2021	SM22-MW1 SM22-MW1-120721 12/7/2021	SM23-MW1 SM23-MW1-120621 12/6/2021
Field Parameters												
Temperature	NG	degrees C	17.21	17.49	14.97	17.9	17.77	17.69	17.4	16.35	16.24	17.22
pH	NG	Standard Units	6.62	4.61	3.31	12.53	6.56	6.8	6.23	6.85	4.29	5.37
Conductivity	NG	ms/cm	0.88	2.97	2.96	3.89	1.21	0.61	10.3	0.39	2.51	0.63
Oxidation-Reduction Potential	NG	mV	-105.00	100.00	217.00	-308.00	-10.00	-63.00	-34.00	-66.00	145.00	188.00
Dissolved Oxygen	NG	mg/L	0	0	0	0	0	0	0	0	0	0.96
Turbidity	NG	NTU	289	302	0	7.9	61.3	47.1	63.6	219	14.2	98

Notes:
 ms/cm - Millisiemens per centimeter; NTU - Nephelometric Turbidity
 unit; mV - millivolts; mg/L - milligrams per liter.

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	MDE GNCS, Type I and II Aquifers	Location ID Sample ID Sample Date	SM27-MW1 SM27-MW1-120321 12/3/2021	WW-MW1 WW-MW1-121321 12/13/2021	WW-MW2 WW-MW2-121021 12/10/2021	WW-MW3 WW-MW3-121021 12/10/2021	WW-MW4 WW-MW4-121021 12/10/2021
Field Parameters							
Temperature	NG	degrees C	16.89	16.69	16.5	18.06	15.86
pH	NG	Standard Units	5.68	7.22	7.13	6.73	6.91
Conductivity	NG	ms/cm	0.717	0.97	3.9	1.43	1.58
Oxidation-Reduction Potential	NG	mV	42.00	-158.00	-178.00	-106.00	-80.00
Dissolved Oxygen	NG	mg/L	0	0	0	0	0
Turbidity	NG	NTU	50	30.9	82.1	34.1	1000

Notes:
 ms/cm - Millisiemens per centimeter; NTU - Nephelometric Turbidity
 unit; mV - millivolts; mg/L - milligrams per liter.

Table 23. VOCs Groundwater Analytical Results
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Parameter	Unit	Location ID		A05-01		A06-01		AOC16-MW01		AOC16-MW02		BF3-MW1		BF3-MW1		BF3-MW2		BF3-MW3		BF3-MW3		BF3-MW4		EWL-8		MW-01		MW-03		MW-04		MW-05			
		NOV2021R SL_MCL	NOV2021RS L_TAPW	Sample ID	Sample Date	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual		
1,1,1-Trichloroethane	ug/l	200	8000			0.5	U	0.5	U	0.5	U	1	U	100	U	100	U	250	U	25	U	25	U	0.5	U	5	U	50	U	25	U	0.5	U	1	U
1,1,2,2-Tetrachloroethane	ug/l		0.076			0.5	U	0.5	U	0.5	U	1	U	100	U	100	U	250	U	25	U	25	U	0.5	U	5	U	50	U	25	U	0.5	U	1	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/l		10000			31	J	13		0.63		1.2	J+	1600	NQ	1300		32	J+	980	J-	1100	J-	2.5	NQ	0.63	J	41000		850		0.5	U	14	U
1,1,2-Trichloroethane	ug/l	5	0.28			0.5	U	0.5	U	0.5	U	1	U	100	U	100	U	250	U	25	U	25	U	0.5	U	5	U	50	U	25	U	0.5	U	1	U
1,1-Dichloroethane	ug/l		2.8			0.5	U	0.5	U	0.5	U	1	U	100	U	100	U	250	U	25	U	25	U	0.5	U	5	U	50	U	25	U	0.5	U	1	U
1,1-Dichloroethene	ug/l	7	280			0.5	U	0.5	U	0.5	U	1	U	100	U	100	U	250	U	17	J	17	J	0.21	J	5	U	250		25	U	0.5	U	0.19	J
1,2,3-Trichlorobenzene	ug/l		7			0.5	U	0.5	U	1.3		0.46	J	100	U	100	U	250	U	25	U	25	U	0.5	U	0.52	J	5.2	J	25	U	0.5	U	1	U
1,2,4-Trichlorobenzene	ug/l	70	1.2			0.5	U	0.5	U	16		4.7	NQ	100	U	100	U	250	U	25	U	25	U	0.5	U	7	NQ	29	J	25	U	0.5	U	0.4	J
1,2-Dibromo-3-Chloropropane	ug/l	0.2	0.00033			0.5	U	0.5	U	0.5	U	1	U	100	U	100	U	250	U	25	U	25	U	0.5	U	5	U	50	U	25	U	0.5	U	1	U
1,2-Dibromoethane	ug/l	0.05	0.0075			0.5	U	0.5	U	0.5	U	1	U	100	U	100	U	250	U	25	U	25	U	0.5	U	5	U	50	U	25	U	0.5	U	1	U
1,2-Dichlorobenzene	ug/l	600	300			1		1.1		36		12	NQ	49	J	44	J	250	U	25	U	25	U	0.38	J	53	NQ	12000		15	J	0.5	U	17	U
1,2-Dichloroethane	ug/l	5	0.17			0.5	U	0.5	U	0.5	U	1	U	100	U	100	U	250	U	25	U	25	U	0.5	U	5	U	50	U	25	U	0.5	U	0.19	J
1,2-Dichloropropane	ug/l	5	0.85			0.5	U	0.5	U	0.5	U	1	U	100	U	100	U	250	U	25	U	25	U	0.5	U	5	U	50	U	25	U	0.5	U	1	U
1,3-Dichlorobenzene	ug/l		0.5			0.5	U	0.5	U	2.1		0.94	J	100	U	100	U	250	U	25	U	25	U	0.5	U	3.8	J	100		25	U	0.5	U	1	U
1,4-Dichlorobenzene	ug/l	75	0.48			0.072	J	0.16	J	68		23	NQ	100	U	100	U	250	U	25	U	25	U	0.23	J	90	NQ	1600		6.3	J	0.5	U	0.58	J
1,4-Dioxane	ug/l		0.46			100	UJ	100	U	100	UJ	200	UJ	20000	UJ	20000	UJ	50000	UJ	5000	U	5000	U	100	UJ	1000	UJ	10000	UJ	5000	UJ	100	UJ	200	UJ
2-Butanone	ug/l		5600			5	U	5	U	5	U	10	U	1000	U	1000	U	2500	U	250	U	250	U	0.97	J	50	U	500	U	250	U	5	U	10	U
2-Hexanone	ug/l		38			5	U	5	UJ	5	U	10	U	1000	U	1000	U	2500	U	250	UJ	250	UJ	5	U	50	U	500	U	250	U	5	U	10	U
4-Methyl-2-Pentanone	ug/l		6300			5	U	5	UJ	5	U	10	U	1000	U	1000	U	2500	U	250	UJ	250	UJ	5	U	50	U	500	U	250	U	5	U	10	U
Acetone	ug/l		18000			5	U	5	U	5	U	2.4	J	1000	U	1000	U	2500	U	250	U	250	U	5	U	50	U	3900	U	250	U	5	U	10	U
Benzene	ug/l	5	0.46			0.47	J	0.5	U	27		19	NQ	10	J	100	U	49	J+	77	NQ	80		3.6	NQ	3.8	J	190		3.8	J	0.068	J	2	U
Bromochloromethane	ug/l		83			0.5	U	0.5	U	0.5	U	1	U	100	U	100	U	250	U	25	U	25	U	0.5	U	5	U	50	U	25	U	0.5	U	1	U
Bromodichloromethane	ug/l	80	0.13			0.5	U	0.5	U	0.5	U	1	U	100	U	100	U	250	U	25	U	25	U	0.5	U	5	U	50	U	25	U	0.5	U	1	U
Bromoform	ug/l	80	3.3			1	U	1	U	1	U	2	U	200	U	200	U	500	U	50	U	50	U	1	U	10	U	100	U	50	U	1	U	2	U
Bromomethane	ug/l		7.5			0.5	U	0.5	U	0.5	U	1	U	100	U	100	U	250	U	25	U	25	U	0.5	U	5	U	50	U	25	U	0.5	U	1	U
Carbon Disulfide	ug/l		810			1	U	1	U	1	U	2	U	200	U	200	U	500	U	50	U	50	U	1	U	10	U	260	U	50	U	1	U	0.22	J
Carbon Tetrachloride	ug/l	5	0.46			0.5	U	0.5	U	0.5	U	1	U	100	U	100	U	250	U	25	U	25	U	0.5	U	5	U	50	U	25	U	0.5	U	1	U
Chlorobenzene	ug/l	100	78			2		0.41	J	1700		510	J-	55000		55000		56000		6700		6600		29		640		100		7700		1.3		250	
Chloroethane	ug/l		8300			0.5	U	0.5	U	0.5	U	1	U	100	U	100	U	250	U	25	U	25	U	0.5	U	5	U	50	U	25	U	0.5	U	1	U
Chloroform	ug/l	80	0.22			0.5	U	0.5	U	0.5	U	1	U	820	NQ	780		760	J+	25	U	25	U	0.5	U	5	U	24000		25	U	0.5	U	4.1	U
Chloromethane	ug/l		190			0.5	U	0.5	U	0.5	U	1	U	100	U	100	U	250	U	25	U	25	U	0.5	U	5	U	50	U	25	U	0.5	U	1	U
cis-1,2-Dichloroethane	ug/l	70	36			4		5.3		11		12	NQ	12	J	10	J	250	U	1300		1300		0.43	J	5	U	1300		25	U	0.5	U	36	U
cis-1,3-Dichloropropene	ug/l		13000			0.5	U	0.5	U	0.5	U	1	U	100	U	100	U	250	U	25	U	25	U	0.5	U	5	U	50	U	25	U	0.5	U	1	U
Cyclohexane	ug/l	80	0.87			0.5	U	0.5	U	0.19	J	1	U	100	U	100	U	250	U	25	UJ	25	UJ	0.5	U	5	U	50	U	25	U	0.5	U	1	U
Dibromochloromethane	ug/l		80			0.5	U	0.5	U	0.5	U	1	U	100	U	100	U	250	U	25	U	25	U	0.5	U	5	U	50	U	25	U	0.5	U	1	U
Dichlorodifluoromethane	ug/l		200			0.5	UJ	0.5	UJ	0.5	UJ	1	UJ	100	U	100	U	250	U	25	U	25	U	0.5	U	5	U	50	U	25	UJ	0.5	UJ	1	U
Diethyl Ether	ug/l		3900			0.7		0.57	J-	4.5		10	NQ	310	J+	300	J+	250	U	5200	J-	5000	J-	8.3	NQ	4.9	J	290		25	U	0.5	U	7.3	U
Ethylbenzene	ug/l	700	1.5			0.082	J	0.5	U	0.48	J	1	U	100	U	100	U	250	U	25	U	25	U	0.12	J	5	U	33	J	25	U	0.5	U	1	U
Isopropylbenzene	ug/l		450			0.5	U	0.5	U	0.32	J	1	U	100	U	100	U	250	U	25	U	25	U	0.5	U	5	U	50	U	25	U	0.5	U	1	U
m&p-Xylenes	ug/l		0.17			J		0.5	U	0.36	J	1	U	100	U	100	U	250	U	25	U	25	U	0.19	J	5	U	200		25	U	0.5	U	1	U
Methyl Acetate	ug/l		20000			1	U	1	UJ	1	U	2	U	200	U	200	U	500	U	50	U	50	U	1	U	10	U	100	U	50	U	1	U	2	U
Methyl Tert-Butyl Ether	ug/l		14			0.5	U	0.063	J																										

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Parameter	Unit	Location ID		MW-06		MW-06		MW06-01		MW06-01		MW06-02		MW06-03		MW-07		MW-08		MW-09		MW-102		MW-102		MW-104		MW-116		MW-117		MW-118	
		NOV2021R SL_MCL	NOV2021RS L_TAPW	Sample ID Sample Date	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result
1,1,1-Trichloroethane	ug/l	200	8000			25	U	48	U	250	U	25	U	100	U	100	U	0.5	U	0.5	U	5	U	5	U	2.5	U	0.5	U	0.57	NQ	9	NQ
1,1,2,2-Tetrachloroethane	ug/l		0.076			25	U	25	U	250	U	25	U	100	U	100	U	0.5	U	0.5	U	5	U	5	U	2.5	U	0.5	U	0.5	U	2.5	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/l		10000	39000		5100	U	250	U	300	U	57000	U	23000	U	1.6	NQ	0.5	U	0.5	U	1800	U	1500	U	840	U	0.5	U	1.4	J	17	NQ
1,1,2-Trichloroethane	ug/l	5	0.28			25	U	25	U	250	U	25	U	100	U	100	U	0.5	U	0.5	U	5	U	5	U	2.5	U	0.5	U	0.5	U	2.5	U
1,1-Dichloroethane	ug/l		2.8			25	U	25	U	250	U	25	U	100	U	100	U	0.23	J	0.5	U	0.5	U	5	U	45	NQ	0.5	U	4.9	NQ	41	NQ
1,1-Dichloroethane	ug/l	7	280			25	U	23	J	250	U	3.9	J	100	U	100	U	1	U	0.5	U	0.5	U	4.6	J	3.8	J	5.1	NQ	0.5	U	0.5	U
1,2,3-Trichlorobenzene	ug/l		7			25	U	3.2	J	250	UJ	25	UJ	100	UJ	100	UJ	1	U	0.5	U	0.5	U	5	U	2.5	U	0.5	U	0.5	U	2.5	U
1,2,4-Trichlorobenzene	ug/l	70	1.2			6.4	J	21	J	250	U	3.7	J	18	J	100	U	1	U	0.5	U	0.5	U	5	U	5	U	0.51	J	0.5	U	0.5	U
1,2-Dibromo-3-Chloropropane	ug/l	0.2	0.00033			25	U	25	U	250	U	25	U	100	U	100	U	1	U	0.5	U	0.5	U	5	U	5	U	2.5	U	0.5	U	0.5	U
1,2-Dibromoethane	ug/l	0.05	0.0075			25	U	25	U	250	U	25	U	100	U	100	U	1	U	0.5	U	0.5	U	5	U	5	U	2.5	U	0.5	U	0.5	U
1,2-Dichlorobenzene	ug/l	600	300			3200		1600		250	U	98		12000		2700		1.2	NQ	0.5	U	0.5	U	1	J	1.1	J	770		0.5	U	2.4	NQ
1,2-Dichloroethane	ug/l	5	0.17			25	U	25	U	250	U	25	U	100	U	100	U	1	U	0.5	U	0.5	U	0.73	J	0.65	J	1	J	0.5	U	0.5	U
1,2-Dichloropropane	ug/l	5	0.85			25	U	25	U	250	U	25	U	100	U	100	U	1	U	0.5	U	0.5	U	5	U	5	U	2.5	U	0.5	U	0.5	U
1,3-Dichlorobenzene	ug/l		25			3	J	250	U	25	U	27	J	100	U	100	U	1	U	0.5	U	0.5	U	5	U	5.5	NQ	0.5	U	0.074	J	0.67	J
1,4-Dichlorobenzene	ug/l	75	0.48			30		38		250	U	22	J	540		19	J	0.15	J	0.5	U	0.5	U	2.6	J	2.8	J	66	NQ	0.086	J	0.39	J
1,4-Dioxane	ug/l		0.46	5000	UJ	5000	U	50000	U	5000	U	20000	U	20000	U	200	UJ	100	UJ	100	UJ	1000	UJ	1000	UJ	150	J	100	UJ	100	U	180	J
2-Butanone	ug/l		5600	250	U	250	U	2500	U	250	U	1000	U	1000	U	10	U	5	U	5	U	50	U	50	U	25	U	5	U	5	U	5	U
2-Hexanone	ug/l		38	250	U	250	U	2500	U	250	U	1000	U	1000	U	10	U	5	U	5	U	50	U	50	U	25	U	5	U	5	U	5	U
4-Methyl-2-Pentanone	ug/l		6300	250	U	250	U	2500	U	250	U	1000	U	1000	U	10	U	5	U	5	U	50	U	50	U	25	U	5	U	5	U	5	U
Acetone	ug/l		18000	2000		250		2500		250	U	3100		1600		1.9	J	5	U	5	U	93		81		59	NQ	5	U	5	U	26	NQ
Benzene	ug/l	5	0.46			1200		230		58	J	1600		9900		26	J	0.31	J	0.5	U	0.5	U	3.5	J	3.1	J	270		0.5	U	0.18	J
Bromochloromethane	ug/l		83	25	U	25	U	250	U	25	U	100	U	100	U	1	U	0.5	U	0.5	U	5	U	5	U	2.5	U	0.5	U	0.5	U	2.5	U
Bromodichloromethane	ug/l	80	0.13			25	U	25	U	250	U	25	U	100	U	100	U	1	U	0.5	U	0.5	U	5	U	5	U	2.5	U	0.5	U	0.5	U
Bromoform	ug/l	80	3.3			50	U	50	U	500	U	50	U	200	U	200	U	2	U	1	U	10	U	10	U	5	U	1	U	1	U	5	U
Bromomethane	ug/l		7.5	25	U	25	U	250	U	25	U	100	U	100	U	1	U	0.5	U	0.5	U	5	U	5	U	2.5	U	0.5	U	0.5	U	2.5	U
Carbon Disulfide	ug/l		810	50	U	50	UJ	500	UJ	500	UJ	200	UJ	200	UJ	2	U	1	U	1	U	10	U	10	U	5	U	1	U	0.15	J	5	U
Carbon Tetrachloride	ug/l	5	0.46			25	U	25	U	250	U	25	U	100	U	100	U	1	U	0.5	U	0.5	U	2.9	J	2.5	J	2.5	U	0.5	U	0.5	U
Chlorobenzene	ug/l	100	78			5200		4800		68000		12000		34000		1000		76		0.5	U	0.5	U	7.4		10		91	NQ	0.5	U	24	NQ
Chloroethane	ug/l		8300	25	U	25	U	250	U	25	U	100	U	100	U	1	U	0.5	U	0.5	U	5	U	5	U	1.7	J	0.5	U	0.5	U	2.5	U
Chloroform	ug/l	80	0.22			320		25	U	250	U	25	U	58	J	100	U	1	U	0.5	U	0.5	U	65		55		2.5	U	0.5	U	0.5	U
Chloromethane	ug/l		190	25	U	25	U	250	U	25	U	100	U	100	U	1	U	0.5	U	0.5	U	5	U	5	U	2.5	U	0.5	U	0.5	U	2.5	U
cis-1,2-Dichloroethane	ug/l	70	36			6700		1200		36	J	710		14000		550		0.68	J	0.5	U	0.5	U	0.53	U	5	U	690		0.051	J	0.99	NQ
cis-1,3-Dichloropropene	ug/l			25	U	25	U	250	U	25	U	100	U	100	U	1	U	0.5	U	0.5	U	5	U	5	U	2.5	U	0.5	U	0.5	U	0.5	U
Cyclohexane	ug/l		13000	25	U	25	U	250	U	25	U	100	U	100	U	1	U	0.5	U	0.5	U	5	U	5	U	2.8	NQ	0.5	U	0.11	J	3.5	NQ
Dibromochloromethane	ug/l	80	0.87			25	U	25	U	250	U	25	U	100	U	100	U	1	U	0.5	U	0.5	U	5	U	5	U	2.5	U	0.5	U	0.5	U
Dichlorodifluoromethane	ug/l		200	25	U	25	U	250	U	25	U	100	U	100	U	1	U	0.5	U	0.5	U	5	U	5	U	2.5	U	0.5	U	0.5	U	2.5	U
Diethyl Ether	ug/l		3900	25	U	27		250	U	59		100	U	100	U	1.1	NQ	0.5	U	0.5	U	1.1	J	5	U	930		0.5	U	3	NQ	65	J+
Ethylbenzene	ug/l	700	1.5			25	U	11	J	250	U	31		100	U	100	U	1	U	0.5	U	0.5	U	5	U	5	U	3	NQ	0.5	U	0.14	J
Isopropylbenzene	ug/l		450	25	U	25	U	250	U	25	U	100	U	100	U	1	U	0.5	U	0.5	U	5	U	5	U	2.5	U	0.5	U	0.5	U	0.5	U
m&p-Xylenes	ug/l		25	U	U	25	U	250	U	25	U	100	U	100	U	1	U	0.5	U	0.5	U	5	U	5	U	1	J	0.5	U	0.5	U	240	NQ
Methyl Acetate	ug/l		20000	50	U	50	U	500	U	50	U	200	U	200	U	2	U	1	U	1	U	10	U	10	U	5	U	1	U	1	U	5	U
Methyl Tert-Butyl Ether	ug/l		14	25	U	25	U	250	U	25	U	100	U	100	U	1	U	0.5	U	0.5	U	5	U	5	U	2.5	U	0.5	U	0.5	U	2.5	U
Methylcyclohexane	ug/l			25	U	25	U	250	U	25	U	100	U	100	U	1	U	0.5	U	0.5	U	5	U	5	U	1.4	J	0.5	U	0.5	U	0.68	J
Methylene Chloride	ug/l	5	11			540																											

Table 23. VOCs Groundwater Analytical Results
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Parameter	Unit	Location ID		MW-12		MW-13		SM13-MW01		SM13-MW01		SM14-MW01		SM14-MW01		SM14-MW02		SM15-MW02		SM16-MW01		SM16-MW01		SM16-MW02		SM17-MW01		SM17-MW02		SM18-MW01							
		NOV2021R SL_MCL	NOV2021RS L_TAPW	Sample ID 12/8/2021	Sample Date 12/8/2021	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual						
1,1,1-Trichloroethane	ug/l	200	8000	10	U	5	U	0.5	U	0.5	U	50	U	50	U	10	U	10	U	35000	U	53	J	11	U	0.5	U	25	U	0.5	U						
1,1,2-Trichloroethane	ug/l		0.076	10	U	5	U	0.5	U	0.5	U	50	U	50	U	10	U	10	U	500	U	100	U	5	U	0.5	U	25	U	0.5	U						
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/l		10000	3700	U	4900	J-	1.4	NQ	1.8	NQ	480	U	550	U	10	UJ	250	J	1500	U	6900	U	20000	U	200	U	6.4	U	25	U	330	U				
1,1,2-Trichloroethane	ug/l	5	0.28	10	U	5	U	0.5	U	0.5	U	50	U	50	U	10	U	10	U	1.8	J	66	J	100	U	5	U	0.5	U	25	U	0.5	U				
1,1-Dichloroethane	ug/l		2.8	67	U	5	U	0.092	J	0.12	J	76	U	95	U	28	U	30	U	3.8	J	190	J	100	U	4.6	J	0.16	J	14	J	10	U				
1,1-Dichloroethane	ug/l	7	280	10	U	14	NQ	0.5	NQ	0.65	NQ	65	U	79	U	10	U	10	U	14	J	2000	U	180	U	5	U	0.2	J	20	J	1.3	U				
1,2,3-Trichlorobenzene	ug/l		7	10	U	0.51	J	0.5	U	0.5	U	50	U	50	U	10	U	10	U	500	UJ	100	UJ	5	U	0.5	U	25	U	0.5	U						
1,2,4-Trichlorobenzene	ug/l	70	1.2	10	U	0.78	J	0.074	J	0.089	J	50	U	50	U	10	U	10	U	500	U	100	U	5	U	0.094	J	25	U	0.5	U						
1,2-Dibromo-3-Chloropropane	ug/l	0.2	0.00033	10	U	5	U	0.5	U	0.5	U	50	U	50	U	10	U	10	U	500	U	100	U	5	U	0.5	U	25	U	0.5	U						
1,2-Dibromoethane	ug/l	0.05	0.0075	10	U	5	U	0.5	U	0.5	U	50	U	50	U	10	U	10	U	500	U	100	U	5	U	0.5	U	25	U	0.5	U						
1,2-Dichlorobenzene	ug/l	600	300	400	J	460	J	18	NQ	22	NQ	150	U	190	U	2	J	28	J	100	U	1900	U	1100	U	1.8	J	2.4	J	94	J	0.63	U				
1,2-Dichloroethane	ug/l	5	0.17	4.9	J	1.4	J	0.5	U	0.5	U	42	J	56	J	10	U	10	U	18	J	92	J	100	U	5	U	0.5	U	25	U	1.1	U				
1,2-Dichloropropane	ug/l	5	0.85	10	U	5	U	0.5	U	0.5	U	50	U	50	U	10	U	10	U	500	U	100	U	5	U	0.5	U	25	U	0.5	U						
1,3-Dichlorobenzene	ug/l	10	0.1	10	U	6.6	NQ	0.13	J	0.16	J	50	U	50	U	10	U	10	U	500	U	19	J	5	U	0.5	U	25	U	0.5	U						
1,4-Dichlorobenzene	ug/l	75	0.48	9	J	44	NQ	2.4	NQ	3	J	50	U	50	U	10	U	10	U	5.3	J	320	J	160	U	5	U	0.31	J	13	J	0.071	J				
1,4-Dioxane	ug/l		0.46	650	J-	1000	UJ	100	UJ	100	UJ	10000	UJ	2500	J-	2000	UJ	2000	UJ	100000	U	20000	U	1000	UJ	100	UJ	5000	UJ	100	UJ	U	U				
2-Butanone	ug/l		5600	100	U	50	U	5	U	5	U	500	U	500	U	100	U	100	U	5000	U	1000	U	50	U	5	U	250	U	5	U	5	U	U	U		
2-Hexanone	ug/l		38	100	U	50	U	5	U	5	U	500	U	500	U	100	U	100	U	5000	U	1000	U	50	U	5	U	250	U	5	U	5	U	U	U		
4-Methyl-2-Pentanone	ug/l		6300	100	U	50	U	5	U	5	U	500	U	500	U	100	U	100	U	5000	U	1000	U	50	U	5	U	250	U	5	U	5	U	U	U		
Acetone	ug/l		18000	230	U	260	NQ	5	U	5	U	500	U	500	U	100	U	100	U	36000	U	1100	U	50	U	5	U	250	U	32	U	32	U	U	U		
Benzene	ug/l	5	0.46	820	J	69	NQ	1.1	NQ	1.1	NQ	1700	U	1300	U	1700	U	1600	U	67	U	2200	U	65	J	71	U	1	U	210	U	0.55	U				
Bromochloromethane	ug/l		83	10	U	5	U	0.5	U	0.5	U	50	U	50	U	10	U	10	U	500	U	100	U	5	U	0.5	U	25	U	0.5	U	0.5	U	U	U		
Bromodichloromethane	ug/l	80	0.13	10	U	5	U	0.5	U	0.5	U	50	U	50	U	10	U	10	U	500	U	100	U	5	U	0.5	U	25	U	0.5	U	0.5	U	U	U		
Bromoform	ug/l	80	3.3	20	U	10	U	1	U	1	U	100	U	100	U	20	U	20	U	1000	U	200	U	10	U	1	U	50	U	1	U	1	U	U	U		
Bromomethane	ug/l		7.5	10	U	5	U	0.5	U	0.5	U	50	U	50	U	10	U	10	U	500	U	100	U	5	U	0.5	U	25	U	0.5	U	0.5	U	U	U		
Carbon Disulfide	ug/l		810	20	U	10	U	1	U	1	U	100	U	100	U	20	U	20	U	1000	UJ	200	UJ	10	U	0.15	J	50	U	0.21	J	50	U	0.21	J		
Carbon Tetrachloride	ug/l	5	0.46	10	U	5	U	0.5	U	0.5	U	50	U	50	U	10	U	10	U	500	U	100	U	5	U	0.5	U	25	U	0.5	U	0.5	U	U	U		
Chlorobenzene	ug/l	100	78	10	U	33	NQ	0.16	J	0.14	J	18	J	16	J	10	U	10	U	240	U	500	U	130	U	5	U	50	U	1900	U	13	U	U	U		
Chloroethane	ug/l		8300	13	U	5	U	0.5	U	0.5	U	50	U	50	U	10	U	10	U	500	U	100	U	5	U	0.5	U	25	U	0.88	J+	J+	U	U			
Chloroform	ug/l	80	0.22	54	J	39	NQ	0.5	U	0.5	U	50	U	50	U	10	U	10	U	460	J	100	U	7.4	U	0.16	J	25	U	0.14	J	J+	U	U			
Chloromethane	ug/l		190	10	U	5	U	0.5	U	0.5	U	50	U	50	U	10	U	10	U	500	U	100	U	5	U	0.5	U	25	U	0.5	U	0.5	U	U	U		
cis-1,2-Dichloroethane	ug/l	70	36	190	J	480	J	47	U	58	U	12000	U	15000	U	320	U	300	U	2200	U	100000	U	22000	U	1200	U	41	U	4400	U	1.7	U	U	U		
cis-1,3-Dichloropropene	ug/l			10	U	5	U	0.5	U	0.5	U	50	U	50	U	10	U	10	U	500	U	100	U	5	U	0.5	U	25	U	0.5	U	0.5	U	U	U		
Cyclohexane	ug/l		13000	9.7	J	5	U	0.5	U	0.5	U	50	U	5.8	J	7.3	J	7.4	J	8.4	J	500	U	100	U	0.54	J	0.12	J	25	U	0.41	J	J	U		
Dibromochloromethane	ug/l	80	0.87	10	U	5	U	0.5	U	0.5	U	50	U	50	U	10	U	10	U	500	U	100	U	5	U	0.5	U	25	U	0.5	U	0.5	U	U	U		
Dichlorodifluoromethane	ug/l		200	10	U	5	U	0.5	UJ	0.5	UJ	50	U	50	U	10	U	10	U	500	U	100	U	5	U	0.5	U	25	U	0.5	U	0.5	U	U	U		
Diethyl Ether	ug/l		3900	3800	U	77	NQ	24	NQ	23	J-	1100	U	1300	U	980	U	1200	U	300	J	350	J	100	U	17	U	2	U	61	U	1000	J-	J-	U		
Ethylbenzene	ug/l	700	1.5	32	J	7.7	NQ	0.11	J	0.13	J	450	U	580	U	240	U	230	U	10	U	8200	U	4900	U	35	U	0.1	J	160	U	0.14	J	J	U		
Isopropylbenzene	ug/l		450	10	U	5	U	0.5	U	0.5	U	50	U	50	U	10	U	10	U	500	U	100	U	5	U	0.5	U	25	U	0.5	U	0.5	U	0.5	U	U	U
m&p-Xylenes	ug/l		10	10	U	2.2	J	0.5	U	0.5	U	72	U	97	U	10	U	2.3	J	9.3	J	22000	U	4500	U	21	U	0.5	U	6.1	J	0.12	J	J	U		
Methyl Acetate	ug/l		20000	20	U	10	U	1	U	1	U	100	U	100	U	20	U	20	U	1000	U	200	U	10	U	1	U	50	U	1	U	1	U	U	U		
Methyl Tert-Butyl Ether	ug/l		14	10	U	5	U	0.5	U	0.5	U	50	U	50	U	10	U	10	U	500	U	100	U	5	U	0.5	U	25	U	0.5	U	0.5	U	U	U		
Methylcyclohexane	ug/l		2.6	J	5	U	0.5	U	0.5	U	0.5	U	50	U	50	U	1.8	J	2.1	J	1	J	500	U	100	U	5	U	0.5	U	25	U	0.38	J	J	U	
Methylene Chloride	ug/l	5	11	10	U	5	U	0.5	U	0.5	U	50	U	50	U	10	U	10	U	29000	U	100	U	5	U	0.5	U	25	U	0.75	J	J	U	0.75	U	U	
o-Xylene	ug/l		190	9.8	J	7	NQ	0.15	J	0.17	J	59	J	74	J	9.1	J	9.1	J	6.4	J	6300	U	2000	U	21	U	0.088	J	7.8	J	0.5	U	0.5	U	U	U
Styrene	ug/l	100	1200	10	U	5	U	0.5	U	0.5	U	50	U	50	U	10	U	10	U	500	U	100	U	5	U	0.5	U	25	U	0.5	U	0.5	U	0.5	U	U	U
Tetrachloroethane	ug/l	5	11	140	J	340	J	24	NQ	22	J	25	J	29	J	11	U	19	U	41	U	5100	U	510	U	48	U	1.9	J	25	U	0.92	J	J	U		
Toluene	ug/l	1000	1100	26	U	6.9	NQ	0.15	J	0.098	J	100	U	120	U	12	U	13	U	2200	U	510	U	5													

**Table 23. VOCs Groundwater Analytical Results
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Parameter	Unit	Location ID Sample ID Sample Date		SM19-MW01 SM19-MW1-120821 12/8/2021		SM19-MW02 SM19-MW2-120621 12/6/2021		SM20-MW01 SM20-MW1-120321 12/3/2021		SM20-MW02 SM20-MW2-120221 12/2/2021		SM20-MW03 SM20-MW3-120721 12/7/2021		SM21-MW01 SM21-MW1-120621 12/6/2021		SM21-MW02 SM21-MW2-120221 12/2/2021		SM22-MW01 SM22-MW1-120721 12/7/2021		SM23-MW01 SM23-MW1-120721 12/7/2021		SM27-MW01 SM27-MW1-120321 12/3/2021		WW-MW1 WW-MW1-121321 12/13/2021		WW-MW2 WW-MW2-121021 12/10/2021		WW-MW3 WW-MW3-121021 12/10/2021		WW-MW4 WW-MW4-121021 12/10/2021	
		NOV2021R SL_MCL	NOV2021RS L_TAPW	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual
1,1,1-Trichloroethane	ug/l	200	8000	25	U	50	U	0.5	U	0.5	U	2.5	U	5	U	0.5	U	10	U	0.5	U	0.5	U	100	U	23	J	10	U	51	U
1,1,2,2-Tetrachloroethane	ug/l		0.076	25	U	50	U	0.5	U	0.5	U	2.5	U	5	U	0.5	U	7.1	J	0.5	U	0.5	U	100	U	25	U	10	U	10	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/l		10000	130	U	350	NQ	0.5	U	2.6	U	74	U	5	U	0.11	J	48	U	3	NQ	180	U	190000	U	7800	U	8000	U	7.1	J
1,1,2-Trichloroethane	ug/l	5	0.28	25	U	50	U	0.5	U	0.5	U	2.5	U	5	U	0.5	U	3.1	J	0.5	U	0.5	U	100	U	25	U	10	U	10	U
1,1-Dichloroethane	ug/l		2.8	25	U	50	U	0.5	U	0.5	U	2.5	U	5	U	0.5	U	3.6	J	0.5	U	0.5	U	100	U	25	U	10	U	10	U
1,1-Dichloroethene	ug/l	7	280	25	U	50	U	0.5	U	0.54	U	0.7	J	5	U	0.5	U	10	U	0.22	J	0.6	U	610	NQ	25	U	11		1.2	J
1,2,3-Trichlorobenzene	ug/l		7	25	U	50	U	0.5	U	0.053	J	2.2	J	2.9	J	0.5	U	6.1	J	0.5	U	1.3	U	100	U	4.8	J-	1.9	J-	3.8	J-
1,2,4-Trichlorobenzene	ug/l	70	1.2	25	U	50	U	0.35	J	0.3	J	9.8	J	15	NQ	0.092	J	5.8	J	0.5	U	9.8	U	100	U	29	J	6.5	J	45	J
1,2-Dibromo-3-Chloropropane	ug/l	0.2	0.00033	25	U	50	U	0.5	U	0.5	U	2.5	U	5	U	0.5	U	10	U	0.5	U	0.5	U	100	U	25	U	10	U	10	U
1,2-Dibromoethane	ug/l	0.05	0.0075	25	U	50	U	0.5	U	0.5	U	2.5	U	5	U	0.5	U	10	U	0.5	U	0.5	U	100	U	25	U	10	U	10	U
1,2-Dichlorobenzene	ug/l	600	300	17	J	50	U	4.2	U	83	U	9	U	21	NQ	0.23	J	140	U	1.3	NQ	17	U	2100	NQ	120	U	190	U	63	U
1,2-Dichloroethane	ug/l	5	0.17	25	U	50	U	0.5	U	0.5	U	2.5	U	5	U	0.5	U	4	J	0.5	U	0.5	U	100	U	25	U	10	U	10	U
1,2-Dichloropropane	ug/l	5	0.85	25	U	50	U	0.5	U	0.5	U	2.5	U	5	U	0.5	U	10	U	0.5	U	0.5	U	100	U	25	U	10	U	10	U
1,3-Dichlorobenzene	ug/l		2.5	25	U	50	U	0.5	U	0.074	J	2.5	U	4	J	0.5	U	8.8	J	0.5	U	1.4	U	100	U	25	U	10	U	2.7	J
1,4-Dichlorobenzene	ug/l	75	0.48	3.5	J	50	U	0.12	J	0.53	J	2.2	J	34	NQ	0.65	J	230	J	0.42	J	27	J	59	J	15	J	5.5	J	90	J
1,4-Dioxane	ug/l		0.46	5000	UJ	10000	UJ	100	UJ	100	UJ	500	UJ	1000	UJ	100	UJ	2000	UJ	100	UJ	100	U	20000	UJ	5000	U	2000	U	2000	U
2-Butanone	ug/l		5600	250	U	500	U	5	U	5	U	25	U	14	J	5	U	160	U	5	U	5	U	1000	U	620000	U	43000	U	100	U
2-Hexanone	ug/l		38	250	U	500	U	5	U	5	U	25	U	50	U	5	U	100	U	5	U	5	U	1000	U	250	U	100	U	100	U
4-Methyl-2-Pentanone	ug/l		6300	250	U	500	U	5	U	5	U	25	U	50	U	5	U	100	U	5	U	5	U	1000	U	68000	U	1800	U	100	U
Acetone	ug/l		18000	250	U	500	U	11	U	5	U	25	U	32	J	5	U	210	U	4.5	J	13	U	11000	NQ	2500	U	1300	U	100	U
Benzene	ug/l	5	0.46	5.6	J	110	NQ	1.2	J	50	NQ	86	NQ	0.078	J	110	J	0.38	J	7.5	J	11000	NQ	210	NQ	210	J	25	J	26	J
Bromochloromethane	ug/l	83	0.13	25	U	50	U	0.5	U	0.5	U	2.5	U	5	U	0.5	U	10	U	0.5	U	0.5	U	100	U	25	U	10	U	10	U
Bromodichloromethane	ug/l	80	0.13	25	U	50	U	0.5	U	0.5	U	2.5	U	5	U	0.5	U	10	U	0.5	U	0.5	U	100	U	25	U	10	U	10	U
Bromoform	ug/l	80	3.3	50	U	100	U	1	U	1	U	5	U	10	U	1	U	20	U	1	U	1	U	200	U	50	U	20	U	20	U
Bromomethane	ug/l		7.5	25	U	50	U	0.5	U	0.5	U	2.5	U	5	U	0.5	U	10	U	0.5	U	0.5	U	100	U	25	U	10	U	10	U
Carbon Disulfide	ug/l		810	50	U	22	J	1.9	U	1	U	5	U	10	U	1	U	4.1	J	0.08	J	0.13	J	26	J	50	UJ	20	UJ	20	UJ
Carbon Tetrachloride	ug/l	5	0.46	25	U	50	U	0.5	U	0.5	U	2.5	U	5	U	0.5	U	10	U	0.5	U	0.5	U	100	U	25	U	10	U	10	U
Chlorobenzene	ug/l	100	78	6200	J	17	J	0.99	J	20	U	40	U	56	NQ	2.4	J	2200	J	2.1	NQ	85	J	2700	NQ	760	J	930	J	620	J
Chloroethane	ug/l		8300	25	U	50	U	0.5	U	0.5	U	2.5	U	5	U	0.5	U	1100	U	0.5	U	0.5	U	100	U	25	U	10	U	10	U
Chloroform	ug/l	80	0.22	6.8	J	50	U	0.5	U	0.5	U	2.5	U	110	NQ	0.5	U	130	J	1.6	U	2.1	J	100	U	290	U	160	U	10	U
Chloromethane	ug/l		190	25	U	50	U	0.5	U	0.5	U	2.5	U	5	U	0.5	U	1.4	J	0.5	U	0.5	U	100	U	25	U	10	U	10	U
cis-1,2-Dichloroethane	ug/l	70	36	25	U	510	NQ	0.5	U	97	J	120	J	5	U	0.5	U	20	U	33	U	0.5	U	11000	J	270	J	330	J	58	J
cis-1,3-Dichloropropene	ug/l			25	U	50	U	0.5	U	0.5	U	2.5	U	5	U	0.5	U	10	U	0.5	U	0.5	U	100	U	25	U	10	U	10	U
Cyclohexane	ug/l		13000	25	U	50	U	0.27	J	0.5	U	2.5	U	5	U	0.5	U	10	U	0.5	U	0.5	U	100	U	10	J	3.6	J	10	U
Dibromochloromethane	ug/l	80	0.87	25	U	50	U	0.5	U	0.5	U	2.5	U	5	U	0.5	U	10	U	0.5	U	0.5	U	100	U	25	U	10	U	10	U
Dichlorodifluoromethane	ug/l		200	25	U	50	U	0.5	U	0.5	UJ	2.5	UJ	5	UJ	0.5	UJ	10	UJ	0.5	UJ	1.2	J+	100	U	25	U	10	U	10	U
Diethyl Ether	ug/l		3900	94	U	1200	NQ	30	J	37	J	0.88	J	2.2	J	0.31	J	46	J	0.23	J	0.25	J	100	U	2900	U	230	U	4.1	J
Ethylbenzene	ug/l	700	1.5	25	U	50	U	0.22	J	0.5	U	2.5	U	5	U	0.5	U	2.9	J	0.5	U	0.5	U	100	U	16	J	2.6	J	25	J
Isopropylbenzene	ug/l		450	25	U	50	U	0.084	J	0.5	U	2.5	U	5	U	0.5	U	10	U	0.5	U	0.5	U	100	U	25	U	10	U	10	U
m&p-Xylenes	ug/l			25	U	50	U	0.54	J	0.5	U	2.5	U	5	U	0.5	U	7.2	J	0.5	U	0.5	U	100	U	43	U	4.2	J	71	U
Methyl Acetate	ug/l		20000	50	U	100	U	1	U	1	U	5	U	10	U	1	U	20	U	1	U	1	U	200	U	50	U	20	U	20	U
Methyl Tert-Butyl Ether	ug/l		14	25	U	50	U	0.5	U	0.5	U	2.5	U	5	U	0.5</															

Table 24. SVOCs Groundwater Analytical Results
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Parameter	Units	Location ID		A05-01		A06-01		AOC16-MW01		AOC16-MW02		BF3-MW1		BF3-MW1		BF3-MW2		BF3-MW3		BF3-MW3		BF3-MW4	
		NOV2021RS	NOV2021RSL	A5-01-121521	Sample Date	A6-01-121421	Sample Date	A016-MW1-120821	Sample Date	AOC16-MW2-120621	Sample Date	BF3-MW1-121321	Sample Date	BF3-MW1-121321-DUP	Sample Date	BF3-MW2-121321	Sample Date	BF3-MW3-121321	Sample Date	BF3-MW3-121321-DUP	Sample Date	BF3-MW4-121321	Sample Date
		L_MCL	_TAPW	Result	Lab Qual.	Result	Lab Qual.	Result	Lab Qual.	Result	Lab Qual.	Result	Lab Qual.	Result	Lab Qual.	Result	Lab Qual.	Result	Lab Qual.	Result	Lab Qual.	Result	Lab Qual.
1,1'-Biphenyl	ug/l		0.83	2.1	U	2	U	8.9	U	2	U	2.1	U	2.1	U	2.1	U	2	U	2	U	2	U
1,2,4,5-Tetrachlorobenzene	ug/l		0.17	2.1	U	2	U	2	U	2	U	2.1	U	2.1	U	2.1	U	2	U	2	U	2	U
2,2'-Oxybis(1-Chloropropane)	ug/l		710	2.1	U	2	U	2	U	2	U	2.1	U	2.1	U	2.1	U	2	U	2	U	2	U
2,3,4,6-Tetrachlorophenol	ug/l		240	5.3	U	5	U	4.2	J	5	R	5.2	U	5.2	R	5.4	U	5	U	5.1	U	5	U
2,4,5-Trichlorophenol	ug/l		1200	2.1	U	2	U	0.75	J	2	R	2.1	U	2.1	R	2.1	U	2	U	2	U	2	U
2,4,6-Trichlorophenol	ug/l		4.1	2.1	U	2	U	2	U	2	R	2.1	U	2.1	R	2.1	U	2	U	2	U	2	U
2,4-Dichlorophenol	ug/l		46	2.1	U	2	U	2	U	2	R	2.1	U	2.1	R	2.1	U	2	U	2	U	2	U
2,4-Dimethylphenol	ug/l		360	11	U	10	U	10	U	10	R	10	U	10	R	11	U	10	U	10	U	10	U
2,4-Dinitrophenol	ug/l		39	32	UJ	30	U	31	U	30	R	31	U	31	R	32	UJ	30	U	30	U	30	U
2,4-Dinitrotoluene	ug/l		0.24	5.3	U	5	U	5.1	U	5	U	5.2	U	5.2	U	5.4	U	5	U	5.1	U	5	U
2,6-Dinitrotoluene	ug/l		0.049	2.1	U	2	U	2	U	2	U	2.1	U	2.1	U	2.1	U	2	U	2	U	2	U
2-Chloronaphthalene	ug/l		750	1.1	U	1	U	1	U	1	U	1	U	1	U	1.1	U	1	U	1	U	1	U
2-Chlorophenol	ug/l		91	2.1	U	2	U	2.1	U	2	R	55	J	9.3	J	35	NQ	6.9	NQ	7.2	U	0.51	J
2-Methylnaphthalene	ug/l		36	0.53	U	0.5	U	0.51	U	0.5	U	0.24	J	0.22	J	0.25	J	0.2	J	0.22	J	0.5	U
2-Methylphenol	ug/l		930	2.1	U	2	U	2	U	2	R	2.1	U	2.1	R	2.1	U	2	U	0.6	J	2	U
2-Nitroaniline	ug/l		190	5.3	U	5	U	5.1	U	5	U	5.2	U	5.2	U	5.4	U	5	U	5.1	U	5	U
2-Nitrophenol	ug/l			5.3	U	5	U	5.1	U	5	R	5.2	U	5.2	R	5.4	U	5	U	5.1	U	5	U
3,3'-Dichlorobenzidine	ug/l		0.13	11	U	10	U	10	U	10	U	10	U	10	U	11	R	10	U	10	U	10	U
3-Nitroaniline	ug/l			5.3	U	5	U	5.1	U	5	U	5.2	U	5.2	U	5.4	UJ	5	U	5.1	U	5	U
4,6-Dinitro-2-Methylphenol	ug/l		1.5	22	U	21	U	21	U	21	R	22	U	22	R	22	UJ	21	U	21	U	21	U
4-Bromophenyl Phenyl Ether	ug/l			2.1	U	2	U	2	U	2	U	2.1	U	2.1	U	2.1	U	2	U	2	U	2	U
4-Chloro-3-Methylphenol	ug/l		1400	5.3	U	5	U	5.1	U	5	R	5.2	U	5.2	R	5.4	U	5	U	5.1	U	5	U
4-Chloroaniline	ug/l		0.37	11	U	10	U	10	U	10	U	10	U	10	U	11	R	10	U	10	U	10	U
4-Chlorophenyl Phenyl Ether	ug/l			2.1	U	2	U	2	U	2	U	2.1	U	2.1	U	2.1	U	2	U	2	U	2	U
4-Methylphenol	ug/l		370	2.1	U	2	U	2	U	2	R	0.8	J	2.1	R	2.1	UJ	9.4	NQ	9.3	U	2	U
4-Nitroaniline	ug/l		3.8	3.2	U	3	U	3.1	U	3	U	3.1	U	3.1	U	3.2	UJ	3	U	3	U	3	U
4-Nitrophenol	ug/l			32	U	30	U	31	U	30	R	31	U	31	R	32	U	30	U	30	U	30	U
Acenaphthene	ug/l		530	0.53	U	0.5	U	0.51	U	0.5	U	0.16	J	0.12	J	0.41	J	0.55	NQ	0.61	U	0.5	U
Acenaphthylene	ug/l			0.53	U	0.5	U	0.51	U	0.5	U	0.52	U	0.52	U	0.54	U	0.5	U	0.51	U	0.5	U
Acetophenone	ug/l		1900	5.3	U	5	U	5.1	U	5	U	5.2	U	5.2	U	5.4	U	5	U	5.1	U	5	U
Anthracene	ug/l		1800	0.53	U	0.5	U	0.51	U	0.5	U	0.52	U	0.52	U	0.54	U	0.17	J	0.14	J	0.5	U
Atrazine	ug/l	3	0.3	5.3	U	5	U	5.1	U	5	U	5.2	U	5.2	U	5.4	U	5	U	5.1	U	5	U
Benzaldehyde	ug/l		19	5.3	U	5	UJ	5.1	U	5	U	5.2	U	5.2	U	5.4	UJ	5	U	5.1	U	5	U
Benzo(A)Anthracene	ug/l		0.03	0.53	U	0.5	U	0.51	U	0.5	U	0.52	U	0.52	U	0.54	U	0.5	U	0.51	U	0.5	U
Benzo(A)Pyrene	ug/l	0.2	0.025	0.53	U	0.5	U	0.51	U	0.5	U	0.52	U	0.52	U	0.54	U	0.5	U	0.51	U	0.5	U
Benzo(B)Fluoranthene	ug/l		0.25	0.53	U	0.5	U	0.51	U	0.5	U	0.52	U	0.52	U	0.54	U	0.5	U	0.51	U	0.5	U
Benzo(G,H,I)perylene	ug/l			0.53	U	0.5	U	0.51	U	0.5	U	0.52	U	0.52	U	0.54	U	0.5	U	0.51	U	0.5	U
Benzo(K)Fluoranthene	ug/l		2.5	0.53	U	0.5	U	0.51	U	0.5	U	0.52	U	0.52	U	0.54	U	0.5	U	0.51	U	0.5	U
bis-(2-Chloroethoxy)Methane	ug/l		59	2.1	U	2	U	2	U	2	U	2.1	U	2.1	U	2.1	U	2	U	2	U	2	U
bis-(2-Chloroethyl)Ether	ug/l		0.014	2.1	U	2	U	2	U	2	U	2.1	U	2.1	U	2.1	U	2	U	2	U	2	U
bis-(2-Ethylhexyl)Phthalate	ug/l	6	5.6	5.3	U	5	U	5.1	U	5	U	5.2	U	5.2	U	5.4	U	5	U	5.1	U	5	U
Butylbenzyl Phthalate	ug/l		16	5.3	U	5	U	5.1	U	5	U	5.2	U	5.2	U	5.4	U	5	U	5.1	U	5	U
Caprolactam	ug/l		9900	7.5	U	7	UJ	7.2	UJ	7	UJ	7.3	UJ	7.3	UJ	7.5	R	7	UJ	7.1	UJ	7	UJ
Carbazole	ug/l			2.1	U	2	U	2	U	2	U	2.1	U	2.1	U	2.1	U	2	U	2	U	2	U
Chrysene	ug/l		25	0.53	U	0.5	U	0.51	U	0.5	U	0.52	U	0.52	U	0.54	U	0.5	U	0.51	U	0.5	U
Dibenzo(a,h)Anthracene	ug/l		0.025	0.53	U	0.5	U	0.51	U	0.5	U	0.52	U	0.52	U	0.54	U	0.5	U	0.51	U	0.5	U
Dibenzofuran	ug/l		7.9	2.1	U	2	U	2	U	2	U	2.1	U	2.1	U	2.1	U	2	U	2	U	2	U
Diethyl Phthalate	ug/l		15000	5.3	U	5	U	5.1	U	5	U	5.2	U	5.2	U	5.4	U	5	U	5.1	U	5	U
Dimethyl Phthalate	ug/l			5.3	U	5	U	5.1	U	5	U	5.2	U	5.2	U	5.4	UJ	5	U	5.1	U	5	U
Di-n-Butyl Phthalate	ug/l		900	5.3	U	5	U	5.1	U	5.2	U	5.2	U	5.2	U	5.4	U	5	U	5.1	U	5	U
Di-n-Octyl Phthalate	ug/l		200	12	U	11	U	11	U	11	U	12	U	12	U	12	U	11	U	11	U	11	U
Fluoranthene	ug/l		800	0.53	U	0.5	U	0.51	U	0.5	U	0.16	J	0.17	J	0.19	J	0.25	J	0.25	J	0.5	U
Fluorene	ug/l		290	0.53	U	0.5	U	0.51	U	0.5	U	0.13	J	0.13	J	0.38	J	0.44	J	0.41	J	0.5	U
Hexachlorobenzene	ug/l	1	0.0098	0.53	U	0.5	U	0.51	U	0.5	U	0.52	U	0.52	U	0.54	U	0.5	U	0.51	U	0.5	U
Hexachlorobutadiene	ug/l		0.14	2.1	U	2	U	2	U	2	U	2.1	U	2.1	U	2.1	U	2	U	2	U	2	U
Hexachlorocyclopentadiene	ug/l	50	0.41	12	U	11	UJ	11	UJ	11	UJ	12	UJ	12	UJ	12	UJ	11	UJ	11	UJ	11	UJ
Hexachloroethane	ug/l		0.33	5.3	U	5	U	5.1	U	5	U	5.2	U	5.2	U	5.4	U	5	U	5.1	U	5	U
Indeno(1,2,3-Cd)Pyrene	ug/l		0.25	0.53	U	0.5	U	0.51	U	0.5	U	0.52	U	0.52	U	0.54	U	0.5	U	0.51	U	0.5	U
Isophorone	ug/l		78	2.1	U	2	U	2	U	2	U	2.1	U	2.1	U	2.1	U	2	U	1.2	J	2	U
Naphthalene	ug/l		0.12	0.53	U	0.5	U	0.51	U	0.38	J	0.52	U	1.1	U	2	NQ	1.7	NQ	1.8	U	0.5	U

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Parameter	Unit s	NOV2021RS L_MCL	Location ID	A05-01		A06-01		AOC16-MW01		AOC16-MW02		BF3-MW1		BF3-MW1		BF3-MW2		BF3-MW3		BF3-MW3		BF3-MW4	
			Sample ID	Sample Date	Sample ID	Sample Date	Sample ID	Sample Date	Sample ID	Sample Date	Sample ID	Sample Date	Sample ID	Sample Date	Sample ID	Sample Date	Sample ID	Sample Date	Sample ID	Sample Date	Sample ID	Sample Date	Sample ID
			NOV2021RS _TAPW	Result	Lab Qual.	Result	Lab Qual.	Result	Lab Qual.	Result	Lab Qual.	Result	Lab Qual.	Result	Lab Qual.	Result	Lab Qual.	Result	Lab Qual.	Result	Lab Qual.	Result	Lab Qual.
Nitrobenzene	ug/l		0.14	2.1	U	2	U	2	U	2	U	2.1	U	2.1	U	2.1	U	2	U	2	U	2	U
n-Nitroso-di-n-Propylamine	ug/l		0.011	2.1	U	2	U	2	U	2	U	2.1	U	2.1	U	2.1	U	2	U	2	U	2	U
n-Nitrosodiphenylamine	ug/l		12	2.1	U	2	U	1.3	J	2	U	2.1	U	2.1	U	2.1	U	2	U	2	U	2	U
Pentachlorophenol	ug/l	1	0.041	5.3	U	5	U	1.7	J	5	R	5.2	U	5.2	R	5.4	U	3.3	J	3.6	J	5	U
Phenanthrene	ug/l			0.53	U	0.5	U	0.42	J	0.19	J	0.67	NQ	0.61		0.84	NQ	1.1	NQ	1.1		0.5	U
Phenol	ug/l		5800	2.1	U	2	U	2	U	2	R	1.5	J	2.1	R	0.54	J-	120	NQ	120		2	U
Pyrene	ug/l		120	0.53	U	0.5	U	0.51	U	0.5	U	0.52	U	0.52	U	0.54	U	0.14	J	0.14	J	0.5	U
TOTAL SVOCs	ug/l			0		0		19.37		5.77		58.66		11.65		39.61		144.15		146.57		0.51	

Notes:
 Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL),
 Maximum Contaminant Level (MCL) (November 2021)
Exceeds the EPA Tapwater RSL
 Blanks indicate RSL not established
 RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0
 U = undetected
 J = estimated value
 J+ = estimated biased high
 J- = estimated biased low
 R = rejected
 ug/L = micrograms per liter
 SWMU = Solid Waste Management Unit
 RCRA = Resource Conservation and Recovery Act
 DUP = Duplicate sample
 Exceedances shown may exceed one or more criteria if available

Table 24. SVOCs Groundwater Analytical Results
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Parameter	Units	Location ID		EWL-8		MW-01		MW-03		MW-04		MW-05		MW-06		MW-06		MW06-01		MW06-01		MW06-02		
		NOV2021RS L_MCL	NOV2021RSL _TAPW	Sample ID 12/6/2021	Sample Date 12/6/2021	Result Lab Qual.	Result Lab Qual.	Result Lab Qual.	Result Lab Qual.	Result Lab Qual.	Result Lab Qual.	Result Lab Qual.	Result Lab Qual.	Result Lab Qual.	Result Lab Qual.	Result Lab Qual.	Result Lab Qual.	Result Lab Qual.	Result Lab Qual.	Result Lab Qual.	Result Lab Qual.	Result Lab Qual.	Result Lab Qual.	Result Lab Qual.
1,1'-Biphenyl	ug/l		0.83		2	U	6.2		2	U	2	U	2	U	2	U	2.1	U	2.1	U	2.1	U	2	U
1,2,4,5-Tetrachlorobenzene	ug/l		0.17		2	U	2	U	2	U	2	U	2	U	2	U	2.1	U	2.1	U	2.1	U	2	U
2,2'-Oxybis(1-Chloropropane)	ug/l		710		2	U	2	U	2	U	2	U	2	U	2	U	2.1	U	2.1	U	2.1	U	2	U
2,3,4,6-Tetrachlorophenol	ug/l		240		5	U	5	U	5.1	U	5	U	5	U	5.1	U	5.3	U	5.1	U	5.1	U	2.1	J
2,4,5-Trichlorophenol	ug/l		1200		2	U	2	U	2	U	2	U	2	U	2	U	2.1	U	2.1	U	2.1	U	2.5	
2,4,6-Trichlorophenol	ug/l		4.1		2	U	2	U	2	U	2	U	2	U	2	U	2.1	U	2.1	U	0.75	J	6.5	
2,4-Dichlorophenol	ug/l		46		2	U	0.71	J	2	U	2	U	2	U	2	U	2.1	U	2.1	U	2.1	U	2.3	
2,4-Dimethylphenol	ug/l		360		10	U	6.4	J	10	U	10	U	10	U	10	U	11	U	10	U	10	U	10	U
2,4-Dinitrophenol	ug/l		39		30	U	30	U	31	U	30	U	30	U	31	U	32	U	31	U	31	U	31	U
2,4-Dinitrotoluene	ug/l		0.24		5	U	5	U	5.1	U	5	U	5	U	5.1	U	5.3	U	5.1	U	5.1	U	5.1	U
2,6-Dinitrotoluene	ug/l		0.049		2	U	2	U	2	U	2	U	2	U	2	U	2.1	U	2.1	U	2.1	U	2	U
2-Chloronaphthalene	ug/l		750		1	U	1	U	1	U	1	U	1	U	1	U	1.1	U	1	U	1	U	1	U
2-Chlorophenol	ug/l		91		2	U	2	U	13		2	U	2	U	8.3		10		67		22		29	
2-Methylnaphthalene	ug/l		36		0.5	U	28		0.51	U	0.5	U	0.5	U	0.43	J	0.72		0.51	U	0.51	U	0.92	
2-Methylphenol	ug/l		930		2	U	4.2		2	U	2	U	2	U	0.82	J	2.1	U	2.1	U	2.1	U	2	U
2-Nitroaniline	ug/l		190		5	U	5	U	5.1	U	5	U	5	U	5.1	U	5.3	U	5.1	U	5.1	U	5.1	U
2-Nitrophenol	ug/l				5	U	5	U	5.1	U	5	U	5	U	5.1	U	5.3	U	5.1	U	5.1	U	5.1	U
3,3'-Dichlorobenzidine	ug/l		0.13		10	U	10	U	10	U	10	U	10	U	10	U	11	R	10	U	10	U	10	U
3-Nitroaniline	ug/l				5	U	5	U	5.1	U	5	U	5	U	5.1	U	5.3	U	5.1	U	5.1	U	5.1	U
4,6-Dinitro-2-Methylphenol	ug/l		1.5		21	U	21	U	21	U	21	U	21	U	21	U	22	U	22	U	22	U	22	U
4-Bromophenyl Phenyl Ether	ug/l				2	U	2	U	2	U	2	U	2	U	2	U	2.1	U	2.1	U	2.1	U	2	U
4-Chloro-3-Methylphenol	ug/l		1400		5	U	5	U	5.1	U	5	U	5	U	5.1	U	5.3	U	5.1	U	5.1	U	5.1	U
4-Chloroaniline	ug/l		0.37		10	U	10	U	10	U	10	U	10	U	10	U	11	U	10	U	10	U	10	U
4-Chlorophenyl Phenyl Ether	ug/l				2	U	2	U	2	U	2	U	2	U	2	U	2.1	U	2.1	U	2.1	U	2	U
4-Methylphenol	ug/l		370		2	U	3.8		2	U	2	U	2	U	2	U	2.1	U	1.2	J	2.1	U	2.5	
4-Nitroaniline	ug/l		3.8		3	U	3	U	3.1	U	3	U	3	U	3.1	U	3.2	U	3.1	U	3.1	U	3.1	U
4-Nitrophenol	ug/l				30	U	30	U	31	U	30	U	30	U	31	U	32	U	31	U	31	U	31	U
Acenaphthene	ug/l		530		0.5	U	0.97		0.51	U	0.5	U	0.5	U	1.8		2.8		0.51	U	0.51	U	0.61	
Acenaphthylene	ug/l				0.5	U	0.5	U	0.51	U	0.5	U	0.5	U	0.51	U	0.53	U	0.51	U	0.51	U	0.51	U
Acetophenone	ug/l		1900		5	U	5.8		5.1	U	5	U	5	U	5.1	U	5.3	U	5.1	U	5.1	U	5.1	U
Anthracene	ug/l		1800		0.5	U	0.5	U	0.51	U	0.5	U	0.5	U	2.7		0.28	J	0.51	U	0.51	U	0.51	U
Atrazine	ug/l		3		0.3	U	5	U	5.1	U	5	U	5	U	5.1	U	5.3	U	5.1	U	5.1	U	5.1	U
Benzaldehyde	ug/l		19		5	U	5	U	5.1	U	5	U	5	U	5.1	U	5.3	U	5.1	U	5.1	U	5.1	U
Benzo(A)Anthracene	ug/l		0.03		0.5	U	0.5	U	0.51	U	0.5	U	0.5	U	0.51	U	0.53	U	0.51	U	0.51	U	0.51	U
Benzo(A)Pyrene	ug/l		0.2		0.25	U	0.5	U	0.51	U	0.5	U	0.5	U	0.51	U	0.53	U	0.51	U	0.51	U	0.51	U
Benzo(B)Fluoranthene	ug/l		0.25		0.5	U	0.5	U	0.51	U	0.5	U	0.5	U	0.51	U	0.53	U	0.51	U	0.51	U	0.51	U
Benzo(G,H,I)perylene	ug/l				0.5	U	0.5	U	0.51	U	0.5	U	0.5	U	0.51	U	0.53	U	0.51	U	0.51	U	0.51	U
Benzo(K)Fluoranthene	ug/l		2.5		0.5	U	0.5	U	0.51	U	0.5	U	0.5	U	0.51	U	0.53	U	0.51	U	0.51	U	0.51	U
bis-(2-Chloroethoxy)Methane	ug/l		59		2	U	2	U	2	U	2	U	2	U	2	U	2.1	U	2.1	U	2.1	U	2	U
bis-(2-Chloroethyl)Ether	ug/l		0.014		2	U	2	U	2	U	2	U	2	U	2	U	2.1	U	2.1	U	2.1	U	2	U
bis-(2-Ethylhexyl)Phthalate	ug/l		6		5.6	U	5	U	5.1	U	5	U	5	U	5.1	U	5.3	U	5.1	U	5.1	U	5.1	U
Butylbenzyl Phthalate	ug/l		16		5	U	5	U	5.1	U	5	U	5	U	5.1	U	5.3	U	5.1	U	5.1	U	5.1	U
Caprolactam	ug/l		9900		7.1	UJ	7	UJ	7.1	UJ	7.1	UJ	7.1	UJ	7.1	U	7.4	UJ	7.2	UJ	9	J	7.2	UJ
Carbazole	ug/l				2	U	2	U	2	U	2	U	2	U	0.67	J	2.1	U	2.1	U	2.1	U	1.2	J
Chrysene	ug/l		25		0.5	U	0.5	U	0.51	U	0.5	U	0.5	U	0.14	J	0.53	U	0.51	U	0.51	U	0.51	U
Dibenzo(a,h)Anthracene	ug/l		0.025		0.5	U	0.5	U	0.51	U	0.5	U	0.5	U	0.51	U	0.53	U	0.51	U	0.51	U	0.51	U
Dibenzofuran	ug/l		7.9		2	U	1.4	J	2	U	2	U	2	U	0.71	J	2.1	U	2.1	U	2.1	U	0.58	J
Diethyl Phthalate	ug/l		15000		5	U	5	U	5.1	U	5	U	5	U	5.1	U	5.3	U	5.1	U	5.1	U	5.1	U
Dimethyl Phthalate	ug/l				5	U	5	U	5.1	U	5	U	5	U	5.1	U	5.3	U	5.1	U	5.1	U	5.1	U
Di-n-Butyl Phthalate	ug/l		900		5	U	16		5.1	U	5	U	8.6	U	5.1	U	5.3	U	5.1	U	5.1	U	5.1	U
Di-n-Octyl Phthalate	ug/l		200		11	U	11	U	11	U	11	U	11	U	11	U	12	U	11	U	11	U	11	U
Fluoranthene	ug/l		800		0.5	U	0.5	U	0.51	U	0.5	U	0.5	U	2.4		0.44	J	0.51	U	0.51	U	0.12	J
Fluorene	ug/l		290		0.5	U	1		0.51	U	0.5	U	0.5	U	2.7		2.5		0.51	U	0.51	U	0.89	
Hexachlorobenzene	ug/l		1		0.0098	U	0.5	U	0.51	U	0.5	U	0.5	U	0.51	U	0.53	U	0.51	U	0.51	U	0.51	U
Hexachlorobutadiene	ug/l				2	U	2	U	2	U	2	U	2	U	2	U	2.1	U	2.1	U	2.1	U	2	U
Hexachlorocyclopentadiene	ug/l		50		0.41	UJ	11	UJ	11	UJ	11	UJ	11	UJ	11	U	12	UJ	11	U	11	UJ	11	U
Hexachloroethane	ug/l		0.33		5	U	5	U	5.1	U	5	U	5	U	5.1	U	5.3	U	5.1	U	5.1	U	5.1	U
Indeno(1,2,3-Cd)Pyrene	ug/l		0.25		0.5	U	0.5	U	0.51	U	0.5	U	0.5	U	0.51	U	0.53	U	0.51	U	0.51	U	0.51	U
Isophorone	ug/l		78		2	U	2	U	2	U	2	U	2	U	2	U	2.1	U	2.1	U	2.1	U	2	U
Naphthalene	ug/l		0.12		0.5	U	250		0.35	J	0.5	U	0.5	U	0.65		0.4	J	0.63		0.51	U	3.6	

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Parameter	Unit s	Location ID		EWL-8		MW-01		MW-03		MW-04		MW-05		MW-06		MW-06		MW06-01		MW06-01		MW06-02		
		NOV2021RS L_MCL	NOV2021RSL _TAPW	Sample ID Date	Sample ID Date	Sample ID Date	Sample ID Date	Sample ID Date	Sample ID Date	Sample ID Date	Sample ID Date	Sample ID Date	Sample ID Date	Sample ID Date	Sample ID Date	Sample ID Date	Sample ID Date	Sample ID Date	Sample ID Date	Sample ID Date	Sample ID Date	Sample ID Date	Sample ID Date	Sample ID Date
Nitrobenzene	ug/l		0.14		2	U	2	U	2	U	2	U	2	U	2	U	2.1	U	2.1	U	2.1	U	2	U
n-Nitroso-di-n-Propylamine	ug/l		0.011		2	U	2	U	2	U	2	U	2	U	2	U	2.1	U	2.1	U	2.1	U	2	U
n-Nitrosodiphenylamine	ug/l		12		2	U	67		2	U	2	U	37		0.92	J	2.1	U	2.1	U	1.9	J	2	U
Pentachlorophenol	ug/l	1	0.041		5	U	5	U	5.1	U	2	J	5	U	5.1	U	5.3	U	5.1	U	5.1	U	5.1	U
Phenanthrene	ug/l				0.5	U	0.5	U	0.25	J	0.5	U	0.5	U	9		10		0.51	U	0.51	U	1.1	
Phenol	ug/l		5800		2	U	1600		2	U	2	UJ	2	U	13		1.5	J	2.1	U	4.9		28	
Pyrene	ug/l		120		0.5	U	0.5	U	0.51	U	0.5	U	0.5	U	2.8		0.35	J	0.51	U	0.51	U	0.1	J
TOTAL SVOCs	ug/l				2.7		1991.48		13.6		2		45.6		47.04		31.09		68.83		38.55		82.02	

Notes:
 Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL)
 Maximum Contaminant Level (MCL) (November 2021)
Exceeds the EPA Tapwater RSL
 Blanks indicate RSL not established
 RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0
 U = undetected
 J = estimated value
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Parameter	Unit s	Location ID		MW06-03		MW-07		MW-08		MW-09		MW-102		MW-102		MW-104		MW-116		MW-117		MW-118	
		NOV2021RS L_MCL	NOV2021RSL _TAPW	MW06-03-120921 12/9/2021	Lab Qual.	MW-07-120721 12/7/2021	Lab Qual.	MW-08-120221 12/2/2021	Lab Qual.	MW-09-120221 12/2/2021	Lab Qual.	MW-102-120321 12/3/2021	Lab Qual.	MW-102-120321-DUP 12/3/2021	Lab Qual.	MW-104-120721 12/7/2021	Lab Qual.	MW-116-120921 12/9/2021	Lab Qual.	MW-117-120621 12/6/2021	Lab Qual.	MW-118-121321 12/13/2021	Lab Qual.
1,1'-Biphenyl	ug/l		0.83	2.1	U	2.1	U	2	U	2	U	2	U	2	U	2	U	2.1	U	2	U	2.2	U
1,2,4,5-Tetrachlorobenzene	ug/l		0.17	2.1	U	2.1	U	2	U	2	U	2	U	2	U	2	U	2.1	U	2	U	2.2	U
2,2'-Oxybis(1-Chloropropane)	ug/l		710	2.1	U	2.1	U	2	U	2	U	2	U	2	U	2	U	2.1	U	2	U	2.2	U
2,3,4,6-Tetrachlorophenol	ug/l		240	5.2	U	5.2	U	5	U	5	U	5.1	U	5.1	U	5	U	5.2	U	5.1	U	5.5	U
2,4,5-Trichlorophenol	ug/l		1200	2.1	U	2.1	U	2	U	2	U	2	U	2	U	2	U	2.1	U	2	U	2.2	U
2,4,6-Trichlorophenol	ug/l		4.1	2.1	U	2.1	U	2	U	2	U	2	U	2	U	2	U	2.1	U	2	U	2.2	U
2,4-Dichlorophenol	ug/l		46	2.1	U	2.1	U	2	U	2	U	6	U	5.3	U	2	U	2.1	U	2	U	2.2	U
2,4-Dimethylphenol	ug/l		360	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	11	U
2,4-Dinitrophenol	ug/l		39	31	U	31	U	30	U	30	U	30	U	31	U	30	U	31	U	30	U	33	U
2,4-Dinitrotoluene	ug/l		0.24	5.2	U	5.2	U	5	U	5	U	67	U	63	U	5	U	5.2	U	5.1	U	5.5	U
2,6-Dinitrotoluene	ug/l		0.049	2.1	U	2.1	U	2	U	2	U	53	U	49	U	2	U	2.1	U	2	U	2.2	U
2-Chloronaphthalene	ug/l		750	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1.1	U
2-Chlorophenol	ug/l		91	0.72	J	2.1	U	2	U	2	U	2	U	2	U	2	U	2.1	U	2	U	2.2	U
2-Methylnaphthalene	ug/l		36	1	U	0.52	U	0.5	U	0.5	U	0.51	U	0.51	U	0.5	U	0.52	U	0.51	U	0.55	U
2-Methylphenol	ug/l		930	2.1	U	2.1	U	2	U	2	U	2	U	2	U	2	U	2.1	U	2	U	2.2	U
2-Nitroaniline	ug/l		190	5.2	U	5.2	U	5	U	5	U	37	U	36	U	5	U	5.2	U	5.1	U	5.5	U
2-Nitrophenol	ug/l			5.2	U	5.2	U	5	U	5	U	5.1	U	5.1	U	5	U	5.2	U	5.1	U	5.5	U
3,3'-Dichlorobenzidine	ug/l		0.13	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	11	U
3-Nitroaniline	ug/l			5.2	U	5.2	U	5	U	5	U	240	U	220	U	5	U	5.2	U	5.1	U	5.5	U
4,6-Dinitro-2-Methylphenol	ug/l		1.5	22	U	22	U	21	U	21	U	21	U	22	U	21	U	22	U	21	U	23	U
4-Bromophenyl Phenyl Ether	ug/l			2.1	U	2.1	U	2	U	2	U	2	U	2	U	2	U	2.1	U	2	U	2.2	U
4-Chloro-3-Methylphenol	ug/l		1400	5.2	U	5.2	U	5	U	5	U	5.1	U	5.1	U	5	U	5.2	U	5.1	U	5.5	U
4-Chloroaniline	ug/l		0.37	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	11	U
4-Chlorophenyl Phenyl Ether	ug/l			2.1	U	2.1	U	2	U	2	U	2	U	2	U	2	U	2.1	U	2	U	2.2	U
4-Methylphenol	ug/l		370	2.1	U	2.1	U	2	U	2	U	2	U	2	U	2	U	2.1	U	2	U	2.2	U
4-Nitroaniline	ug/l		3.8	3.1	U	3.1	U	3	U	3	U	2.3	J	3.1	U	3	U	3.1	U	3	U	3.3	U
4-Nitrophenol	ug/l			31	U	31	U	30	U	30	U	30	U	31	U	30	U	31	U	30	U	33	U
Acenaphthene	ug/l		530	6.1	U	0.52	U	0.5	U	0.5	U	0.51	U	0.51	U	0.5	U	0.52	U	0.51	U	0.55	U
Acenaphthylene	ug/l			0.52	U	0.52	U	0.5	U	0.5	U	0.51	U	0.51	U	0.5	U	0.52	U	0.51	U	0.55	U
Acetophenone	ug/l		1900	5.2	U	5.2	U	5	U	5	U	5.1	U	5.1	U	5	U	5.2	U	5.1	U	5.5	U
Anthracene	ug/l		1800	0.94	U	0.52	U	0.5	U	0.5	U	0.51	U	0.51	U	0.5	U	0.52	U	0.51	U	0.55	U
Atrazine	ug/l	3	0.3	5.2	U	5.2	U	5	U	5	U	5.1	U	5.1	U	5	U	5.2	U	5.1	U	5.5	U
Benzaldehyde	ug/l		19	5.2	U	5.2	U	5	U	5	U	5.1	U	5.1	U	5	U	5.2	U	5.1	U	5.5	U
Benzo(A)Anthracene	ug/l		0.03	0.52	U	0.52	U	0.5	U	0.5	U	0.51	U	0.51	U	0.5	U	0.52	U	0.51	U	0.55	U
Benzo(A)Pyrene	ug/l	0.2	0.025	0.52	U	0.52	U	0.5	U	0.5	U	0.51	U	0.51	U	0.5	U	0.52	U	0.51	U	0.55	U
Benzo(B)Fluoranthene	ug/l		0.25	0.52	U	0.52	U	0.5	U	0.5	U	0.51	U	0.51	U	0.5	U	0.52	U	0.51	U	0.55	U
Benzo(G,H,I)perylene	ug/l			0.52	U	0.52	U	0.5	U	0.5	U	0.51	U	0.51	U	0.5	U	0.52	U	0.51	U	0.55	U
Benzo(K)Fluoranthene	ug/l		2.5	0.52	U	0.52	U	0.5	U	0.5	U	0.51	U	0.51	U	0.5	U	0.52	U	0.51	U	0.55	U
bis-(2-Chloroethoxy)Methane	ug/l		59	2.1	U	2.1	U	2	U	2	U	2	U	2	U	2	U	2.1	U	2	U	2.2	U
bis-(2-Chloroethyl)Ether	ug/l		0.014	2.1	U	2.1	U	2	U	2	U	2	U	2	U	2	U	2.1	U	2	U	2.2	U
bis-(2-Ethylhexyl)Phthalate	ug/l	6	5.6	5.2	U	5.2	U	5	U	5	U	5.1	U	5.1	U	5	U	5.2	U	5.1	U	5.5	U
Butylbenzyl Phthalate	ug/l		16	5.2	U	5.2	U	5	U	5	U	5.1	U	5.1	U	5	U	5.2	U	5.1	U	5.5	U
Caprolactam	ug/l		9900	7.2	UJ	7.2	UJ	7.1	UJ	7.1	UJ	7.1	UJ	7.2	UJ	7	UJ	7.3	U	7.1	U	7.7	UJ
Carbazole	ug/l			2.1	U	2.1	U	2	U	2	U	2	U	2	U	2	U	2.1	U	2	U	2.2	U
Chrysene	ug/l		25	0.52	U	0.52	U	0.5	U	0.5	U	0.51	U	0.51	U	0.5	U	0.52	U	0.51	U	0.55	U
Dibenzo(a,h)Anthracene	ug/l		0.025	0.52	U	0.52	U	0.5	U	0.5	U	0.51	U	0.51	U	0.5	U	0.52	U	0.51	U	0.55	U
Dibenzofuran	ug/l		7.9	2.1	U	2.1	U	2	U	2	U	2	U	2	U	2	U	2.1	U	2	U	2.2	U
Diethyl Phthalate	ug/l		15000	5.2	U	5.2	U	5	U	5	U	5.1	U	5.1	U	5	U	5.2	U	5.1	U	5.5	U
Dimethyl Phthalate	ug/l			5.2	U	5.2	U	5	U	5	U	5.1	U	5.1	U	5	U	5.2	U	5.1	U	5.5	U
Di-n-Butyl Phthalate	ug/l		900	5.2	U	5.2	U	5	U	5	U	12	U	12	U	5	U	5.2	U	10	NQ	5.5	U
Di-n-Octyl Phthalate	ug/l		200	11	U	11	U	11	U	11	U	11	U	11	U	11	U	12	U	11	U	12	U
Fluoranthene	ug/l		800	1.3	U	0.52	U	0.5	U	0.5	U	0.51	U	0.51	U	0.5	U	0.52	U	0.51	U	0.55	U
Fluorene	ug/l		290	2.3	U	0.52	U	0.5	U	0.5	U	0.51	U	0.51	U	0.5	U	0.52	U	0.51	U	0.55	U
Hexachlorobenzene	ug/l	1	0.0098	0.52	U	0.52	U	0.5	U	0.5	U	0.51	U	0.51	U	0.5	U	0.52	U	0.51	U	0.55	U
Hexachlorobutadiene	ug/l		0.14	2.1	U	2.1	U	2	U	2	U	2	U	2	U	2	U	2.1	U	2	U	2.2	U
Hexachlorocyclopentadiene	ug/l	50	0.41	11	U	11	UJ	11	UJ	11	UJ	11	U	11	U	11	UJ	12	U	11	U	12	UJ
Hexachloroethane	ug/l		0.33	5.2	U	5.2	U	5	U	5	U	5.1	U	5.1	U	5	U	5.2	U	5.1	U	5.5	U
Indeno(1,2,3-Cd)Pyrene	ug/l		0.25	0.52	U	0.52	U	0.5	U	0.5	U	0.51	U	0.51	U	0.5	U	0.52	U	0.51	U	0.55	U
Isophorone	ug/l		78	2.1	U	2.1	U	2	U	2	U	2	U	2	U	2	U	2.1	U	2	U	2.2	U
Naphthalene	ug/l		0.12	0.9	U	0.52	U	0.5	U	0.5	U	0.14	J	0.12	J	4	NQ	0.52	U	0.51	U	0.8	NQ

**Table 24. SVOCs Groundwater Analytical Results
December 2021
RCRA Facility Investigation Report
Honeywell Delaware Valley Works
Claymont, Delaware
Wood Project No. 3482210786**

Parameter	Unit s	Location ID		MW06-03		MW-07		MW-08		MW-09		MW-102		MW-102		MW-104		MW-116		MW-117		MW-118		
		NOV2021RS L_MCL	NOV2021RSL _TAPW	Sample ID Sample Date	Result	Lab Qual.	Result	Lab Qual.	Result	Lab Qual.	Result	Lab Qual.	Result	Lab Qual.	Result	Lab Qual.	Result	Lab Qual.	Result	Lab Qual.	Result	Lab Qual.	Result	Lab Qual.
Nitrobenzene	ug/l		0.14		2.1	U	2.1	U	2	U	2	U	11		11		2	U	2.1	U	2	U	2.2	U
n-Nitroso-di-n-Propylamine	ug/l		0.011		2.1	U	2.1	U	2	U	2	U	2	U	2	U	2	U	2.1	U	2	U	2.2	U
n-Nitrosodiphenylamine	ug/l		12		2.1	U	2.1	U	2	U	2	U	25		27		4.1	NQ	2.1	U	2	U	0.64	J
Pentachlorophenol	ug/l	1	0.041		5.2	U	5.2	U	5	U	5	U	5.1	U	5.1	U	5	U	5.2	U	5.1	U	5.5	U
Phenanthrene	ug/l				3.5		0.52	U	0.5	U	0.5	U	0.51	U	0.51	U	0.5	U	0.52	U	0.51	U	0.55	U
Phenol	ug/l		5800		2.1	U	2.1	U	2	UJ	2	UJ	2	U	2	U	0.71	J	2.1	U	2	U	2.2	U
Pyrene	ug/l		120		1.7		0.52	U	0.5	U	0.5	U	0.51	U	0.51	U	0.5	U	0.52	U	0.51	U	0.55	U
TOTAL SVOCs	ug/l				18.46		0		0		0		453.44		423.42		8.81		0		10		1.44	

Notes:
Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL)
Maximum Contaminant Level (MCL) (November 2021)
Exceeds the EPA Tapwater RSL
Blanks indicate RSL not established
RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0
U = undetected
J = estimated value
J+ = estimated biased high
J- = estimated biased low
R = rejected
ug/L = micrograms per liter
SWMU = Solid Waste Management Unit
RCRA = Resource Conservation and Recovery Act
DUP = Duplicate sample
Exceedances shown may exceed one or more criteria if available

Table 24. SVOCs Groundwater Analytical Results
December 2021
RCRA Facility Investigation Report
Honeywell Delaware Valley Works
Claymont, Delaware
Wood Project No. 3482210786

Parameter	Unit s	Location ID Sample ID Sample Date		MW-12 MW-12-120821 12/8/2021		MW-13 MW-13-120721 12/7/2021		SM13-MW01 SM13-MW1-120621 12/6/2021		SM13-MW01 SM13-MW1-120621-DUP 12/6/2021		SM14-MW01 SM14-MW1-120921 12/9/2021		SM14-MW01 SM14-MW1-120921-DUP 12/9/2021		SM14-MW02 SM14-MW2-120821 12/8/2021		SM14-MW02 SM14-MW2-120821-DUP 12/8/2021		SM15-MW02 SM15-MW2-120821 12/8/2021		SM16-MW01 SM16-MW1-120921 12/9/2021	
		NOV2021RS L_MCL	NOV2021RSL _TAPW	Result	Lab Qual.	Result	Lab Qual.	Result	Lab Qual.	Result	Lab Qual.	Result	Lab Qual.	Result	Lab Qual.	Result	Lab Qual.	Result	Lab Qual.	Result	Lab Qual.	Result	Lab Qual.
1,1'-Biphenyl	ug/l		0.83	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
1,2,4,5-Tetrachlorobenzene	ug/l		0.17	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
2,2'-Oxybis(1-Chloropropane)	ug/l		710	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
2,3,4,6-Tetrachlorophenol	ug/l		240	5.1	U	5	U	5.1	U	5.1	R	5	U	5.1	U	5.1	U	5	U	5.1	U	5.1	U
2,4,5-Trichlorophenol	ug/l		1200	2	U	2	U	2	U	2	R	2	U	2	U	2	U	2	U	2	U	2	U
2,4,6-Trichlorophenol	ug/l		4.1	2	U	2	U	2	U	2	R	2	U	2	U	2	U	2	U	2	U	2	U
2,4-Dichlorophenol	ug/l		46	2	U	2	U	2	U	2	R	2	U	2	U	2	U	2	U	2	U	0.6	J
2,4-Dimethylphenol	ug/l		360	10	U	10	U	10	U	10	R	10	U	10	U	10	U	10	U	10	U	31	
2,4-Dinitrophenol	ug/l		39	30	U	30	U	30	U	30	R	30	UJ	30	UJ	30	U	30	U	31	UJ	34	
2,4-Dinitrotoluene	ug/l		0.24	5.1	U	5	U	5.1	U	5.1	U	5	U	5.1	U	5.1	U	5	U	5.1	U	5.1	U
2,6-Dinitrotoluene	ug/l		0.049	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
2-Chloronaphthalene	ug/l		750	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
2-Chlorophenol	ug/l		91	2	U	2	U	2	U	2	R	2	U	2	U	2	U	2	U	2	U	2	U
2-Methylnaphthalene	ug/l		36	0.51	U	0.13	J	0.51	U	0.51	U	0.5	U	0.51	U	0.51	U	0.5	U	0.51	U	0.22	J
2-Methylphenol	ug/l		930	2	U	2	U	2	U	2	R	2	U	2	U	2	U	2	U	2	U	3.8	
2-Nitroaniline	ug/l		190	5.1	U	5	U	5.1	U	5.1	U	5	U	5.1	U	5.1	U	5	U	5.1	U	5.1	U
2-Nitrophenol	ug/l			5.1	U	5	U	5.1	U	5.1	R	5	U	5.1	U	5.1	U	5	U	5.1	U	480	
3,3'-Dichlorobenzidine	ug/l		0.13	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
3-Nitroaniline	ug/l			5.1	U	5	U	5.1	U	5.1	U	5	U	5.1	U	5.1	U	5	U	5.1	U	5.1	U
4,6-Dinitro-2-Methylphenol	ug/l		1.5	21	U	21	U	21	U	21	R	21	U	21	U	21	U	21	U	21	U	21	U
4-Bromophenyl Phenyl Ether	ug/l			2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
4-Chloro-3-Methylphenol	ug/l		1400	5.1	U	5	U	5.1	U	5.1	R	5	U	5.1	U	5.1	U	5	U	5.1	U	5.1	U
4-Chloroaniline	ug/l		0.37	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
4-Chlorophenyl Phenyl Ether	ug/l			2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
4-Methylphenol	ug/l		370	2	U	2	U	2	U	2	R	2	U	2	U	2	U	2	U	2	U	18	
4-Nitroaniline	ug/l		3.8	3	U	3	U	3	U	3	U	3	U	3	U	3	U	3	U	3	U	3	U
4-Nitrophenol	ug/l			30	U	30	U	30	U	30	R	30	U	30	U	30	U	30	U	31	U	63	
Acenaphthene	ug/l		530	0.51	U	0.5	U	0.51	U	0.51	U	0.5	U	0.51	U	0.51	U	0.5	U	0.15	J	0.51	U
Acenaphthylene	ug/l			0.51	U	0.5	U	0.51	U	0.51	U	0.5	U	0.51	U	0.51	U	0.5	U	0.51	U	0.51	U
Acetophenone	ug/l		1900	5.1	U	5	U	5.1	U	5.1	U	5	U	5.1	U	5.1	U	5	U	5.1	U	72	
Anthracene	ug/l		1800	0.51	U	0.5	U	0.51	U	0.51	U	0.5	U	0.51	U	0.51	U	0.5	U	0.51	U	0.51	U
Atrazine	ug/l	3	0.3	5.1	U	5	U	5.1	U	5.1	U	5	U	5.1	U	5.1	U	5	U	5.1	U	5.1	U
Benzaldehyde	ug/l		19	5.1	U	5	U	5.1	U	5.1	U	5	UJ	5.1	UJ	5.1	U	5	U	5.1	U	1.9	J
Benzo(A)Anthracene	ug/l		0.03	0.51	U	0.13	J	0.51	U	0.51	U	0.5	U	0.51	U	0.51	U	0.5	U	0.51	U	0.51	U
Benzo(A)Pyrene	ug/l	0.2	0.025	0.51	U	0.26	J	0.51	U	0.51	U	0.5	U	0.51	U	0.51	U	0.5	U	0.51	U	0.51	U
Benzo(B)Fluoranthene	ug/l		0.25	0.51	U	0.41	J	0.51	U	0.51	U	0.5	U	0.51	U	0.51	U	0.5	U	0.51	U	0.51	U
Benzo(G,H,I)perylene	ug/l			0.51	U	0.25	J	0.51	U	0.51	U	0.5	U	0.51	U	0.51	U	0.5	U	0.51	U	0.51	U
Benzo(K)Fluoranthene	ug/l		2.5	0.51	U	0.13	J	0.51	U	0.51	U	0.5	U	0.51	U	0.51	U	0.5	U	0.51	U	0.51	U
bis-(2-Chloroethoxy)Methane	ug/l		59	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
bis-(2-Chloroethyl)Ether	ug/l		0.014	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
bis-(2-Ethylhexyl)Phthalate	ug/l	6	5.6	5.1	U	5	U	5.1	U	5.1	U	5	U	5.1	U	5.1	U	5	U	5.1	U	5.1	U
Butylbenzyl Phthalate	ug/l		16	5.1	U	5	U	5.1	U	5.1	U	5	U	5.1	U	5.1	U	5	U	5.1	U	5.1	U
Caprolactam	ug/l		9900	7.1	UJ	7.1	UJ	7.1	U	7.1	U	7.1	U	7.1	U	7.1	UJ	7.1	UJ	7.1	U	7.1	UJ
Carbazole	ug/l			2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Chrysene	ug/l		25	0.51	U	0.28	J	0.51	U	0.51	U	0.5	U	0.51	U	0.51	U	0.5	U	0.51	U	0.51	U
Dibenzo(a,h)Anthracene	ug/l		0.025	0.51	U	0.5	U	0.51	U	0.51	U	0.5	U	0.51	U	0.51	U	0.5	U	0.51	U	0.51	U
Dibenzofuran	ug/l		7.9	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Diethyl Phthalate	ug/l		15000	5.1	U	5	U	5.1	U	5.1	U	5	U	5.1	U	5.1	U	5	U	5.1	U	5.1	U
Dimethyl Phthalate	ug/l			5.1	U	5	U	5.1	U	5.1	U	5	U	5.1	U	5.1	U	5	U	5.1	U	5.1	U
Di-n-Butyl Phthalate	ug/l		900	5.1	U	5	U	20	NQ	11		5	U	5.1	U	5.1	U	5	U	5.1	U	5.1	U
Di-n-Octyl Phthalate	ug/l		200	11	U	11	U	11	U	11	U	11	U	11	U	11	U	11	U	11	U	11	U
Fluoranthene	ug/l		800	0.51	U	0.45	J	0.51	U	0.51	U	0.5	U	0.51	U	0.51	U	0.5	U	0.51	U	0.51	U
Fluorene	ug/l		290	0.51	U	0.5	U	0.51	U	0.51	U	0.5	U	0.51	U	0.51	U	0.5	U	0.51	U	0.51	U
Hexachlorobenzene	ug/l	1	0.0098	0.51	U	0.5	U	0.51	U	0.51	U	0.5	U	0.51	U	0.51	U	0.5	U	0.51	U	0.51	U
Hexachlorobutadiene	ug/l		0.14	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Hexachlorocyclopentadiene	ug/l	50	0.41	11	UJ	11	UJ	11	U	11	U	11	UJ	11	UJ	11	UJ	11	UJ	11	U	11	U
Hexachloroethane	ug/l		0.33	5.1	U	5	U	5.1	U	5.1	U	5	U	5.1	U	5.1	U	5	U	5.1	U	5.1	U
Indeno(1,2,3-Cd)Pyrene	ug/l		0.25	0.51	U	0.24	J	0.51	U	0.51	U	0.5	U	0.51	U	0.51	U	0.5	U	0.51	U	0.51	U
Isophorone	ug/l		78	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Naphthalene	ug/l		0.12	65		43	NQ	0.51	U	0.51	U	0.84		0.88		0.51	U	0.5	U	0.47	J	1.4	

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Parameter	Unit s	Location ID		MW-12		MW-13		SM13-MW01		SM13-MW01		SM14-MW01		SM14-MW01		SM14-MW02		SM14-MW02		SM15-MW02		SM16-MW01				
		NOV2021RS L_MCL	NOV2021RSL _TAPW	Sample ID MW-12-120821	Sample Date 12/8/2021	Result	Lab Qual.	Result	Lab Qual.	Result	Lab Qual.	Result	Lab Qual.	Result	Lab Qual.	Result	Lab Qual.	Result	Lab Qual.	Result	Lab Qual.	Result	Lab Qual.	Result	Lab Qual.	
Nitrobenzene	ug/l		0.14		88	2	U	2	U	2	U	200		190		2	U	2	U	2	U	2	U	2	U	
n-Nitroso-di-n-Propylamine	ug/l		0.011		2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
n-Nitrosodiphenylamine	ug/l		12		2	U	12	NQ	4.8	NQ	4.4		2	U	2	U	2	U	2	U	2	U	2	U	2	U
Pentachlorophenol	ug/l	1	0.041		5.1	U	5	U	5.1	U	5.1	R	5	U	5.1	U	5.1	U	5	U	5.1	U	5.1	U	5.1	U
Phenanthrene	ug/l				0.51	U	0.5	U	0.51	U	0.51	U	0.5	U	0.51	U	0.51	U	0.5	U	0.51	U	0.51	U	0.51	U
Phenol	ug/l		5800		2	U	2	U	2	U	2	R	2	U	2	U	2		1.8	J	2	U	110			
Pyrene	ug/l		120		0.51	U	0.41	J	0.51	U	0.51	U	0.5	U	0.51	U	0.51	U	0.5	U	0.51	U	0.51	U	0.51	U
TOTAL SVOCs	ug/l				153		57.69		24.8		15.4		200.84		190.88		2		1.8		0.62		815.92			

Notes:
 Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL)
 Maximum Contaminant Level (MCL) (November 2021)
Exceeds the EPA Tapwater RSL
 Blanks indicate RSL not established
 RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0
 U = undetected
 J = estimated value
 J+ = estimated biased high
 J- = estimated biased low
 R = rejected
 ug/L = micrograms per liter
 SWMU = Solid Waste Management Unit
 RCRA = Resource Conservation and Recovery Act
 DUP = Duplicate sample
 Exceedances shown may exceed one or more criteria if available

**Table 24. SVOCs Groundwater Analytical Results
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Parameter	Unit	Location ID		SM16-MW01		SM16-MW02		SM17-MW01		SM17-MW02		SM18-MW01		SM19-MW01		SM19-MW02		SM20-MW01		SM20-MW02		SM20-MW03		
		NOV2021RS L_MCL	NOV2021RSL _TAPW	Sample ID SM16-MW1D-121021	Sample Date 12/10/2021	Sample ID SM16-MW2-120821	Sample Date 12/8/2021	Sample ID SM17-MW1-120321	Sample Date 12/3/2021	Sample ID SM17-MW2-120821	Sample Date 12/8/2021	Sample ID SM18-MW1-120821	Sample Date 12/8/2021	Sample ID SM19-MW1-120821	Sample Date 12/8/2021	Sample ID SM19-MW2-120621	Sample Date 12/6/2021	Sample ID SM20-MW1-120321	Sample Date 12/3/2021	Sample ID SM20-MW2-120221	Sample Date 12/2/2021	Sample ID SM20-MW3-120721	Sample Date 12/7/2021	
1,1'-Biphenyl	ug/l		0.83		2.1	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
1,2,4,5-Tetrachlorobenzene	ug/l		0.17		2.1	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
2,2'-Oxybis(1-Chloropropane)	ug/l		710		2.1	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
2,3,4,6-Tetrachlorophenol	ug/l		240		5.2	U	5	U	5.1	U	5	U	5.1	U	2.6	J	5.1	U	5.1	U	5	U	5	U
2,4,5-Trichlorophenol	ug/l		1200		2.1	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
2,4,6-Trichlorophenol	ug/l		4.1		2.1	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
2,4-Dichlorophenol	ug/l		46		2.1	U	2	U	2	U	2	U	2	U	2	U	2	U	0.7	J	2	U	2	U
2,4-Dimethylphenol	ug/l		360		5.8	J	10	U	10	U	10	U	10	U	10	U	10	U	11		10	U	10	U
2,4-Dinitrophenol	ug/l		39		31	U	30	UJ	30	U	30	UJ	31	UJ	30	UJ	31	U	31	U	30	U	30	U
2,4-Dinitrotoluene	ug/l		0.24		5.2	U	5	U	5.1	U	5	U	5.1	U	5	U	5.1	U	5.1	U	5	U	5	U
2,6-Dinitrotoluene	ug/l		0.049		2.1	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
2-Chloronaphthalene	ug/l		750		1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
2-Chlorophenol	ug/l		91		1.3	J	2	U	2	U	1.4	J	2	U	4.1		2	U	2	U	2	U	2	U
2-Methylnaphthalene	ug/l		36		0.65		0.5	U	0.51	U	0.5	U	0.51	U	0.5	U	0.39	J	0.32	J	0.5	U	0.5	U
2-Methylphenol	ug/l		930		2.1	U	2	U	2	U	2	U	2	U	2	U	2	U	1.5	J	2	U	2	U
2-Nitroaniline	ug/l		190		5.2	U	5	U	5.1	U	5	U	5.1	U	5	U	5.1	U	5.1	U	5	U	5	U
2-Nitrophenol	ug/l				5.2	U	5	U	5.1	U	5	U	5.1	U	5	U	5.1	U	5.1	U	5	U	5	U
3,3'-Dichlorobenzidine	ug/l		0.13		10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
3-Nitroaniline	ug/l				5.2	U	5	U	5.1	U	5	U	5.1	U	5	U	5.1	U	5.1	U	5	U	5	U
4,6-Dinitro-2-Methylphenol	ug/l		1.5		22	U	21	U	21	U	21	U	22	U	21	U	21	U	21	U	21	U	21	U
4-Bromophenyl Phenyl Ether	ug/l				2.1	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
4-Chloro-3-Methylphenol	ug/l		1400		5.2	U	5	U	5.1	U	5	U	5.1	U	5	U	5.1	U	5.1	U	5	U	5	U
4-Chloroaniline	ug/l		0.37		10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
4-Chlorophenyl Phenyl Ether	ug/l				2.1	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
4-Methylphenol	ug/l		370		0.75	J	2	U	2	U	2	U	2	U	2	U	12	NQ	4.6		2	U	2	U
4-Nitroaniline	ug/l		3.8		3.1	U	3	U	3	U	3	U	3.1	U	3	U	3.1	U	3.1	U	3	U	3	U
4-Nitrophenol	ug/l				31	U	30	U	30	U	30	U	31	U	30	U	31	U	31	U	30	U	30	U
Acenaphthene	ug/l		530		0.71		0.5	U	0.51	U	0.5	U	0.51	U	1.3		0.69	NQ	0.31	J	0.5	U	0.5	U
Acenaphthylene	ug/l				0.52	U	0.5	U	0.51	U	0.5	U	0.51	U	0.5	U	0.51	U	0.51	U	0.5	U	0.5	U
Acetophenone	ug/l		1900		3.3	J	5	U	5.1	U	5	U	5.1	U	5	U	5.1	U	5.1	U	5	U	5	U
Anthracene	ug/l		1800		0.16	J	0.5	U	0.51	U	0.5	U	0.51	U	0.5	U	0.15	J	0.51	U	0.5	U	0.5	U
Atrazine	ug/l	3	0.3		5.2	U	5	U	5.1	U	5	U	5.1	U	5	U	5.1	U	5.1	U	5	U	5	U
Benzaldehyde	ug/l		19		5.2	U	5	U	5.1	U	5	U	5.1	U	5	U	2.3	J	5.1	U	5	U	5	U
Benzo(A)Anthracene	ug/l		0.03		0.52	U	0.5	U	0.51	U	0.5	U	0.51	U	0.5	U	0.32	J	0.51	U	0.5	U	0.5	U
Benzo(A)Pyrene	ug/l	0.2	0.025		0.52	U	0.5	U	0.51	U	0.5	U	0.51	U	0.5	U	0.19	J	0.51	U	0.5	U	0.5	U
Benzo(B)Fluoranthene	ug/l		0.25		0.52	U	0.5	U	0.51	U	0.5	U	0.51	U	0.5	U	0.27	J	0.51	U	0.5	U	0.5	U
Benzo(G,H,I)perylene	ug/l				0.52	U	0.5	U	0.51	U	0.5	U	0.51	U	0.5	U	0.51	U	0.51	U	0.5	U	0.5	U
Benzo(K)Fluoranthene	ug/l		2.5		0.52	U	0.5	U	0.51	U	0.5	U	0.51	U	0.5	U	0.14	J	0.51	U	0.5	U	0.5	U
bis-(2-Chloroethoxy)Methane	ug/l		59		2.1	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
bis-(2-Chloroethyl)Ether	ug/l		0.014		2.1	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
bis-(2-Ethylhexyl)Phthalate	ug/l	6	5.6		5.2	U	5	U	5.1	U	5	U	5.1	U	5	U	5.1	U	5.1	U	5	U	5	U
Butylbenzyl Phthalate	ug/l		16		5.2	U	5	U	5.1	U	5	U	5.1	U	5	U	5.1	U	5.1	U	5	U	5	U
Caprolactam	ug/l		9900		7.2	UJ	7	U	7.1	UJ	7.1	U	7.2	U	7	U	7.1	U	7.2	UJ	7.1	UJ	7.1	UJ
Carbazole	ug/l				2.1	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Chrysene	ug/l		25		0.52	U	0.5	U	0.51	U	0.5	U	0.51	U	0.5	U	0.42	J	0.51	U	0.5	U	0.5	U
Dibenzo(a,h)Anthracene	ug/l		0.025		0.52	U	0.5	U	0.51	U	0.5	U	0.51	U	0.5	U	0.51	U	0.51	U	0.5	U	0.5	U
Dibenzofuran	ug/l		7.9		0.63	J	2	U	2	U	2	U	2	U	0.66	J	2	U	2	U	2	U	2	U
Diethyl Phthalate	ug/l		15000		5.2	U	5	U	5.1	U	5	U	5.1	U	5	U	5.1	U	5.1	U	5	U	5	U
Dimethyl Phthalate	ug/l				5.2	U	5	U	5.1	U	5	U	5.1	U	5	U	5.1	U	5.1	U	5	U	5	U
Di-n-Butyl Phthalate	ug/l		900		5.2	U	5	U	10	U	5	U	5.1	U	5	U	11	NQ	11	U	5.1	U	5	U
Di-n-Octyl Phthalate	ug/l		200		11	U	11	U	11	U	11	U	11	U	11	U	11	U	11	U	11	U	11	U
Fluoranthene	ug/l		800		0.54		0.5	U	0.51	U	0.5	U	0.51	U	0.5	U	1.1	NQ	0.18	J	0.5	U	0.5	U
Fluorene	ug/l		290		0.69		0.5	U	0.51	U	0.5	U	0.51	U	0.34	J	0.73	NQ	0.51	U	0.5	U	0.5	U
Hexachlorobenzene	ug/l	1	0.0098		0.52	U	0.5	U	0.51	U	0.5	U	0.51	U	0.5	U	0.51	U	0.51	U	0.5	U	2.3	
Hexachlorobutadiene	ug/l		0.14		2.1	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	1.4	J
Hexachlorocyclopentadiene	ug/l	50	0.41		11	UJ	11	U	11	U	11	U	11	U	11	U	11	U	11	U	11	U	11	UJ
Hexachloroethane	ug/l		0.33		5.2	U	5	U	5.1	U	5	U	5.1	U	5	U	5.1	U	5.1	U	5	U	5	U
Indeno(1,2,3-Cd)Pyrene	ug/l		0.25		0.52	U	0.5	U	0.51	U	0.5	U	0.51	U	0.5	U	0.51	U	0.51	U	0.5	U	0.5	U
Isophorone	ug/l		78		2.1	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
Naphthalene	ug/l		0.12		1.8		0.5	U	0.51	U	0.18	J	0.51	U	0.48	J	2.7	NQ	0.76		0.5	U	0.5	U

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Parameter	Unit s	NOV2021RS L_MCL	NOV2021RSL _TAPW	SM16-MW01		SM16-MW02		SM17-MW01		SM17-MW02		SM18-MW01		SM19-MW01		SM19-MW02		SM20-MW01		SM20-MW02		SM20-MW03	
				Sample ID	Sample Date	Sample ID	Sample Date	Sample ID	Sample Date	Sample ID	Sample Date	Sample ID	Sample Date	Sample ID	Sample Date	Sample ID	Sample Date	Sample ID	Sample Date	Sample ID	Sample Date	Sample ID	Sample Date
Nitrobenzene	ug/l		0.14	2.1	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
n-Nitroso-di-n-Propylamine	ug/l		0.011	2.1	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U	2	U
n-Nitrosodiphenylamine	ug/l		12	2.1	U	2	U	2	U	0.73	J	2	U	2	U	2	U	2	U	2	U	2	U
Pentachlorophenol	ug/l	1	0.041	5.2	U	5	U	5.1	U	1.3	J	5.1	U	79		5.1	U	5.1	U	5	U	5	U
Phenanthrene	ug/l			1.4		0.5	U	0.51	U	0.5	U	0.51	U	0.13	J	1.5	NQ	0.46	J	0.5	U	0.5	U
Phenol	ug/l		5800	0.67	J	2	U	2	U	0.86	J	2	U	2	U	250	NQ	8.6		2	U	2	U
Pyrene	ug/l		120	0.34	J	0.5	U	0.51	U	0.5	U	0.51	U	0.5	U	0.77	NQ	0.51	U	0.5	U	0.5	U
TOTAL SVOCs	ug/l			18.74		0		10		4.47		0		88.61		284.67		39.43		0		3.7	

Notes:
 Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL)
 Maximum Contaminant Level (MCL) (November 2021)
Exceeds the EPA Tapwater RSL
 Blanks indicate RSL not established
 RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0
 U = undetected
 J = estimated value
 J+ = estimated biased high
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 ug/L = micrograms per liter
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 RCRA = Resource Conservation and Recovery Act
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Parameter	Unit	NOV2021RS L_MCL	NOV2021RSL _TAPW	SM21-MW01 SM21-MW1-120621 12/6/2021		SM21-MW02 SM21-MW2-120221 12/2/2021		SM22-MW01 SM22-MW1-120721 12/7/2021		SM23-MW01 SM23-MW1-120721 12/7/2021		SM27-MW01 SM27-MW1-120321 12/3/2021		WW-MW1 WW-MW1-121321 12/13/2021		WW-MW2 WW-MW2-121021 12/10/2021		WW-MW3 WW-MW3-121021 12/10/2021		WW-MW4 WW-MW4-121021 12/10/2021	
				Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual
1,1'-Biphenyl	ug/l		<u>0.83</u>	2	U	2	U	<u>6.4</u>		2.1	U	2	U	2	U	2.1	U	2	U	<u>10</u>	
1,2,4,5-Tetrachlorobenzene	ug/l		<u>0.17</u>	2	U	2	U	2	U	2.1	U	2	U	2	U	2.1	U	2	U	<u>1.3</u>	J
2,2'-Oxybis(1-Chloropropane)	ug/l		710	2	U	2	U	2	U	2.1	U	2	U	2	U	2.1	U	2	U	2	U
2,3,4,6-Tetrachlorophenol	ug/l		240	5	U	5.1	U	5	U	5.2	U	5	R	5.1	U	5.3	U	6.3		5	U
2,4,5-Trichlorophenol	ug/l		1200	1.1	J	2	U	<u>2.3</u>		2.1	U	2	R	1.3	J	2.1	U	2	U	3.1	U
2,4,6-Trichlorophenol	ug/l		<u>4.1</u>	2.2	NQ	2	U	<u>4.6</u>		2.1	U	2	R	<u>4.8</u>	NQ	<u>100</u>		<u>96</u>		1	J
2,4-Dichlorophenol	ug/l		<u>46</u>	<u>98</u>	NQ	2	U	31		2.1	U	2	R	6.2	NQ	<u>1100</u>		<u>890</u>		1.6	J
2,4-Dimethylphenol	ug/l		360	10	U	10	U	4.5	J	10	U	10	R	10	U	11	U	10	U	10	U
2,4-Dinitrophenol	ug/l		39	30	U	30	U	30	U	31	U	30	R	31	U	32	U	30	U	30	U
2,4-Dinitrotoluene	ug/l		<u>0.24</u>	5	U	5.1	U	5	U	5.2	U	<u>10</u>		5.1	U	5.3	U	5.1	U	5	U
2,6-Dinitrotoluene	ug/l		<u>0.049</u>	2	U	2	U	2	U	2.1	U	<u>3.2</u>		2	U	2.1	U	2	U	2	U
2-Chloronaphthalene	ug/l		750	1	U	1	U	1	U	1	U	1	U	1	U	1.1	U	1	U	1	U
2-Chlorophenol	ug/l		91	8.5	NQ	2	U	22		2.1	U	2	R	3.1	NQ	16		20		5.2	
2-Methylnaphthalene	ug/l		36	0.5	U	0.51	U	12		0.52	U	0.5	U	0.86	NQ	0.51	J	0.24	J	1.2	
2-Methylphenol	ug/l		930	2	U	2	U	1.2	J	2.1	U	2	R	1.3	J	41		1.8	J	0.55	J
2-Nitroaniline	ug/l		190	5	U	5.1	U	5	U	5.2	U	5	U	5.1	U	5.3	U	5.1	U	5	U
2-Nitrophenol	ug/l			5	U	5.1	U	5	U	5.2	U	5	R	5.1	U	5.3	U	5.1	U	5	U
3,3'-Dichlorobenzidine	ug/l		0.13	10	U	10	U	10	U	10	U	10	U	10	U	11	U	10	U	10	U
3-Nitroaniline	ug/l			5	U	5.1	U	5	U	5.2	U	5	U	5.1	U	5.3	U	5.1	U	5	U
4,6-Dinitro-2-Methylphenol	ug/l		1.5	21	U	21	U	21	U	22	U	21	R	21	U	22	U	21	U	21	U
4-Bromophenyl Phenyl Ether	ug/l			2	U	2	U	2	U	2.1	U	2	U	2	U	2.1	U	2	U	2	U
4-Chloro-3-Methylphenol	ug/l		1400	5	U	5.1	U	5	U	5.2	U	5	R	5.1	U	5.3	U	5.1	U	5	U
4-Chloroaniline	ug/l		0.37	10	U	10	U	10	U	10	U	10	U	10	U	11	U	10	U	10	U
4-Chlorophenyl Phenyl Ether	ug/l			2	U	2	U	2	U	2.1	U	2	U	2	U	2.1	U	2	U	2	U
4-Methylphenol	ug/l		370	2.2	NQ	2	U	3.7		2.1	U	2	R	8.3	NQ	18		4.2		0.6	J
4-Nitroaniline	ug/l		3.8	3	U	3	U	3	U	3.1	U	3	U	3.1	U	3.2	U	3	U	3	U
4-Nitrophenol	ug/l			30	U	30	U	30	U	31	U	30	R	31	U	32	U	30	U	30	U
Acenaphthene	ug/l		530	0.5	U	0.51	U	20		0.52	U	0.5	U	0.46	J	0.53	U	0.22	J	1.6	
Acenaphthylene	ug/l			0.5	U	0.51	U	0.5	U	0.52	U	0.5	U	0.51	U	0.53	U	0.51	U	0.15	J
Acetophenone	ug/l		1900	5	U	5.1	U	5	U	5.2	U	5	U	5.1	U	6.6		5.1	U	5	U
Anthracene	ug/l		1800	0.5	U	0.51	U	0.5	U	0.52	U	0.5	U	0.24	J	0.53	U	0.51	U	0.57	
Atrazine	ug/l	3	0.3	5	U	5.1	U	5	U	5.2	U	5	U	5.1	U	5.3	U	5.1	U	5	U
Benzaldehyde	ug/l		19	5	U	5.1	U	3.1	J+	5.2	U	5	U	5.1	U	5.3	U	5.1	U	5	U
Benzo(A)Anthracene	ug/l		<u>0.03</u>	0.5	U	0.51	U	0.5	U	<u>0.19</u>	J	0.5	U	<u>0.17</u>	J	0.53	U	0.51	U	0.5	U
Benzo(A)Pyrene	ug/l	0.2	<u>0.025</u>	0.5	U	0.51	U	0.5	U	<u>0.21</u>	J	0.5	U	0.51	U	0.53	U	0.51	U	0.5	U
Benzo(B)Fluoranthene	ug/l		<u>0.25</u>	0.5	U	0.51	U	0.5	U	<u>0.36</u>	J	0.5	U	0.51	U	0.53	U	0.51	U	0.15	J
Benzo(G,H,I)perylene	ug/l			0.5	U	0.51	U	0.5	U	0.22	J	0.5	U	0.51	U	0.53	U	0.51	U	0.5	U
Benzo(K)Fluoranthene	ug/l		2.5	0.5	U	0.51	U	0.5	U	0.16	J	0.5	U	0.51	U	0.53	U	0.51	U	0.5	U
bis-(2-Chloroethoxy)Methane	ug/l		59	2	U	2	U	2	U	2.1	U	2	U	2	U	2.1	U	2	U	2	U
bis-(2-Chloroethyl)Ether	ug/l		0.014	2	U	2	U	2	U	2.1	U	2	U	2	U	2.1	U	2	U	2	U
bis-(2-Ethylhexyl)Phthalate	ug/l	6	5.6	5	U	5.1	U	5	U	5.2	U	5	U	5.1	U	5.3	U	5.1	U	5	U
Butylbenzyl Phthalate	ug/l		16	5	U	5.1	U	5	U	5.2	U	5	U	5.1	U	5.3	U	5.1	U	5	U
Caprolactam	ug/l		9900	7	U	7.1	UJ	7.1	UJ	7.3	UJ	7	UJ	7.1	UJ	7.4	UJ	7.1	UJ	7.1	UJ
Carbazole	ug/l			2	U	2	U	4.3		2.1	U	2	U	0.78	J	2.1	U	2	U	4.6	
Chrysene	ug/l		25	0.5	U	0.51	U	0.5	U	0.18	J	0.5	U	0.51	U	0.53	U	0.51	U	0.5	U
Dibenzo(a,h)Anthracene	ug/l		0.025	0.5	U	0.51	U	0.5	U	0.52	U	0.5	U	0.51	U	0.53	U	0.51	U	0.5	U
Dibenzofuran	ug/l		<u>7.9</u>	2	U	2	U	<u>12</u>		2.1	U	2	U	2	U	2.1	U	2	U	3.3	
Diethyl Phthalate	ug/l		15000	5	U	5.1	U	5	U	5.2	U	5	U	5.1	U	5.3	U	5.1	U	5	U
Dimethyl Phthalate	ug/l			5	U	5.1	U	5	U	5.2	U	5	U	5.1	U	5.3	U	5.1	U	5	U
Di-n-Butyl Phthalate	ug/l		900	14	NQ	5.1	U	5	U	5.2	U	9.9	U	5.1	U	5.3	U	5.1	U	5	U
Di-n-Octyl Phthalate	ug/l		200	11	U	11	U	11	U	11	U	11	U	11	U	12	U	11	U	11	U
Fluoranthene	ug/l		800	0.24	J	0.51	U	1		0.35	J	0.5	U	0.45	J	0.17	J	0.35	J	1	
Fluorene	ug/l		290	0.5	U	0.51	U	5.8		0.52	U	0.5	U	0.52	NQ	0.53	U	0.32	J	1.8	
Hexachlorobenzene	ug/l	1	<u>0.0098</u>	0.5	U	0.51	U	0.5	U	0.52	U	0.5	U	<u>0.87</u>	NQ	0.53	U	0.51	U	0.5	U
Hexachlorobutadiene	ug/l		<u>0.14</u>	2	U	2	U	2	U	2.1	U	2	U	<u>1.3</u>	J	2.1	U	2	U	2	U
Hexachlorocyclopentadiene	ug/l	50	0.41	11	U	11	UJ	11	UJ	11	UJ	11	U	11	UJ	12	UJ	11	UJ	11	UJ
Hexachloroethane	ug/l		0.33	5	U	5.1	U	5	U	5.2	U	5	U	5.1	U	5.3	U	5.1	U	5	U
Indeno(1,2,3-Cd)Pyrene	ug/l		0.25	0.5	U	0.51	U	0.5	U	0.22	J	0.5	U	0.51	U	0.53	U	0.51	U	0.5	U
Isophorone	ug/l		78	2	U	2	U	2	U	2.1	U	2	U	2	U	2.1	U	2	U	2	U
Naphthalene	ug/l		<u>0.12</u>	0.5	U	0.51	U	<u>87</u>		0.52	U	0.12	J	<u>11</u>	NQ	<u>250</u>		<u>680</u>		<u>6.9</u>	

**Table 24. SVOCs Groundwater Analytical Results
December 2021
RCRA Facility Investigation Report
Honeywell Delaware Valley Works
Claymont, Delaware
Wood Project No. 3482210786**

Parameter	Unit s	NOV2021RS L_MCL	Location ID Sample ID Sample Date NOV2021RSL _TAPW	SM21-MW01		SM21-MW02		SM22-MW01		SM23-MW01		SM27-MW01		WW-MW1		WW-MW2		WW-MW3		WW-MW4	
				Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual
Nitrobenzene	ug/l		0.14	2	U	2	U	2	U	2.1	U	2	U	2	U	2.1	U	2	U	2	U
n-Nitroso-di-n-Propylamine	ug/l		0.011	2	U	2	U	2	U	2.1	U	2	U	2	U	2.1	U	2	U	2	U
n-Nitrosodiphenylamine	ug/l		12	2	U	2	U	2	U	2.1	U	2	U	2	U	2.1	U	2	U	2	U
Pentachlorophenol	ug/l	1	0.041	5	U	5.1	U	5	U	5.2	U	5	R	5.1	U	4.9	J	140		5	U
Phenanthrene	ug/l			0.32	J	0.51	U	9.5		0.16	J	0.5	U	1.3	NQ	0.65		0.88		5	
Phenol	ug/l		5800	2	U	2	UJ	24		2.1	U	2	R	140	NQ	14		4.8		4.9	
Pyrene	ug/l		120	0.19	J	0.51	U	0.47	J	0.35	J	0.5	U	0.5	J	0.14	J	0.24	J	0.58	
TOTAL SVOCs	ug/l			126.75		0		254.87		2.4		23.22		183.45		1551.97		1845.35		55.1	

Notes:
 Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL) Maximum Contaminant Level (MCL) (November 2021)
Exceeds the EPA Tapwater RSL
 Blanks indicate RSL not established
 RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0
 U = undetected
 J = estimated value
 J+ = estimated biased high
 J- = estimated biased low
 R = rejected
 ug/L = micrograms per liter
 SWMU = Solid Waste Management Unit
 RCRA = Resource Conservation and Recovery Act
 DUP = Duplicate sample
 Exceedances shown may exceed one or more criteria if available

**Table 25. Metals Groundwater Analytical Results
December 2021
RCRA Facility Investigation Report
Honeywell Delaware Valley Works
Claymont, Delaware
Wood Project No. 3482210786**

Parameter	Unit	Location ID		A05-01		A06-01		AOC16-MW01		AOC16-MW02		BF3-MW1		BF3-MW1		BF3-MW2		BF3-MW3		BF3-MW3		BF3-MW4		EWL-8		MW-01		MW-03		MW-04	
		NOV2021RS L_MCL	NOV2021RS L_TAPW	Sample ID A5-01-121521	Sample Date 12/15/2021	Sample ID A6-01-121421	Sample Date 12/14/2021	Sample ID A016-MW1-120821	Sample Date 12/8/2021	Sample ID AOC16-MW2-120621	Sample Date 12/6/2021	Sample ID BF3-MW1-121321	Sample Date 12/13/2021	Sample ID BF3-MW1-121321-DUP	Sample Date 12/13/2021	Sample ID BF3-MW2-121321	Sample Date 12/13/2021	Sample ID BF3-MW3-121321	Sample Date 12/13/2021	Sample ID BF3-MW3-121321-DUP	Sample Date 12/13/2021	Sample ID BF3-MW4-121321	Sample Date 12/13/2021	Sample ID EWL-08-120621	Sample Date 12/6/2021	Sample ID MW-01-120321	Sample Date 12/3/2021	Sample ID MW-03-120721	Sample Date 12/7/2021	Sample ID MW-04-120221	Sample Date 12/2/2021
Aluminum	ug/l		20000	160	J	320		310	U	610		310	U	310	U	6200		87000	86000	11000		310	U	310	U	310	U	310	U	310	U
Antimony	ug/l	6	7.8	1.2		1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U
Arsenic	ug/l	10	0.052	4.4		1.7	J	1.6	J	1	J	38		38		2.9		22		20		9.3		12		43		2.4		2.1	U
Barium	ug/l	2000	3800	42		83		38		13	B	130		130		25		21		21		11		85		80		130		68	
Beryllium	ug/l	4	25	0.52	U	0.52	U	0.52	U	2.8		0.52	U	0.52	U	1.9		17		16		16		0.52	U	1.9		0.52	U	0.52	U
Cadmium	ug/l	5	1.8	0.52	U	0.52	U	0.25	J	19		0.52	U	0.52	U	1.6		0.75		0.77		6.1		0.52	U	0.52	U	0.52	U	0.43	J
Calcium	ug/l			34000		91000		27000		36000		42000		40000		160000		380000		380000		220000		170000		220000		32000		53000	
Chromium	ug/l	100		6.4	J	15	U	15	U	15	U	15	U	15	U	8.3	J	8.6	J	5.8	J	15	U	15	U	15	U	15	U	15	U
Cobalt	ug/l		6	5.2	U	5.2	U	9.6		160		2.6	J	2.8	J	130		120		120		720		1.6	J	5.2	U	5.2	U	6.5	
Copper	ug/l	1300	800	21	U	21	U	21		6000		21	U	21	U	17	J	21	U	21	U	21	U	21	U	21	U	21	U	21	U
Iron	ug/l		14000	170	J	230		4200		13000		66000		64000		57000		400000		390000		170000		1300		100000		27000		210	U
Lead	ug/l	15	15	15	U	15	U	15	U	15	U	15	U	15	U	15	U	77	U	77	U	15	U	15	U	10	J	15	U	15	U
Magnesium	ug/l			3000		9200		13000		25000		15000		14000		43000		200000		200000		130000		42000		78000		8700		36000	
Manganese	ug/l		430	36		23		1600		3800		4500		4300		5800		5700		5700		17000		610		2600		880		1500	
Mercury	ug/l	2	0.63	0.2	U	0.2	U	0.2	U	0.093	J	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Nickel	ug/l			390	U	10	U	5.7	J	70		2.9	J	130		180		170		350		350		2.7	J	10	U	10	U	6.2	J
Potassium	ug/l			6100		5100		1700		2500		2600		2500		5600		80000		80000		2200		31000		32000		3200		3700	
Selenium	ug/l	50	100	52	U	52	U	52	U	52	U	52	U	52	U	52	U	52	U	52	U	52	U	52	U	40	J	52	U	52	U
Silver	ug/l			94	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Sodium	ug/l			120000		220000		60000		150000		130000		130000		95000		150000		150000		170000		27000		160000		27000		210000	
Thallium	ug/l	2	0.2	0.52	U	0.52	U	0.52	U	0.15	J	0.52	U	0.52	U	0.15	J	0.52	U	0.52	U	0.33	J	0.52	U	0.52	U	0.52	U	0.52	U
Vanadium	ug/l			86	J	10	U	3.1	J	10	U	10	U	10	U	10	U	11		11		14		10	U	4.2	J	10	U	10	U
Zinc	ug/l		6000	9.4	J	21	U	140		6100		15	J	11	J	440		1200		1100		2700		95		79	U	85		76	

Notes:
 Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL),
 Maximum Contaminant Level (MCL) (November 2021)
Exceeds the EPA Tapwater RSL
 Blanks indicate RSL not established
 RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0
 U = undetected
 J = estimated value
 J+ = estimated biased high
 J- = estimated biased low
 R = rejected
 ug/L = micrograms per liter
 SWMU = Solid Waste Management Unit
 RCRA = Resource Conservation and Recovery Act
 DUP = Duplicate sample
 Exceedances shown may exceed one or more criteria if available

**Table 25. Metals Groundwater Analytical Results
December 2021
RCRA Facility Investigation Report
Honeywell Delaware Valley Works
Claymont, Delaware
Wood Project No. 3482210786**

Parameter	Unit	Location ID		MW-05		MW-06		MW-06		MW06-01		MW06-01		MW06-02		MW06-03		MW-07		MW-08		MW-09		MW-102		MW-102		MW-104		MW-116			
		NOV2021RS L_MCL	NOV2021RS L_TAPW	Sample ID	Sample Date	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual		
Aluminum	ug/l		20000			310	U	310	U	310	U	180	J	310	U	310	U	310	U	310	U	310	U	190	J	310	U	390		310	U		
Antimony	ug/l	6	7.8			1	U	1	U	1	U	1	U	0.45	J	1	U	0.42	J	1	U	1	U	1	U	1	U	1	U	1	U		
Arsenic	ug/l	10	0.052			1	J	15		1.6	J	12		0.72	J	29		13		2.6		2.1	U	15		17		20		1.4	J		
Barium	ug/l	2000	3800			34		67		71		230		17		44		98	B	22		31		28		29		72	B	24			
Beryllium	ug/l	4	25			0.52	U	0.52	U	0.52	U	0.52	U	0.52	U	0.52	U	0.52	U	0.52	U	0.52	U	0.57		0.24	J	1.2	B	0.52	U		
Cadmium	ug/l	5	1.8			0.52	U	0.52	U	0.52	U	0.52	U	0.52	U	0.52	U	0.52	U	0.5	J	0.5	U	2.6		2.9		0.52	U	0.52	U		
Calcium	ug/l					27000		23000		100000		150000		170000		13000		39000		13000		44000		21000		20000		29000		18000			
Chromium	ug/l	100				15	U	15	U	15	U	3.7	J	1.9	J	15	U	15	U	15	U	15	U	15	U	15	U	15	U	15	U		
Cobalt	ug/l		6			13		1.7	J	5.2	U	16		5.2	U	5.2	U	5.2	U	5.2	U	2.1	J	41		31		4.4	J	2	J		
Copper	ug/l	1300	800			21	U	21	U	21	U	21	U	21	U	21	U	21	U	21	U	21	U	21	U	21	U	12	J	21	U		
Iron	ug/l		14000			2800		8500		90000		11000		110000		100	J	3100		2400		210	U	190	J	180	J	210	U	25000			
Lead	ug/l	15	15			15	U	15	U	15	U	15	U	15	U	15	U	15	U	15	U	15	U	15	U	15	U	15	U	15	U		
Magnesium	ug/l					70000		28000		28000		100000		42000		2200		19000		8800		4100		15000		28000		24000		31000		12000	
Manganese	ug/l		430			1700		850		1700		600		3000		15		860		180		28		73		740		580		4600		62	
Mercury	ug/l	2	0.63			0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U		
Nickel	ug/l		390			5	J	10	U	11		17		3.4	J	10	U	10	U	10	U	2.3	J	5	J	17		6.5	J	10	U	4.3	J
Potassium	ug/l					4800		3200		5900		1900		8100		100000		800		5900		1900		1900		4900	J	3000	J	7600		520	U
Selenium	ug/l	50	100			52	UJ	52	U	52	U	52	U	52	U	52	U	52	U	52	U	52	U	52	U	52	U	52	U	52	U	52	U
Silver	ug/l		94			10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Sodium	ug/l					95000		88000		83000		490000		85000		170000		110000		21000		2600		9800		140000		130000		170000		110000	
Thallium	ug/l	2	0.2			0.52	U	0.52	U	0.52	U	0.52	U	0.52	U	0.52	U	0.52	U	0.52	U	0.52	U	0.52	U	0.52	U	0.52	U	0.52	U	0.52	U
Vanadium	ug/l		86			10	U	10	U	10	U	5.2	J	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Zinc	ug/l		6000			60	U	61	U	21	U	69		130		72		4.8	J	56		87		68	U	450		540		42		71	

Notes:
 Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL) Maximum Contaminant Level (MCL) (November 2021)
Exceeds the EPA Tapwater RSL
 Blanks indicate RSL not established
 RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0
 U = undetected
 J = estimated value
 J+ = estimated biased high
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 R = rejected
 ug/L = micrograms per liter
 SWMU = Solid Waste Management Unit
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**Table 25. Metals Groundwater Analytical Results
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Wood Project No. 3482210786**

Parameter	Unit	Location ID		MW-117		MW-118		MW-12		MW-13		SM13-MW01		SM13-MW01		SM14-MW01		SM14-MW01		SM14-MW02		SM14-MW02		SM15-MW02		SM16-MW01		SM16-MW01		SM16-MW02			
		NOV2021RS L_MCL	NOV2021RS L_TAPW	Sample ID	Sample Date	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual		
Aluminum	ug/l		20000			310	U	310	U	310	U	310	U	310	U	310	U	310	U	310	U	310	U	310	U	260	J	310	U	310	U		
Antimony	ug/l	6	7.8			1	U	0.46	J	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	1	U	0.56	J		
Arsenic	ug/l	10	0.052			5.4		18		240		30		6.9		9.2		8.6		8.3		8.3		7.1		31		9.4		2.6			
Barium	ug/l	2000	3800			77		63		160		44		43		93		91		180		190		37		43		120		130			
Beryllium	ug/l	4	25			0.52	U	0.52	U	0.52	U	0.48	J	0.52	U	0.52	J	0.22	J	0.19	J	0.2	J	0.17	J	0.5	J	1.4		0.52	U		
Cadmium	ug/l	5	1.8			0.52	U	0.52	U	0.52	U	0.52	U	0.52	U	0.52	U	0.52	U	0.52	U	0.52	U	0.52	U	0.52	U	0.52	U	0.52	U		
Calcium	ug/l					70000		25000		24000		110000		49000		48000		43000		46000		31000		31000		15000		47000		35000		57000	
Chromium	ug/l	100				15	U	15	U	15	U	15	U	15	U	15	U	15	U	15	U	1.6	J	15	U	15	U	15	U	15	U		
Cobalt	ug/l		6			5.2	U	5.2	U	5.2	U	2	J	4.3	J	5	J	2.2	J	5.2	U	3.3	J	2.1	J	5.2	U	17		5.2	U	3	J
Copper	ug/l	1300	800			21	U	21	U	21	U	21	U	21	U	21	U	21	U	21	U	21	U	21	U	21	U	21	U	21	U	21	U
Iron	ug/l		14000			2600		250		41000		10000		10000		46000		49000		20000		22000		11000		14000		15000		210		U	
Lead	ug/l	15	15			15	U	15	U	15	U	15	U	7.3	J	15	U	15	U	15	U	15	U	15	U	15	U	15	U	15	U	15	U
Magnesium	ug/l					15000		9700		34000		33000		19000		18000		25000		27000		31000		32000		14000		38000		17000		7000	
Manganese	ug/l		430			160		240		270		2900		1800		1800		1400		1600		740		1200		850		1300		1300		34	
Mercury	ug/l	2	0.63			0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U
Nickel	ug/l		390			10	U	10	U	20		10	U	2.5	J	10	U	10	U	10	U	10	U	10	U	17		10	U	10	U	10	U
Potassium	ug/l					7400		5600		1400		4400		2200		2600		4800		4700		1900		1800		1500		4400		6000		7500	
Selenium	ug/l	50	100			52	U	52	U	52	U	52	U	52	U	52	U	52	U	22	J	48	J	17	J	52	U	52	U	52	U	52	U
Silver	ug/l		94			10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Sodium	ug/l					49000		98000		120000		88000		36000		36000		78000		84000		79000		80000		54000		87000		52000		25000	
Thallium	ug/l	2	0.2			0.52	U	0.52	U	0.52	U	0.52	U	0.52	U	0.52	U	0.52	U	0.52	U	0.52	U	0.52	U	0.52	U	0.52	U	0.52	U	0.52	U
Vanadium	ug/l		86			10	U	5	J	2.5	J	10	U	10	U	10	U	10	U	3.4	J	2.2	J	10	U	10	U	10	U	10	U	2.2	J
Zinc	ug/l		6000			83		62		88		93		31		44		21	U	21	U	86		92		77		85		120		68	

Notes:
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Blanks indicate RSL not established
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Parameter	Unit	Location ID		SM17-MW01		SM17-MW02		SM18-MW01		SM19-MW01		SM19-MW02		SM20-MW01		SM20-MW02		SM20-MW03		SM21-MW01		SM21-MW02		SM22-MW01		SM23-MW01		SM27-MW01		WW-MW1			
		NOV2021RS L_MCL	NOV2021RS L_TAPW	Sample ID	Sample Date	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual		
Aluminum	ug/l		20000	SM17-MW1-120321	12/3/2021	310	U	310	U	1300		27000		48000		310	U	310	U	310	U	900		310	U	17000		820		270	J	310	U
Antimony	ug/l	6	7.8			1	U	1	U	1	U	1	U	110		0.88	J	1	U	0.6	J	1	U	2.5		3.4		1	U	0.68	J		
Arsenic	ug/l	10	0.052			4.4		9.8		17		9.2		27		92		4.1		2.5		3.6		0.91	J	22		3.4		3.4		14	
Barium	ug/l	2000	3800			51		96		320		16		25		34		85		43		13	B	62		18		79	B	17		130	
Beryllium	ug/l	4	25			0.52	U	0.7		0.13	J	23		1.9		0.52	U	0.52	U	0.52	U	0.23	J	0.13	J	3.8		0.62		1.1		0.52	U
Cadmium	ug/l	5	1.8			0.52	U	0.52	U	0.52	U	1.9		1		0.52	U	0.52	U	0.52	U	0.52	U	3.9		0.23	J	15				0.52	U
Calcium	ug/l					50000		42000		93000		100000		510000		610000		48000		38000		130000		18000		250000		9700		36000		34000	
Chromium	ug/l	100				15	U	15	U	2.4	J	15	U	21		2.6	J	15	U	15	U	1.6	J	15	U	17		3	J	1.9	J	15	U
Cobalt	ug/l		6			5.2	U	1.8	J	2.9	J	130		16		5.2	U	5	J	5.2	U	13		3.7	J	130		17		120		5.2	U
Copper	ug/l	1300	800			21	U	21	U	21	U	21	U	21	U	21	U	21	U	21	U	21	U	21	U	21	U	14	J	310		21	U
Iron	ug/l		14000			4000		8200		18000		100000		170000		210	U	2500		920		12000		15000		180000		3700		16000		12000	
Lead	ug/l	15	15			15	U	15	U	10	J	15	U	650		15	U	15	U	15	U	15	U	15	U	15	U	15	U	15	U	15	U
Magnesium	ug/l					35000		30000		32000		110000		52000		100	U	46000		9400		250000		10000		66000		12000		52000		4400	
Manganese	ug/l		430			530		510		3000		3400		2300		10	U	2400		180		2500		590		6000		130		2100		120	
Mercury	ug/l	2	0.63			0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.22		0.2	U	0.2	U	0.2	U	0.2	U	0.2	U	0.23		0.2	U	0.2	U
Nickel	ug/l		390			10	U	10	U	3.3	J	140		84		12		3.4	J	10	U	10	U	2.7	J	140		26		44		10	U
Potassium	ug/l					2400		2900		6900		3600		43000		38000		2000		4300		1700		2500		11000		1400		5000		93000	
Selenium	ug/l	50	100			52	U	52	U	52	U	52	U	95		52	U	52	U	52	U	20	J	52	U	52	U	52	U	52	U	52	U
Silver	ug/l		94			10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U	10	U
Sodium	ug/l					35000		42000		40000		190000		90000		180000		140000		79000		130000		37000		100000		91000		97000		94000	
Thallium	ug/l	2	0.2			0.52	U	0.52	U	0.52	U	0.52	U	0.52	U	0.52	U	0.52	U	0.52	U	0.52	U	0.52	U	0.21	J	0.52	U	0.52	U	0.52	U
Vanadium	ug/l		86			10	U	10	U	5	J	7.7	J	9.4	J	12		10	U	10	U	3.3	J	10	U	27		6.5	J	10	U	10	U
Zinc	ug/l		6000			66	U	57	U	95		510		320		70	U	61	U	72		33		66	U	660		120		4500		60	

Notes:
 Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL) Maximum Contaminant Level (MCL) (November 2021)
Exceeds the EPA Tapwater RSL
 Blanks indicate RSL not established
 RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0
 U = undetected
 J = estimated value
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 R = rejected
 ug/L = micrograms per liter
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**Table 25. Metals Groundwater Analytical Results
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Parameter	Units	Location ID		WW-MW2		WW-MW3		WW-MW4	
		NOV2021RS L_MCL	NOV2021RS L_TAPW	Sample ID 12/10/2021	Lab Qual	Sample ID 12/10/2021	Lab Qual	Sample ID 12/10/2021	Lab Qual
Aluminum	ug/l		20000	1700		310	U	580	
Antimony	ug/l	6	7.8	1	U	1	U	1.1	
Arsenic	ug/l	10	0.052	32		15		3	
Barium	ug/l	2000	3800	59		100		32	
Beryllium	ug/l	4	25	0.52	U	0.52	U	0.52	U
Cadmium	ug/l	5	1.8	0.52	U	0.52	U	0.36	J
Calcium	ug/l			68000		55000		60000	
Chromium	ug/l	100		3.5	J	15	U	2.6	J
Cobalt	ug/l		6	52		1.6	J	24	
Copper	ug/l	1300	800	21	U	21	U	21	U
Iron	ug/l		14000	8900		28000		1000	
Lead	ug/l	15	15	15	U	15	U	15	U
Magnesium	ug/l			73000		28000		16000	
Manganese	ug/l		430	1400		4200		860	
Mercury	ug/l	2	0.63	0.079	J	0.2	U	0.2	U
Nickel	ug/l		390	12		10	U	8.7	J
Potassium	ug/l			2200		8200		120000	
Selenium	ug/l	50	100	25	J	52	U	52	U
Silver	ug/l		94	10	U	10	U	10	U
Sodium	ug/l			630000		160000		160000	
Thallium	ug/l	2	0.2	0.52	U	0.52	U	0.52	U
Vanadium	ug/l		86	34		10	U	4	J
Zinc	ug/l		6000	72	U	69	U	300	

Notes:
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Blanks indicate RSL not established
RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0
U = undetected
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R = rejected
ug/L = micrograms per liter
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**Table 26. Pesticides Groundwater Analytical Results
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Parameter	Unit	Location ID		A05-01		A06-01		AOC16-MW01		AOC16-MW02		BF3-MW1		BF3-MW1		BF3-MW2		BF3-MW3		BF3-MW3		BF3-MW4		EWL-8				
		NOV2021R SL_MCL	NOV2021RS L_TAPW	Sample ID A5-01-121521	Sample Date 12/15/2021	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	
4,4'-DDD	ug/l		0.032		0.15	J-	0.048	U	0.0094	UJ	0.094	UJ	11	J-	12	J-	2.1	J-	0.047	UJ	0.047	UJ	0.047	UJ	0.23	J-	1.7	NQ
4,4'-DDE	ug/l		0.046		0.04	J-	0.013	J-	0.0094	UJ	0.094	UJ	1	J-	1.2	J-	0.048	R	0.047	UJ	0.047	UJ	0.053	J-	0.25	NQ		
4,4'-DDT	ug/l		0.23		0.49	J-	0.048	U	0.0094	UJ	0.094	UJ	0.49	UJ	0.05	UJ	0.048	R	0.047	UJ	0.047	UJ	0.37	J-	0.047	UJ		
Aldrin	ug/l		0.0092		0.049	UJ	0.048	UJ	0.0094	UJ	0.094	UJ	0.49	UJ	0.05	UJ	0.048	R	0.047	UJ	0.047	UJ	0.047	UJ	0.047	UJ	0.047	U
Alpha-BHC	ug/l		0.0072		0.06	J-	0.083	J-	20	J-	28	J-	1.1	J-	1.2	J-	19	J-	1.6	J-	1.7	J-	0.69	J-	35	NQ		
Beta-BHC	ug/l		0.025		0.046	J-	0.035	J-	4.2	J-	7	J-	0.48	J-	0.6	J-	3.7	J-	0.4	J-	0.43	J-	0.13	J-	32	NQ		
cis-Chlordane	ug/l		3.6		0.049	UJ	0.048	UJ	0.0094	UJ	0.094	UJ	0.49	UJ	0.05	UJ	0.048	R	0.047	UJ	0.047	UJ	0.047	UJ	0.047	UJ	0.047	U
Delta-BHC	ug/l				0.087	J-	0.054	J-	81	J-	20	J-	0.15	J-	0.17	J-	4.5	J-	0.18	J-	0.19	J-	0.38	J-	25	NQ		
Dieldrin	ug/l		0.0018		0.049	UJ	0.048	UJ	0.0094	UJ	0.094	UJ	0.49	UJ	0.05	UJ	0.048	R	0.047	UJ	0.047	UJ	0.047	UJ	0.047	UJ	0.047	U
Endosulfan I	ug/l				0.049	UJ	0.048	UJ	0.0094	UJ	0.094	UJ	0.49	UJ	0.05	UJ	0.048	R	0.047	UJ	0.047	UJ	0.047	UJ	0.047	UJ	0.047	U
Endosulfan II	ug/l				0.049	UJ	0.048	UJ	0.0094	UJ	0.094	UJ	0.49	UJ	0.05	UJ	0.048	R	0.047	UJ	0.047	UJ	0.047	UJ	0.047	UJ	0.047	U
Endosulfan Sulfate	ug/l		110		0.049	UJ	0.048	UJ	0.0094	UJ	0.094	UJ	0.49	UJ	0.05	UJ	0.048	R	0.047	UJ	0.047	UJ	0.047	UJ	0.047	UJ	0.047	U
Endrin	ug/l	2	2.3		0.049	UJ	0.048	UJ	0.0094	UJ	0.094	UJ	0.49	UJ	0.05	UJ	0.048	R	0.047	UJ	0.047	UJ	0.047	UJ	0.047	UJ	0.047	U
Endrin Aldehyde	ug/l				0.049	UJ	0.048	UJ	0.0094	UJ	0.094	UJ	0.49	UJ	0.05	UJ	0.048	R	0.047	UJ	0.047	UJ	0.047	UJ	0.047	UJ	0.047	UJ
Endrin Ketone	ug/l				0.049	UJ	0.048	UJ	0.0094	UJ	0.094	UJ	0.49	UJ	0.05	UJ	0.048	R	0.047	UJ	0.047	UJ	0.047	UJ	0.047	UJ	0.047	U
Gamma-BHC (Lindane)	ug/l	0.2	0.042		0.049	UJ	0.048	UJ	3.4	J-	4.2	J-	1.2	J-	1.2	J-	17	J-	0.17	J-	0.17	J-	0.25	J-	0.047	U		
Heptachlor	ug/l	0.4	0.0014		0.049	UJ	0.048	UJ	0.0094	UJ	0.094	UJ	0.49	UJ	0.05	UJ	0.048	R	0.047	UJ	0.047	UJ	0.047	UJ	0.047	UJ	0.047	U
Heptachlor Epoxide	ug/l	0.2	0.0014		0.049	UJ	0.048	UJ	0.0094	UJ	0.094	UJ	0.49	UJ	0.17	J-	0.048	R	0.047	UJ	0.047	UJ	0.047	UJ	0.047	UJ	0.047	U
Methoxychlor	ug/l	40	37		0.099	UJ	0.096	UJ	0.019	UJ	0.19	UJ	0.98	UJ	0.099	UJ	0.096	R	0.094	UJ	0.095	UJ	0.094	UJ	0.094	UJ	0.094	UJ
Toxaphene	ug/l	3	0.071		1.2	UJ	1.2	UJ	0.23	UJ	2.4	UJ	12	UJ	1.2	UJ	1.2	R	1.2	UJ	1.2	UJ	1.2	UJ	1.2	UJ	1.2	U
trans-Chlordane	ug/l		10		0.049	UJ	0.048	UJ	0.0094	UJ	0.094	UJ	0.49	UJ	0.05	UJ	0.048	R	0.047	UJ	0.047	UJ	0.047	UJ	0.047	UJ	0.047	U

Notes:
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Maximum Contaminant Level (MCL) (November 2021)
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December 2021
RCRA Facility Investigation Report
Honeywell Delaware Valley Works
Claymont, Delaware
Wood Project No. 3482210786**

Parameter	Unit	Location ID		MW-01		MW-03		MW-04		MW-05		MW-06		MW-06		MW06-01		MW06-01		MW06-02		MW06-03		MW-07		
		NOV2021R SL_MCL	NOV2021RS L_TAPW	Sample ID MW-01-120321	Sample Date 12/3/2021	Sample ID MW-03-120721	Sample Date 12/7/2021	Sample ID MW-04-120221	Sample Date 12/2/2021	Sample ID MW-05-120321	Sample Date 12/3/2021	Sample ID MW-06-120921	Sample Date 12/9/2021	Sample ID MW-06D-121021	Sample Date 12/10/2021	Sample ID MW06-01-120921	Sample Date 12/9/2021	Sample ID MW06-01D-121021	Sample Date 12/10/2021	Sample ID MW06-02-120921	Sample Date 12/9/2021	Sample ID MW06-03-120921	Sample Date 12/9/2021	Sample ID MW-07-120721	Sample Date 12/7/2021	
4,4'-DDD	ug/l		0.032		0.0094	R	0.0097	U	0.0095	U	0.0094	UJ	0.021	J-	0.047	UJ	1.9	J-	0.047	U	0.39	J	0.036	J	0.91	NQ
4,4'-DDE	ug/l		0.046		0.0094	R	0.0024	J-	0.0095	U	0.0094	UJ	0.049	UJ	0.047	UJ	0.048	UJ	0.047	U	0.028	J	0.047	U	0.047	U
4,4'-DDT	ug/l		0.23		0.0094	R	0.0094	UJ	0.0095	U	0.0094	UJ	0.049	UJ	0.047	UJ	0.048	UJ	0.047	U	0.17	J	0.047	U	0.047	UJ
Aldrin	ug/l		0.0092		0.0094	R	0.0094	UJ	0.0095	U	0.0094	UJ	0.049	UJ	0.047	UJ	0.048	UJ	0.047	U	0.048	U	0.047	U	0.047	U
Alpha-BHC	ug/l		0.0072		0.17	J-	0.076	J-	0.14		0.05	J-	9.7	J-	3.6	J-	0.49	J-	3.3		130		0.7		0.15	NQ
Beta-BHC	ug/l		0.025		0.0094	R	0.05	J-	7.5		0.099	J-	5.6	J-	2.6	J-	0.17	J-	0.99		60		1		0.94	NQ
cis-Chlordane	ug/l		3.6		0.0094	R	0.0094	UJ	0.0095	U	0.0094	UJ	0.049	UJ	0.047	UJ	0.048	UJ	0.047	U	0.048	U	0.047	U	0.047	U
Delta-BHC	ug/l				0.0094	R	0.021	U	0.0095	U	0.0094	UJ	2.2	J-	1.5	J-	0.57	J-	9.8		0.048	U	0.37		0.047	U
Dieldrin	ug/l		0.0018		0.0094	R	0.0094	UJ	0.0095	U	0.0094	UJ	0.049	UJ	0.047	UJ	0.048	UJ	0.047	U	0.048	U	0.047	U	0.047	U
Endosulfan I	ug/l				0.0094	R	0.0094	UJ	0.0095	U	0.0094	UJ	0.049	UJ	0.047	UJ	0.048	UJ	0.047	U	0.048	U	0.047	U	0.047	U
Endosulfan II	ug/l				0.0094	R	0.0094	UJ	0.0095	U	0.0094	UJ	0.049	UJ	0.047	UJ	0.048	UJ	0.047	U	0.048	U	0.047	U	0.047	U
Endosulfan Sulfate	ug/l		110		0.0094	R	0.0094	UJ	0.0095	U	0.0094	UJ	0.049	UJ	0.047	UJ	0.048	UJ	0.047	U	0.048	U	0.047	U	0.047	U
Endrin	ug/l	2	2.3		0.0094	R	0.0094	UJ	0.0095	U	0.0094	UJ	0.049	UJ	0.047	UJ	0.048	UJ	0.047	U	0.048	U	0.047	U	0.047	U
Endrin Aldehyde	ug/l				0.0094	R	0.0094	UJ	0.0095	UJ	0.0094	UJ	0.049	UJ	0.047	UJ	0.048	UJ	0.047	U	0.048	U	0.047	U	0.047	UJ
Endrin Ketone	ug/l				0.0094	R	0.0094	UJ	0.0095	U	0.0094	UJ	0.049	UJ	0.047	UJ	0.048	UJ	0.047	U	0.048	U	0.047	U	0.047	U
Gamma-BHC (Lindane)	ug/l	0.2	0.042		0.0094	R	0.0094	UJ	0.02		0.0094	UJ	1.7	J-	0.047	UJ	0.17	J-	0.073		5.3		0.15		0.047	U
Heptachlor	ug/l	0.4	0.0014		0.0094	R	0.0094	UJ	0.0095	U	0.0094	UJ	0.049	UJ	0.047	UJ	0.048	UJ	0.047	U	0.048	U	0.047	U	0.047	U
Heptachlor Epoxide	ug/l	0.2	0.0014		0.0094	R	0.0094	UJ	0.0095	U	0.0094	UJ	0.049	UJ	0.047	UJ	0.048	UJ	0.047	U	0.048	U	0.047	U	0.047	U
Methoxychlor	ug/l	40	37		0.019	R	0.019	UJ	0.019	U	0.019	UJ	0.098	UJ	0.095	UJ	0.095	UJ	0.094	U	0.096	U	0.094	U	0.095	UJ
Toxaphene	ug/l	3	0.071		0.24	R	0.24	UJ	0.24	U	0.23	UJ	1.2	UJ	1.2	UJ	1.2	UJ	1.2	U	1.2	U	1.2	U	1.2	U
trans-Chlordane	ug/l		10		0.0094	R	0.0094	UJ	0.0095	U	0.0094	UJ	0.049	UJ	0.047	UJ	0.048	UJ	0.047	U	0.048	U	0.047	U	0.047	U

Notes:
Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL) Maximum Contaminant Level (MCL) (November 2021)
Exceeds the EPA Tapwater RSL
Blanks indicate RSL not established
RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0
U = undetected
J = estimated value
J+ = estimated biased high
J- = estimated biased low
R = rejected
ug/L = micrograms per liter
SWMU = Solid Waste Management Unit
RCRA = Resource Conservation and Recovery Act
DUP = Duplicate sample
Exceedances shown may exceed one or more criteria if available

**Table 26. Pesticides Groundwater Analytical Results
December 2021
RCRA Facility Investigation Report
Honeywell Delaware Valley Works
Claymont, Delaware
Wood Project No. 3482210786**

Parameter	Unit s	Location ID		MW-08		MW-09		MW-102		MW-102		MW-104		MW-116		MW-117		MW-118		MW-12		MW-13		MW-13		
		NOV2021R SL_MCL	NOV2021RS L_TAPW	Sample ID MW-08-120221	Sample Date 12/2/2021	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result	Lab Qual	Result
4,4'-DDD	ug/l		0.032		0.0014	J	0.0029	J	0.4	J	0.0094	UJ	0.047	UJ	0.054	U	0.31	NQ	0.14	J-	0.0094	UJ	0.048	UJ	0.047	UJ
4,4'-DDE	ug/l		0.046		0.0035	J	0.0067	J	0.053	J	0.0094	UJ	0.047	UJ	0.054	U	0.034	NQ	0.024	J-	0.0094	UJ	0.048	UJ	0.047	UJ
4,4'-DDT	ug/l		0.23		0.0076	J	0.006	J	0.27	J	0.098	J-	0.047	UJ	0.054	U	0.0095	UJ	0.17	J-	0.0094	UJ	0.048	UJ	0.047	UJ
Aldrin	ug/l		0.00092		0.0094	U	0.0095	U	0.0094	U	0.0094	UJ	0.047	UJ	0.054	U	0.0095	U	0.049	UJ	0.0094	UJ	0.048	UJ	0.047	UJ
Alpha-BHC	ug/l		0.0072		0.0094	U	0.0095	U	5.9		6.2	J-	0.075	J-	0.054	U	0.092	NQ	0.074	J-	0.024	J-	0.06	J-	0.065	J-
Beta-BHC	ug/l		0.025		0.007	J	0.0095	U	1.7		1.9	J-	0.081	J-	0.089		0.052	NQ	0.21	J-	0.0094	UJ	0.0083	J-	0.0085	J-
cis-Chlordane	ug/l		3.6		0.0094	U	0.0095	U	0.0094	U	0.0094	UJ	0.047	UJ	0.054	U	0.0095	U	0.049	UJ	0.0094	UJ	0.048	UJ	0.047	UJ
Delta-BHC	ug/l				0.0039	J	0.0047	J	0.37	J	0.0094	UJ	0.047	UJ	0.054	U	0.039	NQ	0.052	J-	0.0094	UJ	0.0092	J-	0.01	J-
Dieldrin	ug/l		0.0018		0.0094	U	0.0095	U	0.0094	U	0.0094	UJ	0.047	UJ	0.054	U	0.0095	U	0.049	UJ	0.0094	UJ	0.048	UJ	0.047	UJ
Endosulfan I	ug/l				0.0094	U	0.0095	U	0.0094	U	0.0094	UJ	0.047	UJ	0.054	U	0.0095	U	0.049	UJ	0.0094	UJ	0.048	UJ	0.047	UJ
Endosulfan II	ug/l				0.0094	U	0.0095	U	0.0094	U	0.0094	UJ	0.047	UJ	0.054	U	0.0095	U	0.049	UJ	0.0094	UJ	0.048	UJ	0.047	UJ
Endosulfan Sulfate	ug/l		110		0.0094	U	0.0095	U	0.0094	U	0.0094	UJ	0.047	UJ	0.054	U	0.0095	U	0.049	UJ	0.0094	UJ	0.048	UJ	0.047	UJ
Endrin	ug/l	2	2.3		0.0094	U	0.0095	U	0.0094	U	0.0094	UJ	0.047	UJ	0.054	U	0.0095	U	0.049	UJ	0.0094	UJ	0.048	UJ	0.047	UJ
Endrin Aldehyde	ug/l				0.0094	UJ	0.0095	UJ	0.0094	UJ	0.0094	UJ	0.047	UJ	0.054	U	0.0095	UJ	0.049	UJ	0.0094	UJ	0.048	UJ	0.047	UJ
Endrin Ketone	ug/l				0.0094	U	0.0095	U	0.0094	U	0.0094	UJ	0.047	UJ	0.054	U	0.0095	U	0.049	UJ	0.0094	UJ	0.048	UJ	0.047	UJ
Gamma-BHC (Lindane)	ug/l	0.2	0.042		0.0094	U	0.0095	U	0.47		0.49	J-	0.047	UJ	0.054	U	0.021	NQ	0.049	UJ	0.0094	UJ	0.048	UJ	0.047	UJ
Heptachlor	ug/l	0.4	0.0014		0.0094	U	0.0095	U	0.0094	U	0.0094	UJ	0.047	UJ	0.054	U	0.0095	U	0.049	UJ	0.0094	UJ	0.048	UJ	0.047	UJ
Heptachlor Epoxide	ug/l	0.2	0.0014		0.0094	U	0.0095	U	0.0094	U	0.0094	UJ	0.047	UJ	0.054	U	0.0095	U	0.049	UJ	0.0094	UJ	0.048	UJ	0.047	UJ
Methoxychlor	ug/l	40	37		0.019	U	0.019	U	0.019	UJ	0.019	UJ	0.094	UJ	0.11	U	0.019	UJ	0.098	UJ	0.019	UJ	0.095	UJ	0.095	UJ
Toxaphene	ug/l	3	0.071		0.24	U	0.24	U	0.24	U	0.24	UJ	1.2	UJ	1.3	U	0.24	U	1.2	UJ	0.24	UJ	1.2	UJ	1.2	UJ
trans-Chlordane	ug/l		10		0.0094	U	0.0095	U	0.0094	U	0.0094	UJ	0.047	UJ	0.054	U	0.0095	U	0.049	UJ	0.0094	UJ	0.048	UJ	0.047	UJ

Notes:
Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL) Maximum Contaminant Level (MCL) (November 2021)
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RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0
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SWMU = Solid Waste Management Unit
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**Table 26. Pesticides Groundwater Analytical Results
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Parameter	Unit s	Location ID		SM13-MW01		SM14-MW01		SM14-MW01		SM14-MW02		SM14-MW02		SM15-MW02		SM16-MW01		SM16-MW01		SM16-MW02		SM17-MW01		SM17-MW02		
		NOV2021R SL_MCL	NOV2021RS L_TAPW	Sample ID SM13-MW1-121421	Sample Date 12/14/2021	Sample ID SM14-MW1-120921	Sample Date 12/9/2021	Sample ID SM14-MW1-120921-DUP	Sample Date 12/9/2021	Sample ID SM14-MW2-120821	Sample Date 12/8/2021	Sample ID SM14-MW2-120821-DUP	Sample Date 12/8/2021	Sample ID SM15-MW2-120821	Sample Date 12/8/2021	Sample ID SM16-MW1-120921	Sample Date 12/9/2021	Sample ID SM16-MW1D-121021	Sample Date 12/10/2021	Sample ID SM16-MW2-120821	Sample Date 12/8/2021	Sample ID SM17-MW1-120321	Sample Date 12/3/2021	Sample ID SM17-MW2-120821	Sample Date 12/8/2021	
4,4'-DDD	ug/l		0.032		0.054	J	0.16	J-	0.16	J-	0.0094	U	0.0094	UJ	0.22	J-	0.048	UJ	0.29		0.047	J	0.18		0.048	U
4,4'-DDE	ug/l		0.046		0.013	J	0.052	J-	0.055	J-	0.0094	U	0.0094	UJ	0.017	J-	0.048	UJ	0.068	J	0.039	J	0.054	J	0.048	U
4,4'-DDT	ug/l		0.23		0.07	J+	0.16	J-	0.16	J-	0.0094	UJ	0.0094	UJ	0.05	J-	0.048	UJ	0.22	J	0.2	J	0.0094	UJ	0.13	
Aldrin	ug/l		0.0092		0.049	UJ	0.047	UJ	0.047	UJ	0.0094	U	0.0094	UJ	0.047	UJ	0.048	UJ	0.048	U	0.026	J	0.0094	U	0.048	U
Alpha-BHC	ug/l		0.0072		0.024	J	0.17	J-	0.15	J-	0.063	J+	0.043	UJ	0.15	J-	0.35	J-	0.24		0.015	J	0.053	J	0.26	
Beta-BHC	ug/l		0.025		0.026	J	0.19	J-	0.19	J-	0.017		0.014	U	0.24	J-	0.048	UJ	0.14		0.24		0.17		0.46	
cis-Chlordane	ug/l		3.6		0.049	UJ	0.047	UJ	0.047	UJ	0.0094	U	0.0094	UJ	0.047	UJ	0.048	UJ	0.048	U	0.047	U	0.0094	U	0.048	U
Delta-BHC	ug/l				0.0098	J	0.35	J-	0.047	UJ	0.0094	U	0.0094	UJ	0.047	UJ	0.048	UJ	0.21		0.047	U	0.12		0.34	
Dieldrin	ug/l		0.0018		0.049	UJ	0.047	UJ	0.047	UJ	0.0094	U	0.0094	UJ	0.047	UJ	0.048	UJ	0.048	U	0.047	U	0.0094	U	0.048	U
Endosulfan I	ug/l				0.049	UJ	0.047	UJ	0.047	UJ	0.0094	U	0.0094	UJ	0.047	UJ	0.048	UJ	0.048	U	0.047	U	0.0094	U	0.048	U
Endosulfan II	ug/l				0.049	UJ	0.047	UJ	0.047	UJ	0.0094	U	0.0094	UJ	0.047	UJ	0.048	UJ	0.048	U	0.047	U	0.0094	U	0.048	U
Endosulfan Sulfate	ug/l		110		0.049	UJ	0.047	UJ	0.047	UJ	0.0094	U	0.0094	UJ	0.047	UJ	0.048	UJ	0.048	U	0.047	U	0.0094	U	0.048	U
Endrin	ug/l		2		0.049	UJ	0.047	UJ	0.047	UJ	0.0094	U	0.0094	UJ	0.047	UJ	0.048	UJ	0.048	U	0.047	U	0.0094	U	0.048	U
Endrin Aldehyde	ug/l				0.049	UJ	0.047	UJ	0.047	UJ	0.0094	U	0.0094	UJ	0.047	UJ	0.048	UJ	0.048	U	0.047	U	0.0094	UJ	0.048	U
Endrin Ketone	ug/l				0.049	UJ	0.047	UJ	0.047	UJ	0.0094	U	0.0094	UJ	0.047	UJ	0.048	UJ	0.048	U	0.047	U	0.0094	U	0.048	U
Gamma-BHC (Lindane)	ug/l		0.2		0.042		0.055	J-	0.047	UJ	0.01	U	0.0094	UJ	0.052	J-	0.048	UJ	0.048	U	0.047	U	0.0094	U	0.056	
Heptachlor	ug/l		0.4		0.049	UJ	0.047	UJ	0.047	UJ	0.0094	U	0.0094	UJ	0.047	UJ	0.048	UJ	0.048	U	0.047	U	0.0094	U	0.048	U
Heptachlor Epoxide	ug/l		0.2		0.0014		0.049	UJ	0.047	UJ	0.0094	U	0.0094	UJ	0.047	UJ	0.048	UJ	0.048	U	0.047	U	0.0094	U	0.048	U
Methoxychlor	ug/l		40		0.098	UJ	0.094	UJ	0.095	UJ	0.019	UJ	0.019	UJ	0.094	UJ	0.096	UJ	0.096	U	0.094	U	0.019	UJ	0.096	U
Toxaphene	ug/l		3		0.071	UJ	1.2	UJ	1.2	UJ	0.24	U	0.24	UJ	1.2	UJ	1.2	UJ	1.2	U	1.2	U	0.24	U	1.2	U
trans-Chlordane	ug/l		10		0.049	UJ	0.047	UJ	0.047	UJ	0.0094	U	0.0094	UJ	0.047	UJ	0.048	UJ	0.048	U	0.047	U	0.0094	U	0.048	U

Notes:
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Exceeds the EPA Tapwater RSL
Blanks indicate RSL not established
RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0
U = undetected
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Parameter	Unit	Location ID		SM18-MW01		SM19-MW01		SM19-MW02		SM20-MW01		SM20-MW02		SM20-MW03		SM21-MW01		SM21-MW02		SM22-MW01		SM23-MW01		SM27-MW01		
		NOV2021R SL_MCL	NOV2021RS L_TAPW	Sample ID SM18-MW1-120821 12/8/2021	Lab Qual	Sample ID SM19-MW1-120821 12/8/2021	Lab Qual	Sample ID SM19-MW2-120621 12/6/2021	Lab Qual	Sample ID SM20-MW1-120321 12/3/2021	Lab Qual	Sample ID SM20-MW2-120221 12/2/2021	Lab Qual	Sample ID SM20-MW3-120721 12/7/2021	Lab Qual	Sample ID SM21-MW1-120621 12/6/2021	Lab Qual	Sample ID SM21-MW2-120221 12/2/2021	Lab Qual	Sample ID SM22-MW1-120721 12/7/2021	Lab Qual	Sample ID SM23-MW1-121521 12/15/2021	Lab Qual	Sample ID SM27-MW1-120321 12/3/2021	Lab Qual	
4,4'-DDD	ug/l		0.032		0.09	J	0.047	UJ	1.8	J-	0.0094	U	0.043		1.2		13	J-	0.25		5.4	J-	0.89	J-	3.9	J-
4,4'-DDE	ug/l		0.046		0.021	J	0.047	UJ	0.73	J-	0.0094	U	0.027		0.15		9.7	J-	0.015	J	0.19	R	0.21	J-	0.16	J-
4,4'-DDT	ug/l		0.23		0.027	J	0.047	UJ	2.1	J-	0.0094	UJ	0.021	J	0.51		5.6	J-	0.077		0.19	R	1.4	J-	1.9	J-
Aldrin	ug/l		0.0092		0.053	U	0.047	UJ	0.094	UJ	0.0094	U	0.0094	U	0.0094	U	0.0094	R	0.0094	U	0.19	R	0.049	UJ	0.0095	UJ
Alpha-BHC	ug/l		0.0072		0.099		1.6	J-	5.9	J-	0.0094	U	0.19		0.33	J+	110	J-	7.5		370	J-	0.04	J-	200	J-
Beta-BHC	ug/l		0.025		0.19		1.1	J-	0.73	J-	0.0094	U	0.68		0.9		11	J-	2.1		62	J-	0.38	J-	37	J-
cis-Chlordane	ug/l		3.6		0.053	U	0.047	UJ	0.094	UJ	0.0094	U	0.0094	U	0.0094	U	0.0094	R	0.0094	U	0.19	R	0.049	UJ	0.0095	UJ
Delta-BHC	ug/l				0.053	U	0.18	J-	0.23	J-	0.0094	U	0.0094	U	0.11	U	0.47	R	1.8		470	J-	0.049	UJ	53	J-
Dieldrin	ug/l		0.0018		0.053	U	0.047	UJ	0.094	UJ	0.0094	U	0.0094	U	0.0094	U	0.0094	R	0.0094	U	0.19	R	0.049	UJ	0.0095	UJ
Endosulfan I	ug/l				0.053	U	0.047	UJ	0.094	UJ	0.0094	U	0.0094	U	0.0094	U	0.0094	R	0.0094	U	0.19	R	0.049	UJ	0.0095	UJ
Endosulfan II	ug/l				0.053	U	0.047	UJ	0.094	UJ	0.0094	U	0.0094	U	0.0094	U	0.0094	R	0.0094	U	0.19	R	0.049	UJ	0.0095	UJ
Endosulfan Sulfate	ug/l		110		0.053	U	0.047	UJ	0.094	UJ	0.0094	U	0.0094	U	0.0094	U	0.0094	R	0.0094	U	0.19	R	0.049	UJ	0.0095	UJ
Endrin	ug/l	2	2.3		0.053	U	0.047	UJ	0.094	UJ	0.0094	U	0.0094	U	0.0094	U	0.0094	R	0.0094	U	0.19	R	0.049	UJ	0.0095	UJ
Endrin Aldehyde	ug/l				0.053	U	0.047	UJ	0.094	UJ	0.0094	UJ	0.0094	UJ	0.0094	U	0.0094	R	0.0094	UJ	0.19	R	0.049	UJ	0.0095	UJ
Endrin Ketone	ug/l				0.053	U	0.047	UJ	0.094	UJ	0.0094	U	0.0094	U	0.0094	U	0.0094	R	0.0094	U	0.19	R	0.049	UJ	0.0095	UJ
Gamma-BHC (Lindane)	ug/l	0.2	0.042		0.053	U	0.2	J-	0.42	J-	0.0094	U	0.0094	U	0.079		11	J-	0.54		190	J-	0.049	UJ	44	J-
Heptachlor	ug/l	0.4	0.0014		0.053	U	0.047	UJ	0.094	UJ	0.0094	U	0.0094	U	0.0094	U	0.0094	R	0.0094	U	0.19	R	0.049	UJ	0.0095	UJ
Heptachlor Epoxide	ug/l	0.2	0.0014		0.053	U	0.047	UJ	0.094	UJ	0.0094	U	0.0094	U	0.0094	U	0.0094	R	0.0094	U	0.19	R	0.049	UJ	0.0095	UJ
Methoxychlor	ug/l	40	37		0.11	U	0.095	UJ	0.19	UJ	0.019	UJ	0.019	U	0.019	UJ	0.019	R	0.019	U	0.38	R	0.097	UJ	0.019	UJ
Toxaphene	ug/l	3	0.071		1.3	U	1.2	UJ	2.4	UJ	0.24	U	0.24	U	0.24	U	0.23	R	0.24	U	4.7	R	1.2	UJ	0.24	UJ
trans-Chlordane	ug/l		10		0.053	U	0.047	UJ	0.094	UJ	0.0094	U	0.0094	U	0.0094	U	0.0094	R	0.0094	U	0.19	R	0.049	UJ	0.0095	UJ

Notes:
Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL) Maximum Contaminant Level (MCL) (November 2021)
Exceeds the EPA Tapwater RSL
Blanks indicate RSL not established
RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0
U = undetected
J = estimated value
J+ = estimated biased high
J- = estimated biased low
R = rejected
ug/L = micrograms per liter
SWMU = Solid Waste Management Unit
RCRA = Resource Conservation and Recovery Act
DUP = Duplicate sample
Exceedances shown may exceed one or more criteria if available

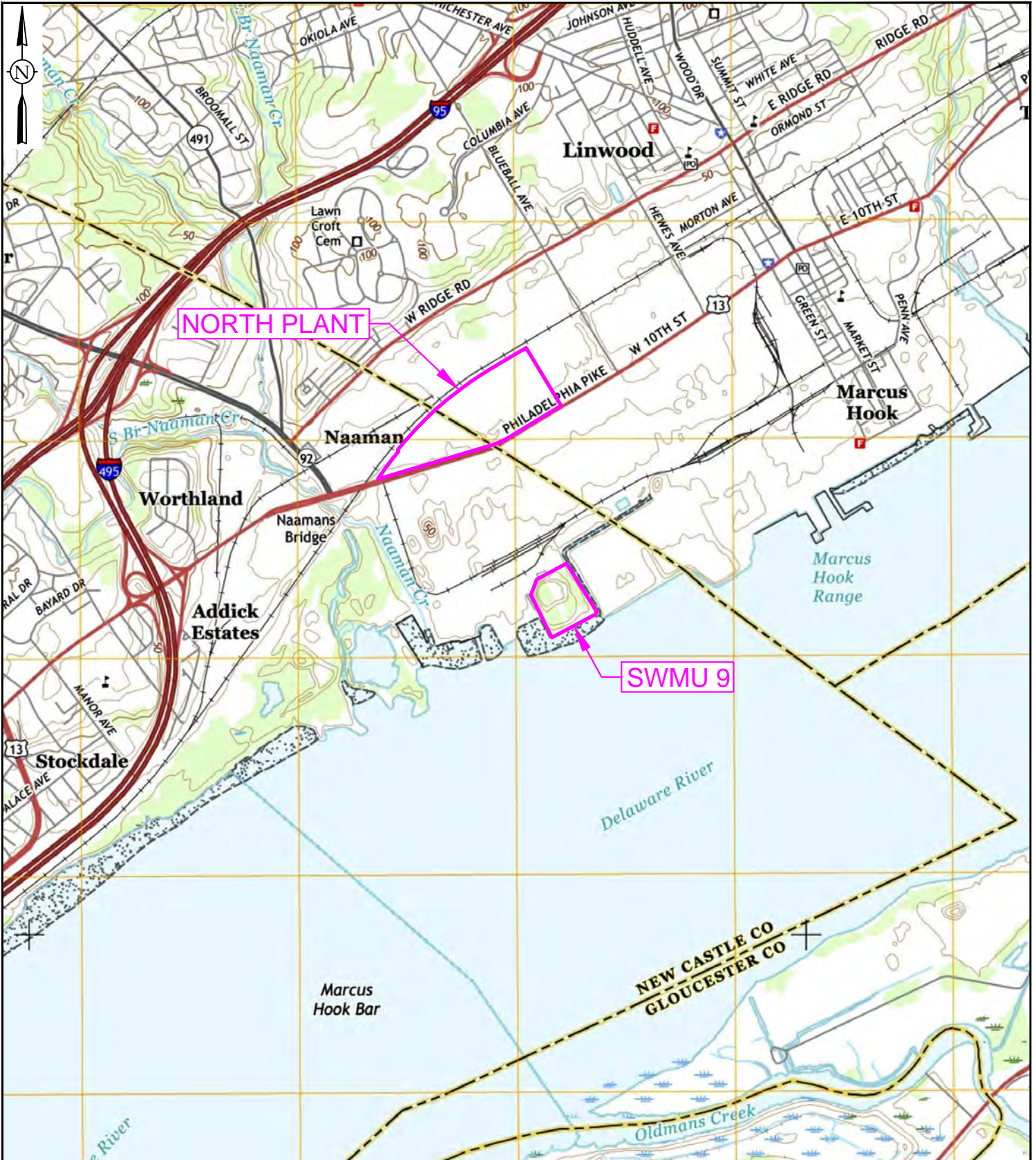
**Table 26. Pesticides Groundwater Analytical Results
December 2021
RCRA Facility Investigation Report
Honeywell Delaware Valley Works
Claymont, Delaware
Wood Project No. 3482210786**

Parameter	Units	Location ID		WW-MW1		WW-MW2		WW-MW3		WW-MW4	
		NOV2021R SL_MCL	NOV2021RS L_TAPW	Sample ID WW-MW1-121321 Sample Date 12/13/2021	Lab Qual	Sample ID WW-MW2-121021 Sample Date 12/10/2021	Lab Qual	Sample ID WW-MW3-121021 Sample Date 12/10/2021	Lab Qual	Sample ID WW-MW4-121021 Sample Date 12/10/2021	Lab Qual
4,4'-DDD	ug/l		0.032	0.48	J-	0.095	UJ	0.047	UJ	18	
4,4'-DDE	ug/l		0.046	0.047	UJ	0.22	J-	1.1	J-	19	J+
4,4'-DDT	ug/l		0.23	0.52	J-	0.095	UJ	1.2	J-	38	J+
Aldrin	ug/l		0.00092	0.047	UJ	0.095	UJ	0.047	UJ	0.047	U
Alpha-BHC	ug/l		0.0072	11	J-	2.1	J-	4.1	J-	32	
Beta-BHC	ug/l		0.025	20	J-	3.1	J-	2.9	J-	13	
cis-Chlordane	ug/l		3.6	0.047	UJ	0.095	UJ	0.047	UJ	0.047	U
Delta-BHC	ug/l			3.8	J-	0.095	UJ	0.047	UJ	210	
Dieldrin	ug/l		0.0018	0.047	UJ	0.095	UJ	0.047	UJ	0.047	U
Endosulfan I	ug/l			0.047	UJ	0.095	UJ	0.047	UJ	0.047	U
Endosulfan II	ug/l			0.047	UJ	0.095	UJ	0.047	UJ	0.047	U
Endosulfan Sulfate	ug/l		110	0.047	UJ	0.095	UJ	0.047	UJ	0.047	U
Endrin	ug/l	2	2.3	0.047	UJ	0.095	UJ	0.047	UJ	0.047	U
Endrin Aldehyde	ug/l			0.047	UJ	0.095	UJ	0.047	UJ	0.047	U
Endrin Ketone	ug/l			0.047	UJ	0.095	UJ	0.047	UJ	0.047	U
Gamma-BHC (Lindane)	ug/l	0.2	0.042	1.8	J-	0.44	J-	0.39	J-	67	
Heptachlor	ug/l	0.4	0.0014	0.047	UJ	0.095	UJ	0.047	UJ	0.047	U
Heptachlor Epoxide	ug/l	0.2	0.0014	0.047	UJ	0.095	UJ	0.047	UJ	0.047	U
Methoxychlor	ug/l	40	37	0.094	UJ	0.19	UJ	0.094	UJ	0.094	U
Toxaphene	ug/l	3	0.071	1.2	UJ	2.4	UJ	1.2	UJ	1.2	U
trans-Chlordane	ug/l		10	0.047	UJ	0.095	UJ	0.047	UJ	0.047	U

Notes:
 Exceeds the U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL) Maximum Contaminant Level (MCL) (November 2021)
Exceeds the EPA Tapwater RSL
 Blanks indicate RSL not established
 RSLs assume target cancer risk (TR) of 1E-06 and target hazard quotient (THQ) of 1.0
 U = undetected
 J = estimated value
 J+ = estimated biased high
 J- = estimated biased low
 R = rejected
 ug/L = micrograms per liter
 SWMU = Solid Waste Management Unit
 RCRA = Resource Conservation and Recovery Act
 DUP = Duplicate sample
 Exceedances shown may exceed one or more criteria if available

FIGURES

\\ph-fs1\projects\Honeywell - Claymont, DE\North Plant\2021 Demolition Investigation 3482210786\14 CAD_figures\RFI Report\Fig 1 Site Location.dwg Wed, 23 Feb 2022 - 6:51pm philip.carney2 Layout: Fig 1 Site Location



LEGEND

APPROXIMATE SITE BOUNDARY

SOURCE

USGS QUAD "MARCUS HOOK, PA-DE-NJ", 2016.

0 1000' 2000'

SCALE: 1" = 2,000'

SITE VICINITY
NEW CASTLE COUNTY, DE

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**RCRA FACILITY
INVESTIGATION REPORT,
HONEYWELL DELAWARE VALLEY
WORKS, CLAYMONT, DELAWARE**

SITE LOCATION

PROJECT NO.:	3482210786
PREPARED BY:	PJC
CHECKED BY:	JPM
REVISION NO.:	0
FIGURE NO.:	1

SOURCE
ESRI WORLD IMAGERY.

LEGEND

-  BOUNDARY BETWEEN COMMONWEALTH OF PENNSYLVANIA AND STATE OF DELAWARE
-  APPROXIMATE NORTH PLANT BOUNDARY
-  APPROXIMATE SOLID WASTE MANAGEMENT UNIT (SWMU) / AREA OF CONCERN (AOC) BOUNDARY



PROJECTION / DATUM:
DE83F

0 100' 200'

SCALE: 1" = 200'

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PREPARED BY:
PJC

CHECKED BY:
JPM

REVIEWED BY:
JPM

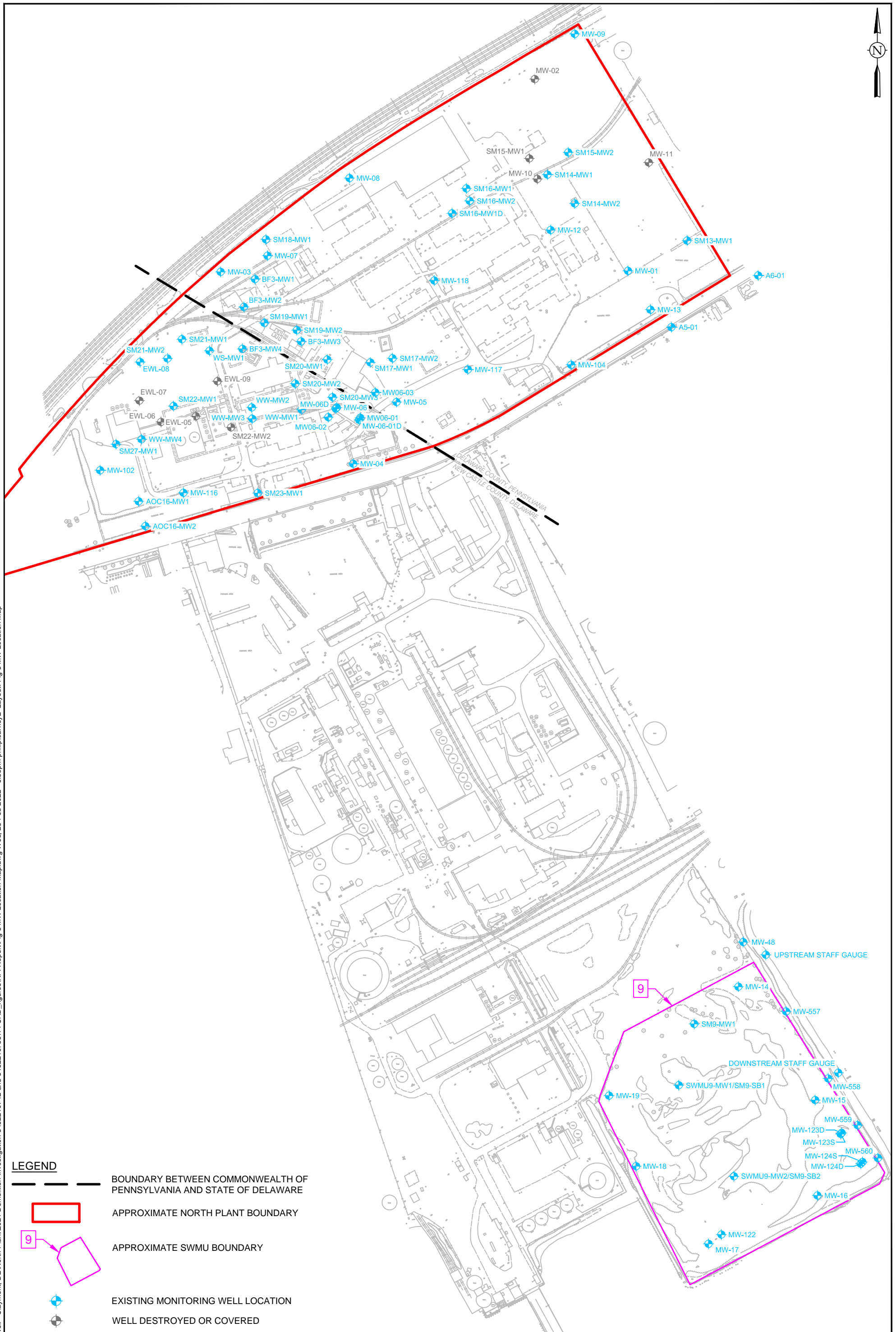
**FIGURE 2
SITE PLAN**

RCRA FACILITY INVESTIGATION REPORT
HONEYWELL DELAWARE VALLEY WORKS, CLAYMONT, DELAWARE

PROJECT NO.:
3482210786

REVISION NO.:
0

DATE:
FEBRUARY 2022



LEGEND	
	BOUNDARY BETWEEN COMMONWEALTH OF PENNSYLVANIA AND STATE OF DELAWARE
	APPROXIMATE NORTH PLANT BOUNDARY
	APPROXIMATE SWMU BOUNDARY
	EXISTING MONITORING WELL LOCATION
	WELL DESTROYED OR COVERED

PROJECTION / DATUM:
DE83F

SCALE: 1" = 300'

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CHECKED BY:
JPM

REVIEWED BY:
JPM

FIGURE 3
MONITORING WELL LOCATION MAP





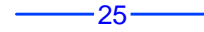


RCRA FACILITY INVESTIGATION REPORT
HONEYWELL DELAWARE VALLEY WORKS, CLAYMONT, DELAWARE

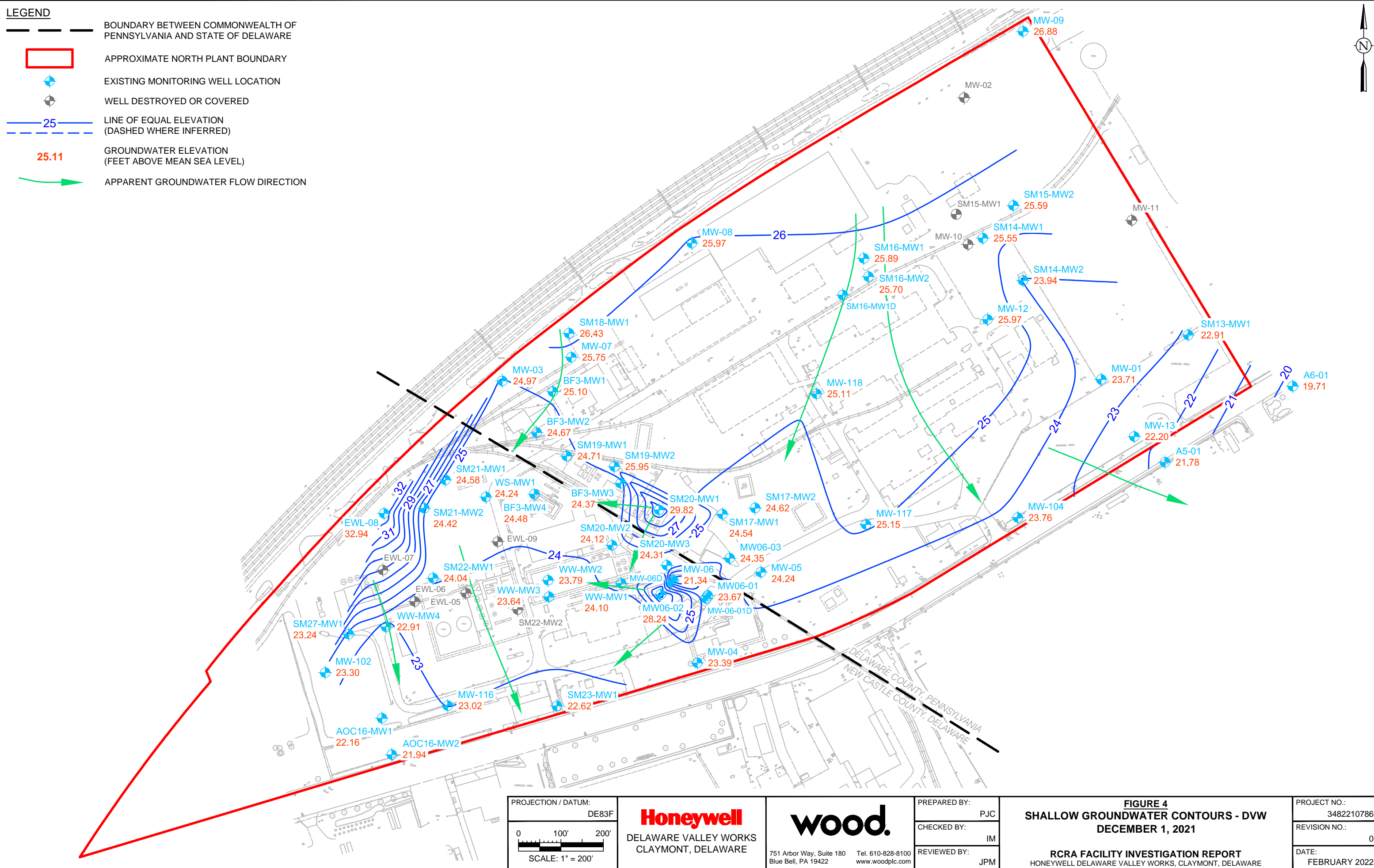
PROJECT NO.:
3482210786

REVISION NO.:
0

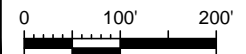
DATE:
FEBRUARY 2022

\\phi-hs1\projects\honeywell - Claymont, DE\North Plant\2021 Demolition Investigation 3482210742 and 3482210786\14 CAD_figures\RFI Report\Fig 3 MW Location Map.dwg Wed, 23 Feb 2022 - 6:55pm philip.carney2 Layout: Fig 3 MW Location Map

- LEGEND**
-  BOUNDARY BETWEEN COMMONWEALTH OF PENNSYLVANIA AND STATE OF DELAWARE
 -  APPROXIMATE NORTH PLANT BOUNDARY
 -  EXISTING MONITORING WELL LOCATION
 -  WELL DESTROYED OR COVERED
 -  LINE OF EQUAL ELEVATION (DASHED WHERE INFERRED)
 -  GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)
 -  APPARENT GROUNDWATER FLOW DIRECTION



PROJECTION / DATUM:
DE83F



SCALE: 1" = 200'

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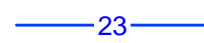


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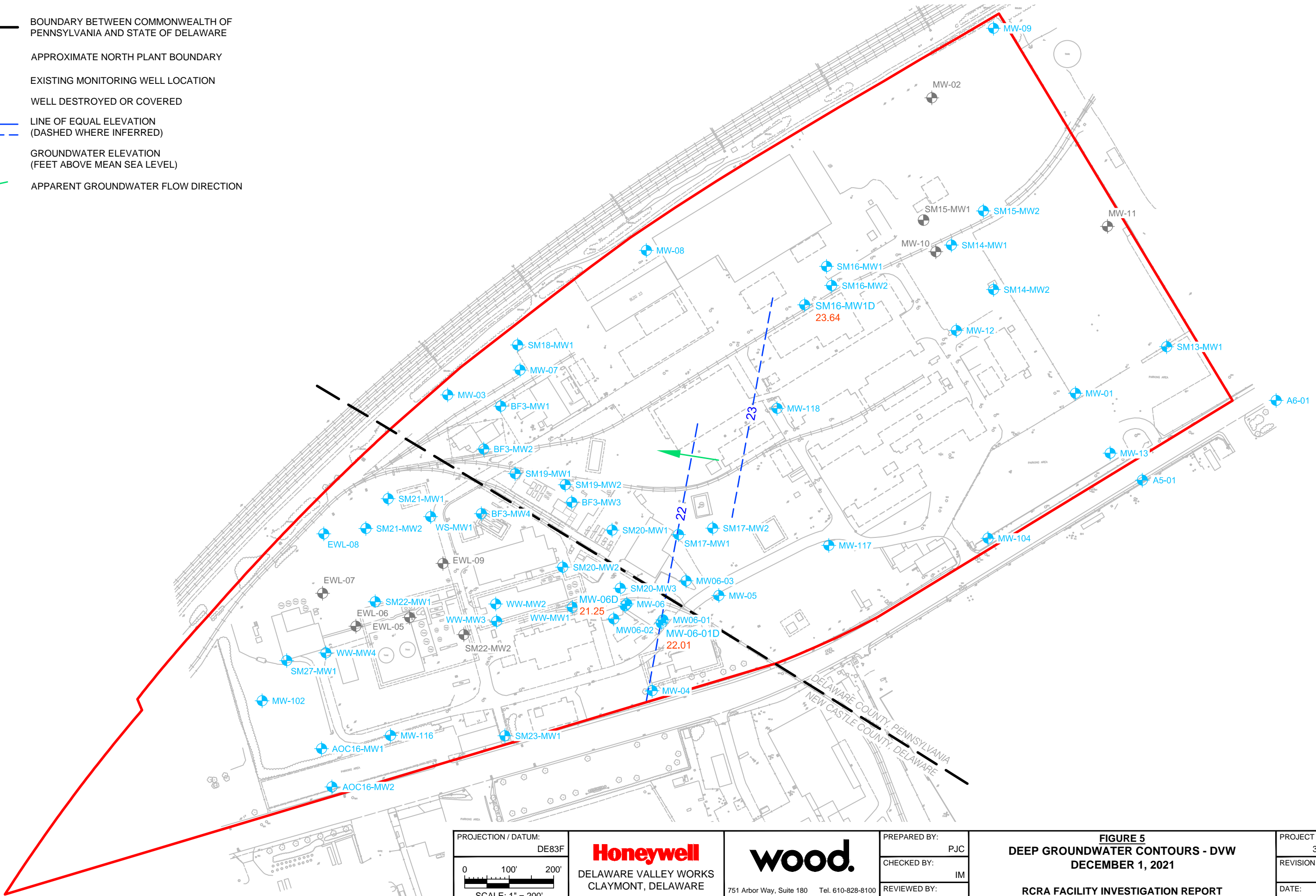
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FIGURE 4
SHALLOW GROUNDWATER CONTOURS - DWV
DECEMBER 1, 2021

RCRA FACILITY INVESTIGATION REPORT
HONEYWELL DELAWARE VALLEY WORKS, CLAYMONT, DELAWARE

PROJECT NO.:	3482210786
REVISION NO.:	0
DATE:	FEBRUARY 2022

- LEGEND**
-  BOUNDARY BETWEEN COMMONWEALTH OF PENNSYLVANIA AND STATE OF DELAWARE
 -  APPROXIMATE NORTH PLANT BOUNDARY
 -  EXISTING MONITORING WELL LOCATION
 -  WELL DESTROYED OR COVERED
 -  LINE OF EQUAL ELEVATION (DASHED WHERE INFERRED)
 -  GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)
 -  APPARENT GROUNDWATER FLOW DIRECTION



PROJECTION / DATUM:
DE83F

0 100' 200'

SCALE: 1" = 200'

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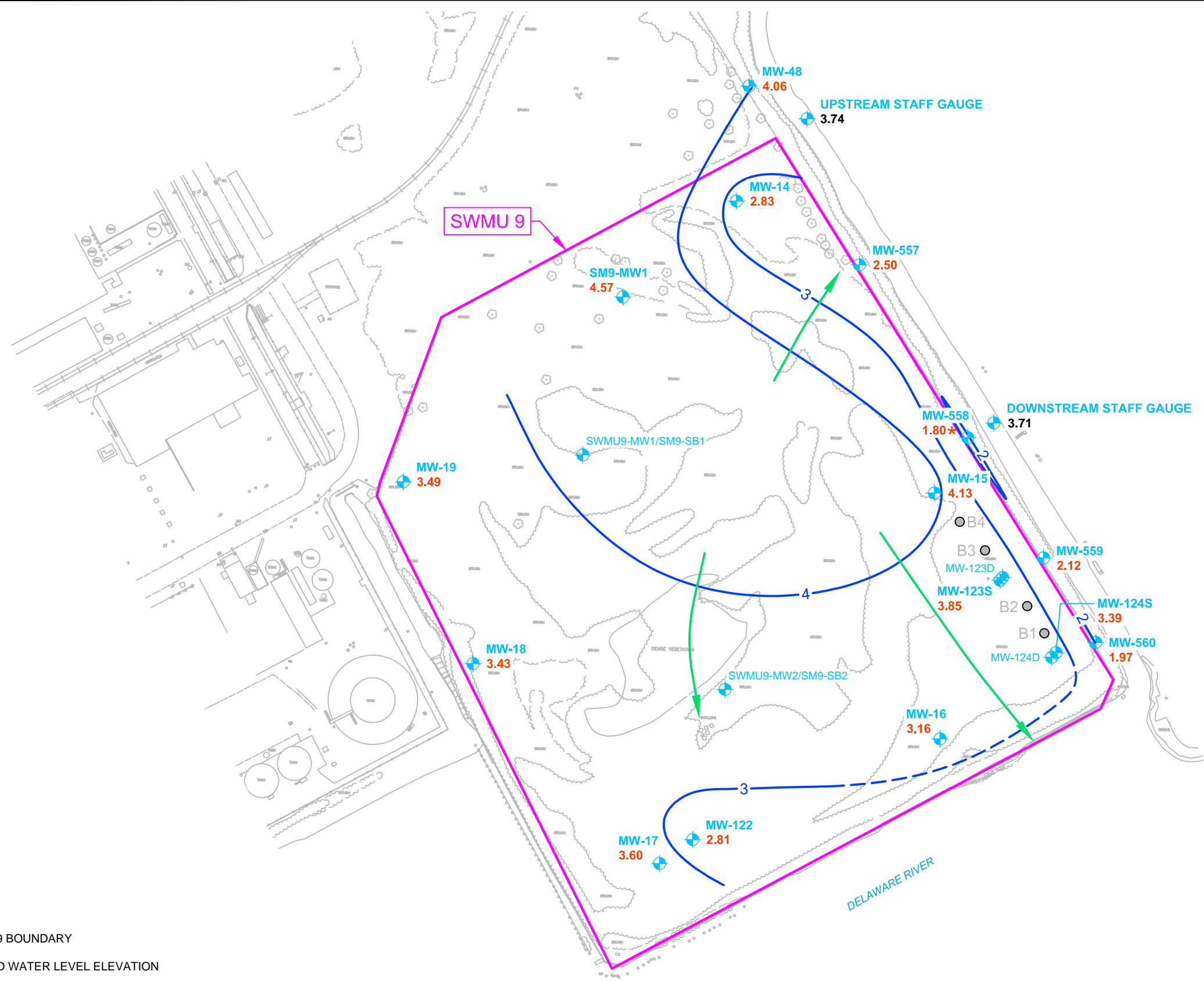
FIGURE 5
DEEP GROUNDWATER CONTOURS - DVW
DECEMBER 1, 2021

RCRA FACILITY INVESTIGATION REPORT
HONEYWELL DELAWARE VALLEY WORKS, CLAYMONT, DELAWARE

PROJECT NO.:
3482210786

REVISION NO.:
0

DATE:
FEBRUARY 2022



- LEGEND**
- APPROXIMATE SWMU 9 BOUNDARY
 - + MEASURING POINT AND WATER LEVEL ELEVATION
 - EXISTING SOIL BORING
 - LINE OF EQUAL ELEVATION (DASHED WHERE SUSPECT)
 - 2.81 GROUNDWATER ELEVATION (FT AMSL)
 - 3.71 STAFF GAUGE MEASUREMENT NOT INCLUDED IN CONTOURS
 - * CORRECTED WATER ELEVATION; WELL CONTAINS FREE PRODUCT
 - APPARENT GROUNDWATER FLOW DIRECTION

PROJECTION / DATUM:
DE83F

SCALE: 1" = 150'

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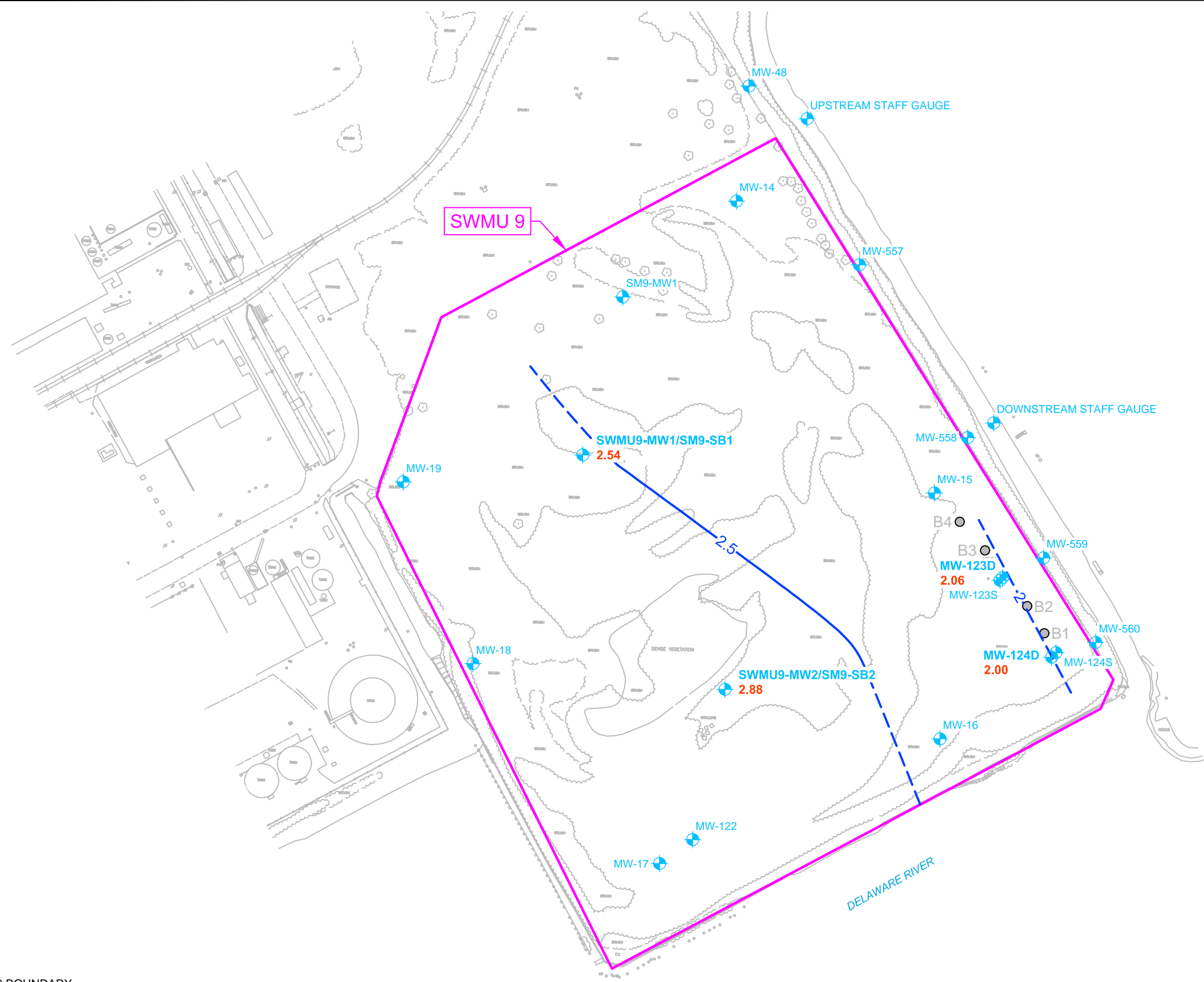
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PREPARED BY:	PJC
CHECKED BY:	JPM
REVIEWED BY:	JPM

FIGURE 6
SHALLOW GROUNDWATER CONTOURS - SWMU 9
DECEMBER 6, 2019

RCRA FACILITY INVESTIGATION REPORT
HONEYWELL DELAWARE VALLEY WORKS, CLAYMONT, DELAWARE

PROJECT NO.:	3482210786
REVISION NO.:	0
DATE:	FEBRUARY 2022



LEGEND

- APPROXIMATE SWMU 9 BOUNDARY
- + MEASURING POINT AND WATER LEVEL ELEVATION
- EXISTING SOIL BORING
- 2.5 LINE OF EQUAL ELEVATION (DASHED WHERE SUSPECT)
- * 2.88 GROUNDWATER ELEVATION (FT AMSL)
- * CORRECTED WATER ELEVATION; WELL CONTAINS FREE PRODUCT

PROJECTION / DATUM:
DE83F

SCALE: 1" = 150'

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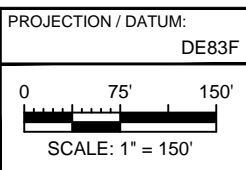
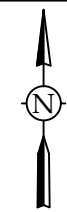
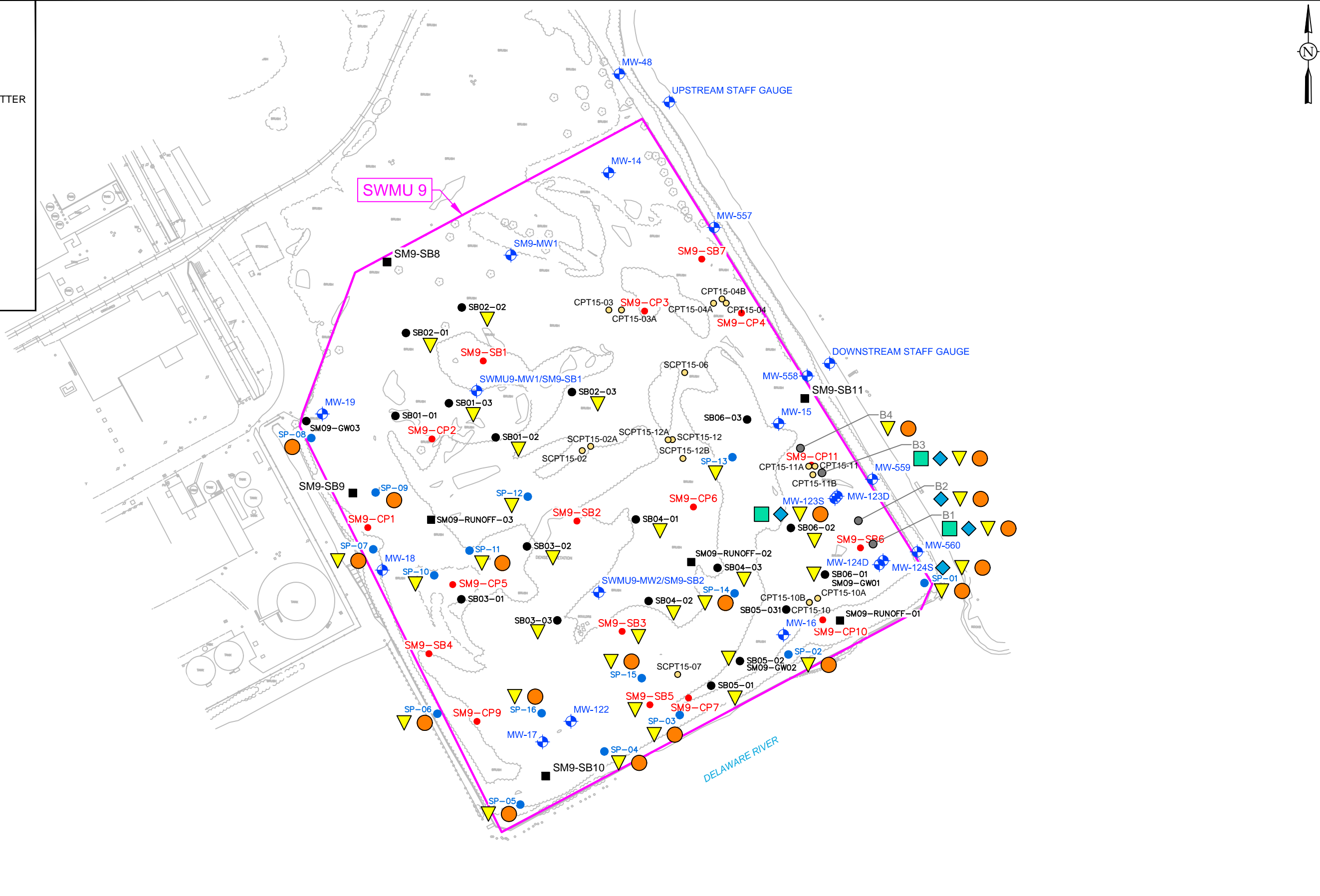
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CHECKED BY:	JPM
REVIEWED BY:	JPM

FIGURE 7
DEEP GROUNDWATER CONTOURS - SWMU 9
DECEMBER 6, 2019

RCRA FACILITY INVESTIGATION REPORT
HONEYWELL DELAWARE VALLEY WORKS, CLAYMONT, DELAWARE

PROJECT NO.:	3482210786
REVISION NO.:	0
DATE:	FEBRUARY 2022

LEGEND	
	APPROXIMATE SWMU 9 BOUNDARY
	EXISTING MONITORING WELL LOCATION
	HISTORICAL BORING LOCATION PERFORMED BY MWH/CUMMINGS RITTER
	2010 SOIL POINT LOCATION
	2014 RFI SOIL BORING LOCATION
	2015 RFI CPT BORING LOCATION
	2018 SOIL BORING LOCATION
	2019 SOIL BORING LOCATION
	VOCs EXCEEDANCE
	SVOCs EXCEEDANCE
	METALS EXCEEDANCE
	PESTICIDES EXCEEDANCE



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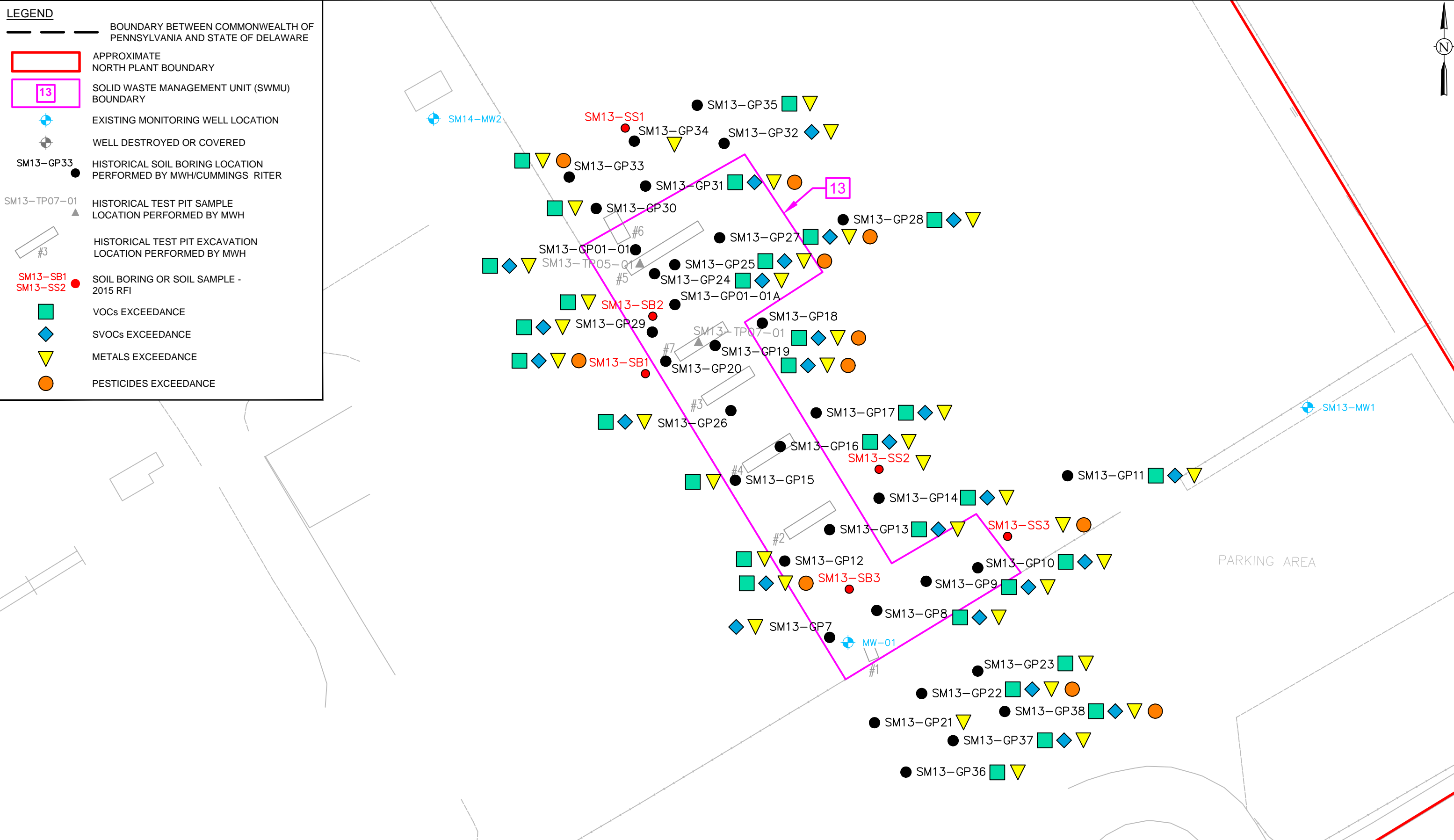
FIGURE 8
SOIL VOCs, SVOCs, METALS AND PESTICIDES - SWMU 9

RCRA FACILITY INVESTIGATION REPORT
HONEYWELL DELAWARE VALLEY WORKS, CLAYMONT, DELAWARE

PROJECT NO.:	3482210786
REVISION NO.:	0
DATE:	FEBRUARY 2022

LEGEND

- BOUNDARY BETWEEN COMMONWEALTH OF PENNSYLVANIA AND STATE OF DELAWARE
- [Red Box] APPROXIMATE NORTH PLANT BOUNDARY
- [Pink Box 13] SOLID WASTE MANAGEMENT UNIT (SWMU) BOUNDARY
- [Blue Circle with Crosshair] EXISTING MONITORING WELL LOCATION
- [Grey Circle with Crosshair] WELL DESTROYED OR COVERED
- [Black Circle] SM13-GP33 HISTORICAL SOIL BORING LOCATION PERFORMED BY MWH/CUMMINGS RITER
- [Black Triangle] SM13-TP07-01 HISTORICAL TEST PIT SAMPLE LOCATION PERFORMED BY MWH
- [Grey Rectangle #3] HISTORICAL TEST PIT EXCAVATION LOCATION PERFORMED BY MWH
- [Red Circle] SM13-SB1, SM13-SS2 SOIL BORING OR SOIL SAMPLE - 2015 RFI
- [Green Square] VOCs EXCEEDANCE
- [Blue Diamond] SVOCs EXCEEDANCE
- [Yellow Inverted Triangle] METALS EXCEEDANCE
- [Orange Circle] PESTICIDES EXCEEDANCE



PROJECTION / DATUM:
DE83F

0 20' 40'

SCALE: 1" = 40'

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CHECKED BY: KH

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FIGURE 9
SOIL VOCs, SVOCs, METALS AND PESTICIDES - SWMU 13















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HONEYWELL DELAWARE VALLEY WORKS, CLAYMONT, DELAWARE

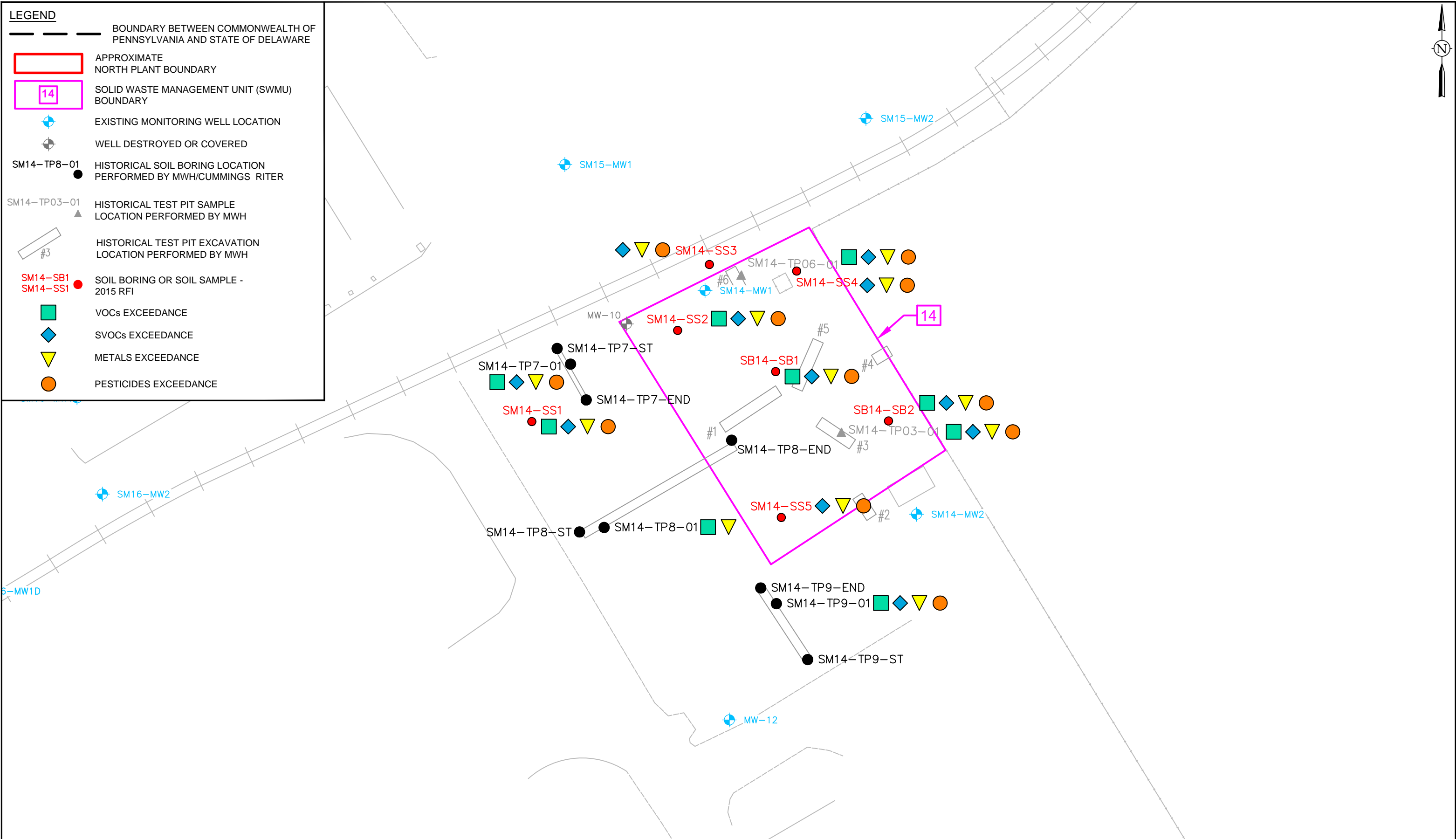
PROJECT NO.: 3482210786

REVISION NO.: 0

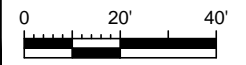
DATE: FEBRUARY 2022

LEGEND

-  BOUNDARY BETWEEN COMMONWEALTH OF PENNSYLVANIA AND STATE OF DELAWARE
-  APPROXIMATE NORTH PLANT BOUNDARY
-  SOLID WASTE MANAGEMENT UNIT (SWMU) BOUNDARY
-  EXISTING MONITORING WELL LOCATION
-  WELL DESTROYED OR COVERED
-  SM14-TP8-01 HISTORICAL SOIL BORING LOCATION PERFORMED BY MWH/CUMMINGS RITER
-  SM14-TP03-01 HISTORICAL TEST PIT SAMPLE LOCATION PERFORMED BY MWH
-  HISTORICAL TEST PIT EXCAVATION LOCATION PERFORMED BY MWH
-  SM14-SB1 SOIL BORING OR SOIL SAMPLE - 2015 RFI
-  SM14-SS1
-  VOCs EXCEEDANCE
-  SVOCs EXCEEDANCE
-  METALS EXCEEDANCE
-  PESTICIDES EXCEEDANCE



PROJECTION / DATUM:
DE83F



SCALE: 1" = 40'

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REVIEWED BY: JPM

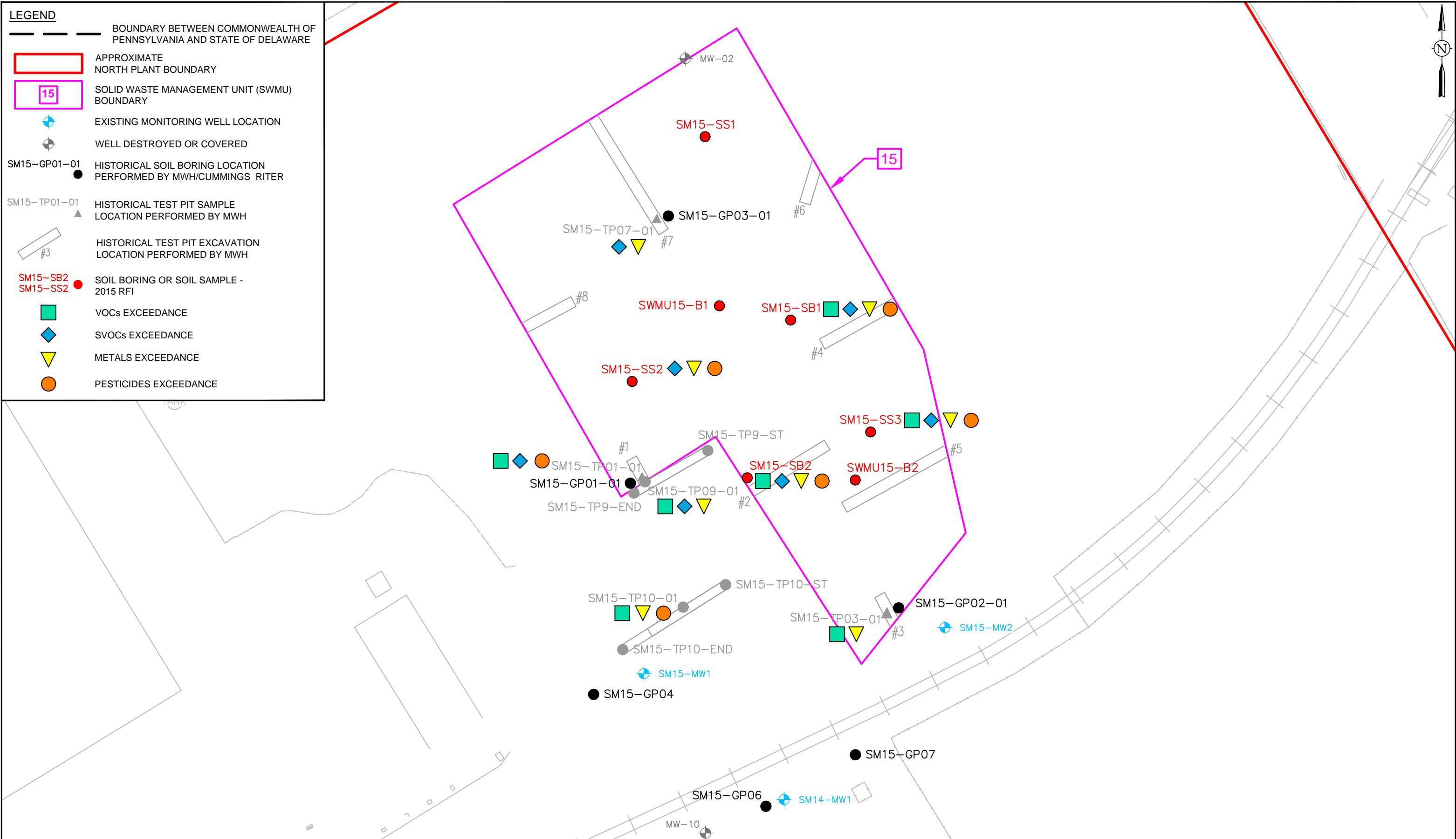
FIGURE 10
SOIL VOCs, SVOCs, METALS AND PESTICIDES - SWMU 14

RCRA FACILITY INVESTIGATION REPORT
HONEYWELL DELAWARE VALLEY WORKS, CLAYMONT, DELAWARE

PROJECT NO.: 3482210786
REVISION NO.: 0
DATE: FEBRUARY 2022

LEGEND

- BOUNDARY BETWEEN COMMONWEALTH OF PENNSYLVANIA AND STATE OF DELAWARE
- [Red Box] APPROXIMATE NORTH PLANT BOUNDARY
- [Pink Box 15] SOLID WASTE MANAGEMENT UNIT (SWMU) BOUNDARY
- [Blue Circle with Crosshair] EXISTING MONITORING WELL LOCATION
- [Grey Circle with Crosshair] WELL DESTROYED OR COVERED
- SM15-GP01-01 [Black Circle] HISTORICAL SOIL BORING LOCATION PERFORMED BY MWH/CUMMINGS RITER
- SM15-TP01-01 [Black Triangle] HISTORICAL TEST PIT SAMPLE LOCATION PERFORMED BY MWH
- [Grey Box #3] HISTORICAL TEST PIT EXCAVATION LOCATION PERFORMED BY MWH
- SM15-SB2 [Red Circle] SOIL BORING OR SOIL SAMPLE - 2015 RFI
- SM15-SS2 [Red Circle] SOIL BORING OR SOIL SAMPLE - 2015 RFI
- [Green Square] VOCs EXCEEDANCE
- [Blue Diamond] SVOCs EXCEEDANCE
- [Yellow Triangle] METALS EXCEEDANCE
- [Orange Circle] PESTICIDES EXCEEDANCE



PROJECTION / DATUM:
DE83F

0 20' 40'

SCALE: 1" = 40'

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CHECKED BY:	KH
REVIEWED BY:	JPM

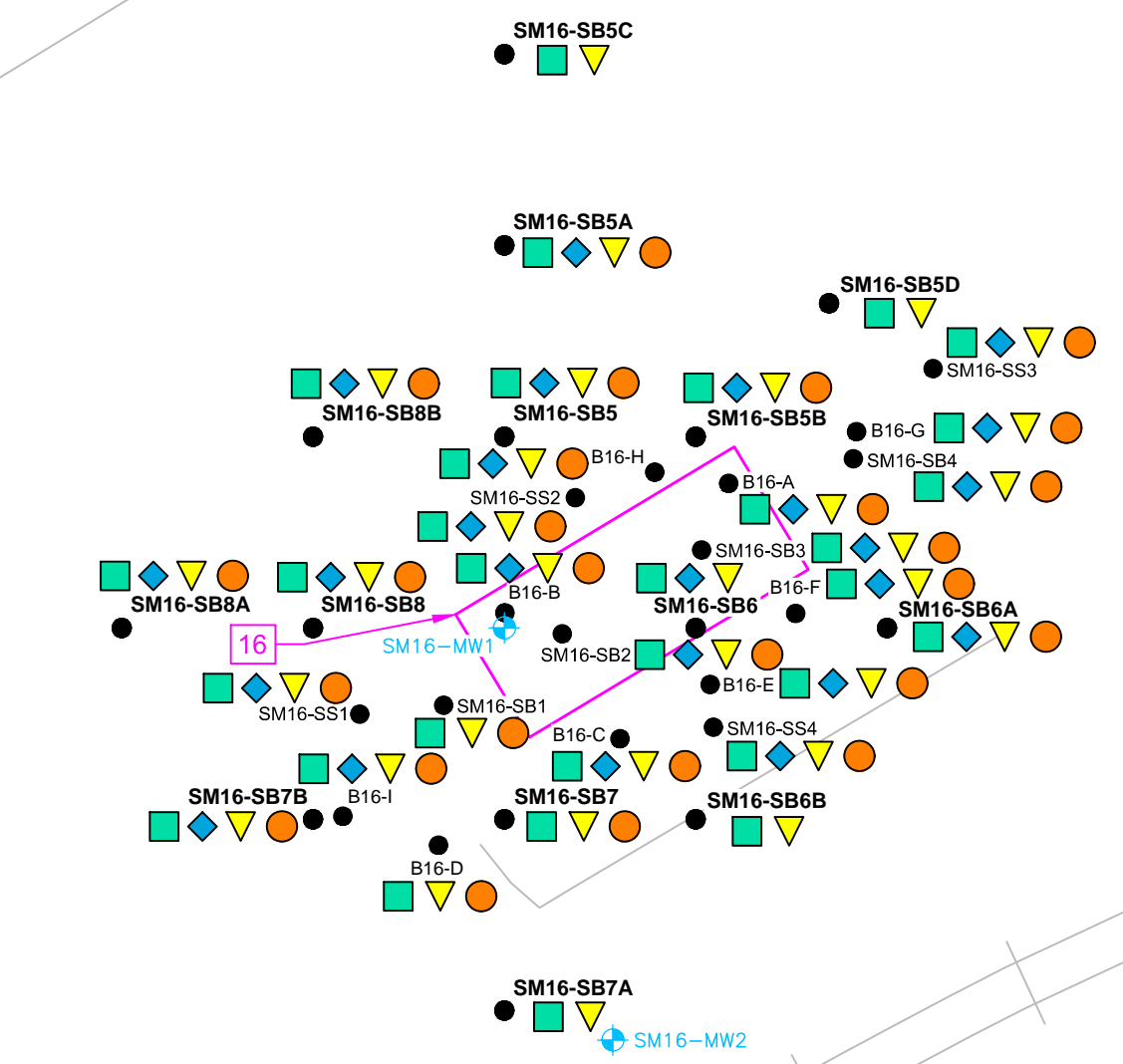
FIGURE 11
SOIL VOCs, SVOCs, METALS AND PESTICIDES - SWMU 15

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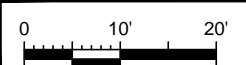
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DATE:	FEBRUARY 2022

LEGEND

-  BOUNDARY BETWEEN COMMONWEALTH OF PENNSYLVANIA AND STATE OF DELAWARE
-  APPROXIMATE NORTH PLANT BOUNDARY
-  SOLID WASTE MANAGEMENT UNIT (SWMU) BOUNDARY
-  EXISTING MONITORING WELL LOCATION
-  WELL DESTROYED OR COVERED
-  SM16-SB5 EXISTING SOIL BORING LOCATION
-  VOCs EXCEEDANCE
-  SVOCs EXCEEDANCE
-  METALS EXCEEDANCE
-  PESTICIDES EXCEEDANCE



PROJECTION / DATUM:
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SCALE: 1" = 20'

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REVIEWED BY:	JPM

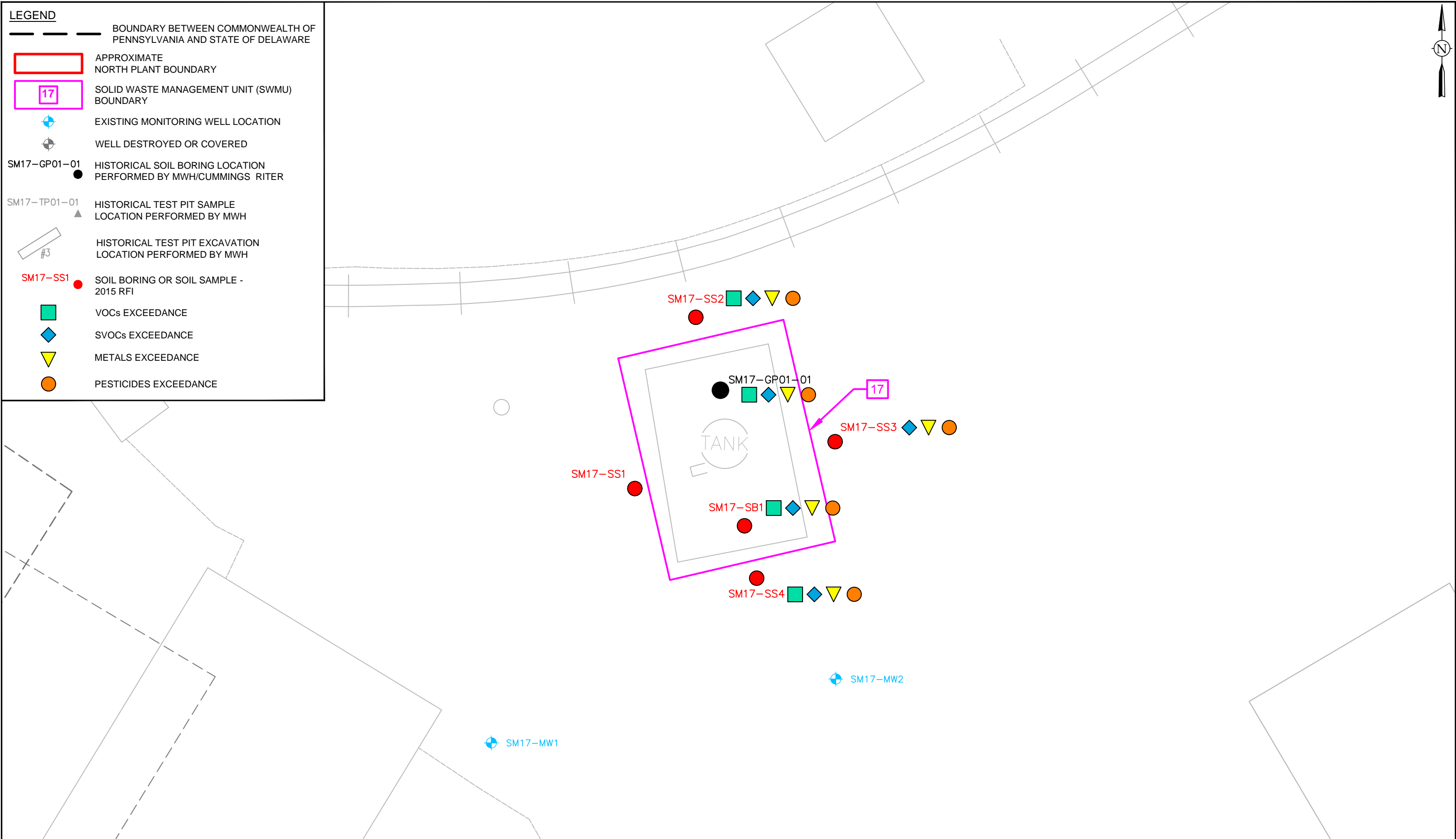
FIGURE 12
SOIL VOCs, SVOCs, METALS AND PESTICIDES - SWMU 16

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HONEYWELL DELAWARE VALLEY WORKS, CLAYMONT, DELAWARE

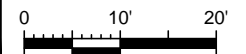
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-  BOUNDARY BETWEEN COMMONWEALTH OF PENNSYLVANIA AND STATE OF DELAWARE
-  APPROXIMATE NORTH PLANT BOUNDARY
-  SOLID WASTE MANAGEMENT UNIT (SWMU) BOUNDARY
-  EXISTING MONITORING WELL LOCATION
-  WELL DESTROYED OR COVERED
-  SM17-GP01-01 HISTORICAL SOIL BORING LOCATION PERFORMED BY MWH/CUMMINGS RITER
-  SM17-TP01-01 HISTORICAL TEST PIT SAMPLE LOCATION PERFORMED BY MWH
-  HISTORICAL TEST PIT EXCAVATION LOCATION PERFORMED BY MWH
-  SM17-SS1 SOIL BORING OR SOIL SAMPLE - 2015 RFI
-  VOCs EXCEEDANCE
-  SVOCs EXCEEDANCE
-  METALS EXCEEDANCE
-  PESTICIDES EXCEEDANCE



PROJECTION / DATUM:
DE83F



SCALE: 1" = 20'

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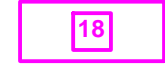










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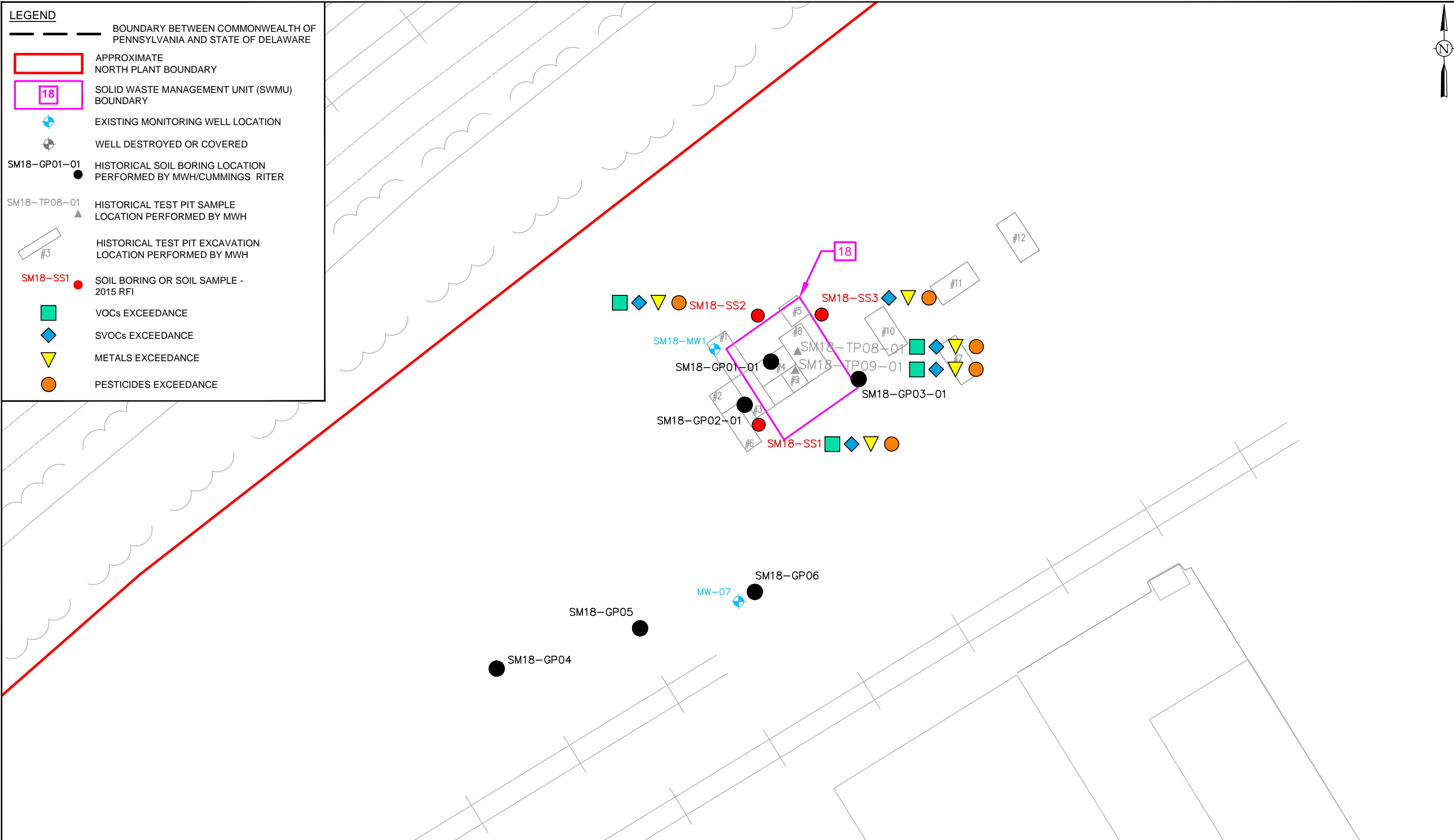
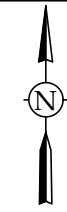
FIGURE 13
SOIL VOCs, SVOCs, METALS AND PESTICIDES - SWMU 17

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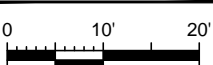
LEGEND

-  BOUNDARY BETWEEN COMMONWEALTH OF PENNSYLVANIA AND STATE OF DELAWARE
-  APPROXIMATE NORTH PLANT BOUNDARY
-  SOLID WASTE MANAGEMENT UNIT (SWMU) BOUNDARY
-  EXISTING MONITORING WELL LOCATION
-  WELL DESTROYED OR COVERED
-  SM18-GP01-01 HISTORICAL SOIL BORING LOCATION PERFORMED BY MWH/CUMMINGS RITER
-  SM18-TP08-01 HISTORICAL TEST PIT SAMPLE LOCATION PERFORMED BY MWH
-  HISTORICAL TEST PIT EXCAVATION LOCATION PERFORMED BY MWH
-  SM18-SS1 SOIL BORING OR SOIL SAMPLE - 2015 RFI
-  VOCs EXCEEDANCE
-  SVOCs EXCEEDANCE
-  METALS EXCEEDANCE
-  PESTICIDES EXCEEDANCE



MW-03

PROJECTION / DATUM:
DE83F



SCALE: 1" = 20'

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REVIEWED BY:	JPM

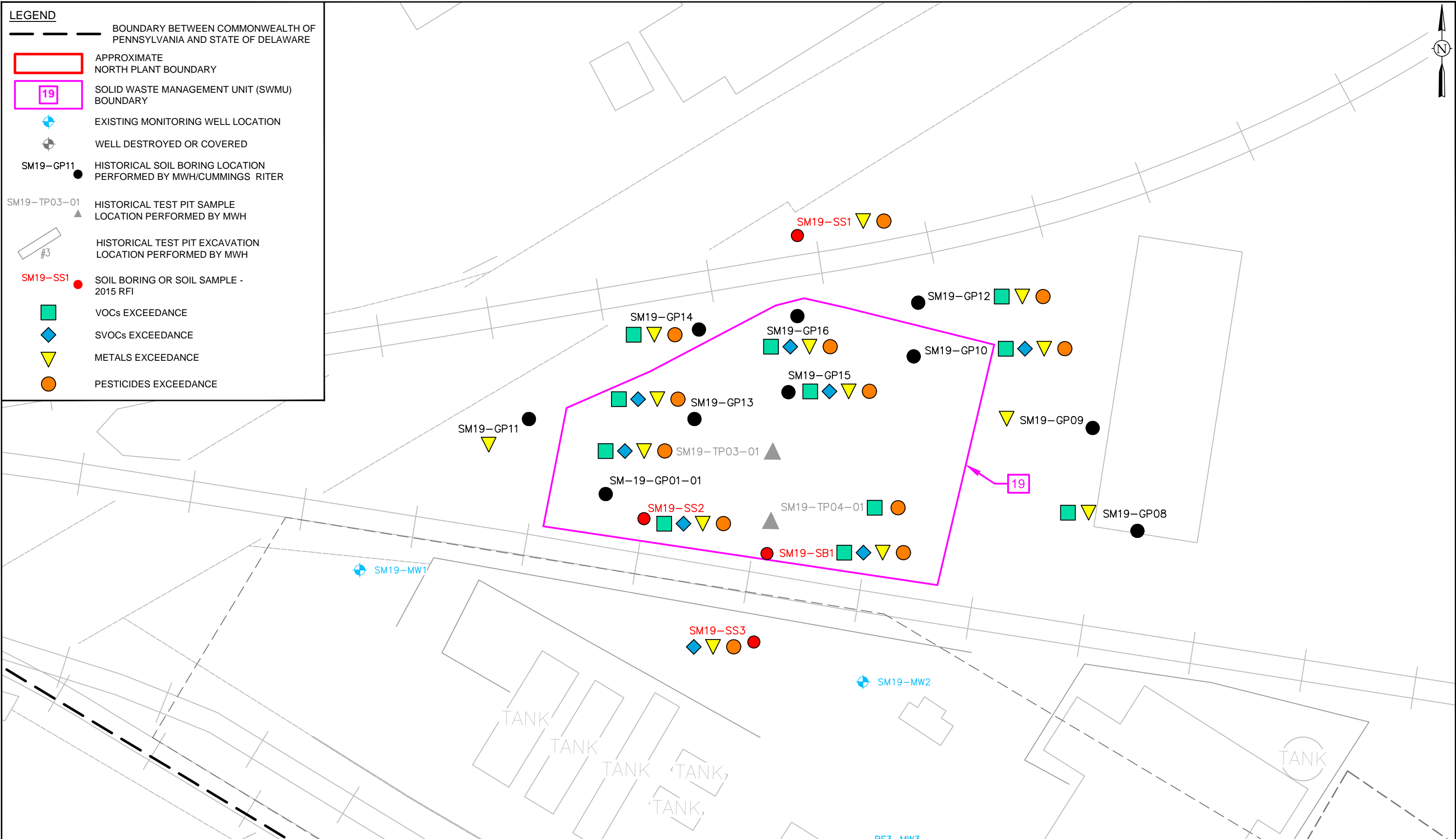
FIGURE 14
SOIL VOCs, SVOCs, METALS AND PESTICIDES - SWMU 18

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LEGEND

- BOUNDARY BETWEEN COMMONWEALTH OF PENNSYLVANIA AND STATE OF DELAWARE
- [Red Box] APPROXIMATE NORTH PLANT BOUNDARY
- [Purple Box 19] SOLID WASTE MANAGEMENT UNIT (SWMU) BOUNDARY
- [Blue Circle with Crosshair] EXISTING MONITORING WELL LOCATION
- [Grey Circle with Crosshair] WELL DESTROYED OR COVERED
- SM19-GP11 [Black Circle] HISTORICAL SOIL BORING LOCATION PERFORMED BY MWH/CUMMINGS RITER
- SM19-TP03-01 [Black Triangle] HISTORICAL TEST PIT SAMPLE LOCATION PERFORMED BY MWH
- [Box #3] HISTORICAL TEST PIT EXCAVATION LOCATION PERFORMED BY MWH
- SM19-SS1 [Red Circle] SOIL BORING OR SOIL SAMPLE - 2015 RFI
- [Green Square] VOCs EXCEEDANCE
- [Blue Diamond] SVOCs EXCEEDANCE
- [Yellow Triangle] METALS EXCEEDANCE
- [Orange Circle] PESTICIDES EXCEEDANCE



PROJECTION / DATUM:
DE83F

0 10' 20'

SCALE: 1" = 20'

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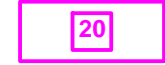










PREPARED BY: PJC
CHECKED BY: IM
REVIEWED BY: JPM

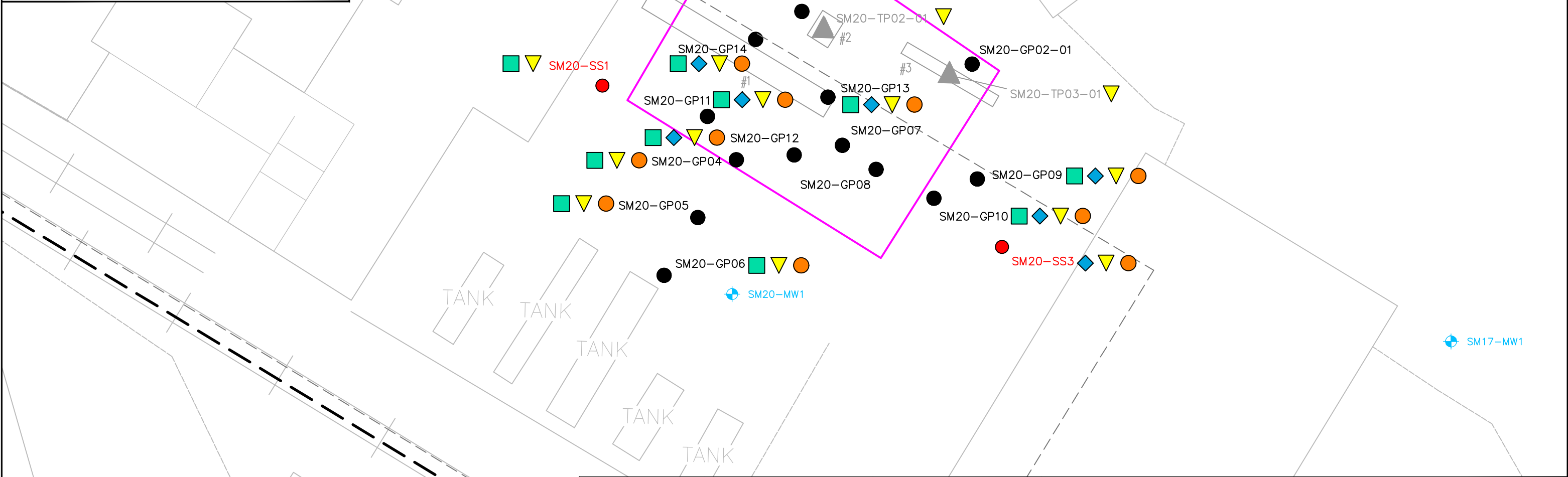
FIGURE 15
SOIL VOCs, SVOCs, METALS AND PESTICIDES - SWMU 19

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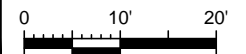
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DATE: FEBRUARY 2022

LEGEND

-  BOUNDARY BETWEEN COMMONWEALTH OF PENNSYLVANIA AND STATE OF DELAWARE
-  APPROXIMATE NORTH PLANT BOUNDARY
-  SOLID WASTE MANAGEMENT UNIT (SWMU) BOUNDARY
-  EXISTING MONITORING WELL LOCATION
-  WELL DESTROYED OR COVERED
-  SM20-GP11 HISTORICAL SOIL BORING LOCATION PERFORMED BY MWH/CUMMINGS RITER
-  SM20-TP03-01 HISTORICAL TEST PIT SAMPLE LOCATION PERFORMED BY MWH
-  HISTORICAL TEST PIT EXCAVATION LOCATION PERFORMED BY MWH
-  SM20-SS1 SOIL BORING OR SOIL SAMPLE - 2015 RFI
-  VOCs EXCEEDANCE
-  SVOCs EXCEEDANCE
-  METALS EXCEEDANCE
-  PESTICIDES EXCEEDANCE



PROJECTION / DATUM:
DE83F



SCALE: 1" = 20'

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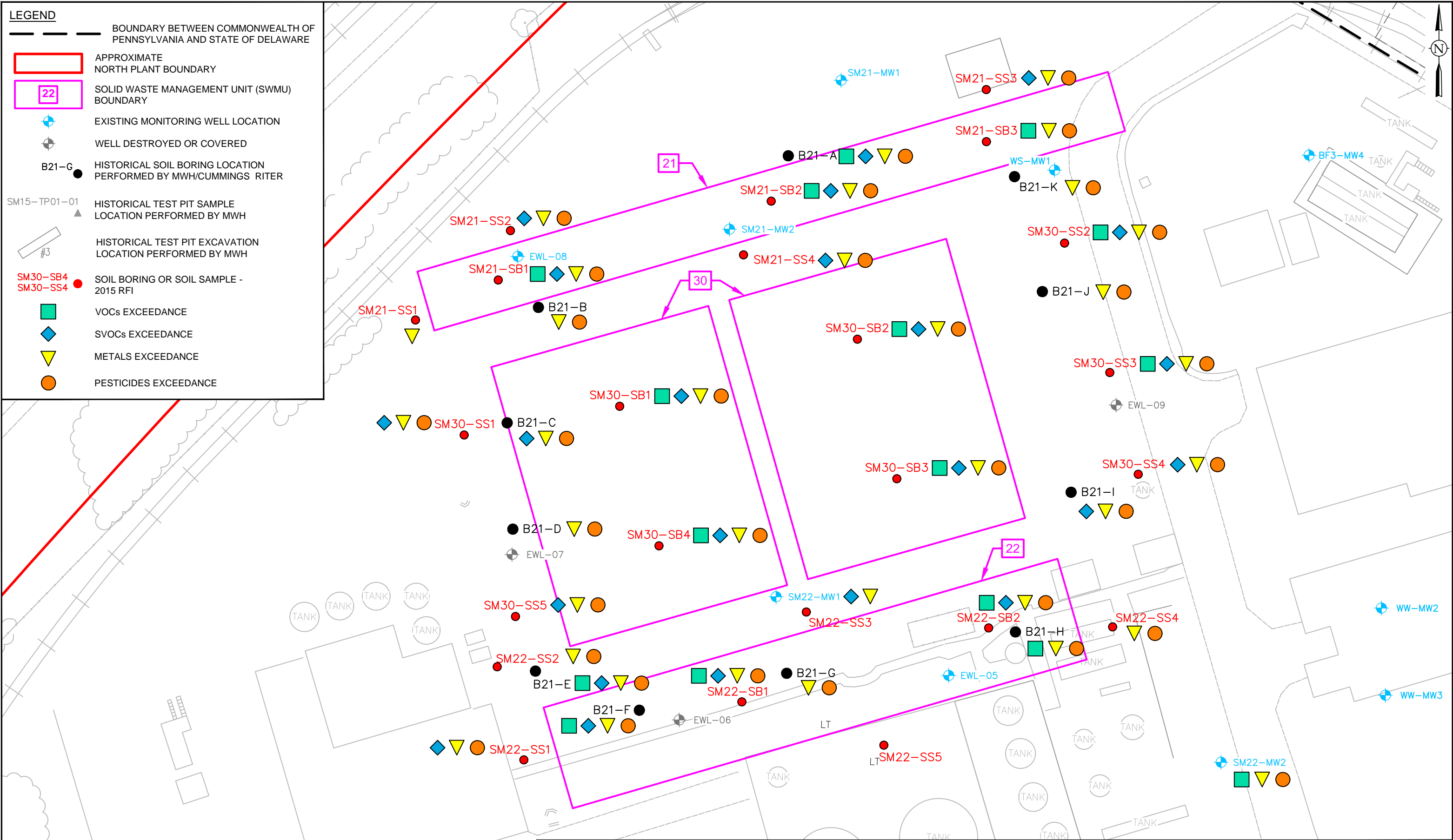
FIGURE 16
SOIL VOCs, SVOCs, METALS AND PESTICIDES - SWMU 20

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HONEYWELL DELAWARE VALLEY WORKS, CLAYMONT, DELAWARE

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LEGEND

- BOUNDARY BETWEEN COMMONWEALTH OF PENNSYLVANIA AND STATE OF DELAWARE
- APPROXIMATE NORTH PLANT BOUNDARY
- SOLID WASTE MANAGEMENT UNIT (SWMU) BOUNDARY
- EXISTING MONITORING WELL LOCATION
- WELL DESTROYED OR COVERED
- B21-G HISTORICAL SOIL BORING LOCATION PERFORMED BY MWH/CUMMINGS RITER
- SM15-TP01-01 HISTORICAL TEST PIT SAMPLE LOCATION PERFORMED BY MWH
- #3 HISTORICAL TEST PIT EXCAVATION LOCATION PERFORMED BY MWH
- SM30-SB4 SOIL BORING OR SOIL SAMPLE - 2015 RFI
- VOCs EXCEEDANCE
- SVOCs EXCEEDANCE
- METALS EXCEEDANCE
- PESTICIDES EXCEEDANCE



PROJECTION / DATUM:
DE83F

SCALE: 1" = 40'

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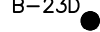
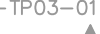






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FIGURE 17
SOIL VOCs, SVOCs, METALS AND PESTICIDES -
SWMU 21, 22, 30

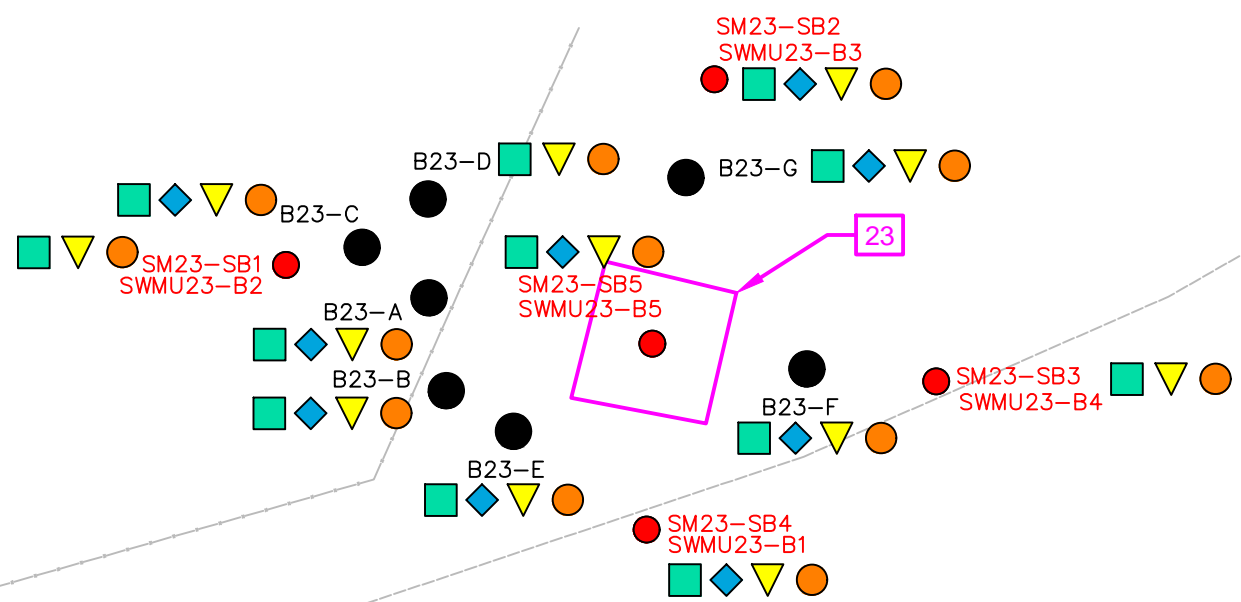
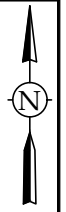
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HONEYWELL DELAWARE VALLEY WORKS, CLAYMONT, DELAWARE

PROJECT NO.:	3482210786
REVISION NO.:	0
DATE:	FEBRUARY 2022

LEGEND

-  BOUNDARY BETWEEN COMMONWEALTH OF PENNSYLVANIA AND STATE OF DELAWARE
-  APPROXIMATE NORTH PLANT BOUNDARY
-  SOLID WASTE MANAGEMENT UNIT (SWMU) BOUNDARY
-  EXISTING MONITORING WELL LOCATION
-  WELL DESTROYED OR COVERED
-  HISTORICAL SOIL BORING LOCATION PERFORMED BY MWH/CUMMINGS RITER
-  HISTORICAL TEST PIT SAMPLE LOCATION PERFORMED BY MWH
-  HISTORICAL TEST PIT EXCAVATION LOCATION PERFORMED BY MWH
-  SOIL BORING OR SOIL SAMPLE - 2015 RFI
-  VOCs EXCEEDANCE
-  SVOCs EXCEEDANCE
-  METALS EXCEEDANCE
-  PESTICIDES EXCEEDANCE

TANK



PROJECTION / DATUM:
DE83F

SCALE: 1" = 20'

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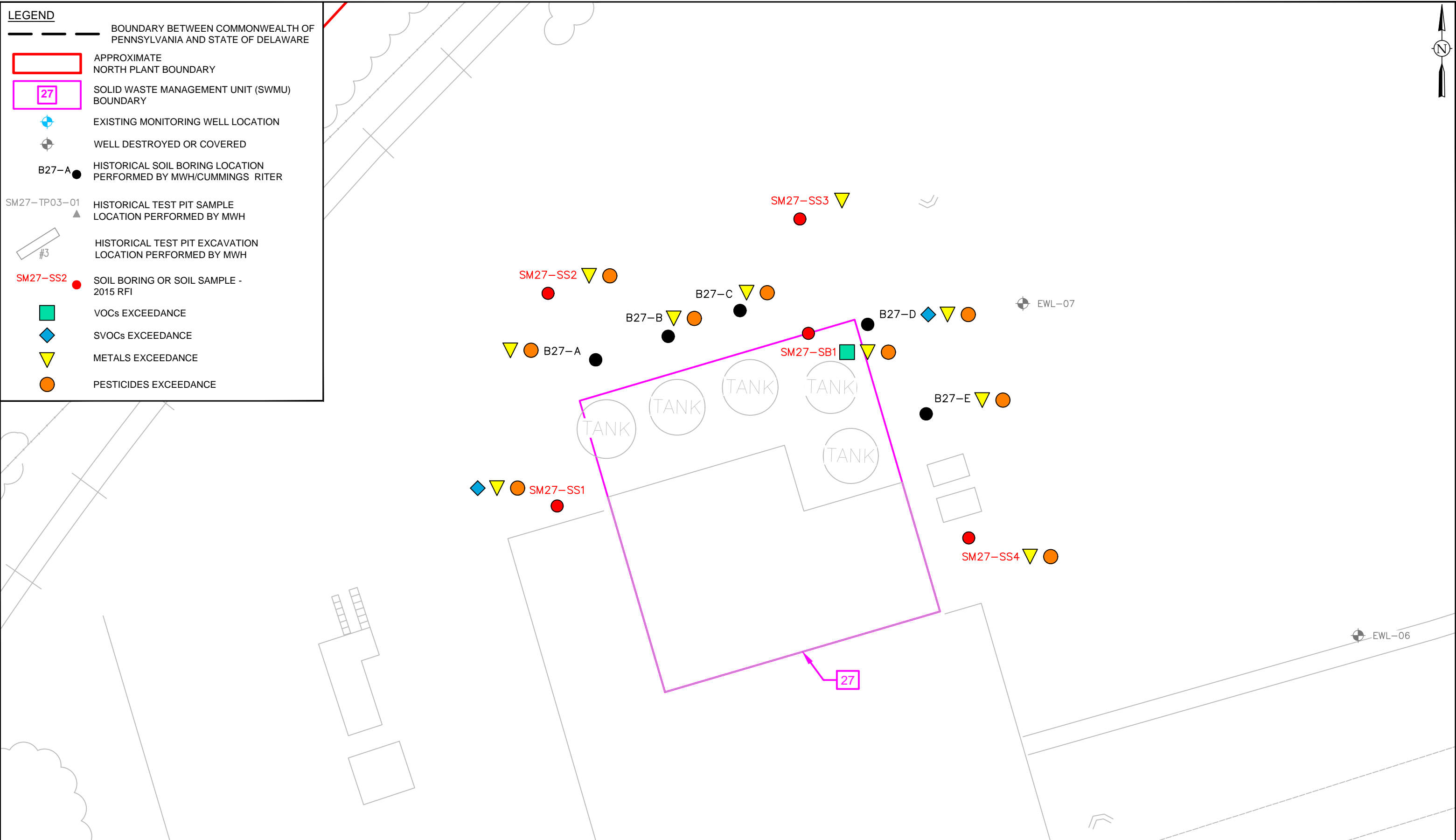
FIGURE 18
SOIL VOCs, SVOCs, METALS AND PESTICIDES - SWMU 23

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DATE:	FEBRUARY 2022

LEGEND

- BOUNDARY BETWEEN COMMONWEALTH OF PENNSYLVANIA AND STATE OF DELAWARE
- [Red Box] APPROXIMATE NORTH PLANT BOUNDARY
- [Pink Box 27] SOLID WASTE MANAGEMENT UNIT (SWMU) BOUNDARY
- [Blue Circle with Crosshair] EXISTING MONITORING WELL LOCATION
- [Black Circle with Crosshair] WELL DESTROYED OR COVERED
- B27-A [Black Circle] HISTORICAL SOIL BORING LOCATION PERFORMED BY MWH/CUMMINGS RITER
- SM27-TP03-01 [Black Triangle] HISTORICAL TEST PIT SAMPLE LOCATION PERFORMED BY MWH
- [Box #3] HISTORICAL TEST PIT EXCAVATION LOCATION PERFORMED BY MWH
- SM27-SS2 [Red Circle] SOIL BORING OR SOIL SAMPLE - 2015 RFI
- [Green Square] VOCs EXCEEDANCE
- [Blue Diamond] SVOCs EXCEEDANCE
- [Yellow Triangle] METALS EXCEEDANCE
- [Orange Circle] PESTICIDES EXCEEDANCE



PROJECTION / DATUM:
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SCALE: 1" = 20'

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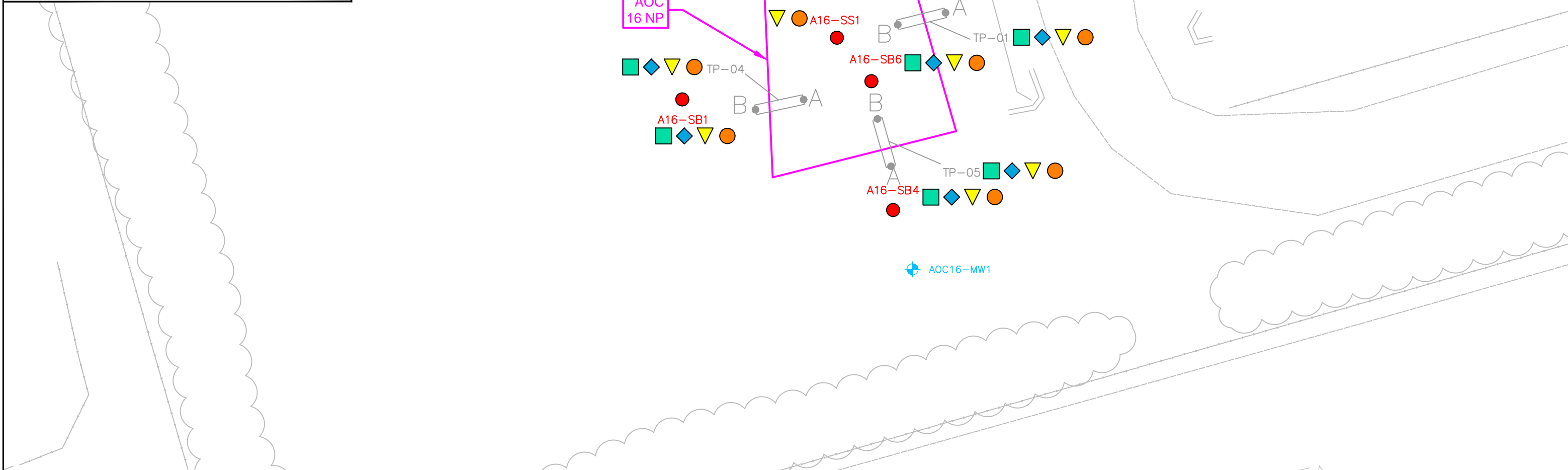
FIGURE 19
SOIL VOCs, SVOCs, METALS AND PESTICIDES - SWMU 27

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LEGEND

- BOUNDARY BETWEEN COMMONWEALTH OF PENNSYLVANIA AND STATE OF DELAWARE
- [Red Box] APPROXIMATE NORTH PLANT BOUNDARY
- [Pink Box] AOC 16 NP SOLID WASTE MANAGEMENT UNIT (SWMU) BOUNDARY
- [Blue Diamond] EXISTING MONITORING WELL LOCATION
- [Grey Diamond] WELL DESTROYED OR COVERED
- [Black Circle] A16 HISTORICAL SOIL BORING LOCATION PERFORMED BY MWH/CUMMINGS RITER
- [Grey Triangle] TP-05 HISTORICAL TEST PIT SAMPLE LOCATION PERFORMED BY MWH
- [Grey Box] #3 HISTORICAL TEST PIT EXCAVATION LOCATION PERFORMED BY MWH
- [Red Circle] A16-SB1 SOIL BORING OR SOIL SAMPLE - 2015 RFI
- [Green Square] VOCs EXCEEDANCE
- [Blue Diamond] SVOCs EXCEEDANCE
- [Yellow Triangle] METALS EXCEEDANCE
- [Orange Circle] PESTICIDES EXCEEDANCE



PROJECTION / DATUM:
DE83F

SCALE: 1" = 20'

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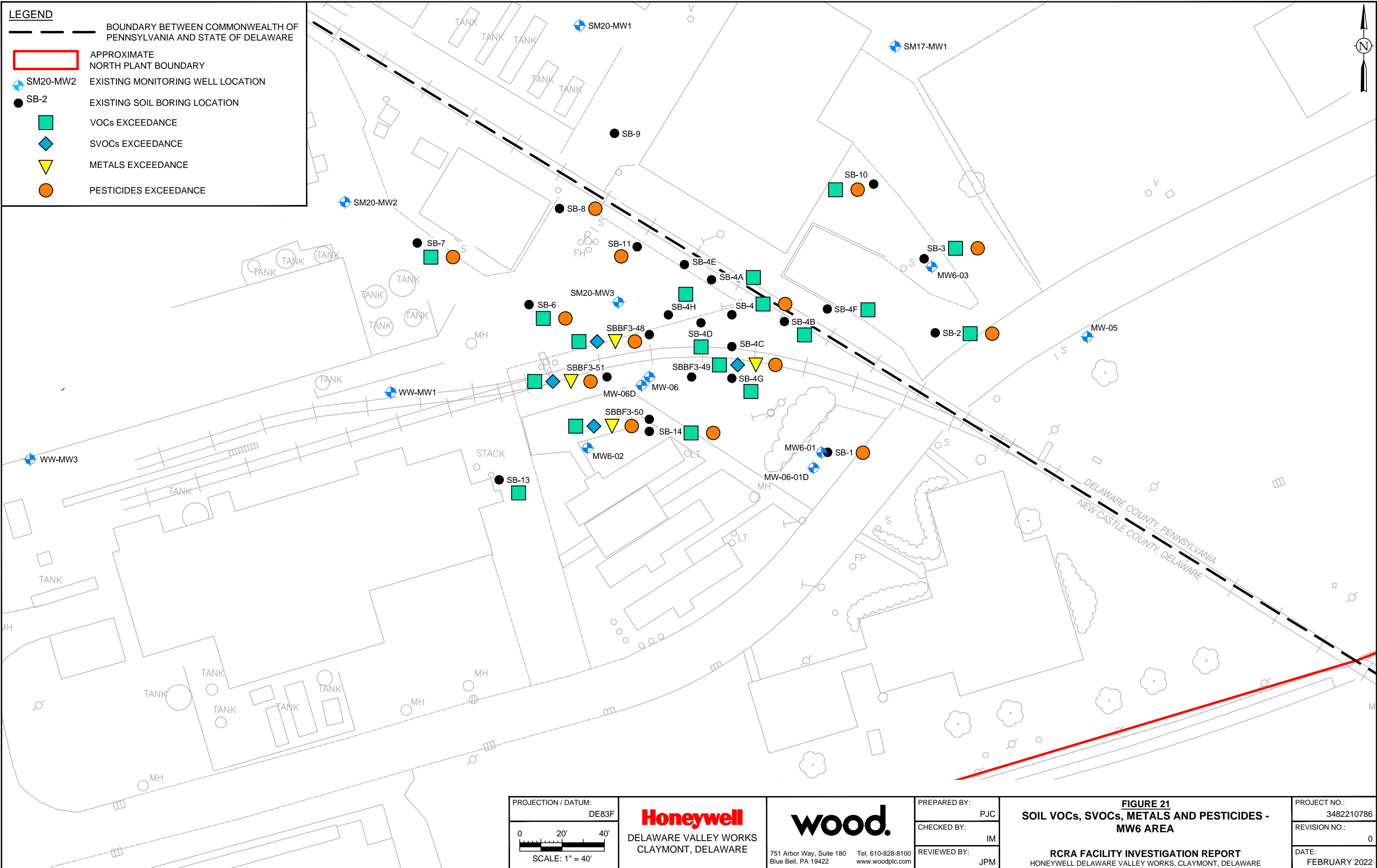
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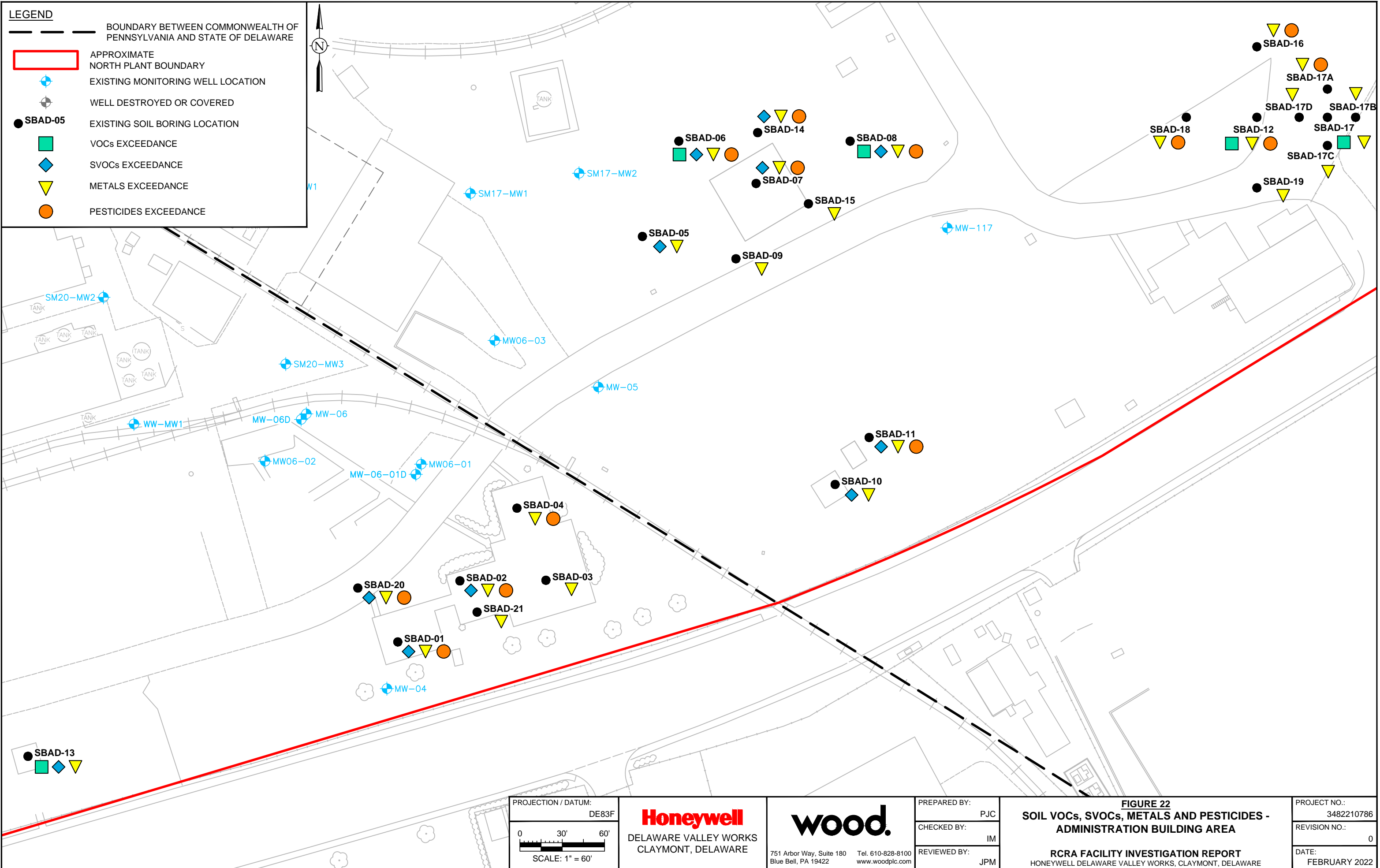
PREPARED BY:	PJC
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REVIEWED BY:	JPM

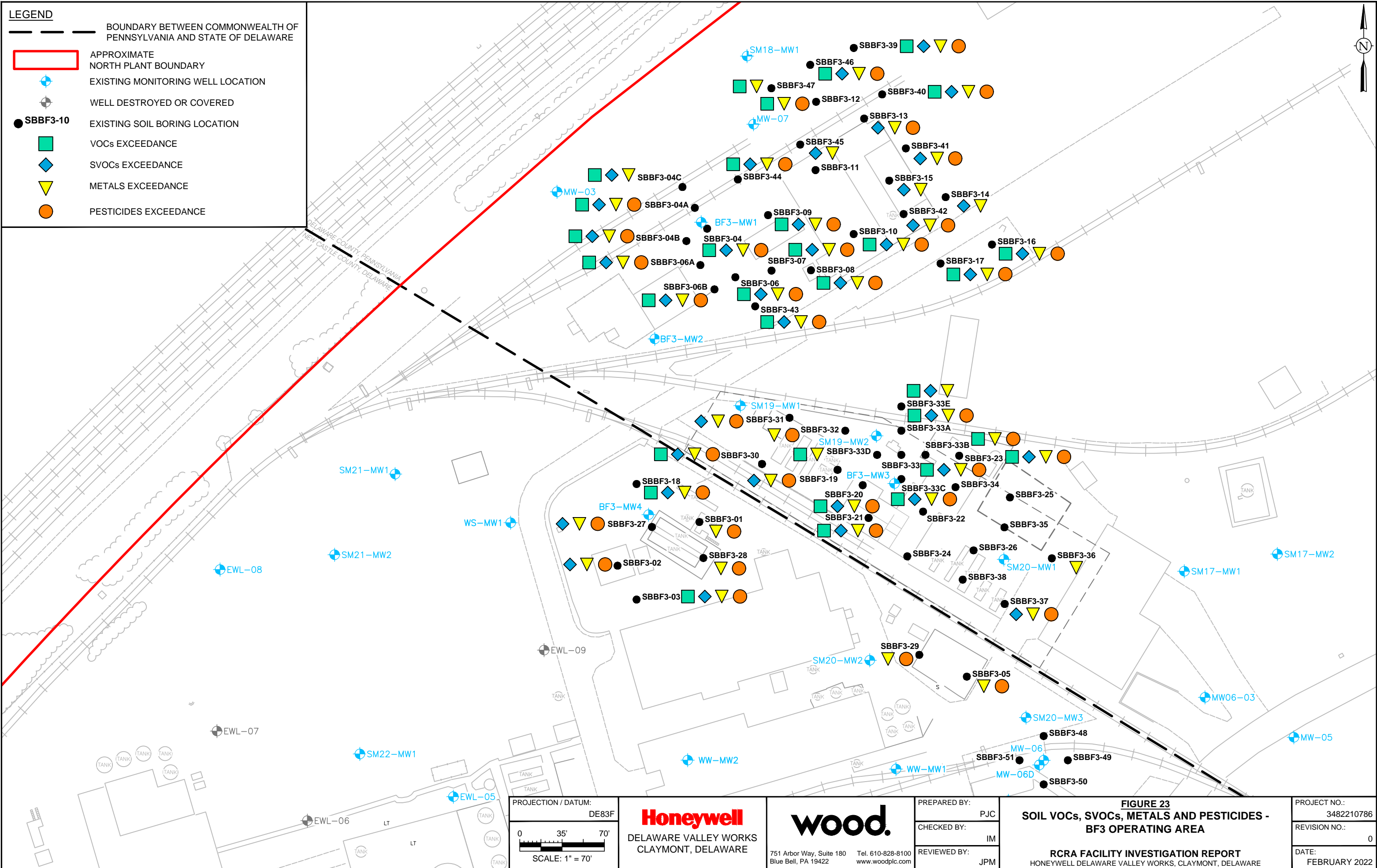
FIGURE 20
SOIL VOCs, SVOCs, METALS AND PESTICIDES -
AOC 16 NP

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REVISION NO.:	0
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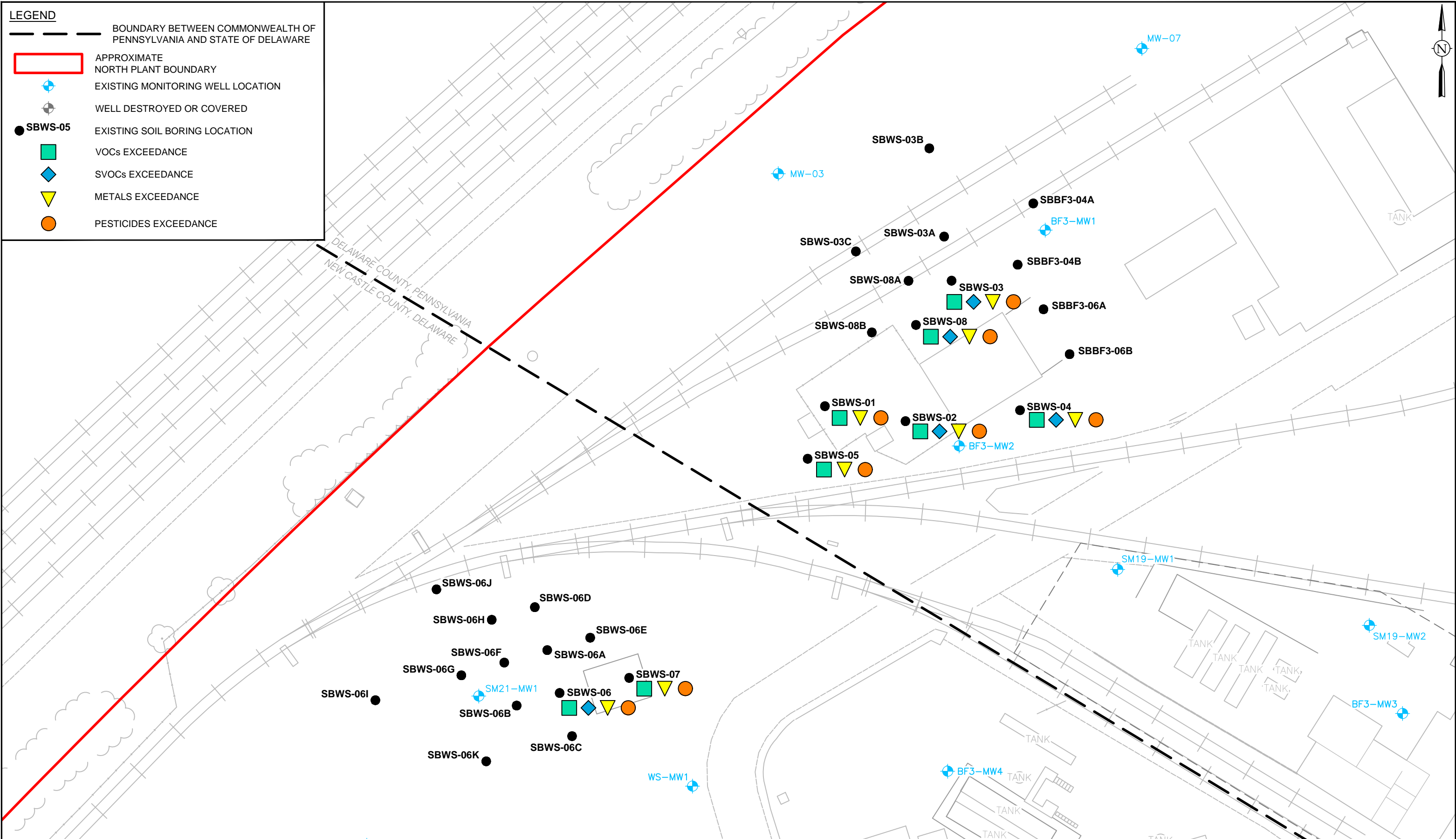




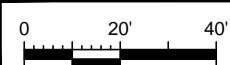


LEGEND

-  BOUNDARY BETWEEN COMMONWEALTH OF PENNSYLVANIA AND STATE OF DELAWARE
-  APPROXIMATE NORTH PLANT BOUNDARY
-  EXISTING MONITORING WELL LOCATION
-  WELL DESTROYED OR COVERED
-  SBWS-05 EXISTING SOIL BORING LOCATION
-  VOCs EXCEEDANCE
-  SVOCs EXCEEDANCE
-  METALS EXCEEDANCE
-  PESTICIDES EXCEEDANCE



PROJECTION / DATUM:
DE83F



SCALE: 1" = 40'

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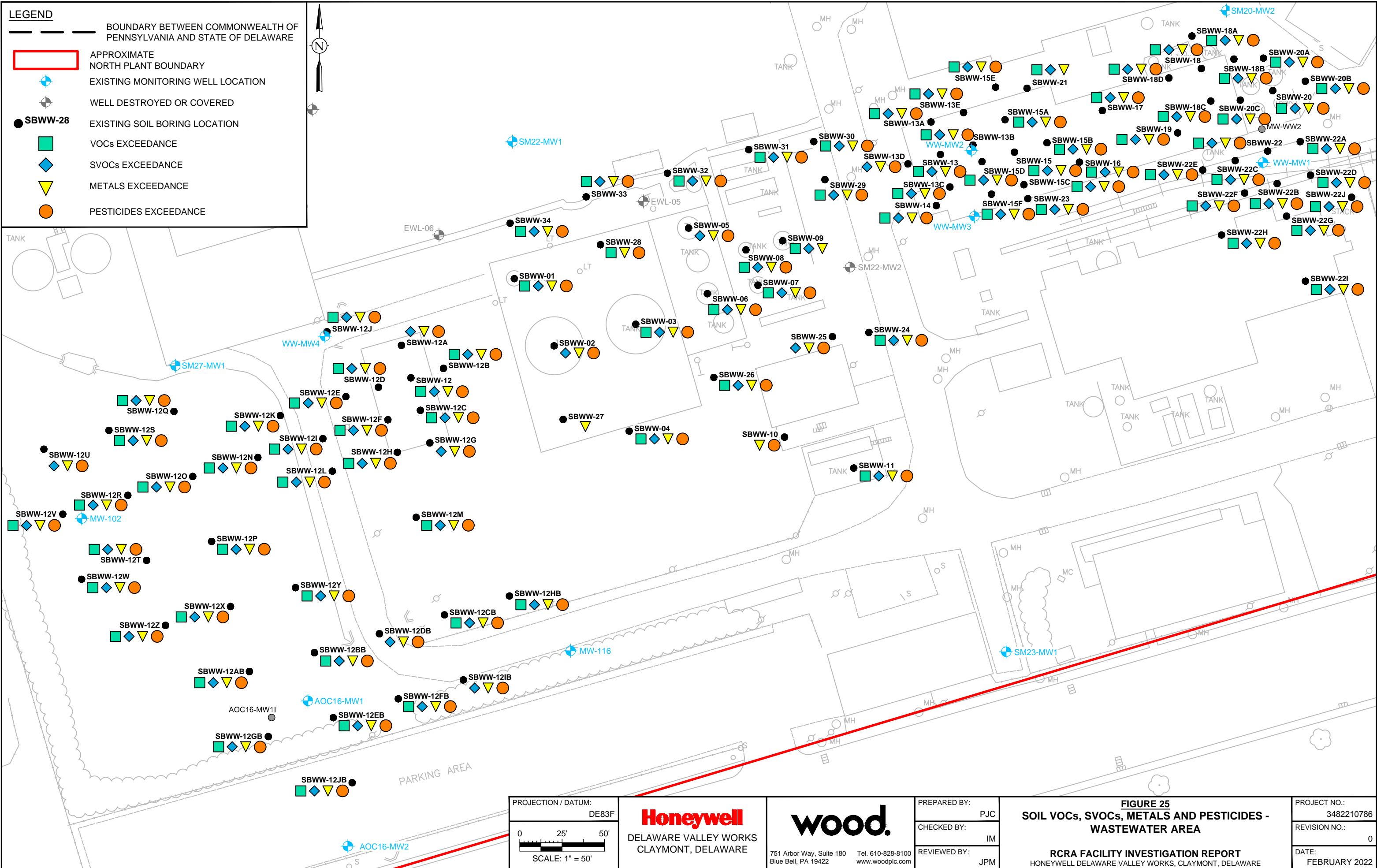
PREPARED BY: PJC
CHECKED BY: IM
REVIEWED BY: JPM

FIGURE 24
SOIL VOCs, SVOCs, METALS AND PESTICIDES - WASTE STORAGE AREA
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PROJECT NO.: 3482210786
REVISION NO.: 0
DATE: FEBRUARY 2022

LEGEND

- BOUNDARY BETWEEN COMMONWEALTH OF PENNSYLVANIA AND STATE OF DELAWARE
- ▭ APPROXIMATE NORTH PLANT BOUNDARY
- ⊕ EXISTING MONITORING WELL LOCATION
- ⊖ WELL DESTROYED OR COVERED
- SBWW-28 EXISTING SOIL BORING LOCATION
- VOCs EXCEEDANCE
- ◆ SVOCs EXCEEDANCE
- ▼ METALS EXCEEDANCE
- PESTICIDES EXCEEDANCE



PROJECTION / DATUM:
DE83F

0 25' 50'

SCALE: 1" = 50'

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REVIEWED BY:	JPM

FIGURE 25
SOIL VOCs, SVOCs, METALS AND PESTICIDES - WASTEWATER AREA

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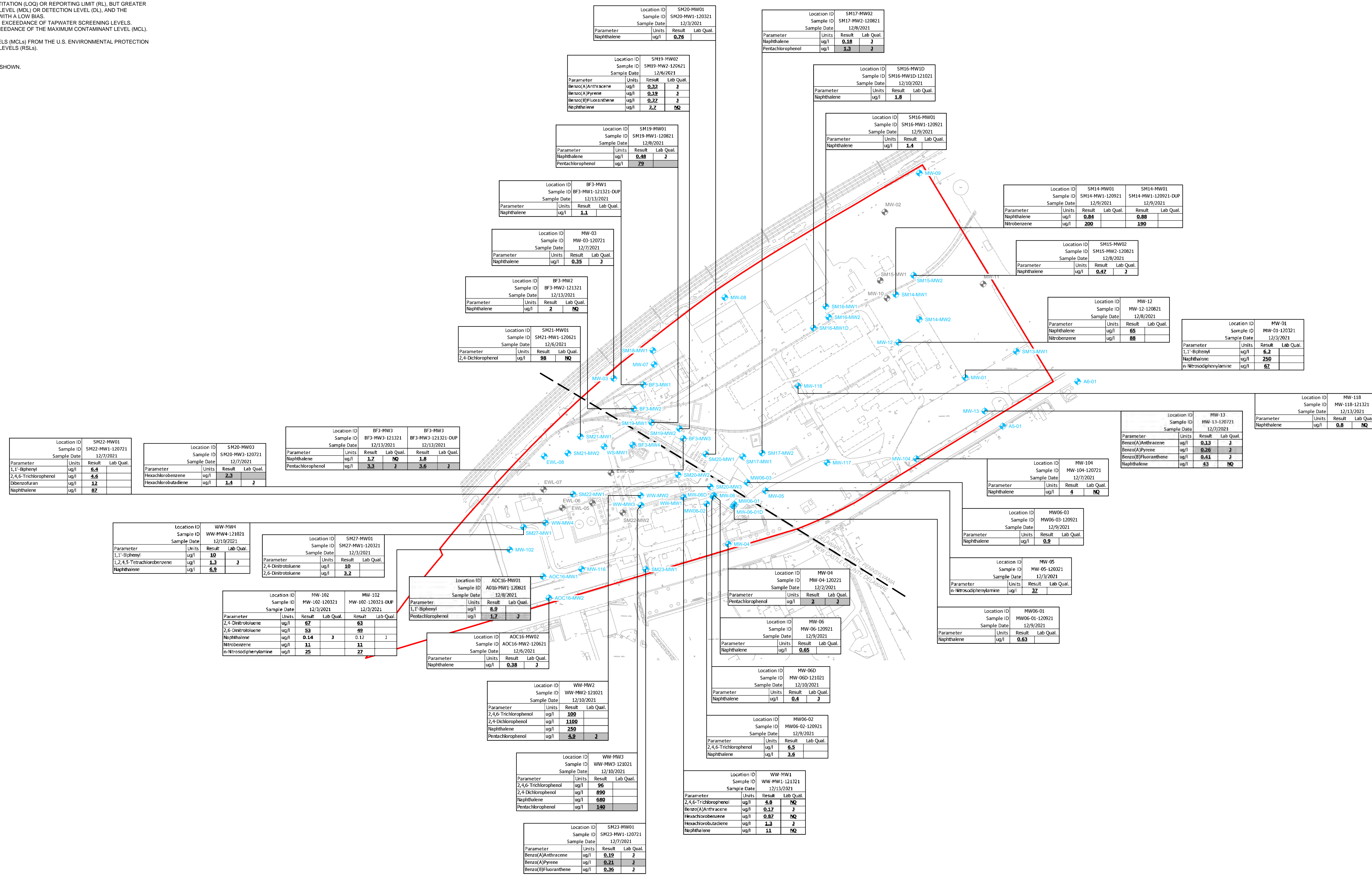
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REVISION NO.:	0
DATE:	FEBRUARY 2022

LEGEND

- BOUNDARY BETWEEN COMMONWEALTH OF PENNSYLVANIA AND STATE OF DELAWARE
- APPROXIMATE NORTH PLANT BOUNDARY
- EXISTING MONITORING WELL LOCATION
- WELL DESTROYED OR COVERED

NOTES

- J = RESULT IS LESS THAN THE REPORTING LIMIT (RL), BUT GREATER THAN OR EQUAL TO THE METHOD DETECTION LIMIT (MDL), AND THE CONCENTRATION IS AN APPROXIMATE VALUE.
- J = RESULT IS LESS THAN THE LIMIT OF QUANTIFICATION (LOQ) OR REPORTING LIMIT (RL), BUT GREATER THAN OR EQUAL TO THE METHOD DETECTION LEVEL (MDL) OR DETECTION LEVEL (DL), AND THE CONCENTRATION IS AN APPROXIMATE VALUE WITH A LOW BIAS.
- BOLD AND UNDERLINED VALUES** INDICATE AN EXCEEDANCE OF TAPWATER SCREENING LEVELS.
- BOLD AND SHADED VALUES** INDICATE AN EXCEEDANCE OF THE MAXIMUM CONTAMINANT LEVEL (MCL).
- ug/L = MICROGRAMS PER LITER.
- TAPWATER AND MAXIMUM CONTAMINANT LEVELS (MCLs) FROM THE U.S. ENVIRONMENTAL PROTECTION AGENCY (USEPA) 2019 REGIONAL SCREENING LEVELS (RSLs).
- ID = FIELD SAMPLE IDENTIFICATION.
- DUP = DUPLICATE SAMPLE.
- U = NOT DETECTED AT THE DETECTION LEVEL SHOWN.



LEGEND
BOUNDARY BETWEEN COMMONWEALTH OF PENNSYLVANIA AND STATE OF DELAWARE

- APPROXIMATE NORTH PLANT LOCATION
- EXISTING MONITORING WELL LOCATION
- WELL DESTROYED OR COVERED

NOTES
1. J = RESULT IS LESS THAN THE REPORTING LIMIT (RL), BUT GREATER THAN OR EQUAL TO THE METHOD DETECTION LIMIT (MDL), AND THE CONCENTRATION IS AN APPROXIMATE VALUE.
2. J = RESULT IS LESS THAN THE LIMIT OF QUANTIFICATION (LOQ) OR REPORTING LIMIT (RL), BUT GREATER THAN OR EQUAL TO THE METHOD DETECTION LEVEL (MDL) OR DETECTION LEVEL (DL), AND THE CONCENTRATION IS AN APPROXIMATE VALUE WITH A LOW BIAS.
3. BOLD AND UNDERLINED VALUES INDICATE AN EXCEEDANCE OF TAPWATER SCREENING LEVELS.
4. BOLD AND SHADED VALUES INDICATE AN EXCEEDANCE OF THE MAXIMUM CONTAMINANT LEVEL (MCL).
5. ug/L = MICROGRAMS PER LITER.
6. TAPWATER AND MAXIMUM CONTAMINANT LEVELS (MCLs) FROM THE U.S. ENVIRONMENTAL PROTECTION AGENCY (USEPA) 2010 REGIONAL SCREENING LEVELS (RSLs).
7. ID = FIELD SAMPLE IDENTIFICATION.
8. DUP = DUPLICATE SAMPLE.
9. U = NOT DETECTED AT THE DETECTION LEVEL SHOWN.



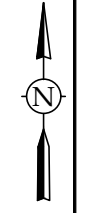
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SCALE: 1" = 200'



PREPARED BY: PJC
CHECKED BY: JPM
REVIEWED BY: JPM

FIGURE 29
GROUNDWATER PESTICIDES DATA - DWV
RCRA FACILITY INVESTIGATION REPORT
HONEYWELL DELAWARE VALLEY WORKS, CLAYMONT, DELAWARE

PROJECT NO.: 3482210786
REVISION NO.: 0
DATE: FEBRUARY 2022



Location Sample ID Sample Date	Tapwater (ug/L)	MCL (ug/L)	MW-557 MW557-SUN-120419 12/4/2019
Volatile Organic Compounds (ug/L)			
1,4-Dichlorobenzene	0.48	75	1.8
Benzene	0.46	5	1.3
Chloroform	0.22	80	0.4 J

Location Sample ID Sample Date	Tapwater (ug/L)	MCL (ug/L)	MW-48 MW48-SUN-120319 12/3/2019
Volatile Organic Compounds (ug/L)			
NE			

Location Sample ID Sample Date	Tapwater (ug/L)	MCL (ug/L)	MW-15 MW15-09-120619 12/6/2019
Volatile Organic Compounds (ug/L)			
1,2-Dichloroethane	0.17	5	0.5 J
1,2-Dichloropropane	0.85	5	4.4 J
1,4-Dichlorobenzene	0.48	75	5.8
Benzene	0.46	5	5.4
Chlorobenzene	78	100	160
Trichloroethene	0.49	5	14

Location Sample ID Sample Date	Tapwater (ug/L)	MCL (ug/L)	MW-14 MW14-09-120519 12/5/2019
Volatile Organic Compounds (ug/L)			
Chloroform	0.22	80	0.8

Location Sample ID Sample Date	Tapwater (ug/L)	MCL (ug/L)	MW-559 MW559-SUN-120419 12/4/2019
Volatile Organic Compounds (ug/L)			
1,2,4-Trichlorobenzene	1.2	70	4.2
1,4-Dichlorobenzene	0.48	75	21
Benzene	0.46	5	30
Chlorobenzene	78	100	650

Location Sample ID Sample Date	Tapwater (ug/L)	MCL (ug/L)	SM9-MW1 SM9MW1-09-120419 12/4/2019
Volatile Organic Compounds (ug/L)			
NE			

Location Sample ID Sample Date	Tapwater (ug/L)	MCL (ug/L)	MW-123D MW123D-09-120519 12/5/2019
Volatile Organic Compounds (ug/L)			
NE			

Location Sample ID Sample Date	Tapwater (ug/L)	MCL (ug/L)	SWMU9-MW1 SWMU9-MW1-09-120419 12/4/2019
Volatile Organic Compounds (ug/L)			
NE			

Location Sample ID Sample Date	Tapwater (ug/L)	MCL (ug/L)	MW-123S MW123S-09-120619 12/6/2019
Volatile Organic Compounds (ug/L)			
1,4-Dichlorobenzene	0.48	75	5.1
Benzene	0.46	5	19

Location Sample ID Sample Date	Tapwater (ug/L)	MCL (ug/L)	MW-19 MW19-09-120619 12/6/2019
Volatile Organic Compounds (ug/L)			
1,2-Dichloroethane	0.17	5	0.3 J
Benzene	0.46	5	1.8
Chloroform	0.22	80	0.5 J
Trichloroethene	0.49	5	0.8

Location Sample ID Sample Date	Tapwater (ug/L)	MCL (ug/L)	MW-560 MW560-SUN-120319 12/3/2019
Volatile Organic Compounds (ug/L)			
Chloroform	0.22	80	0.9

Location Sample ID Sample Date	Tapwater (ug/L)	MCL (ug/L)	MW-18 MW18-09-120619 12/6/2019
Volatile Organic Compounds (ug/L)			
1,4-Dichlorobenzene	0.48	75	4.2
Benzene	0.46	5	6.8
Chloroform	0.22	80	0.4 J

Location Sample ID Sample Date	Tapwater (ug/L)	MCL (ug/L)	MW-124S MW124S-09-120419 12/4/2019	DUP01 DUP01-09-120419 12/4/2019
Volatile Organic Compounds (ug/L)				
Trichloroethene	0.49	5	0.6	0.8

Location Sample ID Sample Date	Tapwater (ug/L)	MCL (ug/L)	SWMU9-MW2 SWMU9-MW2-09-120319 12/3/2019
Volatile Organic Compounds (ug/L)			
1,2-Dichloroethane	0.17	5	0.4 J
Benzene	0.46	5	7

Location Sample ID Sample Date	Tapwater (ug/L)	MCL (ug/L)	MW-124D MW124D-09-120519 12/5/2019
Volatile Organic Compounds (ug/L)			
Chloroform	0.22	80	1.7

Location Sample ID Sample Date	Tapwater (ug/L)	MCL (ug/L)	MW-16 MW16-09-120519 12/5/2019
Volatile Organic Compounds (ug/L)			
NE			

Location Sample ID Sample Date	Tapwater (ug/L)	MCL (ug/L)	MW-17 MW17-09-120619 12/6/2019
Volatile Organic Compounds (ug/L)			
Chloroform	0.22	80	0.6

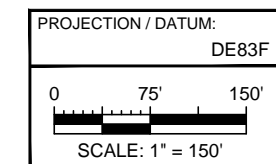
Location Sample ID Sample Date	Tapwater (ug/L)	MCL (ug/L)	MW-122 MW122-09-120519 12/5/2019	DUP02 DUP02-09-120519 12/5/2019
Volatile Organic Compounds (ug/L)				
1,2-Dichloroethane	0.17	5	0.4 J	0.4 J

I:\Projects\Honeywell - Claymont, DE\North Plant\2021 Demolition Investigation\48221078614_CAD_figures\RFI Report\Fig 30 GW VOC Data, SWMU 9.dwg Wed, 23 Feb 2022 - 6:39pm philip.camey Layout: Fig 30 GW VOC Data, SWMU 9

LEGEND

- APPROXIMATE SWMU 9 BOUNDARY
- EXISTING MONITORING WELL
- EXISTING SOIL BORING

- NOTES**
- J = RESULT IS LESS THAN THE REPORTING LIMIT (RL), BUT GREATER THAN OR EQUAL TO THE METHOD DETECTION LIMIT (MDL), AND THE CONCENTRATION IS AN APPROXIMATE VALUE.
 - BOLD VALUES** INDICATE AN EXCEEDANCE OF TAPWATER SCREENING LEVELS.
 - ITALICIZED AND SHADED VALUES* INDICATE AN EXCEEDANCE OF THE MAXIMUM CONTAMINANT LEVEL (MCL).
 - ug/L = MICROGRAMS PER LITER.
 - TAPWATER AND MAXIMUM CONTAMINANT LEVELS (MCLs) FROM THE U.S. ENVIRONMENTAL PROTECTION AGENCY (USEPA) 2019 REGIONAL SCREENING LEVELS (RSLs).
 - NE = NO EXCEEDANCE.
 - NS = NO STANDARD.
 - MW-558: LIGHT NON-AQUEOUS PHASE LIQUID (LNAPL) OBSERVED IN WELL; NO SAMPLE COLLECTED.



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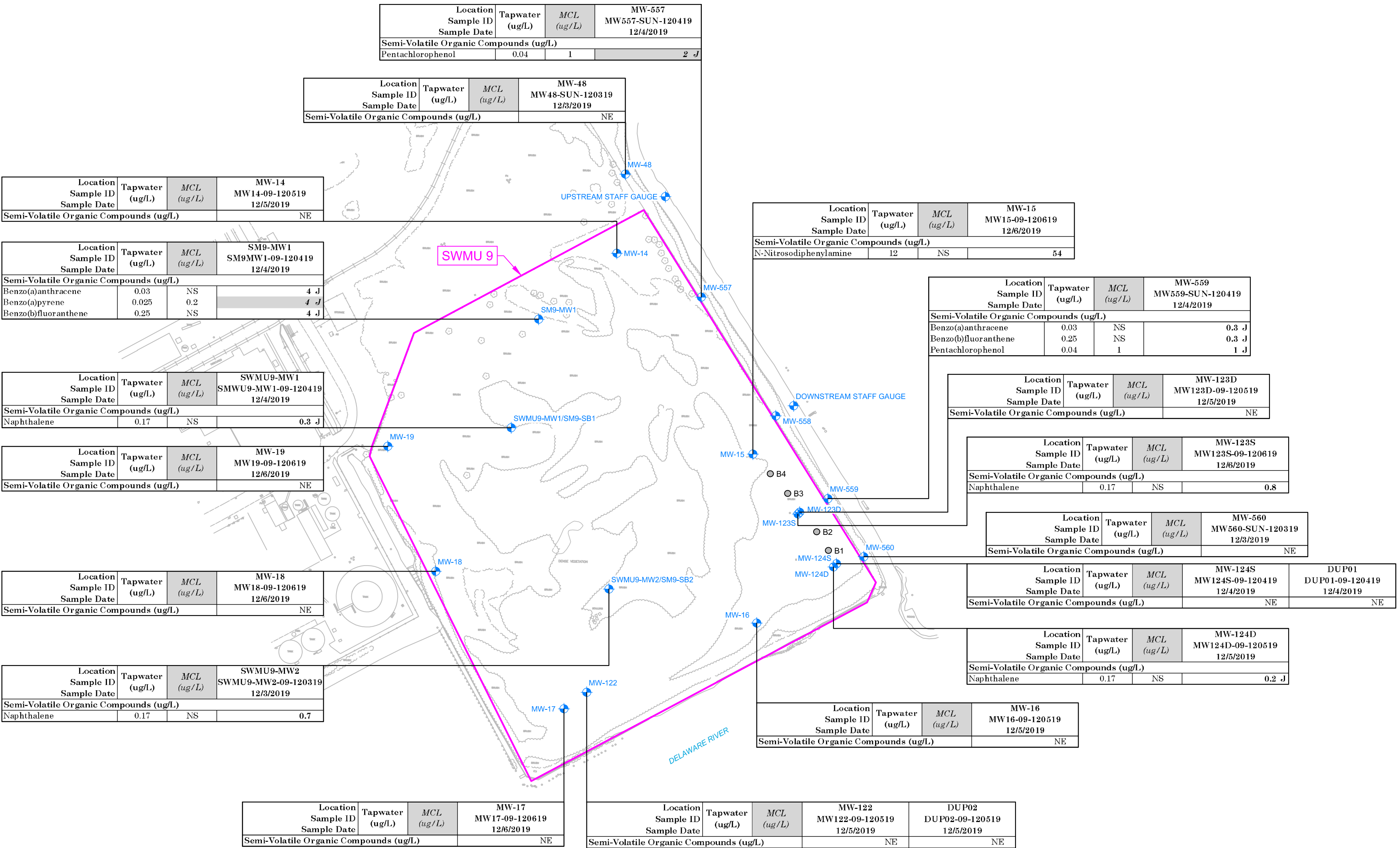
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REVIEWED BY: JPM

**FIGURE 30
GROUNDWATER VOC DATA - SWMU 9**

RCRA FACILITY INVESTIGATION REPORT
HONEYWELL DELAWARE VALLEY WORKS, CLAYMONT, DELAWARE

PROJECT NO.: 3482210786
REVISION NO.: 0
DATE: FEBRUARY 2022



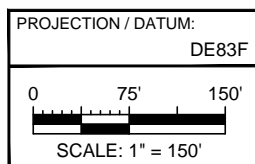
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LEGEND

- APPROXIMATE SWMU 9 BOUNDARY
- EXISTING MONITORING WELL
- EXISTING SOIL BORING

NOTES

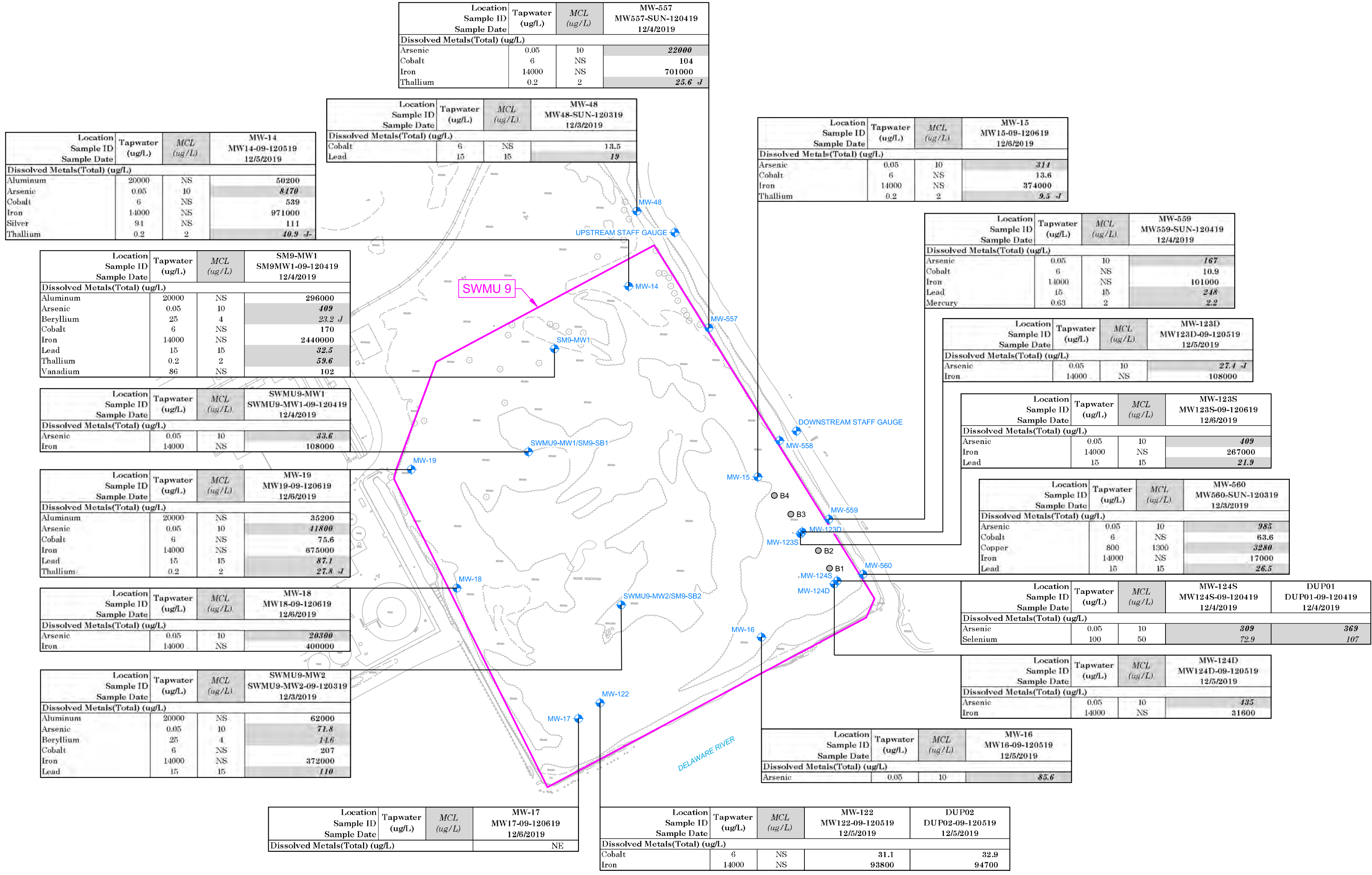
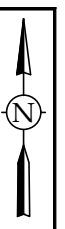
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2. **BOLD VALUES** INDICATE AN EXCEEDANCE OF TAPWATER SCREENING LEVELS.
3. **ITALICIZED AND SHADED VALUES** INDICATE AN EXCEEDANCE OF THE MAXIMUM CONTAMINANT LEVEL (MCL).
4. ug/L = MICROGRAMS PER LITER.
5. TAPWATER AND MAXIMUM CONTAMINANT LEVELS (MCLs) FROM THE U.S. ENVIRONMENTAL PROTECTION AGENCY (USEPA) 2019 REGIONAL SCREENING LEVELS (RSLs).
6. ND = NOT DETECTED.
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8. NS = NO STANDARD.
9. MW-558: LIGHT NON-AQUEOUS PHASE LIQUID (LNAPL) OBSERVED IN WELL; NO SAMPLE COLLECTED.



PREPARED BY: PJC
 CHECKED BY: JPM
 REVIEWED BY: JPM

FIGURE 31
GROUNDWATER SVOC DATA - SWMU 9
 RCRA FACILITY INVESTIGATION REPORT
 HONEYWELL DELAWARE VALLEY WORKS, CLAYMONT, DELAWARE

PROJECT NO.: 3482210786
 REVISION NO.: 0
 DATE: FEBRUARY 2022



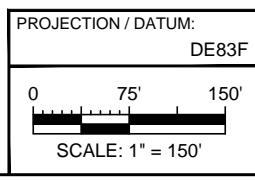
I:\Projects\Honeywell - Claymont, DE\North Plant\2021 Demolition Investigation\4482210742 and 3482210786\14 CAD Figures\RFI Report\Fig 32 GW Metals Data - SWMU 9.dwg Wed, 23 Feb 2022, 6:56pm philip.camey2 Layout: Fig 32 GW Metals Data - SWMU 9

LEGEND

- APPROXIMATE SWMU 9 BOUNDARY
- EXISTING MONITORING WELL
- EXISTING SOIL BORING

NOTES

1. J = RESULT IS LESS THAN THE REPORTING LIMIT (RL), BUT GREATER THAN OR EQUAL TO THE METHOD DETECTION LIMIT (MDL), AND THE CONCENTRATION IS AN APPROXIMATE VALUE.
2. -J = RESULT IS LESS THAN THE LIMIT OF QUANTITATION (LOQ) OR REPORTING LIMIT (RL), BUT GREATER THAN OR EQUAL TO THE METHOD DETECTION LEVEL (MDL) OR DETECTION LEVEL (DL), AND THE CONCENTRATION IS AN APPROXIMATE VALUE WITH A LOW BIAS.
3. **BOLD VALUES** INDICATE AN EXCEEDANCE OF TAPWATER SCREENING LEVELS.
4. *ITALICIZED AND SHADED VALUES* INDICATE AN EXCEEDANCE OF THE MAXIMUM CONTAMINANT LEVEL (MCL).
5. ug/L = MICROGRAMS PER LITER
6. TAPWATER AND MAXIMUM CONTAMINANT LEVELS (MCLs) FROM THE U.S. ENVIRONMENTAL PROTECTION AGENCY (USEPA) 2019 REGIONAL SCREENING LEVELS (RSLs).
7. ND = NOT DETECTED.
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9. NS = NO STANDARD.
10. MW-558: LIGHT NON-AQUEOUS PHASE LIQUID (LNAPL) OBSERVED IN WELL; NO SAMPLE COLLECTED.



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REVIEWED BY: JPM

FIGURE 32
GROUNDWATER METALS DATA - SWMU 9
RCRA FACILITY INVESTIGATION REPORT
HONEYWELL DELAWARE VALLEY WORKS, CLAYMONT, DELAWARE

PROJECT NO.: 3482210786
REVISION NO.: 0
DATE: FEBRUARY 2022



Location Sample ID	Tapwater (ug/L)	MCL (ug/L)	MW-557 MW557-SUN-120419 12/4/2019
Pesticides			
4,4'-DDD	0.032	NS	5.1 J-
4,4'-DDE	0.046	NS	1.1 J-
4,4'-DDT	0.23	NS	2.7 J-
beta-BHC	0.025	NS	14 J-
gamma-BHC (Lindane)	0.042	NS	5.8 J-

Location Sample ID	Tapwater (ug/L)	MCL (ug/L)	MW-48 MW48-SUN-120319 12/3/2019
Pesticides			
4,4'-DDD	0.032	NS	0.044 J-
alpha-BHC	0.0072	NS	0.22 J-
beta-BHC	0.025	NS	0.13 J-

Location Sample ID	Tapwater (ug/L)	MCL (ug/L)	MW-15 MW15-09-120619 12/6/2019
Pesticides			
4,4'-DDD	0.032	NS	2.0 J-
4,4'-DDE	0.046	NS	0.26 J-
alpha-BHC	0.0072	NS	4.1 J-
beta-BHC	0.025	NS	1.0 J-

Location Sample ID	Tapwater (ug/L)	MCL (ug/L)	MW-559 MW559-SUN-120419 12/4/2019
Pesticides			
4,4'-DDD	0.032	NS	22 J-
4,4'-DDE	0.046	NS	5.4 J-
4,4'-DDT	0.23	NS	15 J-
alpha-BHC	0.0072	NS	440 J-
beta-BHC	0.025	NS	45 J-
gamma-BHC (Lindane)	0.042	0.20	2.1 J-

Location Sample ID	Tapwater (ug/L)	MCL (ug/L)	MW-123D MW123D-09-120519 12/5/2019
Pesticides			
4,4'-DDD	0.032	NS	0.048 J-
alpha-BHC	0.0072	NS	0.045 J-

Location Sample ID	Tapwater (ug/L)	MCL (ug/L)	MW-123S MW123S-09-120619 12/6/2019
Pesticides			
4,4'-DDD	0.032	NS	1.3 J-
4,4'-DDE	0.046	NS	0.18 J-
4,4'-DDT	0.23	NS	0.26 J-
alpha-BHC	0.0072	NS	0.20 J-
beta-BHC	0.025	NS	0.21 J-

Location Sample ID	Tapwater (ug/L)	MCL (ug/L)	MW-560 MW560-SUN-120319 12/3/2019
Pesticides			
4,4'-DDD	0.032	NS	0.88
4,4'-DDE	0.046	NS	0.064
4,4'-DDT	0.23	NS	0.31
alpha-BHC	0.0072	NS	5.7
beta-BHC	0.025	NS	2.1
gamma-BHC (Lindane)	0.042	0.20	0.18

Location Sample ID	Tapwater (ug/L)	MCL (ug/L)	MW-124S MW124S-09-120419 12/4/2019	DUP01 DUP01-09-120419 12/4/2019
Pesticides				
4,4'-DDD	0.032	NS	0.55 J-	1.6 J-
alpha-BHC	0.0072	NS	0.14 J-	0.10 J-
beta-BHC	0.025	NS	0.14 J-	0.14 J-

Location Sample ID	Tapwater (ug/L)	MCL (ug/L)	MW-124D MW124D-09-120519 12/5/2019
Pesticides			
4,4'-DDD	0.032	NS	0.13 J-
alpha-BHC	0.0072	NS	0.059 J-
beta-BHC	0.025	NS	0.070 J-

Location Sample ID	Tapwater (ug/L)	MCL (ug/L)	MW-16 MW16-09-120519 12/5/2019
Pesticides			
4,4'-DDD	0.032	NS	0.62 J-
alpha-BHC	0.0072	NS	0.20 J-
beta-BHC	0.025	NS	0.091 J-

Location Sample ID	Tapwater (ug/L)	MCL (ug/L)	MW-122 MW122-09-120519 12/5/2019	DUP02 DUP02-09-120519 12/5/2019
Pesticides				
4,4'-DDD	0.032	NS	0.056 J-	0.052 J-
alpha-BHC	0.0072	NS	0.55 J-	0.58 J-
beta-BHC	0.025	NS	0.06 J-	0.07 J-

Location Sample ID	Tapwater (ug/L)	MCL (ug/L)	MW-17 MW17-09-120619 12/6/2019
Pesticides			
4,4'-DDD	0.032	NS	0.36 J-
alpha-BHC	0.0072	NS	0.22 J-
beta-BHC	0.025	NS	0.80 J-

Location Sample ID	Tapwater (ug/L)	MCL (ug/L)	MW-14 MW14-09-120519 12/5/2019
Pesticides			
alpha-BHC	0.0072	NS	16 J-
beta-BHC	0.025	NS	0.81 J-
gamma-BHC (Lindane)	0.042	0.20	2.8 J-

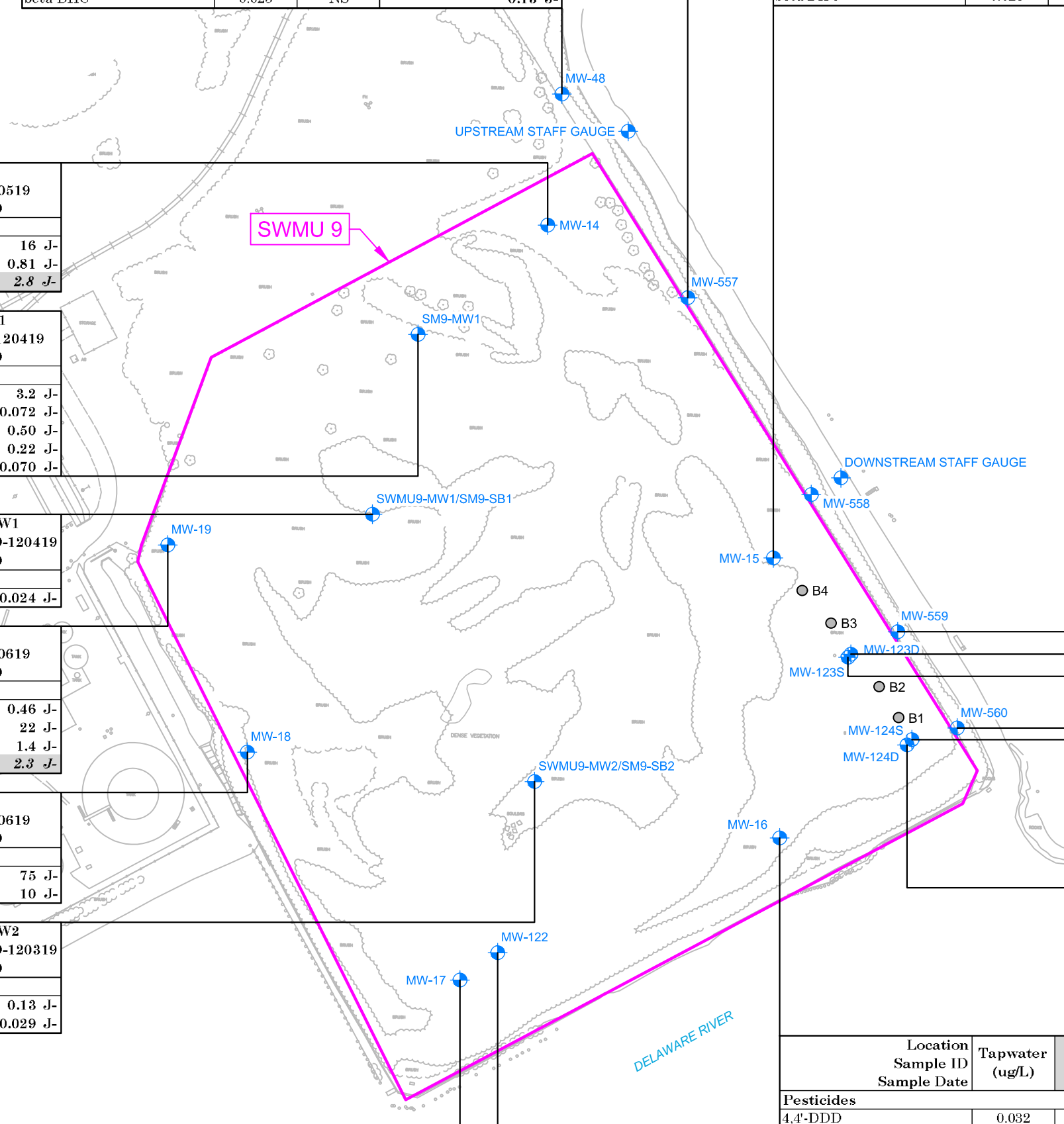
Location Sample ID	Tapwater (ug/L)	MCL (ug/L)	SM9-MW1 SM9-MW1-09-120419 12/4/2019
Pesticides			
4,4'-DDD	0.032	NS	3.2 J-
4,4'-DDE	0.046	NS	0.072 J-
4,4'-DDT	0.23	NS	0.50 J-
alpha-BHC	0.0072	NS	0.22 J-
beta-BHC	0.025	NS	0.070 J-

Location Sample ID	Tapwater (ug/L)	MCL (ug/L)	SWMU9-MW1 SWMU9-MW1-09-120419 12/4/2019
Pesticides			
alpha-BHC	0.0072	NS	0.024 J-

Location Sample ID	Tapwater (ug/L)	MCL (ug/L)	MW-19 MW19-09-120619 12/6/2019
Pesticides			
4,4'-DDD	0.032	NS	0.46 J-
alpha-BHC	0.0072	NS	22 J-
beta-BHC	0.025	NS	1.4 J-
gamma-BHC (Lindane)	0.042	0.20	2.3 J-

Location Sample ID	Tapwater (ug/L)	MCL (ug/L)	MW-18 MW18-09-120619 12/6/2019
Pesticides			
alpha-BHC	0.0072	NS	75 J-
beta-BHC	0.025	NS	10 J-

Location Sample ID	Tapwater (ug/L)	MCL (ug/L)	SWMU9-MW2 SWMU9-MW2-09-120319 12/3/2019
Pesticides			
alpha-BHC	0.0072	NS	0.13 J-
beta-BHC	0.025	NS	0.029 J-

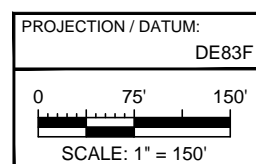


LEGEND

- APPROXIMATE SWMU 9 BOUNDARY
- EXISTING MONITORING WELL
- EXISTING SOIL BORING

NOTES

1. U = THE ANALYTE WAS ANALYZED FOR, BUT NOT DETECTED.
2. J = RESULT IS LESS THAN THE REPORTING LIMIT (RL), BUT GREATER THAN OR EQUAL TO THE METHOD DETECTION LIMIT (MDL), AND THE CONCENTRATION IS AN APPROXIMATE VALUE.
3. J- = RESULT IS LESS THAN THE LIMIT OF QUANTITATION (LOQ) OR REPORTING LIMIT (RL), BUT GREATER THAN OR EQUAL TO THE METHOD DETECTION LEVEL (MDL) OR DETECTION LEVEL (DL), AND THE CONCENTRATION IS AN APPROXIMATE VALUE WITH A LOW BIAS.
4. **BOLD VALUES** INDICATE AN EXCEEDANCE OF TAPWATER SCREENING LEVELS.
5. **ITALICIZED AND SHADED VALUES** INDICATE AN EXCEEDANCE OF THE MAXIMUM CONTAMINANT LEVEL (MCL).
6. ug/L = MICROGRAMS PER LITER.
7. TAPWATER AND MAXIMUM CONTAMINANT LEVELS (MCLs) FROM THE U.S. ENVIRONMENTAL PROTECTION AGENCY (USEPA) 2019 REGIONAL SCREENING LEVELS (RSLs).
8. NS = NO STANDARD.
9. MW-558: LIGHT NON-AQUEOUS PHASE LIQUID (LNAPL) OBSERVED IN WELL; NO SAMPLE COLLECTED.



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CHECKED BY: JPM
REVIEWED BY: JPM

FIGURE 33
GROUNDWATER PESTICIDES DATA - SWMU 9
RCRA FACILITY INVESTIGATION REPORT
HONEYWELL DELAWARE VALLEY WORKS, CLAYMONT, DELAWARE

PROJECT NO.: 3482210786
REVISION NO.: 0
DATE: FEBRUARY 2022

PLATES

APPENDICES

APPENDIX A
WORK SCOPE APPROVAL DOCUMENTS

APPENDIX B
BORING LOGS AND WELL CONSTRUCTION DIAGRAMS

APPENDIX C
IDW DISPOSAL DOCUMENTATION

APPENDIX D
DATA VALIDATION REPORTS

APPENDIX E
FATE AND TRANSPORT MODELING

APPENDIX F
HISTORICAL GROUNDWATER SUMMARY TABLES

APPENDIX G
LABORATORY ANALYTICAL REPORTS – SOIL SAMPLES

APPENDIX H
LABORATORY ANALYTICAL REPORTS – GROUNDWATER SAMPLES

APPENDIX I
LABORATORY ANALYTICAL REPORTS – DNAPL SAMPLE

APPENDIX J
CERTIFICATION

CERTIFICATION

I certify that the information contained in or accompanying this Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI) Report is true, accurate, and complete.

As to the identified portion of this Report for which I cannot personally verify its accuracy, I certify under penalty of law that this Report and all attachments were prepared in accordance with procedures designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, or the immediate supervisor of such person(s), the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fines and imprisonment for knowing violations.

Signature:  _____

Name: Prashant Gupta

Title: Remediation Manager, Honeywell International Inc.