



Groundwater Monitoring Report (July 2020)

Union Pacific Railroad Houston Wood Preserving Works Facility

Post-Closure Care Permit No HW-50343/Industrial SWR No. 31547

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1.0 INTRODUCTION

This Groundwater Monitoring Report (GMR) was prepared by Golder Associates Inc. (Golder) on behalf of Union Pacific Railroad (UPRR) to summarize the site-wide groundwater sampling activities conducted in July 2020 at the UPRR Houston Wood Preserving Works Facility (the Site) located at 4910 Liberty Road, Houston, Texas.

Details on the additional groundwater investigations, groundwater monitoring activities, groundwater elevation data and analytical results are provided in the following sections. In addition, information regarding off-site property notification in accordance with Texas Risk Reduction Program (TRRP) Rule 350.55(a) is also provided.

2.0 GROUNDWATER MONITORING ACTIVITIES

Golder, on behalf of UPRR, conducted groundwater monitoring activities at the Site and adjacent off-Site areas in July 2020. Groundwater samples were collected using low-flow sampling techniques described in the EPA guidance document Low-Flow (Minimal Drawdown) Ground Water Sampling Procedures (EPA, 1996). Each sample was analyzed for the site-specific chemical of concern (COC) list (volatile organic compounds (VOCs) by EPA Method 8260, semi-volatile organic compounds (SVOCs) by EPA Method 8270C, and arsenic by EPA Method 6020).

Prior to sampling, the depth to water and the thickness or presence of non-aqueous phase liquids (NAPL) was measured using an oil-water interface probe. The static depth to groundwater in the wells was measured from the designated surveyed measuring point with an interface probe to the nearest one hundredth of one foot (0.01 ft). The wells were then purged at a low flow rate using a peristaltic pump with dedicated tubing with the pump intake near the lower portion of the screened interval, unless dense NAPL (DNAPL) was present. Purging was accomplished in such a way as to minimize disturbance of sediments at the bottom of the well and, therefore, minimize the turbidity of the water samples. During well purging, field parameters, including specific conductance, pH, temperature, dissolved oxygen, oxidation/reduction potential (redox), and turbidity were monitored with field meters. Field meters were calibrated before sampling each day using the manufacturer's recommended procedures. Groundwater sampling records from July 2020 are provided in Attachment A.

After purging, groundwater samples were collected from the discharge of the peristaltic pump following low-flow sampling techniques. As requested by the Texas Commission on Environmental Quality (TCEQ) in a letter dated September 6, 2019 (Additional Comments to UPRR's July 10, 2019 Response to 4th TNOD), wells with detectable DNAPL were sampled during the July 2020 sampling event. For wells with DNAPL present, the pump intake was raised to at least 2 to 3 feet above the top of the measured DNAPL.

Since dedicated tubing was used in each well, no equipment rinsate sample was collected. Sampling information (i.e., sample time, bottle sets, sampler name, use of filter, etc.) was recorded on the groundwater sampling records. Groundwater samples were placed on ice in coolers and delivered to ALS Laboratory Group in Houston, Texas for analysis. The samples were analyzed in accordance with EPA protocols for the analytical methods requested.

The laboratory notified UPRR that an incorrect spike mix was used to spike samples collected at MW36A, MW44C, MW4CR, MW33A, MW70C, and a duplicate sample for VOCs analysis. The situation required re-extraction of the samples; however, the error was discovered by the laboratory outside of holding time. Therefore, Golder collected another set of samples from these wells for VOC analyses in August 2020, and that data was used as part of the evaluation.

Analytical data from the groundwater samples collected during the groundwater sampling event were reviewed for adherence to established quality assurance/quality control (QA/QC) criteria, and Data Usability Summaries (DUSs) were prepared following TCEQ publication RG-366/TRRP-13 (TCEQ, 2010) to demonstrate the quality of the laboratory analytical data and present any deviations from the established QA/QC criteria. Copies of the analytical data reports and the DUSs are provided in Attachment B. The groundwater data evaluated in this report are considered usable for the purpose of evaluating COCs in Site environmental media, to assess the affected property based on the COCs, and establish TRRP protective concentration level exceedance (PCLE) zones.

2.1 July 2020 Site-Wide Sampling Event

The July 2020 sampling event was conducted between July 14 and August 18, 2020. During the July 2020 sampling event, 128 groundwater monitoring wells were sampled from the following groundwater-bearing units (GWBUs):

- Forty-eight (48) A-TZ monitoring wells;
- Forty-eight (48) B-TZ/B-CZ monitoring wells;
- Twenty-eight (28) C-TZ monitoring wells; and
- Four (4) D-TZ monitoring wells.

As described above, monitoring wells containing detectable DNAPL were sampled during this monitoring event.

3.0 GROUNDWATER ELEVATION DATA

Groundwater elevations for the monitoring wells measured during the July 2020 sampling event are summarized on Table 1. Potentiometric surface maps for each of the four GWBUs, A-TZ, B-TZ/B-CZ, C-TZ, and D-TZ, are presented on Figures 5A-1 through and 5A-4, respectively. Groundwater flow directions are described in the following sections.

3.1 A-TZ Wells

Groundwater in the A-TZ generally flows from southwest to east-northeast across the Site at a gradient ranging from approximately 0.003 ft/ft to 0.02 ft/ft (approximate average of 0.005 ft/ft), except for groundwater flow to the southwest just south of SWMU No. 1 and a groundwater divide on the east side of the Site just west of the Lockwood Road Bridge (Figure 5A-1). As discussed in the Updated APAR Addendum (PBW, 2010), a 60-in sanitary sewer line runs north to south just west of the Lockwood Bridge and appears to intersect the A-TZ influencing groundwater flow in this area. Groundwater flow in the A-TZ flows to the east on the west side of the wastewater line and flows to the west on the east side of the wastewater line.

3.2 B-CZ/B-TZ Wells

Groundwater in the B-TZ generally flows to the east-northeast across the Site (Figure 5A-2) at gradients ranging from approximately 0.003 ft/ft to 0.04 ft/ft, with an average of approximately 0.006 ft/ft. Off-site to the north, the groundwater flow conditions in the B-TZ are variable with groundwater flow generally to the northeast.

As discussed in the Response Action Plan (RAP) (Attachment 1A - APAR Addendum, PBW, 2014), there is a lateral change in the hydrogeology of the B-TZ as it pinches out from west to east into the B-CZ clay unit, where

groundwater is encountered in very thin carbonate seams (typically less than 0.1 feet thick) within the clay unit at relatively the same elevation as the B-TZ. The B-CZ, where these thin carbonate seams are found, was classified as a Class 3 groundwater resource and was approved by the TCEQ in the 3rd TNOD letter dated April 10, 2017.

Groundwater flow in the B-CZ is variable but generally to the northeast. Groundwater potentiometric elevations from the off-site wells north of the Site indicate flow to the northeast toward MW-67B and MW-54B (Figure 5A-2).

3.3 C-TZ Wells

Groundwater flow in the C-TZ is generally to the southwest across the Site (Figure 5A-3) with a gradient approximately 0.001 ft/ft, similar to previous monitoring events. Groundwater elevations measured during the July 2020 event ranged from a high of 33.78 feet HVD (MW-44C) to a low 25.2 feet HVD (MW-25C).

3.4 D-TZ Wells

Groundwater flow in the D-TZ is generally to the southeast to northwest at the Site (Figure 5A-4) with a gradient of approximately 0.0025 ft/ft. Groundwater elevations range from a high of -35.11 feet HVD (MW-66D) to a low of -37.94 feet HVD (MW-65D).

4.0 GROUNDWATER ANALYTICAL RESULTS

Groundwater analytical data from the July 2020 sampling event were compared to the TCEQ TRRP Residential Groundwater PCLs or Residential Assessment Levels (RALs) (the lesser value between ^{GW}GW_{Ing} and ^{Air}GW_{Inh-V} PCLs), dated January 2021, assuming a 30-acre source area. Critical PCLs (cPCLs) to assess PCLE Zones were then established assuming residential or commercial/industrial (C/I) land use depending on the location of the monitoring well (i.e., data from on-site wells were compared to C/I PCLs and data from off-site wells were compared to RALs). The PCLE Zones were established based on the COC concentrations for the July 2020 sampling event. Semi-annual groundwater monitoring data from January 2009 through July 2020 is presented in the following summary tables and is used evaluate trends in COC concentrations in groundwater:

- Table 1 – Groundwater Measurements
- Table 2 – Analytical Results Summary – Class 2 Groundwater
- Table 3 – Analytical Results Summary – Class 3 Groundwater
- Table 4 - Analytical Results Summary – A-TZ Wells – VISL Comparison

The site-specific COCs identified in the RCRA Facility Investigation (RFI) Work Plan (IC, 1994) prepared for the Site were evaluated. In addition to the 34 site-specific COCs, groundwater samples from selected wells were analyzed for vinyl chloride by EPA Method 8260 and samples from the site-wide monitoring wells were analyzed for arsenic by EPA Method 6020 based on previous groundwater sampling events. Comparing the groundwater analytical data from the July 2020 groundwater sampling event to cPCLs, concentrations of 16 target COCs (plus arsenic) exceeded their respective RALs:

Volatile Organic Compounds (VOCs)

- Benzene (A-TZ, B-CZ/B-TZ, C-TZ)
- Vinyl Chloride (A-TZ)

Semi-Volatile Organic Compounds (SVOCs)

- 2,4-Dimethylphenol (A-TZ, B-TZ)
- 2,6-Dinitrotoluene (C-TZ)

Volatile Organic Compounds (VOCs)Semi-Volatile Organic Compounds (SVOCs)

- 2-Methylnaphthalene (A-TZ, B-TZ, & C-TZ)
- *Acenaphthene (B-CZ)
- Benzo(a)anthracene (A-TZ, B-CZ/B-TZ)
- Benzo(a)pyrene (A-TZ, B-CZ/B-TZ, & C-TZ)
- Dibenzofuran (A-TZ, B-CZ/B-TZ)
- *Fluoranthene (B-CZ/B-TZ)
- *Fluorene (B-CZ)
- Naphthalene (A-TZ, B-CZ/B-TZ, & C-TZ)
- Pentachlorophenol (C-TZ)
- *Phenanthrene (B-CZ/B-TZ)
- Phenol (A-TZ)
- *Pyrene (B-CZ/B-TZ)

* - COC only detected in wells with DNAPL present

As noted above, five SVOCs (acenaphthene, fluoranthene, fluorene, phenanthrene, and pyrene) were detected above RALs in samples from wells MW-12B, MW-32B, and MW-68B. Each of these wells contained measurable DNAPL during the sampling event and it is possible that some DNAPL may have become entrained in the sample thereby overestimating the dissolved concentration in the groundwater sample. For example, naphthalene was detected in the sample from MW-32B at 2,300 mg/L in July 2020, which is more than two orders of magnitude greater than the solubility of naphthalene in water of 31 mg/L (TCEQ PCL Chemical/Physical Properties Table, January 2021).

4.1 July 2020 COC Concentrations

The spatial distribution of the detected COCs exceeding RALs/cPCLs in each GWBU from the July 2020 monitoring event is presented on the following figures (provided in Attachment C):

- Figure 5B-1 for A-TZ,
- Figure 5B-2 for B-CZ/B-TZ,
- Figure 5B-3 for C-TZ, and
- Figure 5B-4 for D-TZ.

In addition to the figures listed above, individual COC concentration maps (Attachment C) for the most commonly detected groundwater COCs at the Site (primary COCs –VOC benzene, and primary SVOCs 2,4-dimethylphenol, 2-methylnaphthalene, dibenzofuran, and naphthalene) were prepared for the A-TZ, B-CZ/B-TZ, and C-TZ units at the Site using the July 2020 data, as listed below:

GWBU	A-TZ	B-CZ/B-TZ	C-TZ
COC	Figure Number		
Benzene	5B-5	5B-10	5B-15
2,4-Dimethylphenol	5B-6	5B-11	5B-16
2-Methylnaphthalene	5B-7	5B-12	5B-17
Dibenzofuran	5B-8	5B-13	5B-18
Naphthalene	5B-9	5B-14	5B-19

For each COC concentration map, a cumulative groundwater PCLE Zone based on the combined PCLE Zones for each individual COC in each GWBU is shown on the figures.

Monitoring wells in the four GWBUs were also sampled and analyzed for arsenic. Arsenic concentrations were detected above the TCEQ TRRP RAL and cPCL (Tables 2 and 3). Arsenic isopleth maps were generated for the A-TZ, B-CZ/B-TZ, and C-TZ based on the July 2020 data (Figures 5B-20 through 5B-22 in Attachment C). Details of the distribution of the COCs detected in each transmissive zone are discussed below.

4.1.1 A-TZ Wells

VOCs

During the July 2020 groundwater monitoring event, benzene and vinyl chloride concentrations were the only VOCs that were detected above their cPCL of 0.005 mg/L and 0.002 mg/L, respectively, in A-TZ wells.

Benzene concentrations detected above the RAL/cPCL were predominantly located on the eastern portion of the Site and in the northern portion of the Englewood Intermodal Yard (Figure 5B-5, Attachment C). None of the samples from off-site A-TZ wells to the north of the Site had benzene concentrations detected above the sample detection limit (SDL) during the July 2020 sampling event.

Vinyl chloride was detected above its RAL/cPCL in only one well on site (MW-18A). Vinyl chloride concentrations were below the SDL in the other nine A-TZ wells that were analyzed for vinyl chloride.

Other VOCs (i.e., chlorobenzene, ethylbenzene, toluene, and xylenes) were detected above SDLs in samples from the A-TZ wells sampled during the July 2020 sampling event; however, none of the results exceeded their respective RALs/cPCLs.

SVOCs

Similar to the benzene detections, SVOCs were detected above the applicable RALs/cPCLs in samples from A-TZ wells located generally on the eastern portion of the Site and in the northern portion of the Englewood Intermodal Yard. The primary SVOCs in the samples from the A-TZ wells above RALs/cPCLs were 2,4-dimethylphenol, 2-methylnaphthalene, dibenzofuran, and naphthalene (Figures 5B-6 through 5B-9, Attachment C). Analytical data from the July 2020 sampling event indicated that concentrations of SVOCs 2,4-dimethylphenol, 2-methylnaphthalene, dibenzofuran, and naphthalene were below their respective RALs/cPCLs in samples from the A-TZ wells to the north, east, south and west of the Site, similar to the distribution of benzene concentrations. Other SVOCs benzo(a)pyrene, benzo(a)anthracene, and phenol were also detected above the applicable RALs/cPCLs in samples from some wells (benzo(a)pyrene in MW-49A, MW-57A, and MW-78A,

benzo(a)anthracene in MW-49A and MW-78A, and phenol in MW-17). The most commonly detected SVOCs were also detected above applicable RALs/cPCLs in samples from these wells. Wells MW-57A and MW-78A are part of the bi-monthly (twice a month) DNAPL recovery activities at Site. Trace DNAPL was observed in well MW-57A in early 2019 but has not been detected since. DNAPL has consistently been detected during the bi-monthly recovery activities in well MW-78A located in the northern portion of the Englewood IM Yard.

The groundwater PCLE Zones for the primary SVOCs that exceeded their RALs/cPCLs generally fall within the benzene PCLE Zone. Similar to the benzene PCLE Zone, none of the SVOC concentrations detected in samples from the offsite A-TZ wells exceeded their respective RALs. The PCLE Zones for the individual SVOCs are within the Site boundary except to the north (along Liberty Road) and east where it extends onto the City of Houston ROW. In these areas, on-site monitoring wells indicate PCL exceedances, but the closest off-site wells to those locations do not indicate PCL exceedances.

Concentrations for the other SVOCs analyzed were either below RALs/cPCLs or below the SDL in samples from the A-TZ wells collected during the July 2020 sampling event.

Arsenic

Arsenic concentrations in samples from A-TZ wells are shown on Table 2. The arsenic concentrations in samples from A-TZ wells sampled during the July 2020 sampling event generally exceed the RAL/cPCL along the northern boundary of the Site (MW-13, MW-15A, MW-17, MW-57A, and MW-18A), offsite to the north (MW-26A, MW-32AR, MW-35A, MW-36A, MW-44A, MW-68A, MW-84A, and MW-91A), in the southwestern portion of the Site (MW-05), and in two wells in the Englewood Intermodal Yard (MW-77A and MW-98A) (Figure 5B-20, Attachment C).

As has been observed during previous sampling events, arsenic concentrations in samples from the A-TZ wells do not correlate well with the elevated concentrations of the primary COCs. Many wells with samples with elevated arsenic concentrations (exceeding the RAL) do not have concentration exceedances for other COCs, especially north of the Site. For example, arsenic concentrations were highest in samples from wells MW-26A and MW-68A in July 2020, but all other COC concentrations were below RALs in samples from these two wells (Table 2). As discussed in a response letter dated August 5, 2020 to TCEQ's Comment Letter dated July 16, 2020, the presence of arsenic concentrations in groundwater is believed to be associated with naturally-occurring arsenate species within the groundwater-bearing unit matrix that are converted to the more soluble arsenite species due to reducing conditions resulting from the degradation of petroleum hydrocarbons (i.e., creosote-related COCs) from the Site. To obtain a better understanding of the redox conditions and potential arsenic dissolution/attenuation processes in the A-TZ GWBU, the following geochemical parameters are proposed to be added to the sampling plan for A-TZ wells during the next two semi-annual sampling events to be conducted in 2021:

- Dissolved iron/manganese (electron acceptor);
- Alkalinity (to assess buffering capacity and geochemical facies);
- Sulfate (electron acceptor);
- Nitrate (electron acceptor); and
- Total organic carbon (to assess capacity for microbial processes).

Electron acceptors (ferric iron, manganic manganese, nitrate, and sulfate) provide information on redox conditions, degradation of hydrocarbons, and attenuation capacity (API, 2011). An evaluation of the geochemical parameter data will be provided in the annual groundwater monitoring report summarizing the sampling activities to be conducted in 2021.

EPA Vapor Intrusion Screening Level Evaluation

Groundwater analytical data from the July 2020 event for the off-site monitoring wells completed in the A-TZ GWBU to the north, west, and east of the Site were also compared to values developed using the U.S. Environmental Protection Agency's (EPA's) vapor intrusion screening level (VISL) calculator (EPA, 2015, EPA, 2019). The VISL calculator was used to calculate conservative, non-site specific, risk-based potential vapor intrusion (VI) screening values for the identified COCs in the A-TZ GWBU. The EPA tool calculates the COC concentration in groundwater, based on certain default conditions, at which the COC is not expected to pose an unacceptable VI risk and, as such, the COC can be eliminated from further consideration.

EPA VISL Calculator

The VISL calculator (EPA, 2019) provides a screening level based on several basic inputs, including a residential or commercial exposure scenario, target hazard quotient, target carcinogenic risk, and groundwater temperature. For this evaluation, the selected inputs were – residential scenario, hazard quotient of 0.1, carcinogenic risk of 10^{-5} (consistent with the TRRP criteria), and groundwater temperature of 25°C. Based on these inputs, the calculated groundwater screening concentrations were estimated. These values were compared to the July 2020 groundwater sample COC concentrations for the Site-specific COCs (Table 4). A summary of the VISL values relative to the maximum detected COC concentrations from the two sampling events are provided in the following table.

COC	VISL Screening Level for Elimination from Further Consideration (mg/L)	Maximum Detected COC Concentrations in Off-Site A-TZ Wells July 2020 Samples (mg/L)
1,2-Dichloroethane	0.0151	<0.0002
Benzene	0.014	0.0021 (MW-59A)
Chlorobenzene	0.041	0.00058 J (MW-35A)
Ethylbenzene	0.035	<0.0003
Methylene Chloride	0.471	<0.001
Toluene	1.92	<0.0002
Xylenes	0.0385	<0.0003
Benzo(a)anthracene	0.344	0.00014 (MW-33A)
Naphthalene	0.0174	0.00026 J (MW-32AR)
Nitrobenzene	0.715	<0.000025

EPA's VISL calculator uses a conservative default attenuation factor of 0.001 for the attenuation of vapors between the groundwater source zone and the overlying receptor. This attenuation factor is not adjusted for the more rapid attenuation of petroleum hydrocarbon vapors and is therefore likely overly conservative for these compounds. Nevertheless, as indicated above, the COC concentrations from the July 2020 off-site A-TZ GWBU wells were below the conservative EPA VISL-calculated screening levels, indicating the VI pathway from the A-TZ GWBU is incomplete.

4.1.2 B-CZ/B-TZ Wells

VOCs

During the July 2020 groundwater monitoring event, benzene was the only VOCs that was detected above its RAL/PCL of 0.005 mg/L (Class 2 groundwater PCL) in the B-TZ GWBU wells and 0.5 mg/L (Class 3 groundwater PCL) in the B-CZ GWBU wells. There are two PCLE Zones based on the benzene concentrations detected in the B-CZ/B-TZ GWBUs during the July 2020 sampling event (as shown on Figure 5B-10 (Attachment C)):

- **Main PCLE Zone:** The PCLE Zone for benzene based on land use (i.e., C/I for on-Site wells and Residential for off-Site wells) in the B-CZ/B-TZ GWBU (groundwater classification Class 3 and Class 2, respectively) encompasses the northeastern portion of the Englewood Intermodal Yard, the eastern portion of the Site, and extends off-site to the north of the Site.
- **West PCLE Zone:** The West PCLE Zone is a smaller area on the west side of the Site defined by two wells (MW-40B and MW-41B) that appears to be within the Site property boundary based on off-site monitoring wells near the Site boundary.

Other VOCs (ethylbenzene, toluene, vinyl chloride, and xylenes) were detected above SDLs in samples from the B-CZ/B-TZ GWBU wells sampled during the July 2020 sampling event; however, none of the results exceeded their respective RAL/PCL.

SVOCs

The primary SVOCs 2,4-dimethylphenol, 2-methylnaphthalene, dibenzofuran, and naphthalene were detected above their respective RAL/PCLs in samples from B-CZ/B-TZ GWBU wells that are located generally within the Main PCLE Zone as defined by the benzene PCLE exceedances. The SVOC PCLE Zone area extends from the northeastern portion of the Englewood Intermodal Yard, through the eastern portion of the Site, and off-site to the north (Figures 5B-11 through 5B-14 (Attachment C)) during the July 2020 event. The smaller West PCLE Zone area on the western portion of the Site had RAL/PCL exceedances for 2-methylnaphthalene, dibenzofuran, and naphthalene concentrations.

In addition to the primary SVOCs discussed above, other SVOCs were detected above the RAL/PCL in the July 2020 event including: acenaphthene, benzo(a)anthracene, benzo(a)pyrene, fluoranthene, fluorene, phenanthrene, and pyrene. These other SVOCs were detected in samples from wells MW-12B, MW-32B, MW-41B, MW-68B, MW-74B, and MW-75B. Except for MW-74B, DNAPL was detected in each of these B-CZ/B-TZ wells that had SVOC RAL/PCL exceedances during the July 2020 sampling event. DNAPL has not detected in Well MW-74B since the well was installed, although DNAPL was detected in the B-CZ/B-TZ interval when the well was installed in 2011.

Arsenic

Arsenic concentrations in samples from the B-TZ GWBU wells in July 2020 exceeded the Class 2 groundwater RAL (0.01 mg/L) in ten wells at the Site and in three areas: the western portion of the Site (MW-12B, MW-39B, MW-40B, MW-41B, MW-62B, TW-41B, and P-11), at one location along the northern property boundary (MW-15B), and off-site to the north (MW-68B, and MW-83B) (Figure 5B-21, Attachment C). None of the arsenic concentrations exceeded the cPCL within the Class 3 groundwater portion of the B-CZ.

Based on the groundwater data from the July 2020 sampling event, B-TZ wells on the western side of the Site had both primary COC and arsenic concentrations detected above the RAL/PCL. Arsenic concentrations are below the RAL/PCL in samples from off-site wells to the west in the B-TZ. The arsenic PCLE Zone appears to extend just off-site to the west near MW-62B (Figure 5B-21, Attachment C). Arsenic concentrations in samples from MW-62B have fluctuated above and below the RAL/PCL over the past two years. All other site-related COC concentrations were below respective RAL/PCLs in samples from MW-62B during the past two years.

Arsenic concentrations in samples from the B-TZ GWBU wells north of the Site do not correlate well with the elevated concentrations of the primary COCs. As an example, concentrations of primary COCs (benzene and SVOCs) were above RAL/PCLs in July 2020 in samples from wells on the eastern portion of the Site, where arsenic concentrations were below the arsenic RAL/PCL in that same area.

As previously discussed in Section 4.1.1, geochemical parameters (iron/manganese, alkalinity, sulfate, nitrate, and TOC) are proposed to be added to the sampling plan during the next two semi-annual sampling events in 2021 to evaluate the redox conditions and potential arsenic dissolution. An evaluation of the geochemical parameters will be provided in the annual groundwater monitoring report summarizing the sampling activities to be conducted in 2021.

4.1.3 C-TZ Wells

VOCs

Benzene was the only VOC detected above its RAL/PCL in samples from C-TZ GWBU wells during the July 2020 groundwater monitoring event. Benzene concentrations were detected above the RAL/PCL in three wells located in the northeast portion of the Site (MW-17C and MW-18C) and offsite to the north (only one well, MW-70C) (Figure 5B-15, Attachment C). DNAPL has been detected in wells MW-44C, MW-45C, and MW-46C located off-site to the northeast. However, benzene concentrations were not detected above the RAL/PCL in these three historical DNAPL wells.

Other VOCs (chlorobenzene, ethylbenzene, toluene, and xylenes) were detected above SDLs in samples from the C-TZ wells collected during the July 2020 sampling event, however, none of the results exceeded their respective RAL/PCL.

SVOCs

SVOCs were detected above the applicable RAL/PCL in samples from C-TZ wells located in the northeastern portion of the Site and offsite to the north and northeast. The primary SVOCs detected in samples from the C-TZ wells above RAL/PCLs include 2-methylnaphthalene and naphthalene (Figures 5B-17 and 5B-19, respectively, in Attachment C). The cumulative groundwater PCLE Zone for the primary SVOCs is predominately within the Site boundary except to the north (along and across Liberty Road (MW-70C)) and east where it extends onto the City of Houston ROW (MW-25C and historical DNAPL wells).

Other SVOCs (2,6-dinitrotoluene, benzo(a)pyrene, and pentachlorophenol) were detected at concentrations that exceeded their RALs/PCLs in samples from wells in the C-TZ GWBU during the July 2020 sampling event, as follows:

- The concentration of 2,6-dinitrotoluene in samples from well MW-21C was below the SDL (0.00004 mg/L) but was detected above the RAL/PCL in the field duplicate collected at MW-21C during the July 2020 sampling event (0.0021 mg/L, qualified with a J-flag). This unverified PCL exceedance will be evaluated during the next scheduled semi-annual monitoring event.
- Benzo(a)pyrene was detected above the RAL/PCL in samples from wells MW-23C, MW-25C, MW-44C, MW-45C, and MW-46C. As previously mentioned, DNAPL was historically observed in wells MW-23C, MW-44C, MW-45C, and MW-46C.
- Pentachlorophenol was detected above the RAL/PCL in a sample from well MW-18C in July 2020.

Except for the unverified 2,6-dinitrotoluene concentration in on-site MW-21C, the PCLE Zones for these additional SVOCs are within the benzene and primary SVOC PCLE Zones discussed above.

Arsenic

Arsenic was detected above the RAL/PCL in only one sample collected from the C-TZ wells collected during the July 2020 sampling event. The sample was from well MW-85C located within the Englewood IM Yard. Arsenic had not been detected above the RAL/PCL in samples from well MW-85C since its installation in 2018; therefore, MW-85C was resampled to verify the arsenic concentration in October 2020. The arsenic concentration in the sample collected from MW-85C in October 2020 was also detected above the RAL. The measured turbidity of the groundwater from MW-85C was over 50 NTU during the resampling event. Given the relatively high turbidity measurement, Golder, on behalf of UPRR, will redevelop MW-85C to remove fine grained sediment from the vicinity of the well screen before the January 2021 site-wide sampling event. After redevelopment, groundwater samples will be collected as part of the January 2021 sampling event to evaluate the arsenic concentrations in samples from well MW-85C. No other COCs were detected above RALs/PCLs in samples from well MW-85C in the July 2020 event.

4.1.4 D-TZ Wells

VOCs

In the July 2020 event, no VOCs were detected above RALs/PCLs in samples from D-TZ wells. All VOCs were detected below their respective SDLs.

SVOCs

No SVOCs were detected above RALs/PCLs in samples collected during the July 2020 event from D-TZ wells. SVOCs were either detected below the SDL or detected (largely J-flagged) at concentrations that were multiple orders of magnitude below their respective RALs/PCLs.

Arsenic

Arsenic was detected above the RAL/PCL in one D-TZ groundwater sample collected at MW-66D during the July 2020 sampling event. Arsenic had not been detected above the RAL/PCL in samples from MW-66D since the addition of arsenic to the sampling program in 2018. To verify the arsenic concentration, MW-66D was resampled in October 2020. The arsenic concentration in the sample collected from MW-66D in October 2020 was also detected above the RAL/PCL. The measured turbidity of the groundwater from MW-66D was over 400 NTU during the resampling event. Given the relatively high turbidity measurement, Golder, on behalf of UPRR, will

redevelop MW-66D to remove fine grained sediment from the vicinity of the well screen before the January 2021 site-wide sampling event. After redevelopment, groundwater samples will be collected as part of the January 2021 sampling event to evaluate the arsenic concentrations in samples from well MW-66D. No other COCs were detected above the RAL/PCL in samples from well MW-66D in the July 2020 event.

4.2 COC Concentration Trends

Golder conducted a preliminary trend analysis using the Mann-Kendall trend test of the primary COC concentrations from groundwater samples from monitoring wells in each GWBU from 2009 (or from date of installation) to 2020 with at least four sampling events, including samples collected from wells containing detectable DNAPL. The Mann-Kendall test is a nonparametric method (i.e., it does not require a distributional assumption of the data) to test for an increasing or decreasing linear trend over time. The Mann-Kendall test also does not require special treatment for non-detects, other than non-detects should be set to a common value lower than any of the detected concentrations (EPA, 2009 p.8-32). The Mann-Kendall test was performed for each well with at least one detection of a primary COC. Any COC and well with all concentrations below detection limits during all sampling events is indicated with an “ND” on Table D-1 in Attachment D. Monitoring wells with fewer than four sampling events were not tested.

The Mann-Kendall trend tests were performed using the statistical software R© (The R© Foundation, 2020) and the EnvStats package (Package ‘EnvStats’, 2020). Mann-Kendall test results with a p-value less than an error rate of $\alpha=0.05$ (i.e., 95% level of confidence) indicate a statistically significant increasing or decreasing trend. Results with a p-value greater than 0.05 but less than 0.1 indicate a “probably” increasing or “probably” decreasing trend. Mann-Kendall test results with a p-value greater than 0.10 indicate either a “stable” trend or “no trend”. A “stable” trend occurred when data from a COC and well had a coefficient of variation less than 1, appeared to follow a decreasing trend (when the Mann-Kendall test statistic was negative), and had a p-value from the Mann-Kendall test greater than 0.10. In all other cases when the p-value from the Mann-Kendall test was greater than 0.10, the COC and well was considered to have “no trend”.

The results of the Mann-Kendall analysis for each well evaluated are provided in Attachment D. The Mann-Kendall test results generally indicated that primary COC concentrations are either stable, decreasing, probably decreasing, or exhibit no trend in samples from most of the monitoring wells at the Site. The Mann-Kendall test results identified some wells and COCs as probably increasing or increasing where recent analytical results were either just above the SDL or J-flagged as estimated (value was between the SDL and method detection level (MDL)). In each case, the recent COC detections were orders of magnitude below the applicable cPCL for the COC. This included the following nine wells and COCs:

- A-TZ well MW-13 (2,4-dimethylphenol),
- B-TZ wells MW-33BR (2,4-dimethylphenol), MW-35B (2,4-dimethylphenol), MW-36B (2-methylnaphthalene and naphthalene), MW-38B (dibenzofuran), MW-81B (2-methylnaphthalene, 2,4-dimethylphenol, and naphthalene), MW-83B (2,4-dimethylphenol), and
- C-TZ wells MW-21C (dibenzofuran), MW-25C (2,4-dimethylphenol), MW-51C (2,4-dimethylphenol and dibenzofuran), and MW-53C (dibenzofuran).

Except for the wells and COCs listed above, the following Mann-Kendall test results preliminarily indicate an increasing/probably increasing trend for certain primary COC concentrations in samples from selected monitoring wells for the separate GBUs:

A-TZ:

- No A-TZ monitoring wells indicated a probably increasing or increasing trend except for what was previously noted for MW-13.

B-CZ/B-TZ:

- **TW-41B:** Results indicate an increasing trend in benzene, 2-methylnaphthalene, dibenzofuran, and naphthalene in samples from on-site well TW-41B. Test well TW-41B is located approximately 165 feet from DNAPL recovery well MW-41B and approximately 220 feet from DNAPL well MW-12B. MW-12B and MW-41B have had DNAPL thicknesses up to 26 feet and 15 feet, respectively. Primary COC concentrations in samples from TW-41B have been below applicable cPCLs since installation.
- Wells with DNAPL present during sampling activities in July 2020 and indicating probably increasing or increasing trends:
 - **MW-32B:** Results indicate a probably increasing trend in naphthalene concentrations in samples from well MW-32B.
 - **MW-49B:** Results indicate an increasing trend in benzene, 2,4-dimethylphenol, 2-methylnaphthalene, dibenzofuran, and naphthalene concentrations in samples from on-site well MW-49B.
 - **MW-70B:** Results indicate an increasing trend in 2-methylnaphthalene in samples from off-site well MW-70B. No trend was determined for the other primary COCs in samples from well MW-70B.

C-TZ:

- **MW-19C:** Results indicate a probably increasing trend in benzene concentrations in samples from on-site well MW-19C. Even though the evaluation indicated a probably increasing trend, benzene concentrations in samples from MW-19C (0.00058J mg/L in July 2020) have been below the applicable cPCL (0.005 mg/L) since 2010.

Of the 95 wells evaluated, samples from five wells listed above showed a probably increasing or increasing trend in primary COC concentrations (not counting the nine wells previously discussed with low-level or J-flagged results). Of the five wells, three wells had DNAPL present in the wells when sampled in July 2020. The other two wells of the five included MW-19C and TW-41B. At well MW-19, recent benzene detections have been below the cPCL. At well TW-41B, the increasing trends indicated for COCs benzene, 2-methylnaphthalene, dibenzofuran, and naphthalene may be due to proximity to DNAPL wells MW-12B and MW-41B.

5.0 CONCLUSIONS

The following conclusions were made for each GWBU based on the groundwater sampling analytical results from the site-wide event conducted in July 2020:

- **A-TZ:**
 - The combined PCLE Zone in the A-TZ GWBU is within the Site boundary except to the north (along Liberty Road) and east where it extends onto the City of Houston ROW.
 - Arsenic concentrations in samples from the A-TZ GWBU wells do not correlate well with the elevated concentrations of the primary COCs in samples from the A-TZ GWBU wells and are

- likely associated with naturally-occurring arsenic mobilizing under reducing conditions caused by the natural degradation of petroleum hydrocarbons. An evaluation of geochemical parameters related to the redox conditions and potential arsenic dissolution/ attenuation processes will be provided in the annual groundwater monitoring report summarizing the sampling activities to be conducted in 2021.
- Site-specific COC concentrations detected in samples from the off-site A-TZ GWBU wells during the July 2020 sampling event were below the conservative EPA VISL-calculated screening levels, indicating the off-site VI pathway from groundwater is incomplete.
 - None of the COCs detected in the A-TZ wells had significant probably increasing or increasing trends beyond slight changes near the SDL.
- **B-CZ/B-TZ:**
 - The cumulative PCLE Zone based on land use (i.e., C/I for on-Site wells and Residential for off-Site wells) in the B-CZ/B-TZ GWBU (i.e., Class 3 and 2 groundwater, respectively) for the July 2020 event encompasses the northeastern portion of the Englewood Intermodal Yard, the eastern portion of the Site, and extends off-site to the north of the Site (referred to as the “Main” PCLE Zone). The PCLE Zone for the smaller area on the west side of the Site is within the Site property boundary (referred to as the “West” PCLE Zone).
 - Regarding arsenic concentrations, an evaluation of geochemical parameters related to the redox conditions and potential arsenic dissolution/ attenuation processes will be provided in the annual groundwater monitoring report summarizing the sampling activities to be conducted in 2021.
 - Three out of four wells completed in the B-CZ/B-TZ indicating probably increasing or increasing trends beyond slight changes near SDL had DNAPL historically or currently present. Primary COC concentrations in samples from TW-41B indicated increasing trends but have all been below applicable cPCLs since installation.
 - **C-TZ:**
 - The combined PCLE Zone in the C-TZ is in the northeast portion of the Site and extends offsite to the north and to the east onto the City of Houston ROW.
 - Arsenic was detected at a concentration above the RAL/PCL in the samples from well MW-85C in the July 2020 event and in the October 2020 event. Well MW-85C will be re-developed and sampled as part of the January 2021 sampling event. Arsenic was not detected above the RAL/PCL in any of the samples from the other C-TZ wells during the July 2020 sampling events.
 - Well MW-19C showed an increasing trend for benzene concentrations; however, the benzene concentrations have been below the cPCL since 2010. None of the COCs detected in the other C-TZ wells had significant probably increasing or increasing trends beyond slight changes near the SDL.
 - **D-TZ:**
 - No site-specific VOC or SVOC was detected at a concentration above RALs/PCLs in samples from D-TZ wells.
 - Arsenic was detected above the RAL/PCL in the sample from well MW-66D in the July 2020 event and October 2020 event. Well MW-66D will be re-developed and sampled as part of the January 2021 sampling event. Arsenic was not detected above the RAL/PCL in samples from any of the other D-TZ wells in the July 2020 event.

6.0 NOTIFICATIONS

With the additional groundwater data collected in the July 2020 event being submitted to the TCEQ in this GMR, property owners where the groundwater PCLE Zone extends off-site onto property not owned by UPRR and off-site onto the City of Houston property will be notified of the availability of information related to the groundwater monitoring at the Site as required under 30 Texas Administrative Code §350.55(b). Harris County Appraisal District (HCAD) records were utilized to identify record owners of off-site properties for notification as reflected in Attachment E.

7.0 REFERENCES

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TABLES

Table 1
GROUNDWATER MEASUREMENTS
Houston, TX - Wood Preserving Works

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Depth to DNAPL (ft BTOC)	DNAPL Thickness (ft)	GW Elevation (ft)
MW-01A	47.92	9/2/1993	6.96			40.99
	47.92	12/21/1993	3.28			44.67
	47.92	3/24/1994	3.95			44
	47.92	6/22/1994	5.30			42.65
	47.92	9/28/1994	7.10			40.85
	47.92	10/13/1994	7.26			40.69
	47.92	1/24/1995	2.63			45.32
	47.92	4/11/1995	2.61			45.34
	47.92	7/11/1995	4.78			43.17
	47.92	1/23/1996	5.67			42.28
	47.92	7/19/1996	7.84			40.11
	47.92	9/17/1996	8.33			39.62
	47.92	10/31/1996	6.90			41.05
	47.92	11/22/1996	8.63			39.32
	47.92	12/27/1996	5.50			42.45
	47.92	1/22/1997	3.41			44.54
	47.92	2/21/1997	2.68			45.27
	47.92	3/25/1997	2.96			44.99
	47.92	4/23/1997	4.27			43.68
	47.92	4/24/1997	4.47			43.48
	47.92	5/13/1997	2.91			45.04
	47.92	6/20/1997	4.88			43.07
	47.92	6/25/1997	2.59			45.36
	47.92	7/1/1997	4.04			43.91
	47.92	7/24/1997	6.80			41.15
	47.92	8/16/1997	7.84			40.11
	47.92	8/22/1997	9.52			38.43
	47.92	9/25/1997	6.02			41.93
	47.92	10/22/1997	4.89			43.06
	47.92	11/25/1997	4.88			43.07
	47.92	12/19/1997	4.26			43.69
	47.92	1/20/1998	3.10			44.85
	47.92	3/3/1998	2.87			45.08
	47.92	3/18/1998	2.68			45.27
	47.92	4/24/1998	6.73			41.22
	47.92	5/21/1998	6.89			41.06
	47.92	7/30/1998	7.96			39.99
	47.92	8/25/1998	6.87			41.08
	47.92	9/21/1998	4.70			43.25
	47.92	10/26/1998	5.98			41.97
	47.92	11/23/1998	4.11			43.84
	47.92	1/29/1999	3.01			44.94
	47.92	2/26/1999	3.20			44.75
	47.92	3/16/1999	3.71			44.24
	47.92	4/29/1999	3.93			44.02
	47.92	6/1/1999	3.98			43.97
	47.92	7/30/1999	4.31			43.64
	47.92	8/27/1999	4.11			43.84
	47.92	9/27/1999	9.67			38.28
	47.92	10/29/1999	10.67			37.28
	47.92	12/29/1999	10.00			37.95
	47.92	2/4/2000	12.71			35.24
	47.92	2/25/2000	9.10			38.85
	47.92	3/27/2000	7.38			40.57
	47.92	4/7/2000	7.00			40.95
	47.92	5/31/2000	7.15			40.8
	47.92	6/1/2000	7.00			40.95
	47.92	7/28/2000	7.11			40.84
	47.92	8/30/2000	10.33			37.62
	47.92	9/19/2000	11.56			36.39
	47.92	10/27/2000	9.01			38.94
	47.92	11/21/2000	8.49			39.46
	47.92	5/1/2001	6.60			41.35
	47.92	10/1/2001	6.85			41.1
	47.92	3/11/2002	3.31			44.64
	47.92	9/23/2002	3.23			44.72
	47.92	3/10/2003	2.48			45.44
	47.92	9/23/2003	4.29			43.63
	47.92	3/15/2004	3.49			44.43
	47.92	9/13/2004	8.26			39.66
	47.92	7/18/2005	3.73			44.19

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Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Depth to DNAPL (ft BTOC)	DNAPL Thickness (ft)	GW Elevation (ft)
MW-01A	47.92	1/4/2006	8.54			39.38
	47.92	7/27/2006	3.10			44.82
	47.92	1/23/2007	2.26			45.66
	47.92	3/7/2007	2.36			45.56
	47.92	7/27/2007	4.05			43.87
	47.92	1/28/2008	2.51			45.41
	47.92	7/16/2008	7.21			40.71
	47.92	1/22/2009	6.21			41.71
	47.92	7/22/2009	6.96			40.96
	47.92	1/8/2010	3.07			44.85
	47.92	7/12/2010	3.87			44.05
	47.88	1/12/2011	3.63			44.25
	47.88	7/13/2011	9.94			37.94
	47.88	1/27/2012	3.19			44.69
	47.88	7/10/2013	9.96			37.92
	47.88	1/8/2014	5.21			42.67
	47.88	7/2/2014	6.81			41.07
	47.88	1/7/2015	2.36			45.52
	47.88	8/10/2015	4.11			43.77
	47.90	1/12/2016	2.49			45.41
	47.90	7/7/2016	5.42			42.48
	47.90	1/12/2017	4.29			43.61
	47.90	7/12/2017	6.19			41.71
	47.90	1/3/2018	6.47			41.43
	47.90	7/18/2018	5.88			42.02
	47.90	1/3/2019	5.96			41.94
47.90	7/1/2019	2.85			45.05	
47.90	1/14/2020	2.71			45.19	
47.90	7/8/2020	5.34			42.56	
MW-02	47.97	9/2/1993	7.45			40.58
	47.97	12/21/1993	2.58			45.45
	47.97	3/24/1994	4.08			43.95
	47.97	6/22/1994	5.85			42.18
	47.97	9/28/1994	7.05			40.98
	47.97	10/13/1994	7.69			40.34
	47.97	1/24/1995	2.12			45.91
	47.97	4/11/1995	2.53			45.5
	47.97	7/11/1995	5.34			42.69
	47.97	1/23/1996	5.69			42.34
	47.97	7/19/1996	8.28			39.75
	47.97	9/17/1996	8.84			39.19
	47.97	10/31/1996	7.11			40.92
	47.97	11/22/1996	8.99			39.04
	47.97	12/27/1996	5.42			42.61
	47.97	1/22/1997	3.08			44.95
	47.97	2/21/1997	2.60			45.43
	47.97	3/25/1997	2.98			45.05
	47.97	4/23/1997	4.60			43.43
	47.97	4/24/1997	4.78			43.25
	47.97	5/13/1997	2.89			45.14
	47.97	6/20/1997	5.45			42.58
	47.97	6/25/1997	2.59			45.44
	47.97	7/1/1997	4.48			43.55
	47.97	7/24/1997	7.42			40.61
	47.97	8/16/1997	8.42			39.61
	47.97	8/22/1997	9.20			38.83
	47.97	9/25/1997	4.53			43.5
	47.97	10/22/1997	4.95			43.08
	47.97	11/25/1997	4.97			43.06
	47.97	12/19/1997	4.33			43.7
	47.97	1/20/1998	3.05			44.98
	47.97	3/3/1998	2.88			45.15
	47.97	3/18/1998	2.66			45.37
	47.97	4/24/1998	7.09			40.94
	47.97	5/21/1998	7.00			41.03
	47.97	7/30/1998	8.11			39.92
	47.97	8/25/1998	7.33			40.7
	47.97	9/21/1998	4.18			43.85
	47.97	10/26/1998	6.85			41.18
47.97	11/23/1998	4.63			43.4	
47.97	1/29/1999	3.51			44.52	

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Houston, TX - Wood Preserving Works

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Depth to DNAPL (ft BTOC)	DNAPL Thickness (ft)	GW Elevation (ft)
MW-02	47.97	2/26/1999	3.61			44.42
	47.97	3/16/1999	3.55			44.48
	47.97	4/29/1999	3.76			44.27
	47.97	6/1/1999	3.76			44.27
	47.97	7/30/1999	4.61			43.42
	47.97	8/27/1999	3.96			44.07
	47.97	9/27/1999	10.12			37.91
	47.97	10/29/1999	11.33			36.7
	47.97	12/29/1999	10.66			37.37
	47.97	2/4/2000	13.19			34.84
	47.97	2/25/2000	9.57			38.46
	47.97	3/27/2000	7.73			40.3
	47.97	4/7/2000	7.30			40.73
	47.97	5/31/2000	7.33			40.7
	47.97	6/1/2000	7.31			40.72
	47.97	7/28/2000	7.35			40.68
	47.97	8/30/2000	10.55			37.48
	47.97	9/19/2000	11.93			36.1
	47.97	10/27/2000	9.04			38.99
	47.97	11/21/2000	8.66			39.37
	47.97	5/1/2001	6.91			41.12
	47.97	10/1/2001	8.22			39.81
	47.97	3/11/2002	3.33			44.7
	47.97	9/23/2002	3.16			44.87
	47.97	3/10/2003	2.54			45.43
	47.97	9/23/2003	3.29			44.68
	47.97	3/15/2004	2.87			45.1
	47.97	9/13/2004	8.71			39.26
	47.97	7/18/2005	2.98			44.99
	47.97	1/4/2006	8.77			39.2
	47.97	7/27/2006	2.87			45.1
	47.97	1/23/2007	2.34			45.63
	47.97	3/7/2007	2.23			45.74
	47.97	7/27/2007	4.40			43.57
	47.97	1/28/2008	2.42			45.55
	47.97	7/16/2008	7.72			40.25
	47.97	1/22/2009	6.31			41.66
	47.97	7/22/2009	7.56			40.41
	47.97	1/8/2010	3.91			44.06
	47.97	7/12/2010	4.37			43.6
	48.00	1/12/2011	3.63			44.37
	48.00	7/13/2011	10.28			37.72
	48.00	1/27/2012	2.67			45.33
	48.00	7/10/2013	10.58			37.42
	48.00	1/8/2014	5.47			42.53
	48.00	7/2/2014	7.51			40.49
	48.00	1/7/2015	2.41			45.59
48.00	8/10/2015	4.96			43.04	
47.89	1/12/2016	2.91			44.98	
47.89	7/7/2016	6.12			41.77	
47.89	1/12/2017	4.62			43.27	
47.89	7/12/2017	6.82			41.07	
47.89	1/3/2018	6.87			41.02	
47.89	7/18/2018	6.62				
47.89	1/3/2019	6.31			41.58	
47.89	7/1/2019	3.09				
47.89	1/14/2020	2.42			45.47	
47.89	7/8/2020	5.79			42.10	
MW-03	48.34	9/2/1993	8.17			40.17
	48.34	12/21/1993	3.81			44.53
	48.34	3/24/1994	4.74			43.6
	48.34	6/22/1994	6.35			41.99
	48.34	9/28/1994	7.56			40.78
	48.34	10/13/1994	8.21			40.13
	48.34	1/24/1995	3.18			45.16
	48.34	4/11/1995	3.22			45.12
	48.34	7/11/1995	7.90			40.44
	48.34	1/23/1996	6.27			42.07
	48.34	7/19/1996	8.77			39.57
	48.34	9/17/1996	9.31			39.03
	48.34	10/31/1996	7.61			40.73

Table 1
GROUNDWATER MEASUREMENTS
Houston, TX - Wood Preserving Works

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Depth to DNAPL (ft BTOC)	DNAPL Thickness (ft)	GW Elevation (ft)
MW-03	48.34	11/22/1996	9.48			38.86
	48.34	12/27/1996	6.14			42.2
	48.34	1/22/1997	5.68			42.66
	48.34	2/21/1997	3.13			45.21
	48.34	3/25/1997	3.48			44.86
	48.34	4/23/1997	5.17			43.17
	48.34	4/24/1997	5.25			43.09
	48.34	5/13/1997	3.41			44.93
	48.34	6/20/1997	5.91			42.43
	48.34	6/25/1997	3.11			45.23
	48.34	7/1/1997	4.91			43.43
	48.34	7/24/1997	7.90			40.44
	48.34	8/16/1997	8.91			39.43
	48.34	8/22/1997	9.65			38.69
	48.34	9/25/1997	6.96			41.38
	48.34	10/22/1997	5.50			42.84
	48.34	11/25/1997	5.55			42.79
	48.34	12/19/1997	5.10			43.24
	48.34	1/20/1998	3.58			44.76
	48.34	3/3/1998	3.37			44.97
	48.34	3/18/1998	3.16			45.18
	48.34	4/24/1998	7.54			40.8
	48.34	5/21/1998	7.50			40.84
	48.34	7/30/1998	8.44			39.9
	48.34	8/25/1998	7.56			40.78
	48.34	9/21/1998	5.28			43.06
	48.34	10/26/1998	6.96			41.38
	48.34	11/23/1998	5.11			43.23
	48.34	1/29/1999	4.21			44.13
	48.34	2/26/1999	4.32			44.02
	48.34	3/16/1999	4.16			44.18
	48.34	4/29/1999	4.33			44.01
	48.34	6/1/1999	4.39			43.95
	48.34	7/30/1999	5.88			42.46
	48.34	8/27/1999	4.57			43.77
	48.34	9/27/1999	10.48			37.86
	48.34	10/29/1999	11.61			36.73
	48.34	12/29/1999	10.11			38.23
	48.34	2/4/2000	13.22			35.12
	48.34	2/25/2000	9.14			39.2
	48.34	3/27/2000	8.06			40.28
	48.34	4/7/2000	7.64			40.7
	48.34	5/31/2000	7.70			40.64
	48.34	6/1/2000	7.66			40.68
	48.34	7/28/2000	7.71			40.63
	48.34	8/30/2000	10.59			37.75
	48.34	9/19/2000	12.29			36.05
	48.34	10/27/2000	9.09			39.25
	48.34	11/21/2000	9.11			39.23
	48.34	5/1/2001	7.26			41.08
	48.34	10/1/2001	7.57			40.77
	48.34	3/11/2002	7.40			40.94
	48.34	9/23/2002	4.60			43.74
	48.34	3/10/2003	2.89			45.45
	48.34	9/23/2003	3.74			44.6
	48.34	3/15/2004	3.27			45.07
	48.34	9/13/2004	9.03			39.31
	48.34	7/18/2005	3.94			44.4
	48.34	1/4/2006	9.13			39.21
	48.34	7/27/2006	3.30			45.04
	48.34	3/7/2007	2.62			45.72
	48.34	7/27/2007	3.74			44.6
	48.34	1/30/2008	2.85			45.49
	48.34	7/16/2008	7.96			40.38
	48.34	2/4/2009	7.18			41.16
	48.34	7/24/2009	7.63			40.71
	48.34	1/8/2010	5.06			43.28
	48.34	7/12/2010	3.86			44.48
	48.34	1/12/2011	3.71			44.63
	48.34	7/12/2011	6.42			41.92
	48.34	1/26/2012	--			

Table 1
GROUNDWATER MEASUREMENTS
Houston, TX - Wood Preserving Works

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Depth to DNAPL (ft BTOC)	DNAPL Thickness (ft)	GW Elevation (ft)
MW-03	48.34	7/9/2012	4.06			44.28
	48.34	1/7/2013	5.09			43.25
	48.34	7/22/2013	8.24			40.1
	48.34	1/7/2014	8.09			40.25
	48.34	7/15/2014	8.78			39.56
	48.34	1/5/2015	7.06			41.28
	48.34	2/11/2018	5.29			43.05
	48.34	3/11/2018	5.72			42.62
	48.34	5/14/2018	5.61			42.73
	48.34	7/2/2018	5.93			42.41
	48.34	1/3/2019	5.03			43.31
	48.34	7/9/2019	5.57			42.77
	48.34	1/8/2020	3.06			45.28
	48.34	7/8/2020	6.08			42.26
MW-04	49.85	9/2/1993	8.57			41.28
	49.85	12/21/1993	5.42			44.43
	49.85	3/24/1994	5.85			44
	49.85	6/22/1994	6.77			43.08
	49.85	9/28/1994	8.18			41.67
	49.85	10/13/1994	8.93			40.92
	49.85	1/24/1995	4.72			45.13
	49.85	4/11/1995	4.57			45.28
	49.85	7/11/1995	6.47			43.38
	49.85	1/23/1996	7.85			42
	49.85	7/19/1996	9.62			40.23
	49.85	9/17/1996	10.09			39.76
	49.85	10/31/1996	7.93			41.92
	49.85	11/22/1996	10.62			39.23
	49.85	12/27/1996	8.06			41.79
	49.85	1/22/1997	6.07			43.78
	49.85	2/21/1997	4.86			44.99
	49.85	3/25/1997	5.16			44.69
	49.85	4/23/1997	6.25			43.6
	49.85	4/24/1997	6.45			43.4
	49.85	5/13/1997	5.07			44.78
	49.85	6/20/1997	6.69			43.16
	49.85	6/25/1997	4.68			45.17
	49.85	7/1/1997	5.91			43.94
	49.85	7/24/1997	8.61			41.24
	49.85	8/16/1997	9.62			40.23
	49.85	8/22/1997	10.35			39.5
	49.85	9/25/1997	8.13			41.72
	49.85	10/22/1997	7.23			42.62
	49.85	11/25/1997	7.25			42.6
	49.85	12/19/1997	6.76			43.09
	49.85	1/20/1998	5.40			44.45
	49.85	3/3/1998	5.00			44.85
	49.85	3/18/1998	4.82			45.03
	49.85	4/24/1998	8.63			41.22
	49.85	5/21/1998	9.30			40.55
	49.85	7/30/1998	10.19			39.66
	49.85	8/25/1998	9.05			40.8
	49.85	9/21/1998	7.05			42.8
	49.85	10/26/1998	8.12			41.73
	49.85	11/23/1998	6.01			43.84
	49.85	1/29/1999	5.19			44.66
	49.85	2/26/1999	5.22			44.63
	49.85	3/16/1999	6.21			43.64
	49.85	4/29/1999	6.33			43.52
	49.85	6/1/1999	6.39			43.46
	49.85	7/30/1999	7.79			42.06
	49.85	8/27/1999	6.51			43.34
49.85	9/27/1999	11.32			38.53	
49.85	10/29/1999	12.21			37.64	
49.85	12/29/1999	11.52			38.33	
49.85	2/4/2000	14.33			35.52	
49.85	2/25/2000	10.63			39.22	
49.85	3/27/2000	9.38			40.47	
49.85	4/7/2000	9.09			40.76	
49.85	5/31/2000	9.13			40.72	
49.85	6/1/2000	9.10			40.75	

Table 1
GROUNDWATER MEASUREMENTS
Houston, TX - Wood Preserving Works

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Depth to DNAPL (ft BTOC)	DNAPL Thickness (ft)	GW Elevation (ft)
MW-04	49.85	7/28/2000	9.18			40.67
	49.85	8/30/2000	12.17			37.68
	49.85	9/19/2000	13.39			36.46
	49.85	10/27/2000	10.69			39.16
	49.85	11/21/2000	9.61			40.24
	49.85	5/1/2001	8.41			41.44
	49.85	10/1/2001	8.68			41.17
	49.85	3/11/2002	5.41			44.44
	49.85	9/23/2002	5.29			44.56
	49.85	3/10/2003	4.36			45.49
	49.85	9/23/2003	5.28			44.57
	49.85	3/15/2004	4.80			45.05
	49.85	9/13/2004	9.80			40.05
	49.85	7/18/2005	5.84			44.01
	49.85	1/4/2006	10.48			39.37
	49.85	7/27/2006	5.30			44.55
	49.85	3/7/2007	4.10			45.75
	49.85	7/27/2007	5.36			44.49
	49.85	1/29/2008	4.18			45.67
	49.85	7/16/2008	8.66			41.19
	49.85	2/4/2009	8.93			40.92
	49.85	7/24/2009	9.27			40.58
	49.85	1/8/2010	6.34			43.51
	49.85	7/12/2010	5.02			44.83
	49.85	1/12/2011	5.26			44.59
	49.85	7/12/2011	8.06			41.79
	49.85	1/26/2012	--			
	49.85	7/9/2012	3.74			46.11
	49.85	1/7/2013	4.62			45.23
	49.85	7/22/2013	7.59			42.26
	49.85	1/7/2014	7.16			42.69
	49.85	7/15/2014	7.62			42.23
	49.85	1/5/2015	6.12			43.73
	49.85	8/10/2015	4.26			45.59
	49.85	1/13/2016	3.92			45.93
	49.85	7/6/2016	4.31			45.54
	49.85	1/12/2017	4.67			45.18
	49.85	7/6/2017	5.12			44.73
	49.85	9/5/2017	5.01			44.84
	49.85	2/11/2018	5.12			44.73
49.85	3/11/2018	5.67			44.18	
49.85	5/14/2018	6.06			43.79	
49.85	7/2/2018	6.42			43.43	
49.85	1/3/2019	5.52			44.33	
49.85	7/9/2019	6.02			43.83	
49.85	1/8/2020	4.64			45.21	
49.85	7/8/2020	7.2			42.65	
MW-05	49.24	9/2/1993	4.90			44.34
	49.24	12/21/1993	2.21			47.03
	49.24	3/24/1994	2.30			46.94
	49.24	6/22/1994	2.80			46.44
	49.24	9/28/1994	3.90			45.34
	49.24	10/13/1994	5.05			44.19
	49.24	1/24/1995	1.36			47.88
	49.24	4/11/1995	3.90			45.34
	49.24	7/11/1995	5.33			43.91
	49.24	1/23/1996	7.42			41.82
	49.24	7/19/1996	8.61			40.63
	49.24	9/17/1996	9.01			40.23
	49.24	10/31/1996	7.84			41.4
	49.24	11/22/1996	9.68			39.56
	49.24	12/27/1996	7.66			41.58
	49.24	1/22/1997	5.89			43.35
	49.24	2/21/1997	4.45			44.79
	49.24	3/25/1997	4.65			44.59
	49.24	4/23/1997	5.53			43.71
	49.24	4/24/1997	5.68			43.56
	49.24	5/13/1997	4.39			44.85
	49.24	6/20/1997	5.67			43.57
	49.24	6/25/1997	3.97			45.27
	49.24	7/1/1997	5.06			44.18

Table 1
GROUNDWATER MEASUREMENTS
Houston, TX - Wood Preserving Works

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Depth to DNAPL (ft BTOC)	DNAPL Thickness (ft)	GW Elevation (ft)
MW-05	49.24	7/24/1997	7.46			41.78
	49.24	8/16/1997	8.57			40.67
	49.24	8/22/1997	9.20			40.04
	49.24	9/25/1997	7.28			41.96
	49.24	10/22/1997	6.70			42.54
	49.24	11/25/1997	6.70			42.54
	49.24	12/19/1997	6.26			42.98
	49.24	1/20/1998	5.05			44.19
	49.24	3/4/1998	4.54			44.7
	49.24	3/18/1998	4.36			44.88
	49.24	4/24/1998	7.67			41.57
	49.24	5/21/1998	8.80			40.44
	49.24	7/30/1998	9.90			39.34
	49.24	8/25/1998	8.86			40.38
	49.24	9/21/1998	6.59			42.65
	49.24	10/26/1998	7.77			41.47
	49.24	11/23/1998	5.79			43.45
	49.24	1/29/1999	4.88			44.36
	49.24	2/26/1999	4.96			44.28
	49.24	3/16/1999	5.81			43.43
	49.24	4/29/1999	5.91			43.33
	49.24	6/1/1999	5.99			43.25
	49.24	7/30/1999	7.00			42.24
	49.24	8/27/1999	6.13			43.11
	49.24	9/27/1999	10.17			39.07
	49.24	10/29/1999	11.65			37.59
	49.24	12/29/1999	10.90			38.34
	49.24	2/4/2000	13.77			35.47
	49.24	2/25/2000	9.46			39.78
	49.24	3/27/2000	8.62			40.62
	49.24	4/7/2000	8.20			41.04
	49.24	5/31/2000	8.26			40.98
	49.24	6/1/2000	8.21			41.03
	49.24	7/28/2000	8.26			40.98
	49.24	8/30/2000	11.33			37.91
	49.24	9/19/2000	12.33			36.91
	49.24	10/27/2000	9.94			39.3
	49.24	11/21/2000	9.21			40.03
	49.24	5/1/2001	7.47			41.77
	49.24	10/1/2001	7.79			41.45
	49.24	3/11/2002	4.92			44.32
	49.24	9/23/2002	4.76			44.48
	49.24	3/10/2003	3.77			45.47
	49.24	9/23/2003	4.61			44.63
	49.24	3/15/2004	4.22			45.02
	49.24	9/13/2004	8.58			40.66
	49.24	7/18/2005	5.61			43.63
	49.24	1/4/2006	9.76			39.48
	49.24	7/27/2006	4.85			44.39
	49.24	3/7/2007	5.94			43.3
	49.24	7/27/2007	4.53			44.71
	49.24	1/29/2008	3.71			45.53
	49.24	7/15/2008	7.77			41.47
	49.24	2/4/2009	8.33			40.91
	49.24	7/24/2009	8.67			40.57
	49.24	1/8/2010	6.06			43.18
	49.24	7/12/2010	4.86			44.38
	49.24	1/12/2011	5.06			44.18
	49.24	7/12/2011	10.96			38.28
	49.24	2/2/2012	4.9			44.34
	49.24	7/9/2012	4.61			44.63
	49.24	1/7/2013	7.58			41.66
	49.24	7/22/2013	10.44			38.8
	49.24	1/7/2014	6.92			42.32
	49.24	7/16/2014	8.46			40.78
	49.24	1/5/2015	5.96			43.28
	49.24	8/10/2015	4.13			45.11
	49.24	1/13/2016	3.76			45.48
	49.24	7/7/2016	3.94			45.30
	49.24	1/12/2017	4.31			44.93
	49.24	7/6/2017	4.84			44.40

Table 1
GROUNDWATER MEASUREMENTS
Houston, TX - Wood Preserving Works

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Depth to DNAPL (ft BTOC)	DNAPL Thickness (ft)	GW Elevation (ft)
MW-05	49.24	9/5/2017	4.71			44.53
	49.24	2/11/2018	5.56			43.68
	49.24	3/11/2018	5.98			43.26
	49.24	5/14/2018	6.57			42.67
	49.24	7/2/2018	6.83			42.41
	49.24	1/3/2019	6.07			43.17
	49.24	7/9/2019	6.56			42.68
	49.24	1/7/2020	4.69			44.55
	49.24	7/8/2020	6.11			43.13
MW-07	48.86	9/2/1993	8.09			40.77
	48.86	12/21/1993	4.60			44.26
	48.86	3/24/1994	5.06			43.8
	48.86	6/22/1994	6.03			42.83
	48.86	9/28/1994	7.52			41.34
	48.86	10/13/1994	8.13			40.73
	48.86	1/24/1995	3.81			45.05
	48.86	4/11/1995	3.41			45.45
	48.86	7/11/1995	5.74			43.12
	48.86	1/23/1996	6.99			41.87
	48.86	7/19/1996	8.89			39.97
	48.86	9/17/1996	9.41			39.45
	48.86	10/31/1996	8.04			40.82
	48.86	11/22/1996	9.94			38.92
	48.86	12/27/1996	7.30			41.56
	48.86	1/22/1997	5.25			43.61
	48.86	2/21/1997	4.00			44.86
	48.86	3/25/1997	4.32			44.54
	48.86	4/23/1997	5.51			43.35
	48.86	4/24/1997	5.67			43.19
	48.86	5/13/1997	4.26			44.6
	48.86	6/20/1997	6.00			42.86
	48.86	6/25/1997	3.86			45
	48.86	7/1/1997	5.21			43.65
	48.86	7/24/1997	7.99			40.87
	48.86	8/16/1997	8.92			39.94
	48.86	8/22/1997	9.72			39.14
	48.86	9/25/1997	7.50			41.36
	48.86	10/22/1997	6.48			42.38
	48.86	11/25/1997	6.50			42.36
	48.86	12/19/1997	6.12			42.74
	48.86	1/20/1998	4.52			44.34
	48.86	3/4/1998	4.14			44.72
	48.86	3/18/1998	3.94			44.92
	48.86	4/24/1998	7.85			41.01
	48.86	5/21/1998	8.61			40.25
	48.86	7/30/1998	9.54			39.32
	48.86	8/25/1998	8.63			40.23
	48.86	9/21/1998	6.34			42.52
	48.86	10/26/1998	7.56			41.3
	48.86	11/23/1998	5.91			42.95
	48.86	1/29/1999	4.71			44.15
	48.86	2/26/1999	4.76			44.1
	48.86	3/16/1999	5.32			43.54
	48.86	4/29/1999	5.41			43.45
	48.86	6/1/1999	5.49			43.37
	48.86	7/30/1999	6.98			41.88
	48.86	8/27/1999	5.61			43.25
48.86	9/27/1999	10.64			38.22	
48.86	10/29/1999	11.56			37.3	
48.86	12/29/1999	9.90			38.96	
48.86	2/4/2000	14.21			34.65	
48.86	2/25/2000	8.86			40	
48.86	3/27/2000	8.62			40.24	
48.86	4/7/2000	8.15			40.71	
48.86	5/31/2000	8.21			40.65	
48.86	6/1/2000	8.22			40.64	
48.86	7/28/2000	8.29			40.57	
48.86	8/30/2000	11.55			37.31	
48.86	9/19/2000	12.65			36.21	
48.86	10/27/2000	10.00			38.86	
48.86	11/21/2000	9.46			39.4	

Table 1
GROUNDWATER MEASUREMENTS
Houston, TX - Wood Preserving Works

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Depth to DNAPL (ft BTOC)	DNAPL Thickness (ft)	GW Elevation (ft)
MW-07	48.86	5/1/2001	7.64			41.22
	48.86	10/1/2001	8.00			40.86
	48.86	3/11/2002	4.56			44.3
	48.86	9/23/2002	4.69			44.17
	48.86	3/10/2003	3.52			45.34
	48.86	9/23/2003	4.70			44.16
	48.86	3/15/2004	3.89			44.97
	48.86	9/13/2004	9.04			39.82
	48.86	7/18/2005	5.27			43.59
	48.86	1/4/2006	9.91			38.95
	48.86	7/27/2006	4.60			44.26
	48.86	1/23/2007	3.46			45.4
	48.86	3/7/2007	3.82			45.04
	48.86	7/27/2007	4.94			43.92
	48.86	1/29/2008	3.39			45.47
	48.86	7/16/2008	7.94			40.92
	48.86	1/22/2009	7.49			41.37
	48.86	7/24/2009	NM			
	48.86	1/8/2010	4.02			44.84
	48.86	7/12/2010	4.72			44.14
	48.92	1/12/2011	4.56			44.36
	48.92	7/12/2011	10.91			38.01
	48.92	1/27/2012	3.86			45.06
	48.92	7/10/2013	10.62			38.30
	48.92	1/8/2014	6.42			42.50
	48.92	7/3/2014	7.61			41.31
	48.92	1/7/2015	3.46			45.46
	48.92	8/10/2015	5.01			43.91
	48.91	1/12/2016	3.09			45.82
	48.91	7/7/2016	6.72			42.19
	48.91	1/12/2017	5.81			43.10
	48.91	7/12/2017	7.71			41.20
48.91	1/3/2018	7.87			41.04	
48.91	7/19/2018	6.93			41.98	
48.91	1/3/2019	7.32			41.59	
48.91	7/1/2019	3.93			44.98	
48.91	1/13/2020	4.29			44.62	
48.91	7/8/2020	6.48			42.43	
MW-08	49.33	9/2/1993	8.18			41.19
	49.33	12/21/1993	5.02			44.35
	49.33	3/24/1994	5.53			43.84
	49.33	6/22/1994	6.38			42.99
	49.33	9/28/1994	7.72			41.65
	49.33	10/13/1994	8.43			40.94
	49.33	1/24/1995	4.15			45.22
	49.33	4/11/1995	4.02			45.35
	49.33	7/11/1995	5.95			43.42
	49.33	1/23/1996	7.20			42.17
	49.33	7/19/1996	9.06			40.31
	49.33	9/17/1996	9.51			39.86
	49.33	10/31/1996	7.99			41.38
	49.33	11/22/1996	9.98			39.39
	49.33	12/27/1996	7.24			42.13
	49.33	1/22/1997	5.25			44.12
	49.33	2/21/1997	4.21			45.16
	49.33	3/25/1997	4.48			44.89
	49.33	4/23/1997	5.61			43.76
	49.33	4/24/1997	5.76			43.61
	49.33	5/13/1997	4.45			44.92
	49.33	6/20/1997	6.09			43.28
	49.33	6/25/1997	4.56			44.81
	49.33	7/1/1997	5.06			44.31
	49.33	7/24/1997	7.97			41.4
	49.33	8/16/1997	8.05			41.32
	49.33	8/22/1997	9.73			39.64
	49.33	9/25/1997	7.57			41.8
	49.33	10/22/1997	6.43			42.94
	49.33	11/25/1997	6.48			42.89
	49.33	12/19/1997	5.22			44.15
	49.33	1/20/1998	4.70			44.67
49.33	3/4/1998	4.38			44.99	

Table 1
GROUNDWATER MEASUREMENTS
Houston, TX - Wood Preserving Works

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Depth to DNAPL (ft BTOC)	DNAPL Thickness (ft)	GW Elevation (ft)
MW-08	49.33	3/18/1998	4.18			45.19
	49.33	4/24/1998	8.00			41.37
	49.33	5/21/1998	8.45			40.92
	49.33	7/30/1998	9.33			40.04
	49.33	8/25/1998	8.46			40.91
	49.33	9/21/1998	6.31			43.06
	49.33	10/26/1998	7.66			41.71
	49.33	11/23/1998	5.96			43.41
	49.33	1/29/1999	4.80			44.57
	49.33	2/26/1999	4.89			44.48
	49.33	3/16/1999	5.45			43.92
	49.33	4/29/1999	5.66			43.71
	49.33	6/1/1999	5.66			43.71
	49.33	7/30/1999	7.20			42.17
	49.33	8/27/1999	5.85			43.52
	49.33	9/27/1999	10.78			38.59
	49.33	10/29/1999	11.76			37.61
	49.33	12/29/1999	11.03			38.34
	49.33	2/4/2000	14.66			34.71
	49.33	2/25/2000	10.33			39.04
	49.33	3/27/2000	8.75			40.62
	49.33	4/7/2000	8.37			41
	49.33	5/31/2000	8.40			40.97
	49.33	6/1/2000	8.36			41.01
	49.33	7/28/2000	8.40			40.97
	49.33	8/30/2000	11.29			38.08
	49.33	9/19/2000	12.82			36.55
	49.33	10/27/2000	12.63			36.74
	49.33	11/21/2000	9.64			39.73
	49.33	5/1/2001	7.83			41.54
	49.33	10/1/2001	8.05			41.32
	49.33	3/11/2002	4.75			44.62
	49.33	9/23/2002	4.69			44.68
	49.33	3/10/2003	3.84			45.49
	49.33	9/23/2003	4.73			44.6
	49.33	3/15/2004	4.31			45.02
	49.33	9/13/2004	9.31			40.02
	49.33	7/18/2005	5.32			44.01
	49.33	1/4/2006	10.63			38.7
	49.33	7/27/2006	4.79			44.54
49.33	1/22/2007	3.81			45.52	
49.33	3/7/2007	3.96			45.37	
49.33	7/27/2007	5.06			44.27	
49.33	1/29/2008	3.71			45.62	
49.33	7/16/2008	8.32			41.01	
49.33	1/22/2009	7.71			41.62	
49.33	7/24/2009	NM				
49.33	1/8/2010	4.17			45.16	
49.33	7/12/2010	4.96			44.37	
49.33	1/12/2011	5.32			44.01	
49.33	7/12/2011	11.24			38.09	
49.33	1/27/2012	4.68			44.65	
49.33	7/10/2013	11.07			38.26	
49.33	1/8/2014	6.87			42.46	
49.33	7/3/2014	8.16			41.17	
49.33	1/7/2015	3.82			45.51	
49.33	8/10/2015	5.06			44.27	
49.33	1/12/2016	3.87			45.46	
49.33	7/7/2016	6.44			42.89	
49.33	1/12/2017	5.82			43.51	
49.33	7/12/2017	7.92			41.41	
49.33	1/3/2018	8.02			41.31	
49.33	7/19/2018	7.22			42.11	
49.33	1/3/2019	7.52			41.81	
49.33	7/1/2019	3.98			45.35	
49.33	1/13/2020	4.45			44.88	
49.33	7/8/2020	6.59			42.74	
MW-09	49.26	9/2/1993	7.43			41.86
	49.26	12/21/1993	4.89			44.4
	49.26	3/24/1994	4.92			44.37
	49.26	6/22/1994	5.51			43.78

Table 1
GROUNDWATER MEASUREMENTS
Houston, TX - Wood Preserving Works

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Depth to DNAPL (ft BTOC)	DNAPL Thickness (ft)	GW Elevation (ft)
MW-09	49.26	9/28/1994	6.90			42.39
	49.26	10/13/1994	7.66			41.63
	49.26	1/24/1995	4.10			45.19
	49.26	4/11/1995	3.74			45.55
	49.26	7/11/1995	5.08			44.21
	49.26	1/23/1996	7.09			42.2
	49.26	7/19/1996	8.27			41.02
	49.26	9/17/1996	8.58			40.71
	49.26	10/31/1996	7.27			42.02
	49.26	11/22/1996	9.17			40.12
	49.26	12/27/1996	7.05			42.24
	49.26	1/22/1997	5.42			43.87
	49.26	2/21/1997	4.09			45.2
	49.26	3/25/1997	4.17			45.12
	49.26	4/23/1997	5.05			44.24
	49.26	4/24/1997	5.21			44.08
	49.26	5/13/1997	4.16			45.13
	49.26	6/20/1997	5.32			43.97
	49.26	6/25/1997	3.80			45.49
	49.26	7/1/1997	4.57			44.72
	49.26	7/24/1997	7.03			42.26
	49.26	8/16/1997	8.26			41.03
	49.26	8/22/1997	8.67			40.62
	49.26	9/25/1997	6.99			42.3
	49.26	10/22/1997	6.10			43.19
	49.26	11/25/1997	6.12			43.17
	49.26	12/19/1997	5.62			43.67
	49.26	1/20/1998	4.60			44.69
	49.26	3/4/1998	4.15			45.14
	49.26	3/18/1998	4.02			45.27
	49.26	4/24/1998	7.32			41.97
	49.26	5/21/1998	8.10			41.19
	49.26	7/30/1998	9.12			40.17
	49.26	8/25/1998	8.41			40.88
	49.26	9/21/1998	6.11			43.18
	49.26	10/26/1998	7.61			41.68
	49.26	11/23/1998	5.43			43.86
	49.26	1/29/1999	4.60			44.69
	49.26	2/26/1999	4.68			44.61
	49.26	3/16/1999	5.46			43.83
	49.26	4/29/1999	5.66			43.63
	49.26	6/1/1999	5.66			43.63
	49.26	7/30/1999	7.11			42.18
	49.26	8/27/1999	5.86			43.43
	49.26	9/27/1999	9.81			39.48
	49.26	10/29/1999	10.63			38.66
	49.26	12/29/1999	9.99			39.3
	49.26	2/4/2000	12.44			36.85
	49.26	2/25/2000	8.88			40.41
	49.26	3/27/2000	8.22			41.07
	49.26	4/7/2000	8.10			41.19
	49.26	5/31/2000	8.15			41.14
	49.26	6/1/2000	8.00			41.29
	49.26	7/28/2000	8.11			41.18
	49.26	8/30/2000	11.10			38.19
	49.26	9/19/2000	11.91			37.38
	49.26	10/27/2000	9.84			39.45
	49.26	11/21/2000	8.89			40.4
	49.26	5/1/2001	7.16			42.13
	49.26	10/1/2001	7.39			41.9
	49.26	3/11/2002	4.61			44.68
	49.26	9/23/2002	4.45			44.84
	49.26	3/10/2003	3.59			45.67
	49.26	9/23/2003	4.31			44.95
	49.26	3/15/2004	4.18			45.08
	49.26	9/13/2004	8.39			40.87
	49.26	7/18/2005	5.53			43.73
	49.26	1/4/2006	9.46			39.8
	49.26	7/27/2006	4.85			44.41
	49.26	3/7/2007	5.58			43.68
	49.26	7/27/2007	3.78			45.48

Table 1
GROUNDWATER MEASUREMENTS
Houston, TX - Wood Preserving Works

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Depth to DNAPL (ft BTOC)	DNAPL Thickness (ft)	GW Elevation (ft)
MW-09	49.26	1/29/2008	3.52			45.74
	49.26	7/15/2008	7.04			42.22
	49.26	2/4/2009	8.01			41.25
	49.26	7/24/2009	8.34			40.92
	49.26	1/8/2010	5.89			43.37
	49.26	7/12/2010	4.32			44.94
	49.26	1/12/2011	4.61			44.65
	49.26	7/12/2011	10.71			38.55
	49.26	1/26/2012	4.73			44.53
	49.26	7/9/2012	4.23			45.03
	49.26	1/7/2013	6.73			42.53
	49.26	7/22/2013	9.16			40.1
	49.26	1/7/2014	8.72			40.54
	49.26	7/16/2014	8.17			41.09
	49.26	1/5/2015	8.01			41.25
	49.26	8/10/2015	6.17			43.09
	49.26	1/13/2016	5.81			43.45
	49.26	7/6/2016	6.14			43.12
	49.26	1/12/2017	6.71			42.55
	49.26	7/6/2017	7.09			42.17
	49.26	9/5/2017	7.06			42.20
	49.26	2/11/2018	5.16			44.10
	49.26	3/11/2018	6.01			43.25
	49.26	5/14/2018	6.21			43.05
	49.26	7/2/2018	6.67			42.59
	49.26	1/3/2019	5.61			43.65
49.26	7/9/2019	6.21			43.05	
49.26	1/7/2020	4.11			45.15	
49.26	7/8/2020	6.01			43.25	
MW-10A	49.86	9/28/1994	8.69			41.21
	49.86	10/13/1994	9.36			40.54
	49.86	1/24/1995	4.62			45.28
	49.86	4/11/1995	4.60			45.3
	49.86	7/11/1995	7.00			42.9
	49.86	1/23/1996	7.74			42.16
	49.86	7/19/1996	9.98			39.92
	49.86	9/17/1996	10.54			39.36
	49.86	10/31/1996	7.94			41.96
	49.86	11/22/1996	10.82			39.08
	49.86	12/27/1996	7.81			42.09
	49.86	1/22/1997	5.45			44.45
	49.86	2/21/1997	4.63			45.27
	49.86	3/25/1997	5.01			44.89
	49.86	4/23/1997	6.39			43.51
	49.86	4/24/1997	6.58			43.32
	49.86	5/13/1997	4.93			44.97
	49.86	6/20/1997	7.08			42.82
	49.86	6/25/1997	4.58			45.32
	49.86	7/1/1997	6.13			43.77
	49.86	7/24/1997	9.11			40.79
	49.86	8/16/1997	10.10			39.8
	49.86	8/22/1997	10.81			39.09
	49.86	9/25/1997	8.47			41.43
	49.86	10/22/1997	7.02			42.88
	49.86	11/25/1997	7.05			42.85
	49.86	12/19/1997	6.89			43.01
	49.86	1/20/1998	5.10			44.8
	49.86	3/3/1998	4.87			45.03
	49.86	3/18/1998	4.65			45.25
	49.86	4/24/1998	8.84			41.06
	49.86	5/21/1998	9.10			40.8
	49.86	7/30/1998	10.23			39.67
	49.86	8/25/1998	9.11			40.79
	49.86	9/21/1998	6.82			43.08
	49.86	10/26/1998	8.19			41.71
	49.86	11/23/1998	6.12			43.78
	49.86	1/29/1999	5.61			44.29
	49.86	2/26/1999	5.69			44.21
	49.86	3/16/1999	5.91			43.99
49.86	4/29/1999	6.11			43.79	
49.86	6/1/1999	6.10			43.8	

Table 1
GROUNDWATER MEASUREMENTS
Houston, TX - Wood Preserving Works

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Depth to DNAPL (ft BTOC)	DNAPL Thickness (ft)	GW Elevation (ft)
MW-10A	49.86	7/30/1999	7.70			42.2
	49.86	8/27/1999	6.31			43.59
	49.86	9/27/1999	11.73			38.17
	49.86	10/29/1999	12.69			37.21
	49.86	12/29/1999	12.00			37.9
	49.86	2/4/2000	14.30			35.6
	49.86	2/25/2000	11.44			38.46
	49.86	3/27/2000	9.57			40.33
	49.86	4/7/2000	9.27			40.63
	49.86	5/31/2000	9.31			40.59
	49.86	6/1/2000	9.10			40.8
	49.86	7/28/2000	9.30			40.6
	49.86	8/30/2000	12.09			37.81
	49.86	9/19/2000	13.70			36.2
	49.86	10/27/2000	10.69			39.21
	49.86	11/21/2000	10.49			39.41
	49.86	5/1/2001	8.64			41.26
	49.86	10/1/2001	8.93			40.97
	49.86	3/11/2002	5.30			44.6
	49.86	9/23/2002	5.19			44.71
	49.86	3/10/2003	4.43			45.43
	49.86	9/23/2003	5.31			44.55
	49.86	3/15/2004	4.69			45.17
	49.86	9/13/2004	10.30			39.56
	49.86	7/18/2005	5.57			44.29
	49.86	1/4/2006	9.68			40.18
	49.86	7/27/2006	5.01			44.85
	49.86	1/23/2007	4.29			45.57
	49.86	3/7/2007	4.13			45.73
	49.86	7/27/2007	6.03			43.83
	49.86	1/28/2008	4.22			45.64
	49.86	7/16/2008	9.31			40.55
	49.86	1/22/2009	8.27			41.59
	49.86	7/24/2009	NM			
	49.86	1/8/2010	4.64			45.22
	49.86	7/12/2010	5.23			44.63
	49.82	1/12/2011	5.72			44.10
	49.82	7/12/2011	12.07			37.75
	49.82	7/13/2011	11.96			37.86
	49.82	1/27/2012	4.88			44.94
49.82	7/10/2013	12.07			37.75	
49.82	1/8/2014	7.33			42.49	
49.82	7/2/2014	8.92			40.90	
49.82	1/7/2015	4.26			45.56	
49.82	8/10/2015	6.02			43.80	
49.83	1/12/2016	4.41			45.42	
49.83	7/7/2016	7.36			42.47	
49.83	1/12/2017	6.69			43.14	
49.83	7/12/2017	8.23			41.60	
49.83	1/3/2018	8.63			41.20	
49.83	7/18/2018	7.97			41.86	
49.83	1/3/2019	8.09			41.74	
49.83	7/1/2019	4.69			45.14	
49.83	1/14/2020	4.68			45.15	
49.83	7/8/2020	7.46			42.37	
MW-10B	49.94	9/28/1994	8.77			41.2
	49.94	10/13/1994	9.45			40.52
	49.94	1/24/1995	4.72			45.25
	49.94	4/11/1995	4.72			45.25
	49.94	7/11/1995	7.13			42.84
	49.94	1/23/1996	7.84			42.13
	49.94	7/19/1996	10.27			39.7
	49.94	9/17/1996	10.64			39.33
	49.94	10/31/1996	8.01			41.96
	49.94	11/22/1996	10.93			39.04
	49.94	12/27/1996	7.99			41.98
	49.94	1/22/1997	5.72			44.25
	49.94	2/21/1997	4.78			45.19
	49.94	3/25/1997	5.13			44.84
	49.94	4/23/1997	6.52			43.45
	49.94	4/24/1997	6.71			43.26

Table 1
GROUNDWATER MEASUREMENTS
Houston, TX - Wood Preserving Works

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Depth to DNAPL (ft BTOC)	DNAPL Thickness (ft)	GW Elevation (ft)
MW-10B	49.94	5/13/1997	5.09			44.88
	49.94	6/20/1997	7.21			42.76
	49.94	6/25/1997	4.71			45.26
	49.94	7/1/1997	6.27			43.7
	49.94	7/24/1997	9.15			40.82
	49.94	8/16/1997	10.19			39.78
	49.94	8/22/1997	10.92			39.05
	49.94	9/25/1997	8.69			41.28
	49.94	10/22/1997	7.18			42.79
	49.94	11/25/1997	7.21			42.76
	49.94	12/19/1997	6.56			43.41
	49.94	1/20/1998	5.25			44.72
	49.94	3/3/1998	5.00			44.97
	49.94	3/18/1998	4.79			45.18
	49.94	4/24/1998	8.95			41.02
	49.94	5/21/1998	9.30			40.67
	49.94	7/30/1998	10.30			39.67
	49.94	8/25/1998	9.20			40.77
	49.94	9/21/1998	7.06			42.91
	49.94	10/26/1998	8.31			41.66
	49.94	11/23/1998	6.25			43.72
	49.94	1/29/1999	5.71			44.26
	49.94	2/26/1999	5.76			44.21
	49.94	3/16/1999	6.05			43.92
	49.94	4/29/1999	6.10			43.87
	49.94	6/1/1999	6.10			43.87
	49.94	7/30/1999	7.61			42.36
	49.94	8/27/1999	6.33			43.64
	49.94	9/27/1999	11.90			38.07
	49.94	10/29/1999	12.60			37.37
	49.94	12/29/1999	12.10			37.87
	49.94	2/4/2000	14.29			35.68
	49.94	2/25/2000	11.15			38.82
	49.94	3/27/2000	9.67			40.3
	49.94	4/7/2000	9.32			40.65
	49.94	5/31/2000	9.38			40.59
	49.94	6/1/2000	9.21			40.76
	49.94	7/28/2000	9.33			40.64
	49.94	8/30/2000	12.11			37.86
	49.94	9/19/2000	13.77			36.2
	49.94	10/27/2000	10.63			39.34
	49.94	11/21/2000	10.64			39.33
	49.94	5/1/2001	8.75			41.22
	49.94	10/1/2001	9.12			40.85
	49.94	3/11/2002	5.47			44.5
	49.94	9/23/2002	5.40			44.57
	49.94	3/10/2003	4.59			45.35
	49.94	9/23/2003	5.58			44.36
	49.94	3/15/2004	5.78			44.16
	49.94	9/13/2004	10.41			39.53
	49.94	7/18/2005	5.97			43.97
	49.94	1/4/2006	10.75			39.19
	49.94	7/27/2006	5.73			44.21
	49.94	1/23/2007	4.45			45.49
	49.94	3/7/2007	4.61			45.33
	49.94	7/27/2007	6.15			43.79
	49.94	1/28/2008	4.44			45.5
	49.94	7/16/2008	9.42			40.52
	49.94	1/22/2009	8.39			41.55
	49.94	7/24/2009	NM			
	49.94	1/8/2010	4.91			45.03
	49.94	7/12/2010	5.33			44.61
	49.95	1/12/2011	5.96			43.99
	49.95	7/13/2011	12.07			37.88
	49.95	1/27/2012	5.02			44.93
	49.95	7/10/2013	12.18			37.77
	49.95	1/8/2014	7.46			42.49
	49.95	7/2/2014	8.96			40.99
	49.95	1/7/2015	4.46			45.49
	49.95	8/10/2015	6.14			43.81
	49.96	1/12/2016	4.64			45.32

**Table 1
GROUNDWATER MEASUREMENTS
Houston, TX - Wood Preserving Works**

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Depth to DNAPL (ft BTOC)	DNAPL Thickness (ft)	GW Elevation (ft)
MW-10B	49.96	7/7/2016	7.62			42.34
	49.96	1/12/2017	6.57			43.39
	49.96	7/12/2017	8.33			41.63
	49.96	1/3/2018	8.71			41.25
	49.96	7/18/2018	8.04			41.92
	49.96	1/3/2019	8.16			41.80
	49.96	7/1/2019	4.82			45.14
	49.96	1/14/2020	4.92			45.04
	49.96	7/8/2020	7.58			42.38
MW-11A	50.05	9/28/1994	8.66			41.38
	50.05	10/13/1994	9.35			40.69
	50.05	1/24/1995	4.88			45.16
	50.05	4/11/1995	4.81			45.23
	50.05	7/11/1995	6.67			43.37
	50.05	1/23/1996	8.01			42.03
	50.05	7/19/1996	10.09			39.95
	50.05	9/17/1996	10.56			39.48
	50.05	10/31/1996	8.16			41.88
	50.05	11/22/1996	10.98			39.06
	50.05	12/27/1996	8.21			41.83
	50.05	1/22/1997	6.06			43.98
	50.05	2/21/1997	4.98			45.06
	50.05	3/25/1997	5.32			44.72
	50.05	4/23/1997	6.59			43.45
	50.05	4/24/1997	6.77			43.27
	50.05	5/13/1997	5.31			44.73
	50.05	6/20/1997	7.15			42.89
	50.05	6/25/1997	4.88			45.16
	50.05	7/11/1997	6.29			43.75
	50.05	7/24/1997	9.12			40.92
	50.05	8/16/1997	10.11			39.93
	50.05	8/22/1997	10.82			39.22
	50.05	9/25/1997	8.70			41.34
	50.05	10/22/1997	7.40			42.64
	50.05	11/25/1997	7.41			42.63
	50.05	12/19/1997	6.10			43.94
	50.05	1/20/1998	5.49			44.55
	50.05	3/3/1998	5.16			44.88
	50.05	3/18/1998	4.96			45.08
	50.05	4/24/1998	8.98			41.06
	50.05	5/21/1998	9.40			40.64
	50.05	7/30/1998	10.56			39.48
	50.05	8/25/1998	9.32			40.72
	50.05	9/21/1998	7.28			42.76
	50.05	10/26/1998	8.43			41.61
	50.05	11/23/1998	6.41			43.63
	50.05	1/29/1999	5.31			44.73
	50.05	2/26/1999	5.39			44.65
	50.05	3/16/1999	6.32			43.72
	50.05	4/29/1999	6.51			43.53
	50.05	6/1/1999	6.57			43.47
50.05	7/30/1999	8.00			42.04	
50.05	8/27/1999	6.79			43.25	
50.05	9/27/1999	11.73			38.31	
50.05	10/29/1999	12.81			37.23	
50.05	12/29/1999	12.11			37.93	
50.05	2/4/2000	14.33			35.71	
50.05	2/25/2000	11.10			38.94	
50.05	3/27/2000	9.66			40.38	
50.05	4/7/2000	9.40			40.64	
50.05	5/31/2000	9.50			40.54	
50.05	6/1/2000	9.30			40.74	
50.05	7/28/2000	9.47			40.57	
50.05	8/30/2000	12.44			37.6	
50.05	9/19/2000	13.74			36.3	
50.05	10/27/2000	11.01			39.03	
50.05	11/21/2000	10.69			39.35	
50.05	5/1/2001	8.78			41.26	
50.05	10/1/2001	9.12			40.93	
50.05	3/11/2002	5.59			44.45	
50.05	9/23/2002	5.60			44.44	

**Table 1
GROUNDWATER MEASUREMENTS
Houston, TX - Wood Preserving Works**

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Depth to DNAPL (ft BTOC)	DNAPL Thickness (ft)	GW Elevation (ft)
MW-11A	50.05	3/10/2003	4.66			45.39
	50.05	9/23/2003	5.73			44.32
	50.05	3/15/2004	4.99			45.06
	50.05	9/13/2004	10.28			39.77
	50.05	7/18/2005	6.66			43.39
	50.05	1/5/2006	10.85			39.2
	50.05	7/27/2006	5.02			45.03
	50.05	1/23/2007	4.54			45.51
	50.05	3/7/2007	4.26			45.79
	50.05	7/27/2007	6.09			43.96
	50.05	1/28/2008	4.46			45.59
	50.05	7/16/2008	9.25			40.8
	50.05	1/22/2009	8.57			41.48
	50.05	7/24/2009	NM			
	50.05	1/8/2010	4.97			45.08
	50.05	7/12/2010	5.51			44.54
	50.07	1/12/2011	6.21			43.86
	50.07	7/12/2011	12.02			38.05
	50.07	1/27/2012	5.31			44.76
	50.07	7/10/2013	12.01			38.06
	50.07	1/8/2014	7.46			42.61
	50.07	7/2/2014	9.02			41.05
	50.07	1/7/2015	4.58			45.49
	50.07	8/10/2015	6.11			43.96
	50.16	1/12/2016	4.71			45.45
	50.16	7/7/2016	7.61			42.55
	50.16	1/12/2017	8.47			41.69
	50.16	7/12/2017	8.46			41.70
	50.16	1/3/2018	8.94			41.22
	50.16	7/18/2018	8.09			42.07
	50.16	1/3/2019	8.48			41.68
	50.16	7/1/2019	5.06			45.10
	50.16	1/14/2020	5.11			45.05
50.16	7/8/2020	7.67			42.49	
MW-11B	50.18	9/28/1994	8.92			41.27
	50.18	10/13/1994	9.59			40.6
	50.18	1/24/1995	5.04			45.15
	50.18	4/11/1995	5.01			45.18
	50.18	7/11/1995	7.23			42.96
	50.18	1/23/1996	8.20			41.99
	50.18	7/19/1996	8.92			41.27
	50.18	9/17/1996	10.83			39.36
	50.18	10/31/1996	9.34			40.85
	50.18	11/22/1996	11.23			38.96
	50.18	12/27/1996	8.45			41.74
	50.18	1/22/1997	6.28			43.91
	50.18	2/21/1997	5.16			45.03
	50.18	3/25/1997	5.51			44.68
	50.18	4/23/1997	6.81			43.38
	50.18	4/24/1997	6.99			43.2
	50.18	5/13/1997	5.46			44.73
	50.18	6/20/1997	7.40			42.79
	50.18	6/25/1997	5.06			45.13
	50.18	7/1/1997	6.52			43.67
	50.18	7/24/1997	9.36			40.83
	50.18	8/16/1997	10.36			39.83
	50.18	8/22/1997	11.11			39.08
	50.18	9/25/1997	8.96			41.23
	50.18	10/22/1997	7.61			42.58
	50.18	11/25/1997	7.63			42.56
	50.18	12/19/1997	7.11			43.08
	50.18	1/20/1998	5.70			44.49
	50.18	3/3/1998	5.35			44.84
	50.18	3/18/1998	5.14			45.05
	50.18	4/24/1998	9.19			41
	50.18	5/21/1998	9.61			40.58
	50.18	7/30/1998	10.72			39.47
50.18	8/25/1998	9.48			40.71	
50.18	9/21/1998	7.49			42.7	
50.18	10/26/1998	8.57			41.62	
50.18	11/23/1998	6.32			43.87	

Table 1
GROUNDWATER MEASUREMENTS
Houston, TX - Wood Preserving Works

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Depth to DNAPL (ft BTOC)	DNAPL Thickness (ft)	GW Elevation (ft)
MW-11B	50.18	2/26/1999	5.32			44.87
	50.18	3/16/1999	6.49			43.7
	50.18	4/29/1999	6.66			43.53
	50.18	6/1/1999	6.66			43.53
	50.18	7/30/1999	8.12			42.07
	50.18	8/27/1999	6.88			43.31
	50.18	9/27/1999	12.04			38.15
	50.18	10/29/1999	13.00			37.19
	50.18	12/29/1999	12.33			37.86
	50.18	2/4/2000	15.61			34.58
	50.18	2/25/2000	11.49			38.7
	50.18	3/27/2000	9.93			40.26
	50.18	4/7/2000	9.54			40.65
	50.18	5/31/2000	9.61			40.58
	50.18	6/1/2000	9.51			40.68
	50.18	7/28/2000	9.60			40.59
	50.18	8/30/2000	12.76			37.43
	50.18	9/19/2000	13.97			36.22
	50.18	10/27/2000	11.23			38.96
	50.18	11/21/2000	10.88			39.31
	50.18	5/1/2001	5.97			44.22
	50.18	10/1/2001	9.33			40.86
	50.18	3/11/2002	5.80			44.39
	50.18	9/23/2002	5.79			44.4
	50.18	3/10/2003	4.85			45.33
	50.18	9/23/2003	5.95			44.23
	50.18	3/15/2004	5.16			45.02
	50.18	9/13/2004	10.53			39.65
	50.18	7/18/2005	5.45			44.73
	50.18	1/4/2006	11.01			39.17
	50.18	7/27/2006	5.26			44.92
	50.18	1/23/2007	4.13			46.05
	50.18	3/7/2007	4.42			45.76
	50.18	7/27/2007	6.29			43.89
	50.18	1/28/2008	4.69			45.49
	50.18	7/16/2008	9.49			40.69
	50.18	1/22/2009	8.72			41.46
	50.18	7/24/2009	NM			
	50.18	1/8/2010	5.15			45.03
	50.18	7/12/2010	5.67			44.51
	50.23	1/12/2011	6.37			43.86
	50.23	7/12/2011	12.23			38.00
50.23	1/27/2012	5.38			44.85	
50.23	7/10/2013	12.22			38.01	
50.23	1/8/2014	7.82			42.41	
50.23	7/2/2014	9.14			41.09	
50.23	1/7/2015	4.79			45.44	
50.23	8/10/2015	6.27			43.96	
50.24	1/12/2016	4.99			45.25	
50.24	7/7/2016	7.59			42.65	
50.24	1/12/2017	8.54			41.70	
50.24	7/12/2017	8.49			41.75	
50.24	1/3/2018	9.04			41.20	
50.24	7/18/2018	8.24			42.00	
50.24	1/3/2019	8.57			41.67	
50.24	7/1/2019	5.21			45.03	
50.24	1/14/2020	5.3			44.94	
50.24	7/8/2020	7.81			42.43	
MW-12A	49.96	3/25/1997	5.52			44.44
	49.96	4/23/1997	6.51			43.45
	49.96	4/24/1997	6.66			43.3
	49.96	5/13/1997	5.47			44.49
	49.96	6/20/1997	6.81			43.15
	49.96	9/25/1997	8.08			41.88
	49.96	10/22/1997	7.10			42.86
	49.96	11/25/1997	7.12			42.84
	49.96	12/19/1997	6.96			43
	49.96	1/20/1998	5.69			44.27
	49.96	3/4/1998	4.52			45.44
	49.96	3/18/1998	5.28			44.68
	49.96	4/24/1998	8.70			41.26

Table 1
GROUNDWATER MEASUREMENTS
Houston, TX - Wood Preserving Works

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Depth to DNAPL (ft BTOC)	DNAPL Thickness (ft)	GW Elevation (ft)
MW-12A	49.96	5/21/1998	9.10			40.86
	49.96	8/25/1998	10.05			39.91
	49.96	9/21/1998	7.11			42.85
	49.96	10/26/1998	9.11			40.85
	49.96	11/23/1998	6.01			43.95
	49.96	1/29/1999	5.44			44.52
	49.96	2/26/1999	5.52			44.44
	49.96	3/16/1999	6.21			43.75
	49.96	4/29/1999	6.38			43.58
	49.96	6/1/1999	6.31			43.65
	49.96	7/30/1999	7.88			42.08
	49.96	8/27/1999	6.56			43.4
	49.96	9/27/1999	11.61			38.35
	49.96	10/29/1999	12.79			37.17
	49.96	11/18/1999	13.18			36.78
	49.96	12/29/1999	12.03			37.93
	49.96	2/4/2000	15.43			34.53
	49.96	2/25/2000	11.34			38.62
	49.96	3/27/2000	9.22			40.74
	49.96	4/7/2000	8.80			41.16
	49.96	5/31/2000	8.84			41.12
	49.96	6/1/2000	8.81			41.15
	49.96	7/28/2000	8.87			41.09
	49.96	8/30/2000	11.76			38.2
	49.96	9/19/2000	13.22			36.74
	49.96	10/27/2000	10.54			39.42
	49.96	11/21/2000	10.16			39.8
	49.96	5/1/2001	8.60			41.36
	49.96	10/1/2001	8.73			41.23
	49.96	3/11/2002	6.01			43.95
	49.96	9/23/2002	5.87			44.09
	49.96	3/10/2003	5.37			44.59
	49.96	9/23/2003	5.96			44
	49.96	3/15/2004	5.54			44.42
	49.96	9/13/2004	10.30			39.66
	49.96	7/18/2005	7.01			42.95
	49.96	1/4/2006	10.57			39.39
	49.96	7/27/2006	6.60			43.36
	49.96	3/7/2007	6.94			43.02
	49.96	7/27/2007	5.79			44.17
49.96	1/30/2008	5.29			44.67	
49.96	7/15/2008	9.19			40.77	
49.96	2/4/2009	8.81			41.15	
49.96	7/24/2009	9.13			40.83	
49.96	1/8/2010	5.47			44.49	
49.96	7/12/2010	9.72			40.24	
49.96	1/12/2011	5.59			44.37	
49.96	7/12/2011	12.46			37.5	
49.96	1/26/2012	5.78			44.18	
49.96	7/9/2012	5.96			44	
49.96	1/7/2013	9.04			40.92	
49.96	7/22/2013	11.64			38.32	
49.96	1/7/2014	7.38			42.58	
49.96	7/16/2014	9.82			40.14	
49.96	1/5/2015	6.46			43.50	
49.96	8/10/2015	5.26			44.70	
49.96	1/13/2016	4.67			45.29	
49.96	7/6/2016	4.96			45.00	
49.96	1/12/2017	5.67			44.29	
49.96	7/6/2017	6.03			43.93	
49.96	9/5/2017	5.86			44.10	
49.96	2/11/2018	6.48			43.48	
49.96	3/11/2018	7.12			42.84	
49.96	5/14/2018	8.92			41.04	
49.96	1/3/2019	8.37			41.59	
49.96	7/9/2019	8.02			41.94	
49.96	1/7/2020	6.04			43.92	
49.96	7/8/2020	7.61	BP		42.35	
MW-12B	50.02	3/25/1997	5.60			44.42
	50.02	4/23/1997	6.64			43.38
	50.02	4/24/1997	6.74			43.28

Table 1
GROUNDWATER MEASUREMENTS
Houston, TX - Wood Preserving Works

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Depth to DNAPL (ft BTOC)	DNAPL Thickness (ft)	GW Elevation (ft)
MW-12B	50.02	5/13/1997	5.55			44.47
	50.02	6/20/1997	7.01			43.01
	50.02	9/25/1997	8.32			41.7
	50.02	10/22/1997	7.25			42.77
	50.02	11/25/1997	7.29			42.73
	50.02	12/19/1997	6.86			43.16
	50.02	1/20/1998	5.88			44.14
	50.02	3/4/1998	5.64	44.08	1.72	44.38
	50.02	3/18/1998	5.38	44.07	1.73	44.64
	50.02	4/9/1998	7.87		0.98	42.15
	50.02	4/16/1998	8.31		1.35	41.71
	50.02	4/24/1998	8.72	43.82	1.98	41.3
	50.02	5/8/1998	NM		0.50	
	50.02	5/12/1998	NM		0.50	
	50.02	5/21/1998	10.48			39.54
	50.02	5/25/1998	NM		1.00	
	50.02	6/9/1998	NM		1.00	
	50.02	6/16/1998	NM		1.20	
	50.02	6/26/1998	NM		1.50	
	50.02	7/2/1998	NM		1.50	
	50.02	7/10/1998	NM		2.00	
	50.02	7/14/1998	NM		2.00	
	50.02	7/23/1998	NM		2.00	
	50.02	8/5/1998	NM		2.00	
	50.02	8/13/1998	NM		2.00	
	50.02	8/18/1998	NM		2.00	
	50.02	8/25/1998	10.22			39.8
	50.02	9/15/1998	NM		2.00	
	50.02	9/21/1998	7.73			42.29
	50.02	9/30/1998	NM		4.00	
	50.02	10/8/1998	NM		4.00	
	50.02	10/16/1998	NM		4.00	
	50.02	10/26/1998	8.88			41.14
	50.02	11/6/1998	NM		4.00	
	50.02	11/13/1998	NM		1.49	
	50.02	11/19/1998	NM		4.00	
	50.02	11/23/1998	6.11			43.91
	50.02	12/16/1998	NM		4.00	
	50.02	1/7/1999	NM		4.00	
	50.02	1/15/1999	NM		4.00	
	50.02	1/22/1999	NM		4.00	
	50.02	1/26/1999	NM		4.00	
	50.02	1/29/1999	5.70			44.32
	50.02	2/4/1999	NM		4.00	
	50.02	2/9/1999	NM		3.00	
	50.02	2/26/1999	5.83	39.95	5.85	44.19
	50.02	3/16/1999	6.30	43.60	2.20	43.72
	50.02	4/29/1999	6.44	38.90	6.90	43.58
	50.02	5/21/1999	7.40	36.90	8.90	42.62
	50.02	5/27/1999	7.38	36.90	8.90	42.64
	50.02	6/1/1999	6.40	37.90	7.90	43.62
	50.02	6/10/1999	7.36	36.90	8.90	42.66
	50.02	7/30/1999	7.98			42.04
	50.02	8/27/1999	6.61	38.90	6.90	43.41
	50.02	9/27/1999	11.71	42.34	3.46	38.31
	50.02	10/29/1999	12.76	41.84	3.96	37.26
	50.02	11/18/1999	13.22			36.8
	50.02	12/29/1999	12.01	41.84	3.96	38.01
	50.02	2/4/2000	13.22	41.84	3.96	36.8
	50.02	2/25/2000	11.44	41.84	3.96	38.58
	50.02	3/27/2000	NM			
	50.02	4/7/2000	8.73	41.81	3.99	41.29
	50.02	5/31/2000	8.77	41.81	3.99	41.25
	50.02	6/1/2000	8.73	41.81	3.99	41.29
	50.02	7/28/2000	8.77	41.89	3.91	41.25
	50.02	8/30/2000	11.66	41.82	3.98	38.36
	50.02	9/19/2000	13.33	40.89	4.91	36.69
	50.02	10/27/2000	11.75	41.80	4.00	38.27
	50.02	11/21/2000	10.64	43.48	2.32	39.38
	50.02	5/1/2001	8.71	43.46	2.34	41.31
	50.02	10/1/2001	8.37		15.00	41.65

Table 1
GROUNDWATER MEASUREMENTS
Houston, TX - Wood Preserving Works

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Depth to DNAPL (ft BTOC)	DNAPL Thickness (ft)	GW Elevation (ft)
MW-12B	50.02	3/14/2002	6.37	36.99	8.81	43.65
	50.02	9/23/2002	6.10	40.03	5.77	43.92
	50.02	3/10/2003	5.45			44.57
	50.02	9/24/2003	6.29	39.85	5.95	43.73
	50.02	3/15/2004	5.63			44.39
	50.02	9/13/2004	10.44	38.72	7.08	39.58
	50.02	7/18/2005	7.14	38.40	7.40	42.88
	50.02	1/4/2006	10.75	35.98	9.82	39.27
	50.02	7/27/2006	6.07	35.74	10.06	43.95
	50.02	3/7/2007	6.96	34.60	11.20	43.06
	50.02	7/27/2007	5.36	33.45	12.35	44.66
	50.02	1/31/2008	5.75	33.34	12.46	44.27
	50.02	7/15/2008	9.38	38.88	6.92	40.64
	50.02	2/4/2009	8.89	38.14	7.66	41.13
	50.02	7/24/2009	9.18	38.51	7.29	40.84
	50.02	1/8/2010	6.81	37.46	8.34	43.21
	50.02	5/27/2010	7.29	39.5	6.30	42.73
	50.02	6/28/2010	7.39	44.1	1.70	42.63
	50.02	7/12/2010	7.47	44.25	1.55	42.55
	50.02	8/31/2010	7.26	45.42	0.38	42.76
	50.02	1/12/2011	7.01	45.39	0.41	43.01
	50.02	7/12/2011	10.09	45.39	0.41	39.93
	50.02	3/8/2012	6.87	40.2	5.60	43.15
	50.02	7/9/2012	7.16	40.1	5.70	42.86
	50.02	1/7/2013	9.17	39.86	5.94	40.85
	50.02	7/22/2013	11.16	39.04	6.76	38.86
	50.02	1/7/2014	11.34	45.12	0.68	38.68
	50.02	7/15/2014	10.59	44.89	0.91	39.43
	50.02	1/5/2015	10.06	44.91	1.29	39.96
	50.02	8/10/2015	7.39	46.1	0.10	42.63
	50.02	1/13/2016	6.06	45.79	0.41	43.96
	50.02	7/6/2016	6.29	45.72	0.48	43.73
	50.02	1/12/2017	7.02	45.81	0.39	43.00
	50.02	7/6/2017	7.01	45.71	1.89	43.01
	50.02	9/5/2017	7.03	45.6	2.00	42.99
	50.02	2/7/2018	7.13	45.87	0.33	42.89
	50.02	3/11/2018	7.42	45.96	0.24	42.6
	50.02	5/14/2018	8.59	45.91	0.29	41.43
	50.02	1/3/2019	7.96	45.87	0.33	42.06
	50.02	7/9/2019	6.67	45.06	1.14	43.35
50.02	1/8/2020	5.66	27.12	19.08	44.36	
50.02	7/8/2020	8.04	BP		41.98	
MW-12C	50.14	5/13/1997	39.34			10.8
	50.14	6/20/1997	38.94			11.2
	50.14	9/25/1997	36.70			13.44
	50.14	10/22/1997	36.09			14.05
	50.14	11/25/1997	36.13			14.01
	50.14	12/19/1997	35.34			14.8
	50.14	1/20/1998	32.60			17.54
	50.14	3/4/1998	31.56			18.58
	50.14	3/18/1998	31.64			18.5
	50.14	4/24/1998	31.06			19.08
	50.14	5/21/1998	38.20			11.94
	50.14	8/25/1998	31.00			19.14
	50.14	9/21/1998	29.86			20.28
	50.14	10/26/1998	30.12			20.02
	50.14	11/23/1998	28.38			21.76
	50.14	1/29/1999	27.61			22.53
	50.14	2/26/1999	27.69			22.45
	50.14	3/16/1999	28.00			22.14
	50.14	4/29/1999	28.21			21.93
	50.14	6/1/1999	28.20			21.94
	50.14	7/30/1999	29.80			20.34
	50.14	8/27/1999	28.41			21.73
	50.14	9/27/1999	29.20			20.94
	50.14	10/29/1999	29.78			20.36
	50.14	11/18/1999	30.17			19.97
	50.14	12/29/1999	29.09			21.05
	50.14	2/4/2000	29.66			20.48
	50.14	2/25/2000	30.32			19.82
	50.14	3/27/2000	28.91			21.23

Table 1
GROUNDWATER MEASUREMENTS
Houston, TX - Wood Preserving Works

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Depth to DNAPL (ft BTOC)	DNAPL Thickness (ft)	GW Elevation (ft)
MW-12C	50.14	4/7/2000	27.40			22.74
	50.14	5/31/2000	27.44			22.7
	50.14	6/1/2000	27.43			22.71
	50.14	7/28/2000	27.45			22.69
	50.14	8/30/2000	33.61			16.53
	50.14	9/19/2000	30.03			20.11
	50.14	10/27/2000	33.94			16.2
	50.14	11/21/2000	29.12			21.02
	50.14	5/1/2001	26.85			23.29
	50.14	10/1/2001	26.85			23.29
	50.14	3/11/2002	25.59			24.55
	50.14	9/23/2002	26.57			23.57
	50.14	3/10/2003	24.85			25.29
	50.14	9/23/2003	26.06			24.08
	50.14	3/15/2004	24.31			25.83
	50.14	9/13/2004	26.15			23.99
	50.14	7/18/2005	26.23			23.91
	50.14	1/4/2006	22.26			27.88
	50.14	7/27/2006	25.28			24.86
	50.14	3/7/2007	23.78			26.36
	50.14	7/27/2007	22.05			28.09
	50.14	1/30/2008	22.69			27.45
	50.14	7/15/2008	24.41			25.73
	50.14	2/4/2009	24.59			25.55
	50.14	7/24/2009	24.91			25.23
	50.14	1/8/2010	23.03			27.11
	50.14	7/12/2010	23.91			26.23
	50.14	1/12/2011	23.76			26.38
	50.14	7/12/2011	25.98			24.16
	50.14	1/26/2012	25.76			24.38
	50.14	7/9/2012	24.59			25.55
	50.14	1/7/2013	26.04			24.1
	50.14	7/22/2013	27.09			23.05
	50.14	1/7/2014	26.52			23.62
	50.14	7/16/2014	25.15			24.99
	50.14	1/5/2015	26.01			24.13
	50.14	8/10/2015	24.26			25.88
	50.14	1/13/2016	23.83			26.31
	50.14	7/6/2016	24.13			26.01
	50.14	1/12/2017	24.49			25.65
50.14	7/6/2017	24.88			25.26	
50.14	9/5/2017	24.84			25.30	
50.14	2/11/2018	25.13			25.01	
50.14	3/11/2018	24.04			26.1	
50.14	4/14/2018	25.96			24.18	
50.14	1/3/2019	25.34			24.8	
50.14	7/9/2019	23.73			26.41	
50.14	1/7/2020	24.61			25.53	
50.14	7/8/2020	24.38			25.76	
MW-13	50.65	3/25/1997	9.43			41.22
	50.65	4/23/1997	9.87			40.78
	50.65	4/24/1997	9.92			40.73
	50.65	5/13/1997	9.30			41.35
	50.65	6/20/1997	10.11			40.54
	50.65	9/25/1997	10.75			39.9
	50.65	10/22/1997	10.09			40.56
	50.65	11/25/1997	10.11			40.54
	50.65	12/19/1997	10.01			40.64
	50.65	1/20/1998	9.32			41.33
	50.65	3/4/1998	9.23			41.42
	50.65	3/18/1998	8.90			41.75
	50.65	4/24/1998	10.74			39.82
	50.65	5/21/1998	12.11			38.54
	50.65	8/25/1998	12.00			38.56
	50.65	9/21/1998	10.13			40.43
	50.65	10/26/1998	11.15			39.41
	50.65	11/23/1998	9.22			41.34
	50.65	1/29/1999	8.00			42.65
	50.65	2/26/1999	8.11			42.54
50.65	3/16/1999	9.51			41.14	
50.65	4/29/1999	9.79			40.86	

**Table 1
GROUNDWATER MEASUREMENTS
Houston, TX - Wood Preserving Works**

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Depth to DNAPL (ft BTOC)	DNAPL Thickness (ft)	GW Elevation (ft)
MW-13	50.65	6/1/1999	9.70			40.95
	50.65	7/30/1999	11.01			39.64
	50.65	8/27/1999	9.96			40.69
	50.65	9/27/1999	12.84			37.81
	50.65	10/29/1999	13.88			36.77
	50.65	11/17/1999	14.00			36.65
	50.65	12/29/1999	13.08			37.57
	50.65	2/4/2000	15.61			35.04
	50.65	2/25/2000	12.17			38.48
	50.65	3/27/2000	10.95			39.7
	50.65	4/7/2000	10.51			40.14
	50.65	5/31/2000	10.57			40.08
	50.65	6/1/2000	10.51			40.14
	50.65	7/28/2000	10.54			40.11
	50.65	8/30/2000	13.63			37.02
	50.65	9/19/2000	14.57			36.08
	50.65	10/27/2000	11.11			39.54
	50.65	11/21/2000	11.44			39.21
	50.65	5/1/2001	10.70			39.95
	50.65	10/1/2001	10.31			40.34
	50.65	3/11/2002	9.62			41.03
	50.65	9/23/2002	9.17			41.48
	50.65	3/10/2003	9.17			41.48
	50.65	9/23/2003	9.14			41.51
	50.65	3/15/2004	9.30			41.35
	50.65	9/13/2004	11.98			38.67
	50.65	7/18/2005	10.25			40.4
	50.65	1/4/2006	12.03			38.62
	50.65	7/27/2006	8.82			41.83
	50.65	3/7/2007	9.95			40.7
	50.65	7/27/2007	8.90			41.75
	50.65	1/30/2008	8.85			41.8
	50.65	7/15/2008	10.89			39.76
	50.65	2/4/2009	10.59			40.06
	50.65	7/23/2009	11.07			39.58
	50.65	1/8/2010	9.22			41.43
	50.65	7/12/2010	11.12			39.53
	50.65	1/12/2011	8.89			41.76
	50.65	7/12/2011	12.96			37.69
	50.65	1/26/2012	9.31			41.34
50.65	7/9/2012	9.14			41.51	
50.65	1/7/2013	10.68			39.97	
50.65	7/22/2013	12.13			38.52	
50.65	1/7/2014	10.13			40.52	
50.65	7/16/2014	11.04			39.61	
50.65	1/5/2015	9.34			41.31	
50.65	8/10/2015	7.67			42.98	
50.65	1/13/2016	7.01			43.64	
50.65	7/6/2016	7.39			43.26	
50.65	1/12/2017	7.81			42.84	
50.65	7/6/2017	7.96			42.69	
50.65	9/5/2017	9.01			41.64	
50.65	2/11/2018	9.58			41.07	
50.65	3/11/2018	10.09			40.56	
50.65	5/14/2018	10.96			39.69	
50.65	1/3/2019	10.52			40.13	
50.65	7/9/2019	10.63			40.02	
50.65	1/7/2020	9.42			41.23	
50.65	7/8/2020	10.34			40.31	
MW-14	50.66	3/25/1997	7.71			42.95
	50.66	4/23/1997	8.31			42.35
	50.66	4/24/1997	8.34			42.32
	50.66	5/13/1997	7.83			42.83
	50.66	6/20/1997	8.64			42.02
	50.66	9/25/1997	9.95			40.71
	50.66	10/22/1997	8.89			41.77
	50.66	11/25/1997	8.86			41.8
	50.66	12/19/1997	8.62			42.04
	50.66	1/20/1998	8.08			42.58
	50.66	3/4/1998	7.72			42.94
	50.66	3/18/1998	7.66			43

**Table 1
GROUNDWATER MEASUREMENTS
Houston, TX - Wood Preserving Works**

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Depth to DNAPL (ft BTOC)	DNAPL Thickness (ft)	GW Elevation (ft)
MW-14	50.66	4/24/1998	9.75			40.91
	50.66	5/21/1998	11.00			39.66
	50.66	8/25/1998	12.00			38.66
	50.66	9/21/1998	9.41			41.25
	50.66	10/26/1998	11.10			39.56
	50.66	11/23/1998	8.08			42.58
	50.66	1/29/1999	7.10			43.56
	50.66	2/26/1999	7.21			43.45
	50.66	3/16/1999	8.74			41.92
	50.66	4/29/1999	8.93			41.73
	50.66	6/1/1999	8.92			41.74
	50.66	7/30/1999	10.44			40.22
	50.66	8/27/1999	9.21			41.45
	50.66	9/27/1999	12.56			38.1
	50.66	10/29/1999	13.56			37.1
	50.66	11/17/1999	13.63			37.03
	50.66	12/29/1999	12.88			37.78
	50.66	2/4/2000	14.22			36.44
	50.66	2/25/2000	11.73			38.93
	50.66	3/27/2000	10.54			40.12
	50.66	4/7/2000	10.14			40.52
	50.66	5/31/2000	10.17			40.49
	50.66	6/1/2000	10.13			40.53
	50.66	7/28/2000	10.17			40.49
	50.66	8/30/2000	13.22			37.44
	50.66	9/19/2000	14.27			36.39
	50.66	10/27/2000	11.56			39.1
	50.66	11/21/2000	11.17			39.49
	50.66	5/1/2001	9.71			40.95
	50.66	10/1/2001	10.64			40.02
	50.66	3/11/2002	8.45			42.21
	50.66	9/23/2002	7.90			42.76
	50.66	3/10/2003	8.59			42.07
	50.66	9/23/2003	7.70			42.96
	50.66	3/15/2004	7.96			42.7
	50.66	9/13/2004	11.05			39.61
	50.66	7/18/2005	9.55			41.11
	50.66	1/4/2006	11.83			38.83
	50.66	7/27/2006	7.80			42.86
	50.66	3/7/2007	8.96			41.7
	50.66	7/27/2007	8.01			42.65
	50.66	1/30/2008	7.66			43
50.66	7/15/2008	10.41			40.25	
50.66	2/4/2009	10.27			40.39	
50.66	7/23/2009	10.67			39.99	
50.66	1/8/2010	8.24			42.42	
50.66	7/12/2010	10.54			40.12	
50.66	1/12/2011	18.09			32.57	
50.66	7/12/2011	12.93			37.73	
50.66	1/26/2012	8.57			42.09	
50.66	7/9/2012	8.61			42.05	
50.66	1/7/2013	10.46			40.2	
50.66	7/22/2013	11.91			38.75	
50.66	1/7/2014	9.39			41.27	
50.66	7/16/2014	10.58			40.08	
50.66	1/5/2015	8.79			41.87	
50.66	8/10/2015	6.34			44.32	
50.66	1/13/2016	5.79			44.87	
50.66	7/6/2016	6.06			44.60	
50.66	1/12/2017	6.59			44.07	
50.66	7/6/2017	6.92			43.74	
50.66	9/5/2017	6.83			43.83	
50.66	2/11/2018	8.66			42.00	
50.66	3/11/2018	8.99			41.67	
50.66	5/14/2018	10.09			40.57	
50.66	1/3/2019	9.37			41.29	
50.66	7/9/2019	9.57			41.09	
50.66	1/7/2020	8.39			42.27	
50.66	7/8/2020	9.21			41.45	
MW-15A	50.41	3/25/1997	8.22			42.19
	50.41	4/23/1997	8.28			42.13

Table 1
GROUNDWATER MEASUREMENTS
Houston, TX - Wood Preserving Works

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Depth to DNAPL (ft BTOC)	DNAPL Thickness (ft)	GW Elevation (ft)
MW-15A	50.41	4/24/1997	8.51			41.9
	50.41	5/13/1997	8.06			42.35
	50.41	6/20/1997	8.64			41.77
	50.41	9/25/1997	9.75			40.66
	50.41	10/22/1997	9.09			41.32
	50.41	11/25/1997	9.13			41.28
	50.41	12/19/1997	8.89			41.52
	50.41	1/20/1998	8.35			42.06
	50.41	3/4/1998	8.09			42.32
	50.41	3/18/1998	7.98			42.43
	50.41	4/24/1998	9.57			40.84
	50.41	5/21/1998	11.10			39.31
	50.41	8/25/1998	11.78			38.63
	50.41	9/21/1998	9.59			40.82
	50.41	10/26/1998	10.69			39.72
	50.41	11/23/1998	8.46			41.95
	50.41	1/29/1999	7.11			43.3
	50.41	2/26/1999	7.23			43.18
	50.41	3/16/1999	9.17			41.24
	50.41	4/29/1999	9.29			41.12
	50.41	6/1/1999	9.29			41.12
	50.41	7/30/1999	10.83			39.58
	50.41	8/27/1999	9.39			41.02
	50.41	9/27/1999	12.02			38.39
	50.41	10/29/1999	13.11			37.3
	50.41	11/17/1999	13.44			36.97
	50.41	12/29/1999	12.49			37.92
	50.41	2/4/2000	15.71			34.7
	50.41	2/25/2000	11.34			39.07
	50.41	3/27/2000	10.66			39.75
	50.41	4/7/2000	10.20			40.21
	50.41	5/31/2000	10.23			40.18
	50.41	6/1/2000	10.22			40.19
	50.41	7/28/2000	10.23			40.18
	50.41	8/30/2000	13.34			37.07
	50.41	9/19/2000	14.01			36.4
	50.41	10/27/2000	11.77			38.64
	50.41	11/21/2000	11.09			39.32
	50.41	5/1/2001	9.85			40.56
	50.41	10/1/2001	9.73			40.68
	50.41	3/11/2002	8.81			41.6
	50.41	9/23/2002	8.21			42.2
	50.41	3/10/2003	7.76			42.65
	50.41	9/23/2003	7.87			42.54
	50.41	3/15/2004	7.94			42.47
	50.41	9/13/2004	10.72			39.69
	50.41	7/18/2005	9.33			41.08
	50.41	1/4/2006	11.66			38.75
	50.41	7/27/2006	7.92			42.49
	50.41	3/7/2007	9.19			41.22
	50.41	7/27/2007	7.88			42.53
	50.41	1/30/2008	8.02			42.39
	50.41	7/15/2008	10.26			40.15
	50.41	2/4/2009	10.59			39.82
	50.41	7/23/2009	11.01			39.4
	50.41	1/8/2010	8.64			41.77
	50.41	7/12/2010	10.81			39.6
	50.41	1/12/2011	8.77			41.64
	50.41	7/12/2011	12.78			37.63
	50.41	1/26/2012	9.29			41.12
	50.41	7/9/2012	5.92			44.49
	50.41	1/7/2013	10.77			39.64
	50.41	7/22/2013	12.21			38.2
	50.41	1/7/2014	9.85			40.56
	50.41	7/16/2014	10.65			39.76
	50.41	1/5/2015	9.07			41.34
	50.41	8/10/2015	6.49			43.92
	50.41	1/13/2016	5.79			44.62
	50.41	7/6/2016	6.21			44.20
	50.41	1/12/2017	6.82			43.59
	50.41	7/6/2017	7.47			42.94

Table 1
GROUNDWATER MEASUREMENTS
Houston, TX - Wood Preserving Works

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Depth to DNAPL (ft BTOC)	DNAPL Thickness (ft)	GW Elevation (ft)
MW-15A	50.41	9/5/2017	7.43			42.98
	50.41	2/11/2018	8.89			41.52
	50.41	3/11/2018	9.23			41.18
	50.41	5/14/2018	10.18			40.23
	50.41	1/3/2019	9.41			41
	50.41	7/9/2019	9.03			41.38
	50.41	1/7/2020	8.57			41.84
	50.41	7/7/2020	9.41			41.00
MW-15B	50.20	1/26/2012	10.13			40.07
	50.20	7/9/2012	8.32			41.88
	50.20	1/7/2013	10.71			39.49
	50.20	7/22/2013	11.97			38.23
	50.20	1/7/2014	9.81			40.39
	50.20	7/15/2014	10.36			39.84
	50.20	1/5/2015	9.26			40.94
	50.20	8/10/2015	7.29			42.91
	50.20	1/13/2016	6.81			43.39
	50.20	7/6/2016	7.56			42.64
	50.20	1/12/2017	8.09			42.11
	50.20	7/6/2017	8.61			41.59
	50.20	9/5/2017	8.56			41.64
	50.20	2/11/2018	8.74			41.46
	50.20	3/11/2018	9.09			41.11
	50.20	5/14/2018	9.91			40.29
	50.20	1/3/2019	9.4			40.8
	50.20	7/9/2019	9.23			40.97
	50.20	1/7/2020	8.39			41.81
	50.20	7/7/2020	9.15			41.05
MW-15C	50.01	5/13/1997	33.46			16.55
	50.01	6/20/1997	34.18			15.83
	50.01	9/25/1997	33.77			16.24
	50.01	10/22/1997	32.89			17.12
	50.01	11/25/1997	32.95			17.06
	50.01	12/19/1997	32.01			18
	50.01	1/20/1998	29.90			20.11
	50.01	3/4/1998	28.56			21.45
	50.01	3/18/1998	28.53			21.48
	50.01	4/24/1998	28.46			21.55
	50.01	5/21/1998	35.00			15.01
	50.01	8/25/1998	29.30			20.71
	50.01	9/21/1998	28.15			21.86
	50.01	10/26/1998	28.11			21.9
	50.01	11/23/1998	26.50			23.51
	50.01	1/29/1999	25.44			24.57
	50.01	2/26/1999	25.51			24.5
	50.01	3/16/1999	26.11			23.9
	50.01	4/29/1999	26.33			23.68
	50.01	6/1/1999	26.39			23.62
	50.01	7/30/1999	27.99			22.02
	50.01	8/27/1999	26.51			23.5
	50.01	9/27/1999	27.46			22.55
	50.01	10/29/1999	28.26			21.75
	50.01	11/17/1999	28.55			21.46
	50.01	12/29/1999	27.61			22.4
	50.01	2/4/2000	28.11			21.9
	50.01	2/25/2000	28.23			21.78
	50.01	3/27/2000	27.45			22.56
	50.01	4/7/2000	26.11			23.9
	50.01	5/31/2000	26.13			23.88
	50.01	6/1/2000	26.03			23.98
	50.01	7/28/2000	26.14			23.87
	50.01	8/30/2000	29.11			20.9
	50.01	9/19/2000	28.67			21.34
	50.01	10/27/2000	27.64			22.37
	50.01	11/21/2000	27.56			22.45
	50.01	5/1/2001	25.24			24.77
	50.01	10/1/2001	25.40			24.61
	50.01	3/11/2002	24.17			25.84
50.01	9/23/2002	25.35			24.66	
50.01	3/10/2003	23.52			26.49	
50.01	9/23/2003	24.88			25.13	

Table 1
GROUNDWATER MEASUREMENTS
Houston, TX - Wood Preserving Works

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Depth to DNAPL (ft BTOC)	DNAPL Thickness (ft)	GW Elevation (ft)
MW-15C	50.01	3/15/2004	22.97			27.04
	50.01	9/13/2004	24.80			25.21
	50.01	7/18/2005	25.17			24.84
	50.01	1/4/2006	26.23			23.78
	50.01	7/27/2006	24.31			25.7
	50.01	3/7/2007	22.76			27.25
	50.01	7/27/2007	21.03			28.98
	50.01	1/30/2008	21.80			28.21
	50.01	7/15/2008	23.63			26.38
	50.01	2/4/2009	23.73			26.28
	50.01	7/23/2009	23.96			26.05
	50.01	1/8/2010	21.88			28.13
	50.01	7/12/2010	23.08			26.93
	50.01	1/12/2011	23.04			26.97
	50.01	7/12/2011	25.09			24.92
	50.01	1/26/2012	24.37			25.64
	50.01	7/9/2012	24.41			25.6
	50.01	1/7/2013	25.21			24.8
	50.01	7/22/2013	26.10			23.91
	50.01	1/7/2014	25.26			24.75
	50.01	7/16/2014	24.15			25.86
	50.01	1/5/2015	25.34			24.67
	50.01	8/10/2015	22.74			27.27
	50.01	1/13/2016	21.92			28.09
	50.01	7/6/2016	22.26			27.75
	50.01	1/12/2017	22.69			27.32
	50.01	7/6/2017	23.31			26.70
	50.01	9/5/2017	23.29			26.72
	50.01	2/11/2018	23.63			26.38
	50.01	3/11/2018	22.47			27.54
	50.01	5/14/2018	23.33			26.68
	50.01	1/3/2019	23.87			26.14
	50.01	7/9/2019	22.38			27.63
50.01	1/7/2020	23.12			26.89	
50.01	7/7/2020	23.09			26.92	
MW-16	51.51	3/25/1997	7.41			44.1
	51.51	4/23/1997	8.44			43.07
	51.51	4/24/1997	8.52			42.99
	51.51	5/13/1997	8.29			43.22
	51.51	6/20/1997	8.41			43.1
	51.51	9/25/1997	10.71			40.8
	51.51	10/22/1997	9.53			41.98
	51.51	11/25/1997	9.55			41.96
	51.51	12/19/1997	9.10			42.41
	51.51	1/20/1998	8.60			42.91
	51.51	3/4/1998	8.13			43.38
	51.51	3/18/1998	8.59			42.92
	51.51	4/24/1998	9.96			41.55
	51.51	5/21/1998	11.43			40.08
	51.51	7/30/1998	12.56			38.95
	51.51	8/25/1998	11.53			39.98
	51.51	9/21/1998	9.81			41.7
	51.51	10/26/1998	10.44			41.07
	51.51	11/23/1998	8.98			42.53
	51.51	1/29/1999	7.12			44.39
	51.51	2/26/1999	7.23			44.28
	51.51	3/16/1999	10.06			41.45
	51.51	4/29/1999	10.16			41.35
	51.51	6/1/1999	10.16			41.35
	51.51	7/30/1999	11.76			39.75
	51.51	8/27/1999	10.33			41.18
	51.51	9/27/1999	11.79			39.72
	51.51	10/29/1999	12.93			38.58
	51.51	11/17/1999	13.71			37.8
	51.51	12/29/1999	12.20			39.31
	51.51	2/4/2000	15.11			36.4
	51.51	2/25/2000	11.10			40.41
	51.51	3/27/2000	11.48			40.03
51.51	4/7/2000	11.09			40.42	
51.51	5/31/2000	11.11			40.4	
51.51	6/1/2000	11.00			40.51	

**Table 1
GROUNDWATER MEASUREMENTS
Houston, TX - Wood Preserving Works**

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Depth to DNAPL (ft BTOC)	DNAPL Thickness (ft)	GW Elevation (ft)
MW-16	51.51	7/28/2000	11.11			40.4
	51.51	8/30/2000	13.10			38.41
	51.51	9/19/2000	14.83			36.68
	51.51	10/27/2000	11.66			39.85
	51.51	11/21/2000	11.29			40.22
	51.51	5/1/2001	9.92			41.59
	51.51	10/1/2001	9.93			41.58
	51.51	3/11/2002	9.12			42.39
	51.51	9/23/2002	8.65			42.86
	51.51	3/10/2003	7.74			43.77
	51.51	9/23/2003	8.48			43.03
	51.51	3/15/2004	8.09			43.42
	51.51	9/13/2004	10.38			41.13
	51.51	7/18/2005	10.42			41.09
	51.51	1/4/2006	12.48			39.03
	51.51	7/27/2006	9.37			42.14
	51.51	3/7/2007	9.66			41.85
	51.51	7/27/2007	7.85			43.66
	51.51	1/31/2008	8.42	25.40	3.40	43.09
	51.51	7/15/2008	10.16			41.35
	51.51	2/5/2009	11.93			39.58
	51.51	7/23/2009	12.67			38.84
	51.51	1/8/2010	8.66			42.85
	51.51	7/12/2010	10.31			41.2
	51.51	1/12/2011	9.89			41.62
	51.51	7/12/2011	12.98			38.53
	51.51	1/26/2012	9.92			41.59
	51.51	7/9/2012	9.68			41.83
	51.51	1/7/2013	11.41			40.1
	51.51	7/22/2013	12.39			39.12
	51.51	1/7/2014	12.02			39.49
	51.51	7/15/2014	9.69			41.82
51.51	1/5/2015	11.07			40.44	
51.51	8/10/2015	9.42			42.09	
MW-17	50.92	3/25/1997	9.97			40.95
	50.92	4/23/1997	10.41			40.51
	50.92	4/24/1997	10.51			40.41
	50.92	5/13/1997	10.32			40.6
	50.92	6/20/1997	11.07			39.85
	50.92	9/25/1997	12.39			38.53
	50.92	10/22/1997	11.19			39.73
	50.92	11/25/1997	11.21			39.71
	50.92	12/19/1997	11.01			39.91
	50.92	1/20/1998	10.25			40.67
	50.92	3/4/1998	9.93			40.99
	50.92	3/18/1998	9.94			40.98
	50.92	4/9/1998	11.32			39.6
	50.92	4/16/1998	11.52			39.4
	50.92	4/24/1998	11.80			39.12
	50.92	5/8/1998	NM			
	50.92	5/12/1998	NM			
	50.92	5/21/1998	13.30			37.62
	50.92	5/25/1998	NM			
	50.92	6/9/1998	NM			
	50.92	6/16/1998	NM			
	50.92	6/26/1998	NM			
	50.92	7/2/1998	NM			
	50.92	7/10/1998	NM			
	50.92	7/14/1998	NM			
	50.92	7/23/1998	NM			
	50.92	8/5/1998	NM			
	50.92	8/13/1998	NM			
	50.92	8/25/1998	13.78			37.14
	50.92	9/15/1998	NM			
	50.92	9/21/1998	11.49			39.43
	50.92	9/30/1998	NM			
50.92	10/8/1998	NM				
50.92	10/16/1998	NM				
50.92	10/26/1998	12.22			38.7	
50.92	11/6/1998	NM				
50.92	11/13/1998	NM				

Table 1
GROUNDWATER MEASUREMENTS
Houston, TX - Wood Preserving Works

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Depth to DNAPL (ft BTOC)	DNAPL Thickness (ft)	GW Elevation (ft)
MW-17	50.92	11/19/1998	NM			
	50.92	11/23/1998	10.21			40.71
	50.92	12/16/1998	NM			
	50.92	1/7/1999	NM			
	50.92	1/15/1999	NM			
	50.92	1/22/1999	NM			
	50.92	1/26/1999	NM			
	50.92	1/29/1999	10.88			40.04
	50.92	2/4/1999	NM			
	50.92	2/9/1999	NM			
	50.92	2/26/1999	10.93			39.99
	50.92	3/16/1999	11.18			39.74
	50.92	4/29/1999	11.00			39.92
	50.92	5/21/1999	11.25			39.67
	50.92	5/27/1999	11.31			39.61
	50.92	6/1/1999	11.07			39.85
	50.92	6/10/1999	11.28			39.64
	50.92	7/30/1999	12.67			38.25
	50.92	8/27/1999	11.27			39.65
	50.92	9/27/1999	14.67			36.25
	50.92	10/29/1999	15.11			35.81
	50.92	11/17/1999	16.08			34.84
	50.92	12/29/1999	14.43			36.49
	50.92	2/4/2000	17.21			33.71
	50.92	2/25/2000	13.63			37.29
	50.92	3/27/2000	13.08	32.60	0.70	37.84
	50.92	4/7/2000	12.63	32.30	1.00	38.29
	50.92	5/31/2000	12.67	32.30	1.00	38.25
	50.92	6/1/2000	12.61	32.30	1.00	38.31
	50.92	7/28/2000	12.69	32.30	1.00	38.23
	50.92	8/30/2000	15.56			35.36
	50.92	9/19/2000	16.24	32.20	1.10	34.68
	50.92	10/27/2000	14.10			36.82
	50.92	11/21/2000	13.12			37.8
	50.92	5/1/2001	11.82	32.44	0.86	39.1
	50.92	10/1/2001	12.55	32.30	1.00	38.37
	50.92	3/14/2002	10.91	31.79	1.51	40.01
	50.92	9/23/2002	10.48			40.44
	50.92	3/10/2003	9.76			41.16
	50.92	9/24/2003	10.59	32.85	0.45	40.33
	50.92	3/15/2004	10.15			40.77
	50.92	9/13/2004	13.09			37.83
	50.92	7/18/2005	12.06	32.90	0.40	38.86
	50.92	1/4/2006	13.90	32.90	0.40	37.02
	50.92	7/27/2006	10.71	33.28	0.02	40.21
	50.92	3/7/2007	10.91	33.00	0.30	40.01
	50.92	7/27/2007	9.33	33.02	0.28	41.59
	50.92	1/31/2008	10.00	31.17	2.13	40.92
	50.92	7/15/2008	12.95	33.08	0.23	37.97
	50.92	2/4/2009	12.64	Trace	Trace	38.28
50.92	1/8/2010	10.62			40.3	
50.92	7/12/2010	12.96			37.96	
50.92	7/12/2010	12.96			37.96	
50.92	1/12/2011	11.06			39.86	
50.92	7/12/2011	14.93			35.99	
50.92	1/26/2012	11.2			39.72	
50.92	7/9/2012	11.02			39.9	
50.92	1/7/2013	13.14			37.78	
50.92	7/22/2013	14.62			36.3	
50.92	1/7/2014	12.36			38.56	
50.92	7/15/2014	12.54			38.38	
50.92	1/5/2015	11.71			39.21	
50.92	8/10/2015	9.61			41.31	
50.92	1/13/2016	9.02			41.90	
50.92	7/6/2016	9.47			41.45	
50.92	1/12/2017	10.06			40.86	
50.92	7/6/2017	10.62			40.30	
50.92	9/5/2017	10.51			40.41	
50.92	2/11/2018	10.76			40.16	
50.92	3/11/2018	11.21			39.71	
50.92	5/14/2018	12.21			38.71	

Table 1
GROUNDWATER MEASUREMENTS
Houston, TX - Wood Preserving Works

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Depth to DNAPL (ft BTOC)	DNAPL Thickness (ft)	GW Elevation (ft)
MW-17	50.92	1/3/2019	11.72			39.2
	50.92	7/9/2019	11.66			39.26
	50.92	1/7/2020	8.23			42.69
	50.92	7/7/2020	11.3			39.62
MW-17C	50.17	3/15/2004	22.75			27.42
	50.17	9/13/2004	24.56			25.61
	50.17	7/18/2005	25.02			25.15
	50.17	1/4/2006	26.07			24.1
	50.17	7/27/2006	24.15			26.02
	50.17	3/7/2007	22.51			27.66
	50.17	7/27/2007	20.93			29.24
	50.17	1/30/2008	21.74			28.43
	50.17	7/15/2008	23.65			26.52
	50.17	2/4/2009	23.72			26.45
	50.17	7/23/2009	24.08			26.09
	50.17	1/8/2010	21.98			28.19
	50.17	7/12/2010	23.03			27.14
	50.17	1/12/2011	23.16			27.01
	50.17	7/12/2011	25.11			25.06
	50.17	1/26/2012	24.27			25.9
	50.17	7/9/2012	24.32			25.85
	50.17	1/7/2013	24.76			25.41
	50.17	7/22/2013	25.89			24.28
	50.17	1/7/2014	25.06			25.11
	50.17	7/15/2014	23.98			26.19
	50.17	1/5/2015	24.62			25.55
	50.17	8/10/2015	22.47			27.70
	50.17	1/13/2016	21.81			28.36
	50.17	7/6/2016	22.16			28.01
	50.17	1/12/2017	22.67			27.50
	50.17	7/6/2017	23.09			27.08
	50.17	9/5/2017	23.01			27.16
	50.17	2/11/2018	23.11			27.06
	50.17	3/11/2018	22.21			27.96
	50.17	5/14/2018	23.02			27.15
50.17	1/3/2019	22.71			27.46	
50.17	7/9/2019	22.14			28.03	
50.17	1/7/2020	23.21			26.96	
50.17	7/7/2020	22.88			27.29	
MW-18A	51.57	3/25/1997	15.41			36.16
	51.57	4/23/1997	15.80			35.77
	51.57	5/13/1997	14.92			36.65
	51.57	6/20/1997	16.02			35.55
	51.57	9/25/1997	15.15			36.42
	51.57	10/22/1997	16.38			35.19
	51.57	11/25/1997	16.37			35.2
	51.57	12/19/1997	16.11			35.46
	51.57	1/20/1998	15.49			36.08
	51.57	3/4/1998	15.19			36.38
	51.57	3/18/1998	14.28			37.29
	51.57	4/24/1998	17.53			34.04
	51.57	5/21/1998	18.41			33.16
	51.57	7/30/1998	18.59			32.98
	51.57	8/25/1998	16.95			34.62
	51.57	9/21/1998	16.39			35.18
	51.57	10/26/1998	15.77			35.8
	51.57	11/23/1998	16.26			35.31
	51.57	1/29/1999	17.02			34.55
	51.57	2/26/1999	17.11			34.46
	51.57	4/29/1999	16.01			35.56
	51.57	6/1/1999	16.11			35.46
	51.57	7/30/1999	17.55			34.02
	51.57	8/27/1999	16.39			35.18
	51.57	9/27/1999	19.13			32.44
	51.57	10/29/1999	20.50			31.07
	51.57	11/17/1999	21.63			29.94
	51.57	12/29/1999	19.83			31.74
	51.57	2/4/2000	23.71			27.86
	51.57	2/25/2000	18.80			32.77
	51.57	3/27/2000	17.98			33.59
51.57	4/7/2000	17.61			33.96	

Table 1
GROUNDWATER MEASUREMENTS
Houston, TX - Wood Preserving Works

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Depth to DNAPL (ft BTOC)	DNAPL Thickness (ft)	GW Elevation (ft)
MW-18A	51.57	5/31/2000	17.65			33.92
	51.57	6/1/2000	17.60			33.97
	51.57	7/28/2000	17.67			33.9
	51.57	8/30/2000	20.30			31.27
	51.57	9/19/2000	19.54			32.03
	51.57	10/27/2000	18.75			32.82
	51.57	11/21/2000	16.52			35.05
	51.57	5/1/2001	17.91	27.85	7.94	33.66
	51.57	10/1/2001	17.47			34.1
	51.57	3/11/2002	16.68			34.89
	51.57	9/23/2002	15.30			36.27
	51.57	3/10/2003	15.77			35.8
	51.57	9/23/2003	25.08			26.49
	51.57	3/15/2004	15.58			35.99
	51.57	9/13/2004	18.32			33.25
	51.57	7/18/2005	14.88			36.69
	51.57	1/4/2006	17.96			33.61
	51.57	7/27/2006	14.15			37.42
	51.57	3/7/2007	17.32			34.25
	51.57	7/27/2007	15.22			36.35
	51.57	1/30/2008	15.63			35.94
	51.57	7/15/2008	17.43			34.14
	51.57	2/5/2009	18.67			32.9
	51.57	7/23/2009	19.03			32.54
	51.57	1/8/2010	16.51			35.06
	51.57	7/12/2010	18.11			33.46
	51.57	1/12/2011	15.82			35.75
	51.57	7/12/2011	19.02			32.55
	51.57	1/26/2012	16.9			34.67
	51.57	7/9/2012	15.06			36.51
	51.57	1/7/2013	18.39			33.18
	51.57	7/22/2013	18.74			32.83
	51.57	1/7/2014	18.06			33.51
	51.57	7/16/2014	18.14			33.43
	51.57	1/5/2015	17.39			34.18
	51.57	8/10/2015	15.02			36.55
	51.57	1/13/2016	14.36			37.21
	51.57	7/6/2016	14.71			36.86
	51.57	1/12/2017	15.09			36.48
	51.57	7/6/2017	15.59			35.98
51.57	9/5/2017	15.49			36.08	
51.57	2/11/2018	16.62			34.95	
51.57	3/11/2018	17.12			34.45	
51.57	5/14/2018	17.71			33.86	
51.57	1/3/2019	17.52			34.05	
51.57	7/9/2019	17.51			34.06	
51.57	1/7/2020	17.71			33.86	
51.57	7/7/2020	16.45			35.12	
MW-18C	51.47	5/13/1997	29.45			22.02
	51.47	6/20/1997	30.37			21.1
	51.47	9/25/1997	31.53			19.94
	51.47	10/22/1997	30.71			20.76
	51.47	11/25/1997	30.75			20.72
	51.47	12/19/1997	30.10			21.37
	51.47	1/20/1998	28.30			23.17
	51.47	3/4/1998	27.03			24.44
	51.47	3/18/1998	26.81			24.66
	51.47	4/9/1998	27.04			24.43
	51.47	4/16/1998	27.03			24.44
	51.47	4/24/1998	27.25			24.22
	51.47	5/8/1998	NM			
	51.47	5/12/1998	NM			
	51.47	5/21/1998	27.68			23.79
	51.47	5/25/1998	NM			
	51.47	6/9/1998	NM			
	51.47	6/16/1998	NM			
	51.47	6/26/1998	NM			
	51.47	7/2/1998	NM			
51.47	7/10/1998	NM				
51.47	7/14/1998	NM				
51.47	7/23/1998	NM				

Table 1
GROUNDWATER MEASUREMENTS
Houston, TX - Wood Preserving Works

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Depth to DNAPL (ft BTOC)	DNAPL Thickness (ft)	GW Elevation (ft)
MW-18C	51.47	7/30/1998	28.40			23.07
	51.47	8/5/1998	NM			
	51.47	8/13/1998	NM			
	51.47	8/25/1998	28.88			22.59
	51.47	9/15/1998	NM			
	51.47	9/21/1998	27.94			23.53
	51.47	9/30/1998	NM			
	51.47	10/8/1998	NM			
	51.47	10/16/1998	NM			
	51.47	10/26/1998	27.62			23.85
	51.47	11/6/1998	NM			
	51.47	11/11/1998	26.85		0.67	24.62
	51.47	11/19/1998	NM			
	51.47	11/23/1998	26.21			25.26
	51.47	12/16/1998	NM			
	51.47	1/7/1999	NM			
	51.47	1/15/1999	NM			
	51.47	1/22/1999	NM			
	51.47	1/26/1999	NM			
	51.47	1/29/1999	25.36			26.11
	51.47	2/4/1999	NM			
	51.47	2/9/1999	NM			
	51.47	2/26/1999	25.41			26.06
	51.47	4/29/1999	26.33			25.14
	51.47	5/21/1999	25.75			25.72
	51.47	5/27/1999	25.76			25.71
	51.47	6/1/1999	26.38			25.09
	51.47	6/10/1999	25.68			25.79
	51.47	7/30/1999	25.61			25.86
	51.47	8/27/1999	26.51			24.96
	51.47	9/27/1999	27.28			24.19
	51.47	10/29/1999	27.95			23.52
	51.47	11/17/1999	28.42			23.05
	51.47	12/29/1999	27.26			24.21
	51.47	2/4/2000	27.84			23.63
	51.47	2/25/2000	27.83			23.64
	51.47	3/27/2000	27.48			23.99
	51.47	4/7/2000	25.80			25.67
	51.47	5/31/2000	25.83			25.64
	51.47	6/1/2000	25.81			25.66
	51.47	7/28/2000	25.86			25.61
	51.47	8/30/2000	28.42			23.05
	51.47	9/19/2000	28.77	80.44	0.97	22.7
	51.47	10/27/2000	28.69			22.78
	51.47	11/21/2000	27.67			23.8
	51.47	5/1/2001	25.20			26.27
	51.47	10/1/2001	25.59			25.8
	51.47	3/14/2002	24.35			27.12
	51.47	9/25/2002	25.45			26.02
	51.47	3/10/2003	23.60			27.87
	51.47	9/24/2003	25.15			26.32
	51.47	3/15/2004	24.23			27.24
	51.47	9/13/2004	25.12	78.22	1.70	26.35
	51.47	7/18/2005	25.50	66.20	0.30	25.97
	51.47	1/4/2006	26.71			24.76
	51.47	7/27/2006	24.80			26.67
	51.47	3/7/2007	23.11			28.36
	51.47	7/27/2007	24.80			26.67
	51.47	1/30/2008	22.64			28.83
	51.47	7/15/2008	24.43			27.04
	51.47	2/5/2009	24.34			27.13
	51.47	7/23/2009	24.61			26.86
	51.47	1/8/2010	22.56			28.91
	51.47	7/12/2010	23.77			27.7
	51.47	1/12/2011	24.03			27.44
	51.47	7/12/2011	25.87			25.6
	51.47	1/26/2012	26.82			24.65
	51.47	7/9/2012	24.82			26.65
	51.47	1/7/2013	25.61			25.86
	51.47	7/22/2013	26.76			24.71
	51.47	1/7/2014	25.68			25.79

Table 1
GROUNDWATER MEASUREMENTS
Houston, TX - Wood Preserving Works

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Depth to DNAPL (ft BTOC)	DNAPL Thickness (ft)	GW Elevation (ft)
MW-18C	51.47	7/16/2014	24.60			26.87
	51.47	1/5/2015	25.02			26.45
	51.47	8/10/2015	23.41			28.06
	51.47	1/13/2016	22.76			28.71
	51.47	7/6/2016	23.12			28.35
	51.47	1/12/2017	23.73			27.74
	51.47	7/6/2017	24.13			27.34
	51.47	9/5/2017	24.08			27.39
	51.47	2/11/2018	23.7			27.77
	51.47	3/11/2018	22.88			28.59
	51.47	5/14/2018	23.47			28.00
	51.47	1/3/2019	23.01			28.46
	51.47	7/9/2019	23.08			28.39
	51.47	1/7/2020	23.54			27.93
	51.47	7/7/2020	23.48			27.99
MW-19C	53.05	11/23/1998	28.84			24.21
	53.05	1/29/1999	28.21			24.84
	53.05	2/26/1999	28.28			24.77
	53.05	3/16/1999	28.31			24.74
	53.05	4/29/1999	28.56			24.49
	53.05	6/1/1999	28.48			24.57
	53.05	7/30/1999	30.00			23.05
	53.05	8/27/1999	28.61			24.44
	53.05	9/27/1999	29.72			23.33
	53.05	10/29/1999	30.46			22.59
	53.05	11/17/1999	30.76			22.29
	53.05	12/29/1999	29.44			23.61
	53.05	2/4/2000	30.22			22.83
	53.05	2/25/2000	29.93			23.12
	53.05	3/27/2000	29.80			23.25
	53.05	4/7/2000	28.40			24.65
	53.05	5/31/2000	28.44			24.61
	53.05	6/1/2000	28.33			24.72
	53.05	7/28/2000	28.37			24.68
	53.05	8/30/2000	29.99			23.06
	53.05	9/19/2000	30.97			22.08
	53.05	10/27/2000	28.49			24.56
	53.05	11/21/2000	29.88			23.17
	53.05	5/1/2001	27.61	71.55	3.56	25.44
	53.05	10/1/2001	27.84			25.21
	53.05	3/11/2002	26.68			26.37
	53.05	9/23/2002	27.66			25.39
	53.05	3/10/2003	25.77			27.28
	53.05	9/23/2003	27.21			25.84
	53.05	3/15/2004	25.36			27.69
	53.05	9/13/2004	27.20			25.85
	53.05	7/18/2005	27.71			25.34
	53.05	1/4/2006	28.78			24.27
	53.05	7/27/2006	26.91			26.14
	53.05	3/7/2007	25.22			27.83
	53.05	7/27/2007	23.71			29.34
	53.05	1/31/2008	24.57			28.48
	53.05	7/15/2008	26.38			26.67
	53.05	2/4/2009	26.44			26.61
	53.05	7/23/2009	26.81			26.24
	53.05	1/9/2010	24.47			28.58
	53.05	7/12/2010	25.67			27.38
	53.05	1/12/2011	25.86			27.19
	53.05	7/12/2011	27.81			25.24
	53.05	1/26/2012	26.74			26.31
53.05	7/9/2012	27.26			25.79	
53.05	1/7/2013	27.73			25.32	
53.05	7/22/2013	28.58			24.47	
53.05	1/7/2014	27.71			25.34	
53.05	7/15/2014	26.65			26.40	
53.05	1/5/2015	27.34			25.71	
53.05	8/10/2015	25.21			27.84	
53.05	1/13/2016	24.68			28.37	
53.05	7/6/2016	NM				
53.05	2/11/2018	21.74			31.31	
53.05	3/11/2018	24.74			28.31	

Table 1
GROUNDWATER MEASUREMENTS
Houston, TX - Wood Preserving Works

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Depth to DNAPL (ft BTOC)	DNAPL Thickness (ft)	GW Elevation (ft)
MW-19C	53.05	5/14/2018	25.72			27.33
	53.05	1/3/2019	25.03			28.02
	53.05	7/9/2019	24.58			28.47
	53.05	1/8/2020	25.71			27.34
	53.05	7/7/2020	25.55			27.50
MW-20A	50.43	11/23/1998	8.31			42.116
	50.43	1/29/1999	8.70			41.726
	50.43	2/26/1999	8.81			41.616
	50.43	3/16/1999	9.26			41.166
	50.43	4/29/1999	9.33			41.096
	50.43	6/1/1999	9.30			41.126
	50.43	7/30/1999	10.91			39.516
	50.43	8/27/1999	9.56			40.866
	50.43	9/27/1999	10.79			39.636
	50.43	10/29/1999	11.96			38.466
	50.43	11/17/1999	13.06			37.366
	50.43	12/29/1999	11.11			39.316
	50.43	2/4/2000	14.89			35.536
	50.43	2/25/2000	10.33			40.096
	50.43	3/27/2000	10.79			39.636
	50.43	4/7/2000	10.41			40.016
	50.43	5/31/2000	10.46			39.966
	50.43	6/1/2000	10.41			40.016
	50.43	7/28/2000	10.47			39.956
	50.43	8/30/2000	12.56			37.866
	50.43	9/19/2000	13.68			36.746
	50.43	10/27/2000	11.01			39.416
	50.43	11/21/2000	10.64			39.786
	50.43	5/1/2001	9.40			41.03
	50.43	10/1/2001	10.42			40.01
	50.43	3/11/2002	8.59			41.836
	50.43	9/23/2002	8.51			41.916
	50.43	3/10/2003	7.42			43.006
	50.43	9/23/2003	7.95			42.476
	50.43	3/15/2004	7.72			42.706
	50.43	9/13/2004	10.22			40.206
	50.43	7/18/2005	9.88			40.546
	50.43	1/4/2006	11.72			38.706
	50.43	7/27/2006	8.59			41.836
	50.43	3/7/2007	8.91			41.516
	50.43	7/27/2007	7.63			42.796
	50.43	1/30/2008	7.91			42.516
	50.43	7/15/2008	10.05			40.376
	50.43	2/4/2009	10.18			40.246
	50.43	7/23/2009	10.47			39.956
	50.43	1/9/2010	8.23			42.196
	50.43	7/12/2010	10.62			39.806
50.43	1/12/2011	8.76			41.666	
50.43	7/12/2011	12.53			37.896	
50.43	1/26/2012	11.61			38.816	
50.43	7/9/2012	9.18			41.246	
50.43	1/7/2013	10.66			39.766	
50.43	7/22/2013	12.17			38.256	
50.43	1/7/2014	11.62			38.806	
50.43	7/15/2014	9.83			40.60	
50.43	1/5/2015	11.09			39.34	
50.43	8/10/2015	9.34			41.09	
50.43	7/6/2017	8.12			42.31	
50.43	9/6/2017	8.06			42.37	
50.43	2/11/2018	9.22			41.21	
50.43	3/11/2018	9.03			41.396	
50.43	5/14/2018	9.89			40.536	
50.43	1/3/2019	9.26			41.17	
50.43	7/9/2019	9.04			41.386	
50.43	1/7/2020	9.06			41.366	
MW-21C	49.05	11/23/1998	27.83			21.223
	49.05	1/29/1999	27.11			21.943
	49.05	2/26/1999	27.26			21.793
	49.05	3/16/1999	27.42			21.633
	49.05	4/29/1999	27.99			21.063
	49.05	6/1/1999	27.80			21.253

Table 1
GROUNDWATER MEASUREMENTS
Houston, TX - Wood Preserving Works

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Depth to DNAPL (ft BTOC)	DNAPL Thickness (ft)	GW Elevation (ft)
MW-21C	49.05	7/30/1999	29.00			20.053
	49.05	8/27/1999	27.99			21.063
	49.05	9/27/1999	28.43			20.623
	49.05	10/29/1999	29.12			19.933
	49.05	11/18/1999	29.25			19.803
	49.05	12/29/1999	10.89			38.163
	49.05	2/4/2000	28.94			20.113
	49.05	2/25/2000	11.43			37.623
	49.05	3/27/2000	28.13			20.923
	49.05	4/7/2000	26.79			22.263
	49.05	5/31/2000	26.83			22.223
	49.05	6/1/2000	26.83			22.223
	49.05	7/28/2000	26.88			22.173
	49.05	8/30/2000	29.91			19.143
	49.05	9/19/2000	29.15			19.903
	49.05	10/27/2000	30.21			18.843
	49.05	11/21/2000	28.33			20.723
	49.05	5/1/2001	26.01			23.04
	49.05	10/1/2001	26.05			23
	49.05	3/11/2002	24.80			24.253
	49.05	9/23/2002	25.50			23.553
	49.05	3/10/2003	23.82			25.233
	49.05	9/23/2003	25.08			23.973
	49.05	3/15/2004	23.48			25.573
	49.05	9/13/2004	25.44			23.613
	49.05	7/18/2005	25.33			23.723
	49.05	1/4/2006	26.44			22.613
	49.05	7/27/2006	24.55			24.503
	49.05	3/7/2007	22.91			26.143
	49.05	7/27/2007	21.29			27.763
	49.05	1/29/2008	22.09			26.963
	49.05	7/15/2008	23.31			25.743
	49.05	2/4/2009	24.03			25.023
	49.05	7/24/2009	24.29			24.763
	49.05	1/9/2010	21.89			27.163
	49.05	7/12/2010	23.01			26.043
	49.05	1/12/2011	23.21			25.843
	49.05	7/12/2011	25.09			23.963
	49.05	1/26/2012	24.48			24.573
	49.05	7/9/2012	23.39			25.663
49.05	1/7/2013	25.17			23.883	
49.05	7/22/2013	26.49			22.563	
49.05	1/7/2014	25.94			23.113	
49.05	7/15/2014	24.61			24.44	
49.05	1/5/2015	25.31			23.74	
49.05	8/10/2015	23.37			25.68	
49.05	1/13/2016	22.71			26.34	
49.05	7/6/2016	23.04			26.01	
49.05	1/12/2017	23.59			25.46	
49.05	7/6/2017	24.02			25.03	
49.05	9/5/2017	23.96			25.09	
49.05	2/11/2018	24.08			24.97	
49.05	3/11/2018	23.07			25.98	
49.05	5/14/2018	23.97			25.08	
49.05	1/3/2019	23.17			25.88	
49.05	7/9/2019	23.11			25.943	
49.05	1/7/2020	23.46			25.59	
49.05	7/8/2020	23.36			25.69	
MW-22A	46.07	11/23/1998	NM			
	46.07	1/29/1999	2.10			43.969
	46.07	2/26/1999	2.21			43.859
	46.07	3/16/1999	2.65			43.419
	46.07	4/29/1999	2.71			43.359
	46.07	6/1/1999	2.68			43.389
	46.07	7/30/1999	4.12			41.949
	46.07	8/27/1999	2.81			43.259
	46.07	9/27/1999	8.53			37.539
	46.07	10/29/1999	10.23			35.839
	46.07	11/18/1999	9.92			36.149
	46.07	12/29/1999	9.56			36.509
	46.07	2/4/2000	12.31			33.759

Table 1
GROUNDWATER MEASUREMENTS
Houston, TX - Wood Preserving Works

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Depth to DNAPL (ft BTOC)	DNAPL Thickness (ft)	GW Elevation (ft)
MW-22A	46.07	2/25/2000	8.72			37.349
	46.07	3/27/2000	6.30			39.769
	46.07	4/7/2000	6.03			40.039
	46.07	5/31/2000	6.12			39.949
	46.07	6/1/2000	6.00			40.069
	46.07	7/28/2000	6.13			39.939
	46.07	8/30/2000	9.09			36.979
	46.07	9/19/2000	10.12			35.949
	46.07	10/27/2000	8.64			37.429
	46.07	11/21/2000	7.69			38.379
	46.07	5/1/2001	5.15			40.92
	46.07	10/1/2001	5.49			40.58
	46.07	3/11/2002	2.34			43.729
	46.07	9/23/2002	2.11			43.959
	46.07	3/10/2003	1.68			44.389
	46.07	9/23/2003	2.30			43.769
	46.07	3/15/2004	2.05			44.019
	46.07	9/14/2004	6.89			39.179
	46.07	7/18/2005	3.65			42.419
	46.07	1/6/2006	7.29			38.779
	46.07	7/27/2006	1.65			44.419
	46.07	3/7/2007	NM			
	46.07	7/27/2007	2.84			43.229
	46.07	1/29/2008	1.05			45.019
	46.07	7/14/2008	5.33			40.739
	46.07	2/3/2009	5.24			40.829
	46.07	7/23/2009	5.91			40.159
	46.07	1/9/2010	1.32			44.749
	46.07	7/12/2010	6.52			39.549
	46.07	1/12/2011	3.21			42.859
	46.07	7/11/2011	8.39			37.679
	46.07	1/27/2012	0.98			45.089
	46.07	7/10/2012	1.74			44.326
	46.07	1/8/2013	3.09			42.979
	46.07	7/22/2013	NM			
	46.07	1/7/2014	3.81			42.26
46.07	7/15/2014	3.22			42.85	
46.07	1/5/2015	NM				
46.07	8/10/2015	NM				
46.07	1/13/2016	NM				
46.07	7/6/2016	NM				
46.07	1/12/2017	NM				
46.07	7/6/2017	NM				
46.07	9/5/2017	NM		REPLACED		
MW-22AR	45.56	2/11/2018	3.43			42.13
	45.56	3/11/2018	2.24			43.32
	45.56	5/14/2018	4.41			41.15
	45.56	7/2/2018	4.48			41.08
	45.56	1/3/2019	3.67			41.89
	45.56	7/9/2019	3.96			41.60
	45.56	2/10/2020	1.55			44.01
	45.56	7/7/2020	1.79			43.77
MW-22B	45.86	11/23/1998	2.25			43.606
	45.86	1/29/1999	2.28			43.576
	45.86	2/26/1999	2.34			43.516
	45.86	3/16/1999	2.42			43.436
	45.86	4/29/1999	2.56			43.296
	45.86	6/1/1999	2.60			43.256
	45.86	7/30/1999	4.31			41.546
	45.86	8/27/1999	2.83			43.026
	45.86	9/27/1999	8.45			37.406
	45.86	10/29/1999	10.11			35.746
	45.86	11/18/1999	9.75			36.106
	45.86	12/29/1999	9.43			36.426
	45.86	2/4/2000	12.56			33.296
	45.86	2/25/2000	8.63			37.226
	45.86	3/27/2000	6.00			39.856
	45.86	4/7/2000	5.64			40.216
	45.86	5/31/2000	5.69			40.166
	45.86	6/1/2000	5.61			40.246
	45.86	7/28/2000	5.67			40.186

**Table 1
GROUNDWATER MEASUREMENTS
Houston, TX - Wood Preserving Works**

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Depth to DNAPL (ft BTOC)	DNAPL Thickness (ft)	GW Elevation (ft)
MW-22B	45.86	8/30/2000	8.57			37.286
	45.86	9/19/2000	9.94			35.916
	45.86	10/27/2000	7.03			38.826
	45.86	11/21/2000	7.63			38.226
	45.86	5/1/2001	4.93			40.93
	45.86	10/1/2001	5.40			40.46
	45.86	3/11/2002	1.75			44.106
	45.86	9/23/2002	2.11			43.746
	45.86	3/10/2003	1.02			44.836
	45.86	9/23/2003	2.99			42.866
	45.86	3/15/2004	1.20			44.656
	45.86	9/14/2004	NM			
	45.86	7/18/2005	NM			
	45.86	1/6/2006	7.05			38.806
	45.86	7/27/2006	1.58			44.276
	45.86	3/7/2007	NM			
	45.86	7/27/2007	2.85			43.006
	45.86	1/29/2008	0.85			45.006
	45.86	7/14/2008	5.45			40.406
	45.86	2/3/2009	4.78			41.076
	45.86	7/23/2009	5.39			40.466
	45.86	1/9/2010	3.27			42.586
	45.86	7/12/2010	6.21			39.646
	45.86	1/12/2011	0.37			45.486
	45.86	7/11/2011	8.32			37.536
	45.86	1/27/2012	0.06			45.796
	45.86	7/10/2012	1.27			44.586
	45.86	1/8/2013	NM			
	45.86	7/22/2013	NM			
	45.86	1/7/2014	4.14			41.716
	45.86	7/15/2014	3.79			42.07
	45.86	1/5/2015	3.87			41.99
45.86	8/10/2015	2.62			43.24	
45.86	1/13/2016	2.09			43.77	
45.86	7/6/2016	NM				
45.86	1/12/2017	NM				
45.86	7/6/2017	NM				
45.86	9/5/2017	NM		REPLACED		
MW-22BR	45.71	2/11/2018	4.14			41.57
	45.71	3/12/2018	3.29			42.42
	45.71	5/14/2018	5.27			40.44
	45.71	7/2/2018	5.39			40.32
	45.71	1/3/2019	4.29			41.42
	45.71	7/9/2019	4.41			41.3
	45.71	2/10/2020	1.44			44.27
	45.71	7/7/2020	2.92			42.79
MW-23C	51.91	11/23/1998	27.41			24.504
	51.91	1/29/1999	26.80			25.114
	51.91	2/26/1999	26.88			25.034
	51.91	3/16/1999	26.93			24.984
	51.91	4/29/1999	27.09			24.824
	51.91	6/1/1999	27.00			24.914
	51.91	7/30/1999	29.55			22.364
	51.91	8/27/1999	27.29			24.624
	51.91	9/27/1999	28.40			23.514
	51.91	10/29/1999	29.11			22.804
	51.91	11/17/1999	29.49			22.424
	51.91	12/29/1999	28.46			23.454
	51.91	2/4/2000	28.96			22.954
	51.91	2/25/2000	28.96			22.954
	51.91	3/27/2000	28.61			23.304
	51.91	4/7/2000	27.10			24.814
	51.91	5/31/2000	27.15			24.764
	51.91	6/1/2000	27.11			24.804
	51.91	7/28/2000	27.15			24.764
	51.91	8/30/2000	29.96			21.954
	51.91	9/19/2000	29.77			22.144
	51.91	10/27/2000	28.44			23.474
	51.91	11/21/2000	28.61			23.304
	51.91	5/1/2001	26.26			25.65
51.91	10/1/2001	26.50		0.60	25.41	

**Table 1
GROUNDWATER MEASUREMENTS
Houston, TX - Wood Preserving Works**

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Depth to DNAPL (ft BTOC)	DNAPL Thickness (ft)	GW Elevation (ft)	
MW-23C	51.91	3/11/2002	25.33			26.584	
	51.91	9/23/2002	26.43			25.484	
	51.91	3/10/2003	24.53			27.384	
	51.91	9/23/2003	25.95			25.964	
	51.91	3/15/2004	24.15			27.764	
	51.91	9/13/2004	25.97			25.944	
	51.91	7/18/2005	26.46			25.454	
	51.91	1/4/2006	27.53			24.384	
	51.91	3/7/2007	23.96			27.954	
	51.91	7/27/2007	22.41			29.504	
	51.91	1/31/2008	23.22	75.98	1.71	28.694	
	48.89 ¹	2/4/2009	22.11	72.05	1.47	26.78	
	48.89 ¹	7/23/2009	22.93	73.01	0.51	25.961	
	48.89 ¹	1/9/2010	20.29	71.8	1.72	28.601	
	48.89 ¹	5/27/2010	22.81	71.5	2.02	26.081	
	48.89 ¹	6/28/2010	22.93	72.15	1.37	25.961	
	48.89 ¹	7/12/2010	21.41	72.4	1.12	27.481	
	48.89 ¹	8/31/2010	21.61	72.65	0.87	27.281	
	48.89 ¹	1/12/2011	21.7	71.25	1.45	27.191	
	48.89	7/12/2011	23.11	70.65	2.05	25.782	
	48.89	1/26/2012	22.81	71.57	1.13	26.082	
	48.89	7/9/2012	22.31	71.45	1.25	26.582	
	48.89	1/7/2013	23.32	71.06	1.64	25.572	
	48.89	7/22/2013	24.38			24.512	
	48.89	1/7/2014	23.51	70.8	2.30	25.38	
	48.89	7/15/2014	24.06	70.96	2.14	24.83	
	48.89	1/5/2015	22.47	71.72	1.08	26.42	
	48.89	8/10/2015	19.34	72.17	0.63	29.55	
	48.89	1/13/2016	23.16	71.91	0.89	25.73	
	48.89	7/6/2016	23.09	71.56	1.24	25.80	
	48.89	1/12/2017	23.74	71.81	0.99	25.15	
	54.16	7/6/2017	23.61	77.27	0.53	30.55	
	54.16	9/5/2017	23.67	77.29	0.51	30.49	
	54.16	2/7/2018	23.86	77.46	0.34	30.30	
	54.16	3/11/2018	23.99	77.41	0.39	30.17	
	54.16	5/14/2018	25.02	77.49	0.31	29.14	
	54.16	1/3/2019	24.29	77.31	0.49	29.87	
	54.16	7/9/2019	24.42	76.99	0.81	29.74	
	54.16	1/9/2020	26.59	75.3	1.50	27.57	
	54.16	7/7/2020	26.51	76.7	0.10	27.65	
	MW-24A	45.79	3/27/2000	7.87			37.92
		45.79	4/7/2000	7.63			38.16
45.79		5/31/2000	7.65			38.14	
45.79		6/1/2000	7.43			38.36	
45.79		7/28/2000	7.60			38.19	
45.79		8/30/2000	10.44			35.35	
45.79		9/19/2000	10.57			35.22	
45.79		10/27/2000	NM			NM	
45.79		11/21/2000	7.09			38.7	
45.79		5/1/2001	6.72			39.07	
45.79		10/1/2001	7.81			37.98	
45.79		3/11/2002	3.91			41.88	
45.79		9/23/2002	5.04			40.75	
45.79		3/10/2003	2.76			43.03	
45.79		9/23/2003	4.66			41.13	
45.79		3/15/2004	3.10			42.69	
45.79		9/14/2004	8.24			37.55	
45.79		7/18/2005	6.03			39.76	
45.79		1/6/2006	8.93			36.86	
45.79		7/27/2006	4.21			41.58	
45.79		3/7/2007	3.86			41.93	
45.79		1/30/2008	NM			NM	
MW-24AR	45.65	2/5/2009	5.18			40.47	
	45.65	7/23/2009	7.36			38.29	
	45.65	1/9/2010	3.72			41.93	
	45.65	7/12/2010	4.29			41.36	
	45.65	1/13/2011	3.58			42.07	
	45.65	7/11/2011	6.38			39.27	
	45.65	1/27/2012	4.59			41.06	
	45.65	7/10/2012	4.38			41.27	
45.65	1/8/2013	5.59			40.06		

Table 1
GROUNDWATER MEASUREMENTS
Houston, TX - Wood Preserving Works

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Depth to DNAPL (ft BTOC)	DNAPL Thickness (ft)	GW Elevation (ft)
MW-24AR	45.65	7/23/2013	10.14	71.06		35.51
	45.65	1/8/2014	7.11			38.54
	45.65	1/5/2015	NM			NM
	45.65	7/6/2016	NM			NM
MW-24B	46.06	3/27/2000	11.91			34.15
	46.06	4/7/2000	11.60			34.46
	46.06	5/31/2000	11.63			34.43
	46.06	6/1/2000	11.51			34.55
	46.06	7/28/2000	11.69			34.37
	46.06	8/30/2000	13.91			32.15
	46.06	9/19/2000	14.72			31.34
	46.06	10/27/2000	12.44			33.62
	46.06	11/21/2000	11.38			34.68
	46.06	5/1/2001	10.71			35.35
	46.06	10/1/2001	11.75			34.31
	46.06	3/11/2002	9.01			37.05
	46.06	9/23/2002	9.69			36.37
	46.06	3/10/2003	7.83			38.23
	46.06	9/23/2003	8.98			37.08
	46.06	3/15/2004	7.33			38.73
	46.06	9/14/2004	9.24			36.82
	46.06	7/18/2005	9.54			36.52
	46.06	1/6/2006	11.86			34.2
	46.06	7/27/2006	10.50			35.56
	46.06	3/7/2007	8.88			37.18
	46.06	7/27/2007	9.85			36.21
	46.06	1/28/2008	7.37			38.69
	46.06	7/14/2008	11.41			34.65
	46.06	2/3/2009	11.18			34.88
	46.06	7/23/2009	12.26			33.8
	46.06	1/9/2010	9.89			36.17
	46.06	7/12/2010	12.82			33.24
46.06	1/13/2011	11.1	34.96			
46.06	7/11/2011	14.09	31.97			
46.06	1/27/2012	11.36	34.7			
46.06	7/10/2012	10.49	35.57			
46.06	1/8/2013	12.96	33.1			
46.06	7/23/2013	8.49	37.57			
46.06	1/5/2015	NM	NM			
MW-24C	46.05	3/27/2000	25.77			20.28
	46.05	4/7/2000	24.27			21.78
	46.05	5/31/2000	24.30			21.75
	46.05	6/1/2000	24.22			21.83
	46.05	7/28/2000	24.26			21.79
	46.05	8/30/2000	27.34			18.71
	46.05	9/19/2000	26.59			19.46
	46.05	10/27/2000	27.64			18.41
	46.05	11/21/2000	25.43			20.62
	46.05	5/1/2001	23.90			22.15
	46.05	10/1/2001	23.71			22.34
	46.05	3/11/2002	22.40			23.65
	46.05	9/23/2002	23.04			23.01
	46.05	3/10/2003	21.71			24.34
	46.05	9/23/2003	23.04			23.01
	46.05	3/15/2004	21.45			24.6
	46.05	9/14/2004	22.45			23.6
	46.05	7/18/2005	22.19			23.86
	46.05	1/6/2006	23.57			22.48
	46.05	7/27/2006	22.61			23.44
	46.05	3/7/2007	21.07			24.98
	46.05	7/27/2007	19.62			26.43
	46.05	1/28/2008	19.43			26.62
	46.05	7/14/2008	20.63			25.42
	46.05	2/3/2009	21.68			24.37
	46.05	7/23/2009	23.07			22.98
	46.05	1/9/2010	20.46			25.59
	46.05	7/12/2010	20.44			25.61
46.05	1/13/2011	20.26	25.79			
46.05	7/11/2011	21.59	24.46			
46.05	1/27/2012	21.23	24.82			
46.05	7/10/2012	20.81	25.24			

Table 1
GROUNDWATER MEASUREMENTS
Houston, TX - Wood Preserving Works

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Depth to DNAPL (ft BTOC)	DNAPL Thickness (ft)	GW Elevation (ft)
MW-24C	46.05	1/8/2013	22.42			23.63
	46.05	7/23/2013	23.81			22.24
	46.05	1/5/2015	NM			
MW-25A	44.65	3/27/2000	9.15			35.5
	44.65	4/7/2000	8.79			35.86
	44.65	5/31/2000	8.81			35.84
	44.65	6/1/2000	8.86			35.79
	44.65	7/28/2000	8.84			35.81
	44.65	8/30/2000	11.43			33.22
	44.65	9/19/2000	11.12			33.53
	44.65	10/27/2000	10.09			34.56
	44.65	11/21/2000	8.10			36.55
	44.65	5/1/2001	8.94			35.71
	44.65	10/1/2001	8.81			35.84
	44.65	3/11/2002	7.23			37.42
	44.65	9/23/2002	5.65			39
	44.65	3/10/2003	5.84			38.81
	44.65	9/23/2003	5.35			39.3
	44.65	3/15/2004	5.75			38.9
	44.65	9/14/2004	7.00			37.65
	44.65	7/18/2005	6.42			38.23
	44.65	1/6/2006	9.29			35.36
	44.65	7/27/2006	5.10			39.55
	44.65	3/7/2007	4.76			39.89
	44.65	7/27/2007	4.22			40.43
	44.65	1/28/2008	4.25			40.4
	44.65	7/14/2008	8.59			36.06
	44.65	2/3/2009	8.90			35.75
	44.65	7/23/2009	8.71			35.94
	44.65	1/9/2010	6.84			37.81
	44.65	7/12/2010	7.78			36.87
	44.65	1/12/2011	6.26			38.39
	44.65	7/11/2011	10.22			34.43
	44.65	1/27/2012	5.24			39.41
	44.65	7/10/2012	4.56			40.09
	44.65	1/8/2013	8.62			36.03
44.65	7/23/2013	9.37			35.28	
44.65	1/8/2014	8.92			35.73	
44.65	7/16/2014	8.61			36.04	
44.65	1/5/2015	8.71			35.94	
44.65	8/10/2015	6.94			37.71	
44.65	1/13/2016	6.07			38.58	
44.65	7/6/2016	6.62			38.03	
44.65	1/12/2017	6.98			37.67	
44.65	7/6/2017	7.31			37.34	
44.65	9/5/2017	7.16			37.49	
44.65	2/11/2018	5.71			38.94	
44.65	3/12/2018	6.06			38.59	
44.65	5/14/2018	7.49			37.16	
44.65	1/3/2019	6.84			37.81	
44.65	7/9/2019	6.77			37.88	
44.65	1/7/2020	8.01			36.64	
44.65	7/7/2020	0.21			44.44	
MW-25C	44.49	3/27/2000	19.92			24.57
	44.49	4/7/2000	19.50			24.99
	44.49	5/31/2000	19.56			24.93
	44.49	6/1/2000	19.51			24.98
	44.49	7/28/2000	19.54			24.95
	44.49	8/30/2000	22.14			22.35
	44.49	9/19/2000	21.30	66.73	0.90	23.19
	44.49	10/27/2000	20.63			23.86
	44.49	11/21/2000	27.63			16.86
	44.49	5/1/2001	18.14			26.35
	44.49	10/1/2001	18.29		0.40	26.2
	44.49	3/14/2002	17.39	64.32	4.13	27.1
	44.49	9/23/2002	17.81	61.41	6.00	26.68
	44.49	3/10/2003	16.73			27.76
	44.49	9/23/2003	22.35			22.14
	44.49	3/15/2004	16.15			28.34
	44.49	9/14/2004	17.00	60.14	2.56	27.49
44.49	7/18/2005	15.57			28.92	

Table 1
GROUNDWATER MEASUREMENTS
Houston, TX - Wood Preserving Works

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Depth to DNAPL (ft BTOC)	DNAPL Thickness (ft)	GW Elevation (ft)
MW-25C	44.49	1/6/2006	18.49			26
	44.49	7/27/2006	15.32	60.64	2.03	29.17
	44.49	3/7/2007	15.87	59.82	2.18	28.62
	44.49	7/27/2007	14.25	60.61	1.04	30.24
	44.49	1/28/2008	14.91	60.88	0.67	29.58
	44.49	7/14/2008	17.24	60.95	0.60	27.25
	44.49	2/3/2009	15.97	TRACE	TRACE	28.52
	44.49	7/23/2009	16.39			28.1
	44.49	1/9/2010	13.68	61.45	0.65	30.81
	44.49	5/27/2010	16.09			28.4
	44.49	6/28/2010	16.26			28.23
	44.49	7/12/2010	16.05			28.44
	44.49	8/31/2010	16.21			28.28
	44.49	1/12/2011	16.29			28.2
	44.49	7/11/2011	18.81			25.68
	44.49	1/27/2012	17.29			27.2
	44.49	7/10/2012	16.53			27.96
	44.49	1/8/2013	18.34			26.15
	44.49	7/23/2013	18.74			25.75
	44.49	1/8/2014	18.23			26.26
	44.49	7/16/2014	18.66			25.83
	44.49	1/5/2015	17.81			26.68
	44.49	8/10/2015	16.09			28.40
	44.49	1/13/2016	15.61			28.88
	44.49	7/6/2016	16.02			28.47
	44.49	1/12/2017	16.64			27.85
	44.49	7/5/2017	16.84			27.65
	44.49	9/5/2017	16.81			27.68
	44.49	2/11/2018	15.27			29.22
	44.49	3/12/2018	15.63			28.86
	44.49	5/14/2018	16.02			28.47
	44.49	1/3/2019	15.29			29.2
44.49	7/9/2019	15.86			28.63	
44.49	1/7/2020	16.72			27.77	
44.49	7/22/2020	19.29			25.20	
MW-26A	44.62	3/27/2000	7.40			37.22
	44.62	4/7/2000	6.99			37.63
	44.62	5/31/2000	7.10			37.52
	44.62	6/1/2000	7.00			37.62
	44.62	7/28/2000	7.11			37.51
	44.62	8/30/2000	9.69			34.93
	44.62	9/19/2000	11.43			33.19
	44.62	10/27/2000	8.11			36.51
	44.62	11/21/2000	8.24			36.38
	44.62	5/1/2001	6.01			38.61
	44.62	10/1/2001	6.34			38.28
	44.62	3/11/2002	4.05			40.57
	44.62	9/23/2002	4.29			40.33
	44.62	3/10/2003	2.84			41.78
	44.62	9/23/2003	4.84			39.78
	44.62	3/15/2004	3.30			41.32
	44.62	9/14/2004	6.80			37.82
	44.62	7/18/2005	6.72			37.9
	44.62	1/6/2006	9.34			35.28
	44.62	7/27/2006	4.42			40.2
	44.62	3/7/2007	4.70			39.92
	44.62	7/27/2007	3.98			40.64
	44.62	1/29/2008	2.37			42.25
	44.62	7/14/2008	7.87			36.75
	44.62	2/3/2009	6.89			37.73
	44.62	7/23/2009	7.88			36.74
	44.62	1/9/2010	4.31			40.31
	44.62	7/12/2010	8.12			36.5
	44.62	1/13/2011	2.38			42.24
	44.62	7/11/2011	10.27			34.35
	44.62	1/27/2012	3.09			41.53
	44.62	7/10/2012	2.77			41.85
44.62	1/8/2013	7.27			37.35	
44.62	7/23/2013	9.72			34.9	
44.62	1/8/2014	6.33			38.29	
44.62	7/16/2014	7.64			36.98	

**Table 1
GROUNDWATER MEASUREMENTS
Houston, TX - Wood Preserving Works**

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Depth to DNAPL (ft BTOC)	DNAPL Thickness (ft)	GW Elevation (ft)
MW-26A	44.62	1/5/2015	5.74			38.88
	44.62	8/10/2015	4.03			40.59
	44.62	1/13/2016	3.41			41.21
	44.62	7/6/2016	3.72			40.90
	44.62	1/12/2017	4.92			39.70
	44.62	7/5/2017	5.34			39.28
	44.62	9/5/2017	5.27			39.35
	44.62	2/11/2018	4.43			40.19
	44.62	3/12/2018	4.77			39.85
	44.62	5/14/2018	6.61			38.01
	44.62	1/3/2019	6.06			38.56
	44.62	7/9/2019	6.31			38.31
	44.62	1/7/2020	4.78			39.84
	44.62	7/7/2020	5.21			39.41
MW-27A	44.90	5/1/2001	6.41			38.49
	44.90	10/1/2001	5.31			39.59
	44.90	3/11/2002	4.21			40.69
	44.90	9/23/2002	3.31			41.59
	44.90	3/10/2003	4.05			40.85
	44.90	9/23/2003	3.24			41.66
	44.90	3/15/2004	2.99			41.91
	44.90	9/14/2004	5.09			39.81
	44.90	7/18/2005	4.45			40.45
	44.90	1/6/2006	4.55			40.35
	44.90	7/27/2006	4.26			40.64
	44.90	3/7/2007	3.01			41.89
	44.90	7/27/2007	2.12			42.92
	44.90	1/28/2008	1.88			43.16
	44.90	7/14/2008	4.57			40.47
	44.90	2/3/2009	4.27			40.77
	44.90	7/23/2009	4.36			40.68
	44.90	1/9/2010	3.69			41.35
	44.90	7/12/2010	5.31			39.73
	44.90	1/12/2011	3.76			41.28
	44.90	7/12/2011	6.72			38.32
	44.90	1/26/2012				NM
	44.90	7/10/2012	well covered			NM
	44.90	1/7/2013	well covered			NM
	44.90	7/23/2013	NM			NM
	44.90	8/10/2015	NM			NM
	44.90	2/11/2018	4.21			40.69
	44.90	3/12/2018	4.59			40.31
44.90	5/14/2018	5.06			39.84	
44.90	1/3/2019	NM			NM	
44.90	7/9/2019	7.21			37.69	
44.90	1/8/2020	7.22			37.68	
44.90	7/7/2020	NM			NM	
MW-27C	45.04	5/1/2001	17.82			27.22
	45.04	10/1/2001	17.82			27.22
	45.04	3/11/2002	16.36			28.68
	45.04	9/23/2002	16.49			28.55
	45.04	3/10/2003	18.68			26.36
	45.04	9/23/2003	16.89			28.15
	45.04	3/15/2004	14.35			30.69
	45.04	9/14/2004	14.49			30.55
	45.04	7/18/2005	16.12			28.92
	45.04	1/6/2006	18.07			26.97
	45.04	7/27/2006	17.13			27.91
	45.04	3/7/2007	15.47			29.57
	44.90	7/27/2007	14.85			30.05
	45.04	1/28/2008	14.31			30.73
	45.04	7/14/2008	17.51			27.53
	45.04	2/3/2009	15.76			29.28
	45.04	7/23/2009	16.38			28.66
	45.04	1/9/2010	14.82			30.22
	45.04	7/12/2010	16.12			28.92
	45.04	1/12/2011	15.84			29.2
	45.04	7/11/2011	18.17			26.87
	45.04	1/27/2012	17.14			27.9
	45.04	7/10/2012	16.56			28.48
45.04	1/8/2013	17.04			28	

Table 1
GROUNDWATER MEASUREMENTS
Houston, TX - Wood Preserving Works

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Depth to DNAPL (ft BTOC)	DNAPL Thickness (ft)	GW Elevation (ft)
MW-27C	45.04	7/23/2013	18.61			26.43
	45.04	1/8/2014	18.12			26.92
	45.04	7/16/2014	16.94			28.10
	45.04	1/5/2015	17.74			27.30
	45.04	8/10/2015	15.71			29.33
	45.04	1/13/2016	15.04			30.00
	45.04	7/6/2016	15.32			29.72
	45.04	1/12/2017	15.91			29.13
	45.04	7/5/2017	16.39			28.65
	45.04	9/5/2017	16.36			28.68
	45.04	2/11/2018	16.59			28.45
	45.04	3/12/2018	16.97			28.07
	45.04	5/14/2018	15.89			29.15
	45.04	1/3/2019	14.32			30.72
	45.04	7/9/2019	15.61			29.43
	45.04	1/8/2020	16.93			28.11
	45.04	8/18/2020	15.5			29.54
MW-28A	43.86	5/1/2001	7.45			36.41
	43.86	10/1/2001	8.26			35.6
	43.86	3/11/2002	4.90			38.96
	43.86	9/23/2002	5.71			38.15
	43.86	3/10/2003	3.11			40.75
	43.86	9/23/2003	5.81			38.05
	43.86	9/14/2004	9.34			34.52
	43.86	7/18/2005	7.52			36.34
	43.86	1/6/2006	9.32			34.54
	43.86	7/27/2006	5.54			38.32
	43.86	3/7/2007	5.06			38.8
	43.86	7/27/2007	2.86			41
	43.86	1/29/2008	2.61			41.25
	43.86	7/14/2008	8.74			35.12
	43.86	2/3/2009	8.36			35.5
	43.86	7/23/2009	8.94			34.92
	43.86	1/9/2010	4.54			39.32
	43.86	7/12/2010	8.66			35.2
	43.86	1/12/2011	3.87			39.99
	43.86	7/11/2011	11.43			32.43
	43.86	1/27/2012	2.66			41.2
	43.86	7/10/2012	4.52			39.34
	43.86	1/8/2013	8.11			35.75
	43.86	7/23/2013	10.78			33.08
	43.86	1/8/2014	7.71			36.15
	43.86	7/16/2014	8.19			35.67
	43.86	1/5/2015	7.21			36.65
	43.86	8/10/2015	5.72			38.14
	43.86	1/13/2016	5.09			38.77
	43.86	7/6/2016	5.42			38.44
	43.86	1/12/2017	5.89			37.97
43.86	7/5/2017	6.13			37.73	
43.86	9/5/2017	6.06			37.80	
43.86	2/11/2018	5.31			38.55	
43.86	3/12/2018	5.61			38.25	
43.86	5/14/2018	6.02			37.84	
43.86	1/3/2019	5.41			38.45	
43.86	7/9/2019	6.52			37.34	
43.86	1/7/2020	6.68			37.18	
43.86	7/7/2020	5.75			38.11	
MW-28C	43.96	5/1/2001	17.14			26.82
	43.96	10/1/2001	17.51			26.45
	43.96	3/11/2002	16.29			27.67
	43.96	9/23/2002	17.75			26.21
	43.96	3/10/2003	15.84			28.12
	43.96	9/23/2003	17.48			26.48
	43.96	3/15/2004	15.56			28.4
	43.96	9/14/2004	17.20			26.76
	43.96	7/18/2005	16.60			27.36
	43.96	1/6/2006	17.61			26.35
	43.96	7/27/2006	17.73			26.23
	43.96	3/7/2007	15.59			28.37
	43.96	7/27/2007	12.90			31.06
43.96	1/29/2008	14.35			29.61	

**Table 1
GROUNDWATER MEASUREMENTS
Houston, TX - Wood Preserving Works**

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Depth to DNAPL (ft BTOC)	DNAPL Thickness (ft)	GW Elevation (ft)
MW-28C	43.96	7/14/2008	16.26			27.7
	43.96	2/3/2009	16.03			27.93
	43.96	7/23/2009	16.53			27.43
	43.96	1/9/2010	14.89			29.07
	43.96	7/12/2010	15.89			28.07
	43.96	1/12/2011	18.37			25.59
	43.96	7/11/2011	18.16			25.8
	43.96	1/27/2012	16.12			27.84
	43.96	7/10/2012	16.79			27.17
	43.96	1/8/2013	17.62			26.34
	43.96	7/23/2013	18.87			25.09
	43.96	1/8/2014	17.59			26.37
	43.96	7/16/2014	16.98			26.98
	43.96	1/5/2015	16.84			27.12
	43.96	8/10/2015	14.39			29.57
	43.96	1/13/2016	13.72			30.24
	43.96	7/6/2016	14.03			29.93
	43.96	1/12/2017	14.64			29.32
	43.96	7/5/2017	14.88			29.08
	43.96	9/5/2017	14.89			29.07
	43.96	2/11/2018	17.33			26.63
	43.96	3/12/2018	14.73			29.23
	43.96	5/14/2018	16.59			27.37
	43.96	1/3/2019	15.88			28.08
43.96	7/9/2019	15.03			28.93	
43.96	1/7/2020	15.56			28.4	
43.96	7/7/2020	14.65			29.31	
MW-29A	46.59	5/1/2001	5.01			41.58
	46.59	10/1/2001	5.38			41.21
	46.59	3/11/2002	1.51			45.08
	46.59	9/23/2002	1.65			44.94
	46.59	3/10/2003	1.42			45.17
	46.59	9/23/2003	1.50			45.09
	46.59	3/15/2004	1.85			44.74
	46.59	9/14/2004	6.35			40.24
	46.59	7/18/2005	3.12			43.47
	46.59	1/6/2006	6.57			40.02
	46.59	7/27/2006	1.44			45.15
	46.59	3/7/2007	1.95			44.64
	46.59	7/27/2007	2.49			44.1
	46.59	1/28/2008	1.28			45.31
	46.59	7/14/2008	4.14			42.45
	46.59	2/3/2009	3.50			43.09
	46.59	7/23/2009	4.09			42.5
	46.59	1/9/2010	1.76			44.83
	46.59	7/12/2010	3.62			42.97
	46.59	1/13/2011	3.07			43.52
	46.59	7/11/2011	7.14			39.45
	46.59	7/10/2012	4.17			42.42
	46.59	1/8/2013	4.91			41.68
	46.59	7/23/2013	--			--
	Plugged					NM
MW-29B	46.26	5/1/2001	19.01			27.25
	46.26	10/1/2001	19.41			26.85
	46.26	3/11/2002	18.04			28.22
	46.26	9/23/2002	18.82			27.44
	46.26	3/10/2003	17.21			29.05
	46.26	9/23/2003	18.09			28.17
	46.26	3/15/2004	17.10			29.16
	46.26	9/14/2004	17.76			28.5
	46.26	7/18/2005	18.11			28.15
	46.26	1/6/2006	18.83			27.43
	46.26	7/27/2006	18.41			27.85
	46.26	3/7/2007	17.21			29.05
	46.26	7/27/2007	15.49			30.77
	46.26	1/28/2008	15.32			30.94
	46.26	7/14/2008	18.23			28.03
	46.26	2/3/2009	17.72			28.54
46.26	7/23/2009	16.19			30.07	
46.26	1/9/2010	16.02			30.24	
46.26	7/12/2010	19.29			26.97	

**Table 1
GROUNDWATER MEASUREMENTS
Houston, TX - Wood Preserving Works**

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Depth to DNAPL (ft BTOC)	DNAPL Thickness (ft)	GW Elevation (ft)
MW-29B	46.26	1/13/2011	17.73			28.53
	46.26	7/11/2011	20.06			26.2
	46.26	7/10/2012	9.71			36.55
	46.26	1/8/2013	9.92			36.34
	Plugged					
MW-29C	46.46	5/1/2001	25.51			20.95
	46.46	10/1/2001	25.04			21.42
	46.46	3/11/2002	23.51			22.95
	46.46	9/23/2002	24.10			22.36
	46.46	3/10/2003	22.71			23.75
	46.46	9/23/2003	23.48			22.98
	46.46	3/15/2004	22.24			24.22
	46.46	9/14/2004	24.12			22.34
	46.46	7/18/2005	23.75			22.71
	46.46	1/6/2006	25.12			21.34
	46.46	7/27/2006	23.35			23.11
	46.46	3/7/2007	22.38			24.08
	46.46	7/27/2007	20.42			26.04
	46.46	1/28/2008	21.08			25.38
	46.46	7/14/2008	22.38			24.08
	46.46	2/3/2009	22.86			23.6
	46.46	7/23/2009	22.81			23.65
	46.46	1/9/2010	20.71			25.75
	46.46	7/12/2010	21.32			25.14
	46.46	1/13/2011	20.39			26.07
	46.46	7/11/2011	23.17			23.29
46.46	7/10/2012	20.69			25.77	
46.46	1/8/2013	21.27			25.19	
46.46	7/23/2013	--			--	
Plugged						
MW-30A	50.45	3/15/2004	9.71			40.74
	50.45	9/13/2004	12.76			37.69
	50.45	7/18/2005	11.80			38.65
	50.45	1/4/2006	13.52			36.93
	50.45	7/27/2006	10.45			40
	50.45	3/7/2007	10.98			39.47
	50.45	7/27/2007	9.49			40.96
	50.45	1/30/2008	9.62			40.83
	50.45	7/15/2008	12.52			37.93
	50.45	2/4/2009	13.01			37.44
	50.45	7/23/2009	13.71			36.74
	50.45	1/9/2010	10.87			39.58
	50.45	7/12/2010	12.61			37.84
	50.45	1/12/2011	10.06			40.39
	50.45	7/12/2011	14.76			35.69
	50.45	1/26/2012	10.78			39.67
	50.45	7/9/2012	11.13			39.32
	50.45	1/8/2013	12.91			37.54
	50.45	7/23/2013	14.16			36.29
	50.45	1/8/2014	13.81			36.64
50.45	7/15/2014	12.10			38.35	
50.45	1/5/2015	13.22			37.23	
50.45	8/10/2015	12.16		Plugged and Abandoned	38.29	
MW-31A	52.08	3/15/2004	10.97			41.11
	52.08	9/13/2004	13.00			39.08
	52.08	7/18/2005	13.05			39.03
	52.08	1/4/2006	14.77			37.31
	52.08	7/27/2006	11.83			40.25
	52.08	3/7/2007	12.43			39.65
	52.08	7/27/2007	10.83			41.25
	52.08	1/31/2008	10.99			41.09
	52.08	7/15/2008	13.68			38.4
	52.08	2/4/2009	14.23			37.85
	52.08	7/23/2009	14.73			37.35
	52.08	1/9/2010	12.31			39.77
	52.08	7/12/2010	14.06			38.02
	52.08	1/12/2011	11.62			40.46
	52.08	7/12/2011	15.92			36.16
	52.08	1/26/2012	12.24			39.84
52.08	7/9/2012	12.79			39.29	
52.08	1/8/2013	14.14			37.94	

Table 1
GROUNDWATER MEASUREMENTS
Houston, TX - Wood Preserving Works

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Depth to DNAPL (ft BTOC)	DNAPL Thickness (ft)	GW Elevation (ft)
MW-31A	52.08	7/23/2013	16.24			35.84
	52.08	1/8/2014	15.96			36.12
	52.08	7/15/2014	13.19			38.89
	52.08	1/5/2015	15.16			36.92
	52.08	8/10/2015	12.76			39.32
				Plugged and Abandoned		
MW-32A	43.77	3/15/2004	1.00			42.77
	43.77	9/14/2004	6.03	29.00	3.48	37.74
	43.77	7/18/2005	5.82	26.56	5.92	37.95
	43.77	1/6/2006	6.93	24.92	7.57	36.84
	43.77	7/27/2006	12.96	25.71	6.74	30.81
	43.77	3/7/2007	4.03	25.26	7.19	39.74
	43.77	7/27/2007	1.95	30.76	1.70	41.82
	43.77	1/28/2008	2.18			41.59
	43.77	7/14/2008	6.14	26.25	6.20	37.63
	43.77	2/3/2009	5.71	26.29	6.16	38.06
	43.77	7/23/2009	6.29	26.51	5.94	37.48
	43.77	1/9/2010	3.55	25.41	7.04	40.22
	43.77	5/27/2010	5.86	26.2	6.25	37.91
	43.77	6/28/2010	6.02	29.1	3.35	37.75
	43.77	7/12/2010	6.12	29.45	3.00	37.65
	43.77	8/31/2010	5.43	30.67	1.78	38.34
	43.77	1/13/2011	2.63	29.15	3.30	41.14
43.77	7/11/2011	5.92	28.82	3.63	37.85	
	Plugged					37.85
MW-32AR	44.56	1/27/2012	3.22			41.34
	44.56	7/10/2012	3.73			40.83
	44.56	1/8/2013	6.64			37.92
	44.56	7/23/2013	9.42			35.14
	44.56	1/8/2014	5.64			38.92
	44.56	7/16/2014	6.74			37.82
	44.56	1/5/2015				
	44.56	8/10/2015	3.18			41.38
	44.56	1/13/2016	2.66			41.90
	44.56	7/6/2016	3.14			41.42
	44.56	1/12/2017	3.67			40.89
	44.56	7/5/2017	4.16			40.40
	44.56	9/6/2017	4.03			40.53
	44.56	2/11/2018	4.06			40.50
	44.56	3/12/2018	5.02			39.54
	44.56	5/14/2018	5.91			38.65
	44.56	1/3/2019	5.42			39.14
44.56	7/9/2019	6.41			38.15	
44.56	1/8/2020	3.88			40.68	
44.56	7/7/2020	4.84			39.72	
MW-32B	44.41	1/27/2012	3.11	30.52	5.77	41.3
	44.41	7/10/2012	3.81	30.16	6.13	40.6
	44.41	1/8/2013	6.34	30.02	6.38	38.07
	44.41	7/23/2013	7.14			37.27
	44.41	1/8/2014	6.72	34.82	1.58	37.69
	44.41	7/16/2014	6.72	34.29	2.11	37.69
	44.41	1/5/2015	6.02	35.77	0.63	38.39
	44.41	8/10/2015	4.41	36.09	0.31	40.00
	44.41	1/13/2016	3.61	36.07	0.33	40.80
	44.41	7/6/2016	3.91	35.96	0.44	40.50
	44.41	1/12/2017	4.83	36.02	0.38	39.58
	44.41	7/5/2017	4.86	36.13	0.27	39.55
	44.41	9/6/2017	4.78	36.24	3.67	39.63
	44.41	2/7/2018	5.16	36.21	0.19	39.25
	44.41	3/12/2018	5.41	36.13	0.27	39.00
	44.41	5/15/2018	6.47	36.21	0.19	37.94
	44.41	1/3/2019	6.09	36.29	0.11	38.32
44.41	7/9/2019	5.61	35.89	0.51	38.8	
44.41	1/8/2020	2.71			41.7	
44.41	7/7/2020	4.61	35.12	1.28	39.8	
MW-33A	44.25	3/15/2004	3.90			40.35
	44.25	9/14/2004	7.85			36.4
	44.25	7/18/2005	6.35			37.9
	44.25	1/6/2006	8.00			36.25
	44.25	7/27/2006	4.73			39.52
	44.25	3/7/2007	5.22			39.03
44.25	7/27/2007	3.48			40.77	

Table 1
GROUNDWATER MEASUREMENTS
Houston, TX - Wood Preserving Works

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Depth to DNAPL (ft BTOC)	DNAPL Thickness (ft)	GW Elevation (ft)
MW-33A	44.25	1/29/2008	3.34			40.91
	44.25	7/14/2008	7.42	25.19	0.03	36.83
	44.25	2/3/2009	7.28			36.97
	44.25	7/23/2009	7.63			36.62
	44.25	1/9/2010	4.79			39.46
	44.25	7/12/2010	7.61			36.64
	44.25	1/13/2011	3.19			41.06
	44.25	7/11/2011	9.87			34.38
	44.25	1/27/2012	2.69			41.56
	44.25	7/10/2012	3.86			40.39
	44.25	1/8/2013	6.76			37.49
	44.25	7/23/2013	9.83			34.42
	44.25	1/8/2014	6.71			37.54
	44.25	7/16/2014	7.09			37.16
	44.25	1/5/2015	5.02			39.23
	44.25	8/10/2015	4.09			40.16
	44.25	1/13/2016	3.51			40.74
	44.25	7/6/2016	3.89			40.36
	44.25	1/12/2017	5.01			39.24
	44.25	7/5/2017	5.59			38.66
	44.25	9/6/2017	5.51			38.74
	44.25	2/11/2018	4.38			39.87
	44.25	3/12/2018	4.86			39.39
44.25	5/14/2018	6.42			37.83	
44.25	1/3/2019	5.77			38.48	
44.25	7/9/2019	5.09			39.16	
44.25	1/20/2020	4.41			39.84	
44.25	7/7/2020	5.31			38.94	
MW-33B	44.35	3/7/2007	4.21			40.04
	44.35	7/27/2007	3.72			40.53
	44.35	1/29/2008	2.37	39.12	3.37	41.88
	44.35	7/14/2008	5.74	37.44	5.05	38.51
	44.35	2/3/2009	9.28	36.91	5.58	34.97
	44.35	7/23/2009	NM			NM
	44.35	1/9/2010	4.61	35.21	7.28	39.74
	44.35	5/27/2010	6.82			37.53
	44.35	6/28/2010	6.91			37.44
	44.35	7/12/2010	7.02			37.33
	44.35	8/31/2010	7.22			37.13
	44.35	1/13/2011	3.11	29.7	0.30	41.24
	44.35	7/11/2011	10.19	29.75	0.25	34.16
	44.35	1/5/2015	NM			NM
MW-33BR	44.35	1/27/2012	4.07			40.28
	44.35	7/10/2012	2.59			41.76
	44.35	1/8/2013	3.86			40.49
	44.35	7/23/2013	9.68			34.67
	44.35	1/8/2014	7.41			36.94
	44.35	7/16/2014	6.72			37.63
	44.35	1/5/2015	5.22			39.13
	44.35	8/10/2015	3.96			40.39
	44.35	1/13/2016	3.22			41.13
	44.35	7/6/2016	3.71			40.64
	44.35	1/12/2017	4.74			39.61
	44.35	7/5/2017	5.19			39.16
	44.35	9/6/2017	4.99			39.36
	44.35	2/11/2018	4.74			39.61
	44.35	3/12/2018	5.19			39.16
	44.35	5/14/2018	6.03			38.32
	44.35	1/3/2019	5.18			39.17
44.35	7/9/2019	5.92			38.43	
44.35	1/8/2020	5.06			39.29	
44.35	7/7/2020	4.85			39.5	
MW-34C	45.31	3/15/2004	17.40			27.91
	45.31	9/14/2004	18.82			26.49
	45.31	7/18/2005	19.41	65.29	7.19	25.9
	45.31	1/6/2006	20.54	65.27	8.38	24.77
	45.31	7/27/2006	18.55	63.84	8.61	26.76
	45.31	4/9/2007	16.34	62.06	10.39	28.97
	45.31	7/27/2007	NM			
	45.31	1/29/2008	16.32			28.99
45.31	7/15/2008	18.13	43.49	29.01	27.18	

Table 1
GROUNDWATER MEASUREMENTS
Houston, TX - Wood Preserving Works

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Depth to DNAPL (ft BTOC)	DNAPL Thickness (ft)	GW Elevation (ft)
MW-34C	45.31	2/5/2009	18.08	61.79	10.71	27.23
	45.31	7/23/2009	NM			
	45.31	1/9/2010	16.41	69.20	3.30	28.9
	45.31	7/12/2010	NM			
	45.31	1/12/2011	16.41	64.90		28.9
	45.31	7/11/2011	19.08	65.26		26.23
	45.31	2/8/2012	18.41			26.9
	45.31	7/10/2012	NM			
	45.31	1/8/2013	NM			
MW-34CR	46.47	7/16/2014	19.17			27.30
	46.47	1/5/2015	19.01			27.46
	46.47	8/10/2015	17.39			29.08
	46.47	1/13/2016	15.99			30.48
	46.47	7/6/2016	16.06			30.41
	46.47	1/12/2017	16.94			29.53
	46.47	7/5/2017	17.01			29.46
	46.47	9/6/2017	17.11			29.36
	46.47	2/11/2018	18.19			28.28
	46.47	3/12/2018	18.52			27.95
	46.47	5/14/2018	18.26			28.21
	46.47	1/3/2019	18.26			28.21
	46.47	7/9/2019	NM			damaged
	46.47	3/31/2020	17.49			28.98
	46.47	7/7/2020	18.21			28.26
MW-35A	44.75	3/7/2007	3.49			41.82
	44.75	7/27/2007	3.05			42.26
	44.75	1/29/2008	1.82			43.49
	44.75	7/14/2008	6.21			39.1
	44.75	2/3/2009	5.54			39.77
	44.75	7/23/2009	5.76			39.55
	44.75	1/9/2010	4.14			41.17
	44.75	7/12/2010	6.04			39.27
	44.75	1/13/2011	2.46			42.85
	44.75	7/11/2011	8.44			36.87
	44.75	1/27/2012	1.35			43.96
	44.75	7/10/2012	2.33			42.98
	44.75	1/8/2013	5.37			39.94
	44.75	7/23/2013	9.18			36.13
	44.75	1/8/2014	5.06			40.25
	44.75	7/15/2014	6.51			38.24
	44.75	1/5/2015	4.22			40.53
	44.75	8/10/2015	3.68			41.07
	44.75	1/13/2016	3.08			41.67
	44.75	7/6/2016	3.34			41.41
	44.75	1/12/2017	3.87			40.88
	44.75	7/5/2017	4.41			40.34
	44.75	9/6/2017	NM			
	44.75	2/11/2018	3.69			41.06
	44.75	3/11/2018	4.06			40.69
	44.75	5/14/2018	8.71			36.04
	44.75	1/3/2019	8.06			36.69
44.75	7/9/2019	7.92			36.83	
44.75	1/8/2020	4.41			40.34	
44.75	7/7/2020	4.45			40.3	
MW-35B	44.83	3/7/2007	3.31			41.52
	44.83	7/27/2007	3.29			41.54
	44.83	1/29/2008	1.95			42.88
	44.83	7/14/2008	6.40			38.43
	44.83	2/3/2009	5.79			39.04
	44.83	7/23/2009	6.42			38.41
	44.83	1/9/2010	3.51			41.32
	44.83	7/12/2010	6.39			38.44
	44.83	1/13/2011	2.96			41.87
	44.83	7/11/2011	8.67			36.16
	44.83	1/27/2012	1.59			43.24
	44.83	7/10/2012	2.74			42.09
	44.83	1/8/2013	6.09			38.74
	44.83	7/23/2013	9.22			35.61
	44.83	1/8/2014	5.31			39.52
	44.83	7/15/2014	6.75			38.08

Table 1
GROUNDWATER MEASUREMENTS
Houston, TX - Wood Preserving Works

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Depth to DNAPL (ft BTOC)	DNAPL Thickness (ft)	GW Elevation (ft)
MW-35B	44.83	1/5/2015	4.81			40.02
	44.83	8/10/2015	3.97			40.86
	44.83	1/13/2016	3.26			41.57
	44.83	7/6/2016	3.57			41.26
	44.83	1/12/2017	4.06			40.77
	44.83	7/5/2017	4.66			40.17
	44.83	9/6/2017	NM			
	44.83	2/11/2018	4.06			40.77
	44.83	3/11/2018	4.31			40.52
	44.83	5/14/2018	6.11			38.72
	44.83	1/3/2019	5.33			39.5
	44.83	7/9/2019	5.62			39.21
	44.83	1/8/2020	4.67			40.16
	44.83	7/7/2020	4.7			40.13
	MW-36A	44.53	3/7/2007	8.71		
44.53		7/27/2007	6.54			37.99
44.53		1/29/2008	5.59			38.94
44.53		7/14/2008	9.33			35.2
44.53		2/3/2009	10.69			33.84
44.53		7/23/2009	12.03			32.5
44.53		1/9/2010	9.23			35.3
44.53		7/12/2010	9.14			35.39
44.53		1/13/2011	8.62			35.91
44.53		7/11/2011	12.16			32.37
44.53		1/27/2012	6.82			37.71
44.53		7/10/2012	6.68			37.85
44.53		1/8/2013	7.61			36.92
44.53		7/23/2013	11.36			33.17
44.53		1/8/2014	9.23			35.3
44.53		7/16/2014	8.62			35.91
44.53		1/5/2015	8.67			35.86
44.53		8/10/2015	6.47			38.06
44.53		1/13/2016	5.79			38.74
44.53		7/6/2016	6.13			38.40
44.53		1/12/2017	6.58			37.95
44.53		7/5/2017	7.01			37.52
44.53		9/6/2017	6.92			37.61
44.53		2/11/2018	7.77			36.76
44.53		3/11/2018	8.06			36.47
44.53	5/14/2018	8.92			35.61	
44.53	1/3/2019	8.22			36.31	
44.53	7/9/2019	8.32			36.21	
44.53	1/7/2020	8.83			35.7	
44.53	7/7/2020	7.41			37.12	
MW-36B	44.07	7/12/2010	1.32			42.75
	44.07	1/13/2011	9.71			34.36
	44.07	7/11/2011	11.57			32.5
	44.07	1/27/2012	0.46			43.61
	44.07	7/10/2012	6.64			37.43
	44.07	1/8/2013	6.71			37.36
	44.07	7/23/2013	9.39			34.68
	44.07	1/8/2014	4.09			39.98
	44.07	7/16/2014	3.61			40.46
	44.07	1/5/2015	3.21			40.86
	44.07	8/10/2015	1.46			42.61
	44.07	1/13/2016	1.06			43.01
	44.07	7/6/2016	4.06			40.01
	44.07	1/12/2017	4.59			39.48
	44.07	7/5/2017	4.72			39.35
	44.07	9/6/2017	4.41			39.66
	44.07	2/11/2018	0.32			43.75
	44.07	3/11/2018	1.81			42.26
	44.07	5/14/2018	1.62			42.45
	44.07	1/3/2019	1.09			42.98
44.07	7/9/2019	1.86			42.21	
44.07	1/7/2020	0.39			43.68	
44.07	7/7/2020	4.89			39.18	
MW-36D	44.33	7/12/2010	85.39			-41.06
	44.33	1/13/2011	85.03			-40.7
	44.33	7/11/2011	85.33			-41

**Table 1
GROUNDWATER MEASUREMENTS
Houston, TX - Wood Preserving Works**

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Depth to DNAPL (ft BTOC)	DNAPL Thickness (ft)	GW Elevation (ft)
MW-36D	44.33	1/27/2012	85.62			-41.29
	44.33	7/10/2012	85.17			-40.84
	44.33	1/8/2013	85.37			-41.04
	44.33	7/23/2013	85.93			-41.6
	44.33	1/8/2014	85.32			-40.99
	44.33	7/16/2014	84.77			-40.44
	44.33	1/5/2015	85.01			-40.68
	44.33	8/10/2015	84.67			-40.34
	44.33	1/13/2016	84.29			-39.96
	44.33	7/6/2016	84.42			-40.09
	44.33	1/12/2017	84.73			-40.40
	44.33	7/5/2017	84.89			-40.56
	44.33	9/6/2017	84.86			-40.53
	44.33	2/11/2018	82.59			-38.26
	44.33	3/11/2018	82.77			-38.44
	44.33	5/14/2018	83.09			-38.76
	MW-38A	46.39	3/7/2007	3.26		
46.39		7/27/2007	3.08			43.31
46.39		1/29/2008	1.85			44.54
46.39		7/14/2008	5.84			40.55
46.39		2/3/2009	5.15			41.24
46.39		7/23/2009	5.06			41.33
46.39		1/9/2010	2.27			44.12
46.39		7/12/2010	6.42			39.97
46.39		1/13/2011	1.76			44.63
46.39		7/11/2011	8.16			38.23
46.39		1/27/2012	1.8			44.59
46.39		7/10/2012	2.52			43.87
46.39		1/8/2013	4.62			41.77
46.39		7/23/2013	8.34			38.05
46.39		1/8/2014	4.77			41.62
46.39		7/15/2014	6.20			40.19
MW-38B		45.51	3/15/2004	1.07		
	45.51	9/14/2004	6.10			39.41
	45.51	7/18/2005	2.41			43.1
	45.51	1/6/2006	6.33			39.18
	45.51	7/27/2006	1.27			44.24
	45.51	3/7/2007	2.38			43.13
	45.51	7/27/2007	2.25			43.26
	45.51	1/29/2008	0.61			44.9
	45.51	7/14/2008	4.86			40.65
	45.51	2/3/2009	4.33			41.18
	45.51	7/23/2009	4.47			41.04
	45.51	1/9/2010	1.44			44.07
	45.51	7/12/2010	5.72			39.79
	45.51	1/13/2011	0.68			44.83
	45.51	7/11/2011	7.82			37.69
	45.51	1/27/2012	0.85			44.66
	45.51	7/10/2012	0.74			44.77
45.51	1/8/2013	3.97			41.54	
45.51	7/23/2013	7.51			38	
45.51	1/8/2014	3.47			42.04	
45.51	7/15/2014	5.50			40.01	

Table 1
GROUNDWATER MEASUREMENTS
Houston, TX - Wood Preserving Works

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Depth to DNAPL (ft BTOC)	DNAPL Thickness (ft)	GW Elevation (ft)
MW-38B	45.51	1/5/2015	3.07			42.44
	45.51	8/10/2015	2.17			43.34
	45.51	1/13/2016	2.41			43.10
	45.51	7/6/2016	2.96			42.55
	45.51	1/12/2017	3.81			41.70
	45.51	7/5/2017	4.07			41.44
	45.51	9/6/2017	3.91			41.60
	45.51	2/11/2018	2.02			43.49
	45.51	3/11/2018	3.22			42.29
	45.51	5/14/2018	4.62			40.89
	45.51	1/3/2019	3.79			41.72
	45.51	7/9/2019	3.26			42.25
	45.51	1/8/2020	3.79			41.72
	45.51	7/7/2020	3.11			42.4
MW-39B	49.58	3/15/2004	5.48			44.1
	49.58	9/13/2004	10.02			39.56
	49.58	7/18/2005	7.21			42.37
	49.58	1/4/2006	10.37			39.21
	49.58	7/27/2006	6.08			43.5
	49.58	3/7/2007	6.91			42.67
	49.58	7/27/2007	5.74			43.84
	49.58	1/30/2008	6.34			43.24
	49.58	7/15/2008	8.96			40.62
	49.58	2/4/2009	8.60			40.98
	49.58	7/24/2009	9.13			40.45
	49.58	1/8/2010	5.61			43.97
	49.58	7/12/2010	9.31			40.27
	49.58	1/12/2011	5.64			43.94
	49.58	7/12/2011	11.97			37.61
	49.58	1/26/2012	5.84			43.74
	49.58	7/9/2012	5.77			43.81
	49.58	1/7/2013	8.68			40.9
	49.58	7/22/2013	11.17			38.41
	49.58	1/7/2014	7.23			42.35
	49.58	7/16/2014	9.46			40.12
	49.58	1/5/2015	6.71			42.87
	49.58	8/10/2015	4.82			44.76
	49.58	1/13/2016	4.17			45.41
	49.58	7/6/2016	4.26			45.32
	49.58	1/12/2017	5.61			43.97
	49.58	7/5/2017	5.87			43.71
	49.58	9/6/2017	5.66			43.92
	49.58	2/11/2018	6.09			43.49
	49.58	3/11/2018	7.04			42.54
	49.58	5/14/2018	8.73			40.85
49.58	1/3/2019	7.97			41.61	
49.58	7/9/2019	7.47			42.11	
49.58	1/7/2020	6.02			43.56	
49.58	7/8/2020	7.41			42.17	
MW-40B	49.59	3/15/2004	5.46			44.13
	49.59	9/13/2004	9.72			39.87
	49.59	7/18/2005	7.19			42.4
	49.59	1/4/2006	10.25			39.34
	49.59	7/27/2006	6.18			43.41
	49.59	3/7/2007	6.81			42.78
	49.59	7/27/2007	5.00			44.59
	49.59	1/30/2008	5.23			44.36
	49.59	7/15/2008	8.76			40.83
	49.59	2/4/2009	8.57			41.02
	49.59	7/24/2009	9.06			40.53
	49.59	1/8/2010	5.37			44.22
	49.59	7/12/2010	9.17			40.42
	49.59	1/12/2011	5.81			43.78
	49.59	7/12/2011	11.46			38.13
	49.59	1/26/2012	5.68			43.91
	49.59	7/9/2012	5.74			43.85
	49.59	1/7/2013	8.63			40.96
	49.59	7/22/2013	11.06			38.53
	49.59	1/7/2014	7.24			42.35
	49.59	7/16/2014	9.27			40.32
	49.59	1/5/2015	7.02			42.57

Table 1
GROUNDWATER MEASUREMENTS
Houston, TX - Wood Preserving Works

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Depth to DNAPL (ft BTOC)	DNAPL Thickness (ft)	GW Elevation (ft)
MW-40B	49.59	8/10/2015	5.02			44.57
	49.59	1/13/2016	4.39			45.20
	49.59	7/6/2016	4.67			44.92
	49.59	1/12/2017	5.22			44.37
	49.59	7/5/2017	5.77			43.82
	49.59	9/6/2017	5.71			43.88
	49.59	2/11/2018	6.21			43.38
	49.59	3/11/2018	6.82			42.77
	49.59	5/14/2018	8.44			41.15
	49.59	1/3/2019	7.91			41.68
	49.59	7/9/2019	7.23			42.36
	49.59	1/7/2020	6.17			43.42
	49.59	7/8/2020	7.19			42.4
MW-41B	49.37	3/15/2004	4.66			44.71
	49.37	9/13/2004	9.76	35.01	9.80	39.61
	49.37	7/18/2005	5.96	32.23	12.58	43.41
	49.37	1/4/2006	10.03	32.21	12.60	39.34
	49.37	7/27/2006	5.65	29.55	15.26	43.72
	49.37	3/7/2007	4.41	29.13	15.68	44.96
	49.37	7/27/2007	5.27	12.00	32.81	44.1
	49.37	2/22/2008	5.04	25.14	19.67	44.7
	49.37	7/15/2008	8.87	25.09	19.72	40.5
	49.37	2/4/2009	8.93	23.79	21.02	40.44
	49.37	7/24/2009	9.46	23.91	20.90	39.91
	49.37	1/8/2010	5.92	23.65	21.16	43.45
	49.37	5/27/2010	6.13	25.45	19.36	43.24
	49.37	6/28/2010	6.21	38.2	6.61	43.16
	49.37	7/12/2010	6.32	38.45	6.36	43.05
	49.37	8/31/2010	6.26	39.22	5.59	43.11
	49.37	1/12/2011	6.02	39.6	5.21	43.35
	49.37	7/12/2011	8.86	39.75	5.06	40.51
	49.37	3/8/2012	6.31	20.67	24.14	43.06
	49.37	7/9/2012	8.23			41.14
	49.37	1/7/2013	9.09	41.13	3.68	40.28
	49.37	7/22/2013	10.31	39.29	5.52	39.06
	49.37	1/7/2014	9.06	39.17	5.64	40.31
	49.37	7/15/2014	8.62	37.86	6.95	40.75
	49.37	1/5/2015	8.26	39.02	5.79	41.11
	49.37	8/10/2015	6.01	40.39	4.42	43.36
	49.37	1/13/2016	5.51	39.91	4.90	43.86
	49.37	7/6/2016	5.72	40.01	4.80	43.65
	49.37	1/12/2017	6.39	40.56	4.25	42.98
	49.37	7/6/2017	6.34	40.57	4.24	43.03
	49.37	9/6/2017	6.36	40.62	4.19	43.01
	49.37	2/7/2018	6.97	40.76	4.05	42.40
	49.37	3/11/2018	7.21	40.63	4.18	42.16
49.37	5/14/2018	8.71	40.82	3.99	40.66	
49.37	7/2/2018	8.97	40.96	3.85	40.4	
49.37	1/3/2019	8.22	40.83	3.98	41.15	
49.37	7/9/2019	7.57	40.86	1.74	41.8	
49.37	8/1/2019	7.46	39.42	5.39	41.91	
49.37	1/8/2020	4.2	40.34	2.26	45.17	
49.37	7/8/2020	7.29	BP		42.08	
MW-42B	50.52	3/7/2007	7.31			43.21
	50.52	7/27/2007	5.74			44.78
	50.52	1/30/2008	6.62			43.9
	50.52	7/15/2008	8.73			41.79
	50.52	2/4/2009	9.32			41.2
	50.52	7/24/2009	9.61			40.91
	50.52	1/8/2010	6.02			44.5
	50.52	7/12/2010	7.13			43.39
	50.52	1/12/2011	6.33			44.19
	50.52	7/12/2011	11.76			38.76
	50.52	1/26/2012	6.62			43.9
	50.52	7/9/2012	6.81			43.71
	50.52	1/7/2013	9.23			41.29
	50.52	7/22/2013	11.08			39.44
	50.52	1/7/2014	8.02			42.5
	50.52	7/15/2014	7.37			43.15
	50.52	1/5/2015	7.31			43.21
50.52	8/10/2015	5.67			44.85	

**Table 1
GROUNDWATER MEASUREMENTS
Houston, TX - Wood Preserving Works**

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Depth to DNAPL (ft BTOC)	DNAPL Thickness (ft)	GW Elevation (ft)
MW-42B	50.52	1/13/2016	4.92			45.60
	50.52	7/6/2016	5.36			45.16
	50.52	1/12/2017	5.94			44.58
	50.52	7/6/2017	6.27			44.25
	50.52	9/6/2017	6.39			44.13
	50.52	2/11/2018	6.84			43.68
	50.52	3/11/2018	7.12			43.40
	50.52	5/14/2018	8.76			41.76
	50.52	7/2/2018	8.99			41.53
	50.52	1/3/2019	8.02			42.50
	50.52	7/9/2019	7.42			43.1
	50.52	1/7/2020	6.97			43.55
	50.52	7/8/2020	7.29			43.23
MW-44A	45.11	3/7/2007	10.86			34.25
	45.11	7/27/2007	7.46			37.65
	45.11	1/30/2008	8.44			36.67
	45.11	7/14/2008	10.75			34.36
	45.11	2/3/2009	12.55			32.56
	45.11	7/23/2009	12.76			32.35
	45.11	1/9/2010	10.23			34.88
	45.11	7/12/2010	11.24			33.87
	45.11	1/12/2011	9.63			35.48
	45.11	7/11/2011	12.59			32.52
	45.11	1/27/2012	9.27			35.84
	45.11	7/10/2012	10.11			35
	45.11	1/8/2013	11.01			34.1
	45.11	7/23/2013	12.24			32.87
	45.11	1/8/2014	11.91			33.2
	45.11	7/16/2014	11.32			33.79
	45.11	1/5/2015	11.27			33.84
	45.11	8/10/2015	9.71			35.40
	45.11	1/13/2016	9.11			36.00
	45.11	7/6/2016	9.26			35.85
	45.11	1/12/2017	9.71			35.40
	45.11	7/5/2017	10.06			35.05
	45.11	9/6/2017	9.94			35.17
	45.11	2/11/2018	8.79			36.32
45.11	3/11/2018	9.83			35.28	
45.11	5/14/2018	9.91			35.20	
45.11	1/3/2019	9.23			35.88	
45.11	7/9/2019	8.67			36.44	
45.11	1/8/2020	10.18			34.93	
45.11	7/7/2020	9.58			35.53	
MW-44C	45.03	3/15/2004	17.54			27.49
	45.03	9/14/2004	18.35			26.68
	45.03	7/18/2005	18.90	64.77	5.35	26.13
	45.03	1/6/2006	20.03	66.50	5.37	25
	45.03	7/27/2006	18.47	63.35	6.75	26.56
	45.03	3/7/2007	16.02	62.30	7.75	29.01
	45.03	7/27/2007	14.83	65.45	5.50	30.2
	45.03	1/29/2008	15.95			29.08
	45.03	7/14/2008	17.91	64.95	6.18	27.12
	45.03	2/3/2009	16.72	64.15	6.98	28.31
	45.03	7/23/2009	17.12	64.05	6.75	27.91
	45.03	1/9/2010	15.57	63.81	6.99	29.46
	45.03	5/27/2010	16.67	64.7	6.10	28.36
	45.03	6/28/2010	16.77	67.85	2.95	28.26
	45.03	7/12/2010	16.91	70.35	0.45	28.12
	45.03	8/31/2010	16.89	70.63	0.17	28.14
	45.03	1/12/2011	16.77	70.05	0.75	28.26
	45.03	7/11/2011	19.31	70.05	0.75	25.72
	45.03	1/27/2012	17.91	63.88	6.92	27.12
	45.03	7/10/2012	17.61	63.7	7.10	27.42
	45.03	1/8/2013	19.02	62.94	7.86	26.01
	45.03	7/23/2013	20.36	70.26	0.54	24.67
	45.03	1/8/2014	19.67	70.42	0.38	25.36
	45.03	7/16/2014	18.72	69.31	1.49	26.31
45.03	1/5/2015	18.67	69.82	0.98	26.36	
45.03	8/10/2015	16.31	70.29	0.51	28.72	
45.03	1/13/2016	16.26	69.93	0.87	28.77	
45.03	7/6/2016	16.47	69.71	1.09	28.56	

Table 1
GROUNDWATER MEASUREMENTS
Houston, TX - Wood Preserving Works

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Depth to DNAPL (ft BTOC)	DNAPL Thickness (ft)	GW Elevation (ft)
MW-44C	45.03	1/12/2017	17.22	70.11	0.69	27.81
	45.03	7/5/2017	17.33	70.34	0.46	27.70
	45.03	9/6/2017	17.36	70.43	-0.87	27.67
	45.03	2/8/2018	17.77	70.34	0.46	27.26
	45.03	5/15/2018	NM			
	45.13	1/4/2019	18.42	70.41	0.39	26.71
	45.13	7/9/2019	18.27			26.86
	45.13	1/8/2020	16.81			28.32
	45.13	7/7/2020	11.35			33.78
MW-45C	44.73	3/15/2004	17.15			27.58
	44.73	9/14/2004	17.82	61.66	9.02	26.91
	44.73	7/18/2005	18.38	60.76	9.89	26.35
	44.73	1/6/2006	19.51	62.87	8.87	25.22
	44.73	7/27/2006	17.92	61.64	8.94	26.81
	44.73	3/7/2007	15.95	60.81	9.79	28.78
	44.73	7/27/2007	14.38			30.35
	44.73	1/29/2008	14.86	61.39	9.46	29.87
	44.73	7/14/2008	17.22	61.25	9.88	27.51
	44.73	2/3/2009	17.00	61.24	9.61	27.73
	44.73	7/23/2009	17.46	61.30	9.55	27.27
	44.73	1/9/2010	14.98	61.56	9.29	29.75
	44.73	5/27/2010	16.31	61.1	9.75	28.42
	44.73	6/28/2010	16.42	63.45	7.40	28.31
	44.73	7/12/2010	16.61	68.8	2.05	28.12
	44.73	8/31/2010	16.46	69.62	1.23	28.27
	44.73	1/12/2011	16.31	69.1	1.75	28.42
	44.73	7/11/2011	18.29	69.3	1.55	26.44
	44.73	3/8/2012	16.31	70.6	0.25	28.42
	44.73	7/10/2012	20.69	70.21	0.64	24.04
	44.73	1/8/2013	21.39	69.91	0.69	23.34
	44.73	7/23/2013	22.72	70.39	0.21	22.01
	44.73	1/8/2014	22.13	70.35	0.25	22.6
	44.73	7/16/2014	21.32	69.91	0.69	23.41
	44.73	1/5/2015	20.19	70.55	0.05	24.54
	44.73	8/10/2015	18.61			26.12
	44.73	1/13/2016	17.49			27.24
	44.73	7/6/2016	17.62			27.11
	44.73	1/12/2017	18.22			26.51
	44.73	7/5/2017	17.96			26.77
	44.73	9/6/2017	18.16			26.57
	44.73	2/8/2018	18.62	70.6	0.00	26.11
44.73	3/11/2018	18.83			25.9	
44.73	5/15/2018	19.61			25.12	
44.73	1/4/2019	19.02			25.71	
44.73	7/9/2019	18.39			26.34	
44.73	1/7/2020	16.24			28.49	
44.73	7/7/2020	16.3			28.43	
MW-46C	44.94	3/15/2004	16.16	ND	ND	28.78
	44.94	9/14/2004	17.97	ND	ND	26.97
	44.94	7/18/2005	18.50	69.05	3.78	26.44
	44.94	1/13/2006	19.66	70.20	3.22	25.28
	44.94	7/27/2006	17.96	68.89	3.90	26.98
	44.94	3/7/2007	16.01	69.32	3.43	28.93
	44.94	7/27/2007	14.54	69.31	3.59	30.4
	44.94	1/30/2008	15.68	70.81	2.00	29.26
	44.94	7/14/2008	17.38	69.97	2.84	27.56
	44.94	2/3/2009	16.78	69.28	3.53	28.16
	44.94	7/23/2009	17.59	69.35	3.55	27.35
	44.94	1/9/2010	14.53	68.74	4.16	30.41
	44.94	5/27/2010	16.26	69.4	3.50	28.68
	44.94	6/28/2010	16.39	70.85	2.05	28.55
	44.94	7/12/2010	16.29	72.25	0.65	28.65
	44.94	8/31/2010	16.13	72.46	0.44	28.81
	44.94	1/12/2011	15.96	71.75	1.15	28.98
	44.94	7/11/2011	18.07	71.65	1.25	26.87
	44.94	1/26/2012	16.54	ND	ND	28.4
	44.94	7/10/2012	20.34	72.8	0.10	24.6
	44.94	1/8/2013	21.18	71.31	1.59	23.76
	44.94	7/23/2013	21.96	72.16	0.74	22.98
	44.94	1/8/2014	21.81	72.55	0.35	23.13
	44.94	7/16/2014	20.86	71.39	1.51	24.08

Table 1
GROUNDWATER MEASUREMENTS
Houston, TX - Wood Preserving Works

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Depth to DNAPL (ft BTOC)	DNAPL Thickness (ft)	GW Elevation (ft)
MW-46C	44.94	1/5/2015	20.47	72.06	0.84	24.47
	44.94	8/10/2015	18.39	72.42	0.48	26.55
	44.94	1/13/2016	18.24	72.59	0.31	26.70
	44.94	7/6/2016	18.54	72.49	0.41	26.40
	44.94	1/12/2017	19.27	72.46	0.44	25.67
	44.94	7/5/2017	19.12	72.34	0.56	25.82
	44.94	9/6/2017	19.29	72.34	0.56	25.65
	44.94	2/8/2018	19.96	72.46	0.44	24.98
	44.94	3/11/2018	20.04	72.32	0.58	24.90
	44.94	5/15/2018	21.02	72.59	0.31	23.92
	44.94	1/4/2019	20.49	72.46	0.44	24.45
	44.94	7/9/2019	18.72			26.22
	44.94	1/7/2020	16.34			28.6
	44.94	7/7/2020	16.5			28.44
MW-47A	45.58	3/20/2020	9.26			36.32
	45.58	6/1/2020	8.11			37.47
	45.58	7/8/2020	8.01			37.57
MW-47C	45.61	7/27/2007	16.62			28.99
	45.61	1/29/2008	16.04			29.57
	45.61	7/14/2008	18.15			27.46
	45.61	2/4/2009	18.39			27.22
	45.61	7/23/2009	18.61			27
	45.61	1/9/2010	16.46			29.15
	45.61	7/12/2010	18.33			27.28
	45.61	1/12/2011	17.86			27.75
	45.61	7/11/2011	19.94			25.67
	45.61	1/26/2012	18.77			26.84
	45.61	7/9/2012	18.17			27.44
	45.61	1/8/2013	19.47			26.14
	45.61	7/23/2013	20.61			25
	45.61	1/8/2014	19.57			26.04
	45.61	7/16/2014	19.02			26.59
	45.61	1/5/2015	19.07			26.54
	45.61	8/10/2015	17.41			28.20
	45.61	1/13/2016	16.83			28.78
	45.61	7/6/2016	17.01			28.60
	45.61	1/12/2017	17.59			28.02
	45.52	7/5/2017	NM			
45.52	9/6/2017	NM				
45.52	1/7/2020	17.28			28.24	
45.52	7/8/2020	17.4			28.12	
MW-48C	44.68	3/15/2004	17.31			27.37
	44.68	9/14/2004	18.60			26.08
	44.68	7/18/2005	19.17			25.51
	44.68	1/6/2006	20.33			24.35
	44.68	7/27/2006	18.73			25.95
	44.68	3/7/2007	16.52			28.16
	44.68	7/27/2007	15.22			29.46
	44.68	1/29/2008	16.32			28.36
	44.68	7/14/2008	17.63			27.05
	44.68	2/4/2009	17.97			26.71
	44.68	7/24/2009	18.39			26.29
	44.68	1/9/2010	15.81			28.87
	44.68	7/12/2010	17.42			27.26
	44.68	1/12/2011	17.52			27.16
	44.68	7/11/2011	19.58			25.1
	44.68	1/26/2012	18.52			26.16
	44.68	7/9/2012	17.12			27.56
	44.68	1/8/2013	18.26			26.42
	44.68	7/23/2013	20.17			24.51
	44.68	1/8/2014	19.19			25.49
	44.68	7/16/2014	18.38			26.30
	44.68	1/5/2015	18.76			25.92
	44.68	8/10/2015	16.34			28.34
	44.68	1/13/2016	15.72			28.96
	44.68	7/6/2016	16.16			28.52
	44.68	1/12/2017	16.71			27.97
	44.68	7/5/2017	17.17			27.51
	44.68	9/6/2017	17.15			27.53
44.68	2/11/2018	17.36			27.32	
44.68	3/11/2018	16.74			27.94	

Table 1
GROUNDWATER MEASUREMENTS
Houston, TX - Wood Preserving Works

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Depth to DNAPL (ft BTOC)	DNAPL Thickness (ft)	GW Elevation (ft)	
MW-48C	44.68	5/14/2018	17.33			27.35	
	44.68	1/4/2019	16.67			28.01	
	44.68	7/9/2019	18.23			26.45	
	44.68	1/7/2020	17.09			27.59	
	44.68	7/16/2020	17.87			26.81	
MW-49A	46.18	3/7/2007	12.91			33.27	
	46.18	7/27/2007	8.86			37.32	
	46.18	1/31/2008	12.02			34.16	
	46.18	7/15/2008	12.99			33.19	
	46.18	2/4/2009	13.29			32.89	
	46.18	7/24/2009	13.71			32.47	
	46.18	1/9/2010	11.07			35.11	
	46.18	7/12/2010	11.62			34.56	
	46.18	1/12/2011	10.82			35.36	
	46.18	7/11/2011	12.31			33.87	
	46.18	1/26/2012	9.48			36.7	
	46.18	7/9/2012	9.79			36.39	
	46.18	1/8/2013	11.31			34.87	
	46.18	7/23/2013	11.92			34.26	
	46.18	1/8/2014	11.56			34.62	
	46.18	7/16/2014	10.57			35.61	
	46.18	1/5/2015	16.12			30.06	
	46.18	8/10/2015	9.61			36.57	
	46.18	1/13/2016	9.34			36.84	
	46.18	7/6/2016	9.57			36.61	
	46.18	1/12/2017	10.03			36.15	
	46.18	7/5/2017	10.32			35.86	
	46.18	9/6/2017	10.24			35.94	
	46.18	2/11/2018	10.29			35.89	
	46.18	3/11/2018	10.56			35.62	
	46.18	5/14/2018	12.34			33.84	
	46.18	1/4/2019	11.81			34.37	
	46.18	7/9/2019	11.21			34.97	
46.18	1/7/2020	11.12			35.06		
46.18	7/8/2020	10.4			35.78		
MW-49B	46.22	2/4/2009	11.65			34.57	
	46.22	7/24/2009	11.93			34.29	
	46.22	1/9/2010	9.73			36.49	
	46.22	7/12/2010	11.36			34.86	
	46.22	1/12/2011	8.04			38.18	
	46.22	7/11/2011	12.29			33.93	
	46.22	1/26/2012	10.74			35.48	
	46.22	7/9/2012	7.38			38.84	
	46.22	1/8/2013	11.27	33.56	1.19	34.95	
	46.22	7/23/2013	11.83	33.91	0.84	34.39	
	46.22	1/8/2014	11.24			34.98	
	46.22	7/16/2014	9.62			36.60	
	46.22	1/5/2015	10.74			35.48	
	46.22	8/10/2015	8.17			38.05	
	46.22	1/13/2016	7.74			38.48	
	46.22	7/6/2016	8.02			38.20	
	46.22	1/12/2017	8.46			37.76	
	46.22	7/5/2017	8.72			37.50	
	46.22	9/6/2017	8.67			37.55	
	46.22	2/11/2018	10.03			36.19	
	46.22	3/11/2018	10.64			35.58	
	46.22	5/14/2018	13.27			32.95	
	46.22	1/4/2019	12.59			33.63	
	46.22	7/9/2019	12.02	34.62	0.24	34.2	
	46.22	1/7/2020	11.51	20.09	12.96	34.71	
	46.22	7/8/2020	10.52	32.41	0.64	35.7	
	MW-50A	46.96	3/7/2007	8.16			38.8
		46.96	7/27/2007	4.70			42.26
46.96		1/31/2008	5.68			41.28	
46.96		7/16/2008	7.99			38.97	
46.96		2/4/2009	9.31			37.65	
46.96		7/24/2009	9.49			37.47	
46.96		1/9/2010	7.02			39.94	
46.96		7/12/2010	8.74			38.22	
46.96		1/12/2011	5.61			41.35	
46.96		7/11/2011	9.86			37.1	

Table 1
GROUNDWATER MEASUREMENTS
Houston, TX - Wood Preserving Works

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Depth to DNAPL (ft BTOC)	DNAPL Thickness (ft)	GW Elevation (ft)	
MW-50A	46.96	1/26/2012	7.21			39.75	
	46.96	7/9/2012	4.63			42.33	
	46.96	1/8/2013	5.91			41.05	
	46.96	7/23/2013	7.13			39.83	
	46.96	1/8/2014	6.71			40.25	
	46.96	7/16/2014	6.29			40.67	
	46.96	1/5/2015	6.22			40.74	
	46.96	8/10/2015	5.01			41.95	
	46.96	1/13/2016	4.06			42.90	
	46.96	7/6/2016	4.71			42.25	
	46.96	1/12/2017	5.21			41.75	
	46.96	7/5/2017	5.63			41.33	
	46.96	9/6/2017	5.51			41.45	
	46.96	2/11/2018	4.39			42.57	
	46.96	3/11/2018	4.81			42.15	
	46.96	5/15/2018	5.27			41.69	
	MW-50B	47.55	3/12/2020	8.37			39.18
47.55		5/26/2020	8.31			39.24	
47.55		7/8/2020	7.91			39.64	
MW-51A		47.80	3/7/2007	6.96			40.84
		47.80	7/27/2007	5.45			42.35
		47.80	1/31/2008	5.92			41.88
		47.80	7/15/2008	NM			
		47.80	2/4/2009	9.98			37.82
		47.80	7/24/2009	10.34			37.46
		47.80	1/9/2010	7.83			39.97
	47.80	7/12/2010	9.16			38.64	
	47.80	1/12/2011	8.56			39.24	
	47.80	7/11/2011	12.74			35.06	
	47.80	1/26/2012	7.33			40.47	
	47.80	7/9/2012	7.26			40.54	
	47.80	1/8/2013	7.62			40.18	
	47.80	7/23/2013	10.54			37.26	
	47.80	1/8/2014	10.21			37.59	
	47.80	7/16/2014	8.51			39.29	
	MW-51C	47.48	7/16/2014	22.21			25.27
47.48		1/5/2015	NM			NM	
47.48		8/10/2015	18.79			28.69	
47.48		1/13/2016	18.06			29.42	
47.48		7/6/2016	18.26			29.22	
47.48		1/12/2017	18.68			28.80	
47.48		7/5/2017	19.12			28.36	
47.48		9/6/2017	19.02			28.46	
47.48		2/11/2018	17.63			29.85	
47.48		3/12/2018	18.03			29.45	
47.48		5/15/2018	20.83			26.65	
47.48		1/3/2019	20.17			27.31	
47.48		7/9/2019	20.39			27.09	
47.48		1/7/2020	20.34			27.14	
47.48		7/8/2020	18.05			29.43	
MW-52A		51.91	3/7/2007	13.66			38.25
		51.91	7/27/2007	11.76			40.15
	51.91	1/31/2008	12.60			39.31	

**Table 1
GROUNDWATER MEASUREMENTS
Houston, TX - Wood Preserving Works**

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Depth to DNAPL (ft BTOC)	DNAPL Thickness (ft)	GW Elevation (ft)
MW-52A	51.91	7/15/2008	14.42			37.49
	51.91	2/5/2009	15.52			36.39
	51.91	7/23/2009	16.39			35.52
	51.91	1/9/2010	12.57			39.34
	51.91	7/12/2010	14.19			37.72
	51.91	1/12/2011	9.06			42.85
	51.91	7/12/2011	16.53			35.38
	51.91	1/26/2012	12.99			38.92
	51.91	7/9/2012	12.43			39.48
	51.91	1/7/2013	14.94			36.97
	51.91	7/22/2013	16.29			35.62
	51.91	1/7/2014	16.01			35.9
	51.91	7/15/2014	15.39			36.52
	51.91	1/5/2015	15.37			36.54
	51.91	8/10/2015	13.61			38.30
	51.91	1/13/2016	12.96			38.95
	51.91	7/6/2016	NM			NM
MW-53C	45.49	3/7/2007	16.12			29.37
	45.49	7/27/2007	14.55			30.94
	45.49	1/29/2008	15.12			30.37
	45.49	7/14/2008	16.86			28.63
	45.49	2/3/2009	16.69			28.8
	45.49	7/23/2009	17.62			27.87
	45.49	1/9/2010	15.19			30.3
	45.49	7/12/2010	15.71			29.78
	45.49	1/12/2011	16.58			28.91
	45.49	7/11/2011	18.61			26.88
	45.49	1/27/2012	17.54			27.95
	45.49	7/10/2012	17.73			27.76
	45.49	1/8/2013	18.14			27.35
	45.49	7/23/2013	19.28			26.21
	45.49	1/8/2014	21.12			24.37
	45.49	7/16/2014	17.37			28.12
	45.49	1/5/2015	20.71			24.78
	45.49	8/10/2015	18.72			26.77
	45.49	1/13/2016	18.06			27.43
	45.49	7/6/2016	18.42			27.07
	45.49	1/12/2017	18.89			26.60
	45.49	7/5/2017	19.16			26.33
	45.49	9/6/2017	19.13			26.36
	45.49	2/11/2018	16.43			29.06
45.49	3/11/2018	15.54			29.95	
45.49	5/14/2018	16.56			28.93	
45.49	1/4/2019	15.93			29.56	
45.49	7/9/2019	15.86			29.63	
45.49	1/7/2020	16.72			28.77	
45.49	7/7/2020	14.15			31.34	
MW-54B	45.25	3/11/2020	13.42			31.83
	45.25	5/22/2020	13.70			31.55
	45.25	7/7/2020	14.63			30.62
MW-54C	44.99	3/7/2007	15.74			29.25
	44.99	7/27/2007	14.63			30.36
	44.99	1/28/2008	15.28			29.71
	44.99	7/14/2008	16.68			28.31
	44.99	2/3/2009	16.87			28.12
	44.99	7/23/2009	17.84			27.15
	44.99	1/9/2010	15.46			29.53
	44.99	7/12/2010	16.49			28.5
	44.99	1/12/2011	16.46			28.53
	44.99	7/11/2011	18.23			26.76
	44.99	1/27/2012	17.42			27.57
	44.99	7/10/2012	17.36			27.63
	44.99	1/8/2013	17.81			27.18
	44.99	7/23/2013	18.89			26.1
	44.99	1/8/2014	18.14			26.85
	44.99	7/16/2014	17.49			27.50
	44.99	1/5/2015	17.86			27.13
	44.99	8/10/2015	16.02			28.97
	44.99	1/13/2016	15.33			29.66
	44.99	7/6/2016	15.66			29.33
44.99	1/12/2017	16.17			28.82	

**Table 1
GROUNDWATER MEASUREMENTS
Houston, TX - Wood Preserving Works**

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Depth to DNAPL (ft BTOC)	DNAPL Thickness (ft)	GW Elevation (ft)
MW-54C	44.99	7/5/2017	16.61			28.38
	44.99	9/6/2017	16.59			28.40
	44.99	2/11/2018	15.4			29.59
	44.99	3/11/2018	15.68			29.31
	44.99	5/14/2018	16.31			28.68
	44.99	1/4/2019	15.71			29.28
	44.99	7/9/2019	15.27			29.72
	44.99	1/7/2020	15.59			29.4
	44.99	7/7/2020	16.38			28.61
MW-55A	52.01	2/4/2009	13.79			38.22
	52.01	7/23/2009	14.06			37.95
	52.01	1/9/2010	10.83			41.18
	52.01	7/12/2010	12.72			39.29
	52.01	1/12/2011	10.13			41.88
	52.01	7/12/2011	15.18			36.83
	52.01	1/26/2012	11.71			40.3
	52.01	7/9/2012	12.29			39.72
	52.01	1/7/2013	13.34			38.67
	52.01	7/22/2013	14.19			37.82
	52.01	1/7/2014	12.73			39.28
	52.01	7/15/2014	11.30			40.71
	52.01	1/5/2015	12.51			39.50
	52.01	8/10/2015	10.79			41.22
MW-55B	52.04	1/26/2012	13.28			38.76
	52.04	7/9/2012	13.93			38.11
	52.04	1/7/2013	13.73			38.31
	52.04	7/22/2013	14.59			37.45
	52.04	1/7/2014	12.89			39.15
	52.04	7/15/2014	12.49			39.55
	52.04	1/5/2015	12.41			39.63
	52.04	8/10/2015	10.19			41.85
MW-57A	47.72	2/5/2009	12.73		0.00	34.99
	47.72	7/23/2009	12.91		0.00	34.81
	47.72	1/9/2010	9.78		0.00	37.94
	47.72	7/12/2010	8.56	24.55	2.55	39.16
	47.72	1/12/2011	9.83	22.76	4.14	37.89
	47.72	7/12/2011	13.88	22.79	4.11	33.84
	47.72	1/26/2012	10.54	22.78	4.12	37.18
	47.72	7/9/2012	9.72	22.65	4.25	38
	47.72	1/7/2013	10.61	22.14	4.76	37.11
	47.72	7/22/2013	13.21	23.05	3.85	34.51
	47.72	1/7/2014	11.79	26.15	0.75	35.93
	47.72	7/15/2014	10.42	26.09	0.81	37.30
	47.72	1/5/2015	10.13	26.75	0.15	37.59
	47.72	8/10/2015	7.46	26.9	0.00	40.26
	47.72	7/6/2016	7.39			40.33
	47.72	1/12/2017	8.07			39.65
	47.72	7/6/2017	8.41			39.31
	47.72	9/6/2017	8.46			39.26
	47.72	2/7/2018	8.98			38.74
	47.72	3/11/2018	9.24			38.48
47.72	5/14/2018	9.67			38.05	
47.72	1/4/2019	9.52			38.2	
47.72	7/9/2019	10.11			37.61	
47.72	1/8/2020	14.46			33.26	
47.72	7/7/2020	13.18			34.54	
MW-57B	50.90	1/26/2012	28.83	42.51	0.44	22.07
	50.90	7/9/2012	27.93	42.45	0.50	22.97
	50.90	1/7/2013	28.63	41.36	1.59	22.27
	50.90	7/22/2013	16.34	41.67	1.28	34.56
	50.90	1/7/2014	15.04			35.86
	50.90	7/15/2014	15.71			35.19
	50.90	1/5/2015	14.32			36.58
	50.90	8/10/2015	12.42			38.48
	50.90	7/6/2016	12.44			38.46
	50.90	1/12/2017	13.24			37.66
	50.90	7/6/2017	13.57			37.33
	50.90	9/6/2017	13.79			37.11
	50.90	2/7/2018	12.42			38.48
	50.90	3/11/2018	12.62			38.28
	50.90	5/14/2018	13.29			37.61

**Table 1
GROUNDWATER MEASUREMENTS
Houston, TX - Wood Preserving Works**

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Depth to DNAPL (ft BTOC)	DNAPL Thickness (ft)	GW Elevation (ft)
MW-57B	50.90	1/4/2019	13.03			37.87
	50.90	7/9/2019	13.71			37.19
	50.90	1/8/2020	13.73			37.17
	50.90	7/7/2020	14.61			36.29
MW-58A	47.76	2/5/2009	14.55			33.21
	47.76	7/23/2009	14.04			33.72
	47.76	1/9/2010	12.29			35.47
	47.76	7/12/2010	14.03			33.73
	47.76	1/12/2011	11.88			35.88
	47.76	7/12/2011	16.16			31.6
	47.76	1/26/2012	12.26			35.5
	47.76	7/9/2012	11.62			36.14
	47.76	1/7/2013	11.91			35.85
	47.76	7/22/2013	13.71			34.05
	47.76	1/7/2014	13.26			34.5
	47.76	7/15/2014	13.06			34.70
	47.76	1/5/2015	13.06			34.70
	47.76	8/10/2015	11.29			36.47
	47.76	7/6/2016	7.46			40.30
	47.76	1/12/2017	8.04			39.72
	47.76	7/6/2017	8.39			39.37
	47.76	9/6/2017	8.33			39.43
	47.76	2/11/2018	6.47			41.29
	47.76	3/11/2018	12.71			35.05
47.76	5/14/2018	12.94			34.82	
47.76	1/4/2019	12.29			35.47	
47.76	7/9/2019	12.29			35.47	
47.76	1/7/2020	13.17			34.59	
47.76	7/7/2020	11.21			36.55	
MW-59A	44.18	2/5/2009	10.71			33.47
	44.18	7/23/2009	9.96			34.22
	44.18	1/9/2010	8.62			35.56
	44.18	7/12/2010	9.97			34.21
	44.18	1/12/2011	8.06			36.12
	44.18	7/11/2011	10.54			33.64
	44.18	1/26/2012	6.36			37.82
	44.18	7/9/2012	7.63			36.55
	44.18	1/8/2013	9.09			35.09
	44.18	7/23/2013	9.76			34.42
	44.18	1/8/2014	9.34			34.84
	44.18	7/16/2014	9.17			35.01
	44.18	1/5/2015	8.71			35.47
	44.18	8/10/2015	5.76			38.42
	44.18	1/13/2016	5.01			39.17
	44.18	7/6/2016	5.26			38.92
	44.18	1/12/2017	5.81			38.37
	44.18	7/5/2017	6.14			38.04
	44.18	9/6/2017	6.09			38.09
	44.18	2/11/2018	6.26			37.92
44.18	3/12/2018	9.13			35.05	
44.18	5/14/2018	8.81			35.37	
44.18	1/4/2019	8.12			36.06	
44.18	7/9/2019	8.92			35.26	
44.18	1/8/2020	9.21			34.97	
44.18	7/8/2020	8.64			35.54	
MW-59B	44.36	7/12/2010	7.43			36.93
	44.36	1/12/2011	6.89			37.47
	44.36	7/11/2011	11.03			33.33
	44.36	1/26/2012	4.44			39.92
	44.36	7/9/2012	7.48			36.88
	44.36	1/8/2013	9.36			35
	44.36	7/23/2013	9.94			34.42
	44.36	1/8/2014	9.52			34.84
	44.36	7/16/2014	8.67			35.69
	44.36	1/5/2015	8.92			35.44
	44.36	8/10/2015	5.91			38.45
	44.36	1/13/2016	5.22			39.14
	44.36	7/6/2016	5.39			38.97
	44.36	1/12/2017	5.97			38.39
44.36	7/5/2017	6.27			38.09	
44.36	9/6/2017	6.06			38.30	

**Table 1
GROUNDWATER MEASUREMENTS
Houston, TX - Wood Preserving Works**

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Depth to DNAPL (ft BTOC)	DNAPL Thickness (ft)	GW Elevation (ft)
MW-59B	44.36	2/11/2018	7.59			36.77
	44.36	3/12/2018	9.61			34.75
	44.36	5/14/2018	9.09			35.27
	44.36	1/4/2019	8.27			36.09
	44.36	7/9/2019	9.06			35.3
	44.36	1/8/2020	9.17			35.19
	44.36	7/8/2020	8.51			35.85
MW-59D	44.22	2/5/2009	84.17			-39.95
	44.22	7/23/2009	83.53			-39.31
	44.22	1/9/2010	81.73			-37.51
	44.22	7/12/2010	82.16			-37.94
	44.22	1/12/2011	82.83			-38.61
	44.22	7/11/2011	82.89			-38.67
	44.22	1/26/2012	82.93			-38.71
	44.22	7/9/2012	82.36			-38.14
	44.22	1/8/2013	82.81			-38.59
	44.22	7/23/2013	83.04			-38.82
	44.22	1/8/2014	83.14			-38.92
	44.22	7/16/2014	82.67			-38.45
	44.22	1/5/2015	82.07			-37.85
	44.22	8/10/2015	81.77			-37.55
	44.22	1/13/2016	81.03			-36.81
	44.22	7/6/2016	81.62			-37.40
	44.22	1/12/2017	82.09			-37.87
	44.22	7/5/2017	82.17			-37.95
	44.22	9/6/2017	82.16			-37.94
	44.22	2/11/2018	81.09			-36.87
	44.22	3/12/2018	81.17			-36.95
44.22	5/14/2018	81.79			-37.57	
44.22	1/4/2019	81.02			-36.8	
44.22	7/9/2019	81.31			-37.09	
44.22	1/8/2020	83.06			-38.84	
44.22	7/8/2020	79.56			-35.34	
MW-60A	46.79	2/4/2009	9.56			37.23
	46.79	7/23/2009	9.71			37.08
	46.79	1/9/2010	7.72			39.07
	46.79	7/12/2010	8.61			38.18
	46.79	1/12/2011	5.82			40.97
	46.79	7/11/2011	9.86			36.93
	46.79	1/26/2012	4.34			42.45
	46.79	7/9/2012	5.42			41.37
	46.79	1/8/2013	6.91			39.88
	46.79	7/23/2013	10.42			36.37
	46.79	1/8/2014	8.06			38.73
	46.79	7/16/2014	7.29			39.50
	46.79	1/5/2015	7.39			39.40
	46.79	8/10/2015	6.32			40.47
	46.79	1/13/2016	5.67			41.12
	46.79	7/6/2016	6.13			40.66
	46.79	1/12/2017	--			
	46.79	9/6/2017	NM			
	46.79	2/11/2018	3.49			43.30
	46.79	3/12/2018	3.71			43.08
46.79	5/14/2018	5.19			41.60	
46.79	1/4/2019	4.33			42.46	
46.79	7/9/2019	5.52			41.27	
MW-60AR	47.09	3/20/2020	8.03			39.06
	47.09	6/1/2020	7.42			39.67
	47.09	7/8/2020	7.22			39.87
MW-60B	47.04	3/17/2020	24.91			22.13
	47.04	6/1/2020	11.42			35.62
	47.04	7/8/2020	12.3			34.74
MW-61A	44.67	2/3/2009	8.35			36.32
	44.67	7/23/2009	8.47			36.2
	44.67	1/9/2010	6.49			38.18
	44.67	7/12/2010	8.09			36.58
	44.67	1/12/2011	6.56			38.11
	44.67	7/11/2011	9.67			35
	44.67	1/26/2012	2.48			42.19
44.67	7/9/2012	4.55			40.12	
44.67	1/8/2013	6.72			37.95	

**Table 1
GROUNDWATER MEASUREMENTS
Houston, TX - Wood Preserving Works**

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Depth to DNAPL (ft BTOC)	DNAPL Thickness (ft)	GW Elevation (ft)
MW-61A	44.67	7/23/2013	9.16			35.51
	44.67	1/8/2014	7.04			37.63
	44.67	7/16/2014	6.34			38.33
	44.67	1/5/2015	6.52			38.15
	44.67	8/10/2015	4.02			40.65
	44.67	1/13/2016	3.34			41.33
	44.67	7/6/2016	3.97			40.70
	44.67	1/12/2017	4.34			40.33
	44.67	7/5/2017	4.47			40.20
	44.67	9/6/2017	4.39			40.28
	44.67	2/11/2018	5.52			39.15
	44.67	3/12/2018	6.62			38.05
	44.67	5/14/2018	6.27			38.40
	44.67	1/4/2019	5.58			39.09
	44.67	7/9/2019	6.96			37.71
	44.67	1/8/2020	4.87			39.8
	44.67	7/8/2020	6.41			38.26
MW-61B	45.09	3/17/2020	8.31			36.78
	45.09	6/1/2020	4.67			40.42
	45.09	7/8/2020	5			40.09
MW-62B	48.16	2/4/2009	6.99			41.17
	48.16	7/24/2009	7.39			40.77
	48.16	1/8/2010	5.13			43.03
	48.16	7/12/2010	5.79			42.37
	48.16	1/12/2011	4.21			43.95
	48.16	7/12/2011	11.06			37.1
	48.16	1/26/2012	3.18			44.98
	48.16	7/9/2012	4.87			43.29
	48.16	1/8/2013	5.92			42.24
	48.16	7/23/2013	7.01			41.15
	48.16	1/8/2014	6.52			41.64
	48.16	7/15/2014	6.06			42.10
	48.16	1/5/2015	6.02			42.14
	48.16	8/10/2015	4.16			44.00
	48.16	1/13/2016	3.64			44.52
	48.16	7/6/2016	4.09			44.07
	48.16	1/12/2017	4.71			43.45
	48.16	7/6/2017	5.09			43.07
	48.16	9/6/2017	4.71			43.45
	48.16	2/11/2018	4.12			44.04
	48.16	3/11/2018	5.37			42.79
	48.16	5/14/2018	6.81			41.35
48.16	7/2/2018	6.92			41.24	
48.16	1/4/2019	6.03			42.13	
48.16	7/9/2019	4.34			43.82	
48.16	1/8/2020	3.09			45.07	
48.16	7/8/2020	6.09			42.07	
MW-63B	44.48	2/5/2009	31.54			12.94
	44.48	7/23/2009	9.52			34.96
	44.48	1/9/2010	1.34			43.14
	44.48	7/12/2010	5.71			38.77
	44.48	1/13/2011	7.13			37.35
	44.48	7/11/2011	4.21			40.27
	44.48	1/27/2012	2.96			41.52
	44.48	7/10/2012	1.32			43.16
	44.48	1/8/2013	8.54			35.94
	44.48	7/23/2013	9.43			35.05
	44.48	1/8/2014	7.72			36.76
	44.48	7/16/2014	7.03			37.45
	44.48	1/5/2015	7.09			37.39
	44.48	8/10/2015	5.34			39.14
	44.48	1/13/2016	4.69			39.79
	44.48	7/6/2016	5.01			39.47
	44.48	1/12/2017	5.84			38.64
	44.48	7/5/2017	6.19			38.29
	44.48	9/6/2017	6.12			38.36
	44.48	2/11/2018	5.31			39.17
44.48	3/11/2018	6.39			38.09	
44.48	5/14/2018	7.19			37.29	
44.48	1/4/2019	6.47			38.01	
44.48	7/9/2019	3.96			40.52	

Table 1
GROUNDWATER MEASUREMENTS
Houston, TX - Wood Preserving Works

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Depth to DNAPL (ft BTOC)	DNAPL Thickness (ft)	GW Elevation (ft)
MW-63B	44.48	1/7/2020	4.34			40.14
	44.48	7/7/2020	6.63			37.85
MW-64A	48.31	2/4/2009	9.02			39.29
	48.31	7/24/2009	9.13			39.18
	48.31	1/9/2010	6.52			41.79
	48.31	7/12/2010	6.82			41.49
	48.31	1/12/2011	4.77			43.54
	48.31	7/12/2011	8.17			40.14
	48.31	1/26/2012	4.81			43.5
	48.31	7/9/2012	5.93			42.38
	48.31	1/7/2013	7.03			41.28
	48.31	7/22/2013	8.79			39.52
	48.31	1/7/2014	8.39			39.92
	48.31	7/15/2014	7.72			40.59
	48.31	1/5/2015	7.79			40.52
	48.31	8/10/2015	5.71			42.60
	48.31	1/13/2016	5.06			43.25
	48.31	7/6/2016	5.67			42.64
	48.31	1/12/2017	6.07			42.24
	48.31	7/6/2017	6.27			42.04
	48.31	9/6/2017	6.16			42.15
	48.31	2/11/2018	5.46			42.85
	48.31	3/12/2018	5.83			42.48
48.31	5/14/2018	6.39			41.92	
48.31	1/4/2019	5.39			42.92	
44.55	7/9/2019	5.09			39.46	
44.55	1/8/2020	4.91			39.64	
44.55	7/8/2020	8.04			36.51	
MW-65D	44.55	2/5/2009	86.72			-42.17
	44.55	7/23/2009	86.47			-41.92
	44.55	1/9/2010	84.39			-39.84
	44.55	7/12/2010	84.39			-39.84
	44.55	1/12/2011	83.96			-39.41
	44.55	7/11/2011	85.81			-41.26
	44.55	1/27/2012	85.76			-41.21
	44.55	1/8/2013	85.81			-41.26
	44.55	7/23/2013	85.83			-41.28
	44.55	1/8/2014	85.78			-41.23
	44.55	7/16/2014	84.91			-40.36
	44.55	1/5/2015	85.31			-40.76
	44.55	8/10/2015	85.06			-40.51
	44.55	1/13/2016	84.81			-40.26
	44.55	7/6/2016	85.09			-40.54
	44.55	1/12/2017	85.52			-40.97
	44.55	7/5/2017	85.72			-41.17
	44.55	9/6/2017	85.7			-41.15
	44.55	2/11/2018	83.42			-38.87
	44.55	3/12/2018	83.28			-38.73
	44.55	5/14/2018	83.74			-39.19
44.55	1/4/2019	83.03			-38.48	
44.55	7/9/2019	82.71			-38.16	
44.55	1/8/2020	83.29			-38.74	
44.55	7/7/2020	82.49			-37.94	
MW-66D	46.51	2/5/2009	86.18			-39.67
	46.51	7/23/2009	85.82			-39.31
	46.51	1/9/2010	84.02			-37.51
	46.51	7/12/2010	84.86			-38.35
	46.51	1/12/2011	NM			NM
	46.51	7/11/2011	84.93			-38.42
	46.51	1/26/2012	84.88			-38.37
	46.51	7/9/2012	85.02			-38.51
	46.51	1/8/2013	86.09			-39.58
	46.51	7/23/2013	86.42			-39.91
	46.51	1/8/2014	86.09			-39.58
	46.51	7/16/2014	85.26			-38.75
	46.51	1/5/2015	85.42			-38.91
	46.51	8/10/2015	85.21			-38.70
	46.51	1/13/2016	84.71			-38.20
	46.51	7/6/2016	84.86			-38.35
	46.51	1/12/2017	85.26			-38.75
46.51	7/5/2017	85.66			-39.15	

Table 1
GROUNDWATER MEASUREMENTS
Houston, TX - Wood Preserving Works

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Depth to DNAPL (ft BTOC)	DNAPL Thickness (ft)	GW Elevation (ft)
MW-66D	46.51	9/6/2017	85.67			-39.16
	46.51	2/11/2018	83.28			-36.77
	46.51	3/12/2018	83.37			-36.86
	46.51	5/14/2018	84.06			-37.55
	46.51	1/4/2019	83.36			-36.85
	46.51	7/9/2019	82.99			-36.48
	46.51	1/8/2020	81.26			-34.75
	46.51	7/8/2020	81.62			-35.11
MW-67B	43.93	7/12/2010	5.76			38.17
	43.93	1/13/2011	10.62			33.31
	43.93	7/11/2011	17.64			26.29
	43.93	1/27/2012	9.87			34.06
	43.93	7/10/2012	11.19			32.74
	43.93	1/8/2013	11.72			32.21
	43.93	7/23/2013	10.69			33.24
	43.93	1/8/2014	10.64			33.29
	43.93	7/16/2014	11.22			32.71
	43.93	1/5/2015	10.22			33.71
	43.93	1/13/2016	6.17			37.76
	43.93	7/6/2016	6.39			37.54
	43.93	1/12/2017	7.04			36.89
	43.93	7/5/2017	7.14			36.79
	43.93	9/6/2017	6.97			36.96
	43.93	2/11/2018	8.89			35.04
	43.93	3/12/2018	9.13			34.80
	43.93	5/14/2018	10.16			33.77
	43.93	1/4/2019	9.42			34.51
	43.93	7/9/2019	9.09			34.84
43.93	1/7/2020	9.02			34.91	
43.93	7/7/2020	9.31			34.62	
MW-68A	43.24	5/29/2019	5.33			37.91
	43.24	7/9/2019	5.01			38.23
	43.24	1/7/2020	4.28			38.96
	43.24	7/7/2020	4.73			38.51
MW-68B	44.63	1/27/2012	1.16			43.47
	44.63	7/10/2012	3.82			40.81
	44.63	1/8/2013	6.76			37.87
	44.63	7/23/2013	10.33			34.3
	44.63	1/8/2014	5.82			38.81
	44.63	7/16/2014	7.41			37.22
	44.63	1/5/2015	4.32			40.31
	44.63	8/10/2015	3.56			41.07
	44.63	1/13/2016	2.86			41.77
	44.63	7/6/2016	3.07			41.56
	44.63	1/12/2017	3.86			40.77
	44.63	7/5/2017	3.97			40.66
	44.63	9/6/2017	3.84			40.79
	44.63	2/11/2018	3.07			41.56
	44.63	3/12/2018	4.24			40.39
	44.63	5/14/2018	6.46			38.17
	44.63	1/4/2019	5.82			38.81
44.63	7/9/2019	5.78			38.85	
44.63	1/7/2020	4.82	34.21	3.24	39.81	
44.63	7/7/2020	4.79	37.4	0.05	39.84	
MW-68C	44.80	7/12/2010	16.52			28.28
	44.80	1/13/2011	16.92			27.88
	44.80	7/11/2011	19.34			25.46
	44.80	1/27/2012	17.66			27.14
	44.80	7/10/2012	17.96			26.84
	44.80	1/8/2013	19.39			25.41
	44.80	7/23/2013	19.87			24.93
	44.80	1/8/2014	19.29			25.51
	44.80	7/16/2014	18.39			26.41
	44.80	1/5/2015	18.71			26.09
	44.80	8/10/2015	16.29			28.51
	44.80	1/13/2016	15.74			29.06
	44.80	7/6/2016	15.94			28.86
	44.80	1/12/2017	16.54			28.26
	44.80	7/5/2017	17.02			27.78
	44.80	9/6/2017	17.01			27.79
	44.80	2/11/2018	16.21			28.59

Table 1
GROUNDWATER MEASUREMENTS
Houston, TX - Wood Preserving Works

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Depth to DNAPL (ft BTOC)	DNAPL Thickness (ft)	GW Elevation (ft)
MW-68C	44.80	3/12/2018	16.88			27.92
	44.80	5/14/2018	17.35			27.45
	44.80	1/4/2019	16.74			28.06
	44.80	7/9/2019	16.39			28.41
	44.80	1/8/2020	16.54			28.26
	44.80	7/7/2020	16.94			27.86
MW-69A	45.71	7/12/2010	11.81			33.9
	45.71	1/12/2011	11.16			34.55
	45.71	7/11/2011	NM			
	45.71	1/26/2012	10.44			35.27
	45.71	7/9/2012	4.21			41.5
	45.71	1/8/2013	5.31			40.4
	45.71	7/23/2013	7.34			38.37
	45.71	1/8/2014	7.02			38.69
	45.71	7/16/2014	6.34			39.37
	45.71	1/5/2015	6.71			39.00
	45.71	8/10/2015	3.61			42.10
	45.71	1/13/2016	2.91			42.80
	45.71	7/6/2016	3.79			41.92
	45.71	1/12/2017	4.34			41.37
	45.71	7/5/2017	4.59			41.12
	45.71	9/6/2017	4.43			41.28
	45.71	2/11/2018	11.21			34.50
	45.71	3/11/2018	12.58			33.13
	45.71	5/14/2018	11.34			34.37
45.71	1/4/2019	10.61			35.1	
45.71	7/9/2019	9.71			36	
45.71	7/8/2020	11.26			34.45	
MW-70B	44.86	1/27/2012	6.51	34.26	1.21	38.35
	44.86	7/10/2012	6.06	34.17	1.30	38.8
	44.86	1/8/2013	6.67	34.02	1.68	38.19
	44.86	7/23/2013	8.22	34.07	1.63	36.64
	44.86	1/8/2014	7.89	35.51	0.14	36.97
	44.86	7/16/2014	6.16	34.71	0.94	38.70
	44.86	1/5/2015	7.07	35.26	0.39	37.79
	44.86	8/10/2015	5.26	35.49	0.16	39.60
	44.86	1/13/2016	4.96	35.39	0.26	39.90
	44.86	7/6/2016	5.34	35.31	0.34	39.52
	44.86	1/12/2017	6.17	35.09	0.56	38.69
	44.86	7/5/2017	6.39	35.14	0.51	38.47
	44.86	9/6/2017	6.56	35.34	0.31	38.30
	44.86	2/8/2018	6.42	35.31	0.34	38.44
	44.86	3/12/2018	6.69	35.21	0.44	38.17
	44.86	5/15/2018	7.52	35.39	0.26	37.34
	44.86	1/4/2019	6.96	35.31	0.34	37.9
44.86	7/9/2019	6.57	35.01	0.64	38.29	
44.86	7/7/2020	5.55	31.2	4.45	39.31	
MW-70C	45.07	3/12/2020	16.04			29.03
	45.07	7/7/2020	16.8			28.27
MW-71B	44.59	1/27/2012	7.08			37.51
	44.59	7/10/2012	8.16			36.43
	44.59	1/8/2013	4.09			40.5
	44.59	7/23/2013	8.61			35.98
	44.59	1/8/2014	16.36			28.23
	44.59	7/16/2014	16.02			28.57
	44.59	1/5/2015	15.83			28.76
	44.59	8/10/2015	13.76			30.83
	44.59	1/13/2016	13.09			31.50
	44.59	7/6/2016	13.31			31.28
	44.59	1/12/2017	13.94			30.65
	44.59	7/5/2017	14.34			30.25
	44.59	9/6/2017	14.21			30.38
	44.59	1/25/2018	0.76			43.83
	44.59	3/12/2018	1.61			42.98
	44.59	5/14/2018	2.26			42.33
	44.59	1/4/2019	1.58			43.01
44.59	7/9/2019	0.62			43.97	
44.59	1/8/2020	1.12			43.47	
44.59	7/7/2020	0.8			43.79	
MW-72B	51.97	1/26/2012	38.76			13.21
	51.97	7/9/2012	27.27			24.7

Table 1
GROUNDWATER MEASUREMENTS
Houston, TX - Wood Preserving Works

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Depth to DNAPL (ft BTOC)	DNAPL Thickness (ft)	GW Elevation (ft)
MW-72B	51.97	1/7/2013	20.08			31.89
	51.97	7/22/2013	18.39			33.58
	51.97	1/7/2014	17.31			34.66
	51.97	7/15/2014	16.91			35.06
	51.97	1/5/2015	16.74			35.23
	51.97	8/10/2015	14.59			37.38
	51.97	1/13/2016	13.93			38.04
	51.97	7/6/2016	NM			
	51.97	2/11/2018	12.26			39.71
	51.97	3/12/2018	19.71			32.26
	51.97	5/14/2018	20.92			31.05
	51.97	1/4/2019	20.13			31.84
	51.97	7/9/2019	15.28			36.69
	51.97	1/8/2020	14.81			37.16
51.97	7/7/2020	17.01			34.96	
MW-73B	51.42	1/26/2012	25.48			25.94
	51.42	7/9/2012	25.03			26.39
	51.42	1/7/2013	26.11			25.31
	51.42	7/22/2013	26.87			24.55
	51.42	1/7/2014	26.19			25.23
	51.42	7/15/2014	25.14			26.28
	51.42	1/5/2015	25.81			25.61
	51.42	8/10/2015	22.46			28.96
Plugged and Abandoned						
MW-74B	47.58	1/26/2012	7.63			39.95
	47.58	7/9/2012	7.15			40.43
	47.58	1/8/2013	9.62			37.96
	47.58	7/23/2013	11.72			35.86
	47.58	1/8/2014	9.59			37.99
	47.58	7/16/2014	9.01			38.57
	47.58	1/5/2015	9.07			38.51
	47.58	8/10/2015	7.36			40.22
	47.58	1/13/2016	6.86			40.72
	47.58	7/6/2016	7.39			40.19
	47.58	1/12/2017	7.84			39.74
	47.58	7/5/2017	8.17			39.41
	47.58	9/6/2017	8.02			39.56
	47.58	2/11/2018	6.91			40.67
	47.58	3/12/2018	7.22			40.36
	47.58	5/15/2018	8.33			39.25
	47.58	1/4/2019	7.62			39.96
	47.58	7/9/2019	8.59			38.99
47.58	1/8/2020	8.29			39.29	
47.58	7/8/2020	7.32			40.26	
MW-75B	46.78	1/26/2012	9.07	35.26	1.84	37.71
	46.78	7/9/2012	9.32	35.2	1.90	37.46
	46.78	1/8/2013	10.16	34.13	2.97	36.62
	46.78	7/23/2013	9.74	35.71	1.39	37.04
	46.78	1/8/2014	10.13	36.72	0.43	36.65
	46.78	7/16/2014	11.41	35.71	1.44	35.37
	46.78	1/5/2015	11.33	36.79	0.36	35.45
	46.78	8/10/2015	8.86	37.07	0.08	37.92
	46.78	1/13/2016	7.81	36.84	0.31	38.97
	46.78	7/6/2016	7.8	36.53	0.62	38.98
	46.78	1/12/2017	8.04	36.36	0.79	38.74
	46.78	7/5/2017	8.04	36.36	0.79	38.74
	46.78	9/6/2017	8.22	36.47	3.15	38.56
	46.78	2/8/2018	8.17	36.91	2.71	38.61
	46.78	3/12/2018	8.37	36.94	2.68	38.41
	46.78	5/15/2018	9.22	37.03	2.59	37.56
	46.78	1/4/2019	9.28	36.96	2.66	37.5
	46.78	7/9/2019	8.89			37.89
46.78	1/8/2020	8.52	33.52	3.73	38.26	
46.78	7/8/2020	8.91			37.87	
MW-76B	47.98	3/12/2020	5.40			42.58
	47.98	5/26/2020	4.94			43.04
	47.98	7/8/2020	6.09			41.89
MW-76C	47.84	7/16/2014	22.68			25.16
	47.84	1/5/2015	23.41			24.43
	47.84	8/10/2015	21.19			26.65
	47.84	1/13/2016	20.81			27.03
	47.84	7/6/2016	21.09			26.75

**Table 1
GROUNDWATER MEASUREMENTS
Houston, TX - Wood Preserving Works**

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Depth to DNAPL (ft BTOC)	DNAPL Thickness (ft)	GW Elevation (ft)
MW-76C	47.84	1/12/2017	21.67			26.17
	47.84	7/5/2017	21.99			25.85
	47.84	9/6/2017	21.93			25.91
	47.84	2/11/2018	20.74			27.10
	47.84	3/12/2018	21.02			26.82
	47.84	5/15/2018	21.46			26.38
	47.84	1/4/2019	20.67			27.17
	47.84	7/9/2019	20.18			27.66
	47.84	1/7/2020	20.68			27.16
	47.84	7/8/2020	19.81			28.03
MW-77A	49.05	7/16/2014	6.62			42.43
	49.05	1/5/2015	6.27			42.78
	49.05	8/10/2015	4.34			44.71
	49.05	1/13/2016	3.96			45.09
	49.05	7/6/2016	4.29			44.76
	49.05	1/12/2017	4.73			44.32
	49.05	7/5/2017	4.91			44.14
	49.05	9/6/2017	4.78			44.27
	49.05	2/11/2018	7.62			41.43
	49.05	3/12/2018	8.09			40.96
	49.05	5/15/2018	7.06			41.99
	49.05	1/4/2019	6.34			42.71
	49.05	7/9/2019	6.11			42.94
	49.05	1/7/2020	6.81			42.24
	49.05	7/8/2020	6.54			42.51
MW-78A	48.68	7/16/2014	8.02	28.72	-3.37	40.66
	48.68	1/5/2015	9.17	21.17	4.18	39.51
	48.68	8/10/2015	7.34	23.71	1.64	41.34
	48.68	1/13/2016	6.63	21.77	3.58	42.05
	48.68	7/6/2016	6.71	21.97	3.38	41.97
	48.68	1/12/2017	7.42	22.74	2.61	41.26
	48.68	7/5/2017	7.79	23.59	1.76	40.89
	48.68	9/6/2017	7.81	23.48	1.87	40.87
	48.68	2/11/2018	8.29	23.97	1.38	40.39
	48.68	3/12/2018	8.46	23.91	1.44	40.22
	48.68	5/15/2018	9.28	24.07	1.28	39.4
	48.68	1/4/2019	8.78	24.39	0.96	39.9
	48.68	7/9/2019	9.17	24.67	0.68	39.51
	48.68	1/8/2020	7.96	24.9	0.45	40.72
	48.68	7/8/2020	8.41	19.7	5.65	40.27
MW-79A	48.95	7/16/2014	7.26			41.69
	48.95	1/5/2015	5.29			43.66
	48.95	8/10/2015	3.71			45.24
	48.95	1/13/2016	3.06			45.89
	48.95	7/6/2016	3.76			45.19
	48.95	1/12/2017	4.06			44.89
	48.95	7/5/2017	4.31			44.64
	48.95	9/6/2017	4.16			44.79
	48.95	2/11/2018	10.82			38.13
	48.95	3/12/2018	11.26			37.69
	48.95	5/15/2018	9.46			39.49
	48.95	1/4/2019	8.8			40.15
	48.95	7/9/2019	9.68			39.27
	48.95	1/8/2020	9.81			39.14
	48.95	7/8/2020	8.99			39.96
MW-80B	47.11	7/16/2014	5.29			41.82
	47.11	1/5/2015	6.17			40.94
	47.11	8/10/2015	4.33			42.78
	47.11	1/13/2016	3.96			43.15
	47.11	7/6/2016	4.56			42.55
	47.11	1/12/2017	5.06			42.05
	47.11	7/5/2017	5.34			41.77
	47.11	9/6/2017	5.26			41.85
	47.11	2/11/2018	11.34			35.77
	47.11	3/11/2018	11.77			35.34
	47.11	5/15/2018	11.36			35.75
	47.11	1/4/2019	10.71			36.4
	47.11	7/9/2019	11.02			36.09
	47.11	1/7/2020	10.87			36.24
	47.11	7/8/2020	10.25			36.86
MW-81B	46.77	7/16/2014	6.47			40.30

**Table 1
GROUNDWATER MEASUREMENTS
Houston, TX - Wood Preserving Works**

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Depth to DNAPL (ft BTOC)	DNAPL Thickness (ft)	GW Elevation (ft)
MW-81B	46.77	1/5/2015	7.06			39.71
	46.77	8/10/2015	5.22			41.55
	46.77	1/13/2016	4.77			42.00
	46.77	7/6/2016	5.16			41.61
	46.77	1/12/2017	5.72			41.05
	46.77	7/5/2017	5.96			40.81
	46.77	9/6/2017	5.71			41.06
	46.77	2/11/2018	7.04			39.73
	46.77	3/11/2018	7.51			39.26
	46.77	5/15/2018	8.23			38.54
	46.77	1/4/2019	7.67			39.1
	46.77	7/9/2019	7.91			38.86
	46.77	1/7/2020	7.12			39.65
	46.77	7/8/2020	6.31			40.46
MW-82B	44.64	2/11/2018	2.53			42.11
	44.64	3/11/2018	3.44			41.20
	44.64	5/14/2018	5.61			39.03
	44.64	1/4/2019	4.83			39.81
	44.64	7/9/2019	4.03			40.61
	44.64	1/8/2020	2.67			41.97
	44.64	7/7/2020	3.55			41.09
MW-83B	45.33	2/11/2018	4.06			41.27
	45.33	3/11/2018	4.69			40.64
	45.33	5/14/2018	7.47			37.86
	45.33	7/19/2018	5.87			39.46
	45.33	1/4/2019	6.82			38.51
	45.33	7/9/2019	6.11			39.22
	45.33	1/8/2020	5.33			40
	45.33	7/7/2020	5.04			40.29
MW-83C	45.42	2/11/2018	17.52			27.90
	45.42	3/11/2018	16.96			28.46
	45.42	5/14/2018	18.11			27.31
	45.42	1/4/2019	17.42			28.00
	45.42	7/9/2019	17.17			28.25
	45.42	1/8/2020	17.74			27.68
	45.42	7/7/2020	15.58			29.84
MW-84A	44.67	3/12/2020	4.19			40.48
	44.67	5/21/2020	5.83			38.84
	44.67	7/7/2020	4.71			39.96
MW-84B	44.50	2/11/2018	4.37			40.13
	44.50	3/11/2018	4.93			39.57
	44.50	5/14/2018	7.36			37.14
	44.50	7/19/2018	6.07			38.43
	44.50	1/4/2019	6.71			37.79
	44.50	7/9/2019	7.09			37.41
	44.50	1/7/2020	4.38			40.12
	44.50	7/7/2020	5.23			39.27
MW-85C	49.10	2/11/2018	22.51			26.59
	49.10	3/11/2018	22.77			26.33
	49.10	5/15/2018	22.61			26.49
	49.10	1/4/2019	21.92			27.18
	49.10	7/9/2019	21.78			27.32
	49.10	1/7/2020	22.70			26.4
	49.10	7/8/2020	22.31			26.79
MW-86C	46.61	2/11/2018	20.14			26.47
	46.61	3/11/2018	19.91			26.70
	46.61	5/15/2018	20.26			26.35
	46.61	1/4/2019	19.51			27.10
	46.61	7/9/2019	19.73			26.88
	46.61	1/8/2020	21.09			25.52
	46.61	7/8/2020	19.79			26.82
MW-87C	44.26	2/11/2018	15.86			28.40
	44.26	3/11/2018	16.29			27.97
	44.26	5/14/2018	16.26			28.00
	44.26	1/4/2019	15.52			28.74
MW-87C	44.26	7/9/2019	15.83			28.43
	44.26	1/8/2020	15.79			28.47
	44.26	7/7/2020	16			28.26
MW-88A	51.49	3/17/2020	8.00			43.49
	51.49	5/20/2020	8.59			42.9
	51.49	7/8/2020	7.39			44.10

**Table 1
GROUNDWATER MEASUREMENTS
Houston, TX - Wood Preserving Works**

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Depth to DNAPL (ft BTOC)	DNAPL Thickness (ft)	GW Elevation (ft)
MW-88B	51.57	3/17/2020	7.82			43.75
	51.57	5/20/2020	8.55			43.02
	51.57	7/8/2020	7.46			44.11
MW-88C	51.17	2/11/2018	24.7			26.47
	51.17	3/11/2018	23.93			27.24
	51.17	5/14/2018	24.67			26.50
	51.17	1/4/2019	24.01			27.16
	51.17	7/9/2019	24.13			27.04
	51.17	1/7/2020	24.64			26.53
MW-89B	44.57	7/19/2018	6.78			37.79
	44.57	1/4/2019	8.21			36.36
	44.57	7/9/2019	7.74			36.83
	44.57	1/7/2020	6.24			38.33
	44.57	7/7/2020	6.89			37.68
MW-90B	44.39	7/19/2018	5.63			38.76
	44.39	1/4/2019	7.16			37.23
	44.39	7/9/2019	4.13			40.26
	44.39	1/7/2020	0.86			43.53
	44.39	7/7/2020	4.89			39.5
MW-91A	44.02	3/12/2020	5.21			38.81
	44.02	7/7/2020	6.01			38.01
MW-92B	44.91	3/12/2020	4.19			40.72
	44.91	5/22/2020				44.91
	44.91	7/7/2020	5.68			39.23
MW-93B	45.05	3/12/2020	4.06			40.99
	45.05	5/22/2020	5.91			39.14
	45.05	7/7/2020	5.44			39.61
MW-94A	45.21	3/12/2020	3.99			41.22
	45.21	5/22/2020	4.82			40.39
	45.21	7/7/2020	2.13			43.08
MW-95A	46.19	3/17/2020	3.88			42.31
	46.19	5/22/2020	4.84			41.35
	46.19	7/7/2020	3.91			42.28
MW-96B	47.02	3/17/2020	4.28			42.74
	47.02	5/22/2020	5.54			41.48
	47.02	7/7/2020	4.89			42.13
MW-97A	47.77	3/12/2020	5.20			42.57
	47.77	5/22/2020	5.52			42.25
	47.77	7/8/2020	5.72			42.05
MW-98A	48.35	3/12/2020	7.19			41.16
	48.35	5/22/2020	7.41			40.94
	48.35	7/8/2020	7.08			41.27
MW-98B	48.59	3/12/2020	8.30			40.29
	48.59	5/22/2020	7.72			40.87
	48.59	7/8/2020	7.81			40.78
MW-99C	45.33	3/11/2020	14.99			30.34
	45.33	5/22/2020	16.09			29.24
	45.33	7/7/2020	16.01			29.32
P-10	47.69	9/2/1993	6.87			40.85
	47.69	12/21/1993	3.32			44.4
	47.69	3/24/1994	3.88			43.84
	47.69	6/22/1994	4.98			42.74
	47.69	9/28/1994	6.38			41.34
	47.69	10/13/1994	7.07			40.65
	47.69	1/24/1995	2.67			45.05
	47.69	4/11/1995	2.59			45.13
	47.69	7/11/1995	4.69			43.03
	47.69	1/23/1996	5.84			41.88
	47.69	7/19/1996	10.04			37.68
	47.69	9/17/1996	8.34			39.38
	47.69	10/31/1996	6.97			40.75
	47.69	11/22/1996	8.84			38.88
	47.69	12/27/1996	6.20			41.52
	47.69	1/22/1997	4.10			43.62
	47.69	2/21/1997	2.86			44.86
	47.69	3/25/1997	3.19			44.53
	47.69	4/23/1997	4.42			43.3
	47.69	4/24/1997	4.57			43.15
47.69	5/13/1997	3.14			44.58	
47.69	6/20/1997	4.94			42.78	

Table 1
GROUNDWATER MEASUREMENTS
Houston, TX - Wood Preserving Works

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Depth to DNAPL (ft BTOC)	DNAPL Thickness (ft)	GW Elevation (ft)
P-10	47.69	6/25/1997	2.74			44.98
	47.69	7/1/1997	4.13			43.59
	47.69	7/24/1997	7.91			39.81
	47.69	8/16/1997	7.86			39.86
	47.69	8/22/1997	8.67			39.05
	47.69	9/25/1997	6.54			41.18
	47.69	10/22/1997	5.36			42.36
	47.69	11/25/1997	5.36			42.36
	47.69	12/19/1997	4.72			43
	47.69	1/20/1998	3.40			44.32
	47.69	1/29/1998	3.11			44.61
	47.69	3/18/1998	2.84			44.88
	47.69	4/24/1998	6.80			40.92
	47.69	5/21/1998	7.35			40.37
	47.69	7/30/1998	8.23			39.49
	47.69	8/25/1998	7.34			40.38
	47.69	9/21/1998	5.25			42.47
	47.69	10/26/1998	6.11			41.61
	47.69	11/23/1998	4.10			43.62
	47.69	2/26/1999	3.21			44.51
	47.69	3/16/1999	4.21			43.51
	47.69	4/29/1999	4.53			43.19
	47.69	6/1/1999	4.53			43.19
	47.69	7/30/1999	6.00			41.72
	47.69	8/27/1999	4.72			43
	47.69	9/27/1999	9.58			38.14
	47.69	10/29/1999	10.61			37.11
	47.69	12/29/1999	11.55			36.17
	47.69	2/4/2000	13.71			34.01
	47.69	2/25/2000	10.44			37.28
	47.69	3/27/2000	7.53			40.19
	47.69	4/7/2000	7.09			40.63
	47.69	5/31/2000	7.14			40.58
	47.69	6/1/2000	7.11			40.61
	47.69	7/28/2000	7.15			40.57
	47.69	8/30/2000	10.15			37.57
	47.69	9/19/2000	11.56			36.16
	47.69	10/27/2000	8.66			39.06
	47.69	11/21/2000	9.64			38.08
	47.69	5/1/2001	6.52			41.2
	47.69	10/1/2001	6.85			40.87
	47.69	3/11/2002	3.41			44.31
	47.69	9/23/2002	3.54			44.18
	47.69	3/10/2003	2.43			45.26
	47.69	9/23/2003	1.61			46.08
	47.69	3/15/2004	2.85			44.84
	47.69	9/13/2004	7.99			39.7
	47.69	7/18/2005	4.20			43.49
	47.69	1/4/2006	8.58			39.11
	47.69	7/27/2006	3.46			44.23
	47.69	1/23/2007	2.36			45.33
	47.69	3/7/2007	NM			NM
	47.69	7/27/2007	3.75			43.94
47.69	1/29/2008	2.30			45.39	
47.69	7/16/2008	6.91			40.78	
47.69	1/22/2009	6.35			41.34	
47.69	7/23/2009	NM			NM	
47.69	1/8/2010	4.06			43.63	
47.69	7/12/2010	2.06			45.63	
47.73	1/12/2011	4.13			43.60	
47.73	7/12/2011	9.84			37.89	
47.73	1/27/2012	3.12			44.61	
47.73	7/10/2013	10.79			36.94	
47.73	1/8/2014	5.51			42.22	
47.73	7/2/2014	7.74			39.99	
47.73	1/7/2015	3.96			43.77	
47.73	8/10/2015	5.39			42.34	
47.71	1/12/2016	2.47			45.24	
47.71	7/6/2016	5.18			42.53	
47.71	1/12/2017	4.52			43.19	
47.71	7/12/2017	6.07			41.64	

Table 1
GROUNDWATER MEASUREMENTS
Houston, TX - Wood Preserving Works

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Depth to DNAPL (ft BTOC)	DNAPL Thickness (ft)	GW Elevation (ft)
P-10	47.71	1/3/2018	6.71			41.00
	47.71	7/19/2018	5.77			41.94
	47.71	1/3/2019	6.32			41.39
	47.71	7/1/2019	3.12			44.59
	47.71	1/13/2020	3.18			44.53
	47.71	7/8/2020	5.38			42.33
P-11	48.98	9/2/1993	7.87			41.15
	48.98	12/21/1993	4.57			44.45
	48.98	3/24/1994	5.04			43.98
	48.98	6/22/1994	6.19			42.83
	48.98	9/28/1994	7.40			41.62
	48.98	10/13/1994	8.14			40.88
	48.98	1/24/1995	3.90			45.12
	48.98	4/11/1995	3.77			45.25
	48.98	7/11/1995	5.69			43.33
	48.98	1/23/1996	6.81			42.21
	48.98	7/19/1996	7.81			41.21
	48.98	9/17/1996	9.15			39.87
	48.98	10/31/1996	7.52			41.5
	48.98	11/22/1996	9.46			39.56
	48.98	12/27/1996	6.64			42.38
	48.98	1/22/1997	4.70			44.32
	48.98	2/21/1997	3.88			45.14
	48.98	3/25/1997	4.09			44.93
	48.98	4/23/1997	5.27			43.75
	48.98	4/24/1997	5.41			43.61
	48.98	5/13/1997	4.12			44.9
	48.98	6/20/1997	5.79			43.23
	48.98	6/25/1997	3.83			45.19
	48.98	7/1/1997	5.01			44.01
	48.98	7/24/1997	7.56			41.46
	48.98	8/16/1997	8.74			40.28
	48.98	8/22/1997	9.37			39.65
	48.98	9/25/1997	7.24			41.78
	48.98	10/22/1997	5.98			43.04
	48.98	11/25/1997	6.00			43.02
	48.98	12/19/1997	5.52			43.5
	48.98	1/20/1998	4.30			44.72
	48.98	3/4/1998	4.08			44.94
	48.98	3/18/1998	3.92			45.1
	48.98	4/24/1998	7.61			41.41
	48.98	5/21/1998	8.10			40.92
	48.98	7/30/1998	9.21			39.81
	48.98	8/25/1998	8.44			40.58
	48.98	9/21/1998	5.91			43.11
	48.98	10/26/1998	7.59			41.43
	48.98	11/23/1998	5.41			43.61
	48.98	1/29/1999	4.11			44.91
	48.98	2/26/1999	4.22			44.8
	48.98	3/16/1999	4.96			44.06
	48.98	4/29/1999	5.15			43.87
	48.98	6/1/1999	5.15			43.87
	48.98	7/30/1999	6.66			42.36
	48.98	8/27/1999	5.23			43.79
48.98	9/27/1999	10.49			38.53	
48.98	10/29/1999	11.91			37.11	
48.98	12/29/1999	11.12			37.9	
48.98	2/4/2000	12.13			36.89	
48.98	2/25/2000	10.46			38.56	
48.98	3/27/2000	8.32			40.7	
48.98	4/7/2000	7.91			41.11	
48.98	5/31/2000	7.96			41.06	
48.98	6/1/2000	7.93			41.09	
48.98	7/28/2000	7.97			41.05	
48.98	8/30/2000	10.88			38.14	
48.98	9/19/2000	12.32			36.7	
48.98	10/27/2000	10.94			38.08	
48.98	11/21/2000	9.77			39.25	
48.98	5/1/2001	7.48			41.54	
48.98	10/1/2001	7.74			41.28	
48.98	3/11/2002	4.51			44.51	

Table 1
GROUNDWATER MEASUREMENTS
Houston, TX - Wood Preserving Works

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Depth to DNAPL (ft BTOC)	DNAPL Thickness (ft)	GW Elevation (ft)
P-11	48.98	9/23/2002	4.46			44.56
	48.98	3/10/2003	3.69			45.29
	48.98	9/23/2003	4.54			44.44
	48.98	3/15/2004	4.51			44.47
	48.98	9/13/2004	9.14			39.84
	48.98	7/18/2005	5.27			43.71
	48.98	1/4/2006	9.56			39.42
	48.98	7/27/2006	4.54			44.44
	48.98	3/7/2007	NM			NM
	48.98	7/27/2007	4.61			44.37
	48.98	1/30/2008	2.71			46.27
	48.98	7/15/2008	7.93			41.05
	48.98	2/4/2009	7.82			41.16
	48.98	7/24/2009	7.74			41.24
	48.98	1/8/2010	5.67			43.31
	48.98	7/12/2010	6.78			42.2
	48.98	1/12/2011	4.21			44.77
	48.98	7/12/2011	11.51			37.47
	48.98	1/26/2012	4.25			44.73
	48.98	1/7/2013	7.96			41.02
	48.98	7/22/2013	10.96			38.02
	48.98	1/7/2014	6.52			42.46
	48.98	7/16/2014	8.87			40.11
	48.98	1/5/2015	5.61			43.37
	48.98	8/10/2015	3.86			45.12
	48.98	1/13/2016	3.26			45.72
	48.98	7/6/2016	3.74			45.24
	48.98	1/12/2017	4.36			44.62
	48.98	7/6/2017	4.62			44.36
	48.98	9/6/2017	4.62			44.36
	48.98	2/11/2018	5.09			43.89
	48.98	3/11/2018	5.54			43.44
48.98	5/14/2018	7.14			41.84	
48.98	7/2/2018	7.28			41.7	
48.98	1/4/2019	6.43			42.55	
48.98	7/9/2019	5.31			43.67	
48.98	1/7/2020	4.26			44.72	
48.98	7/8/2020	6.31			42.67	
P-12	48.78	9/2/1993	7.02			41.8
	48.78	12/21/1993	4.30			44.52
	48.78	3/24/1994	4.45			44.37
	48.78	6/22/1994	5.06			43.76
	48.78	9/28/1994	6.46			42.36
	48.78	10/13/1994	7.19			41.63
	48.78	1/24/1995	3.63			45.19
	48.78	4/11/1995	3.25			45.57
	48.78	7/11/1995	4.62			44.2
	48.78	1/23/1996	6.62			42.2
	48.78	7/19/1996	8.64			40.18
	48.78	9/17/1996	8.12			40.7
	48.78	10/31/1996	6.81			42.01
	48.78	11/22/1996	8.70			40.12
	48.78	12/27/1996	6.57			42.25
	48.78	1/22/1997	4.93			43.89
	48.78	2/21/1997	3.61			45.21
	48.78	3/25/1997	3.70			45.12
	48.78	4/23/1997	4.58			44.24
	48.78	4/24/1997	4.74			44.08
	48.78	5/13/1997	3.69			45.13
	48.78	6/20/1997	4.86			43.96
	48.78	6/25/1997	3.35			45.47
	48.78	7/1/1997	4.11			44.71
	48.78	7/24/1997	6.58			42.24
	48.78	8/16/1997	7.80			41.02
	48.78	8/22/1997	8.22			40.6
	48.78	9/25/1997	6.54			42.28
	48.78	10/22/1997	5.66			43.16
	48.78	11/25/1997	5.70			43.12
	48.78	12/19/1997	5.13			43.69
	48.78	1/20/1998	4.15			44.67
48.78	3/4/1998	3.78			45.04	

Table 1
GROUNDWATER MEASUREMENTS
Houston, TX - Wood Preserving Works

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Depth to DNAPL (ft BTOC)	DNAPL Thickness (ft)	GW Elevation (ft)
P-12	48.78	3/18/1998	3.61			45.21
	48.78	4/24/1998	6.90			41.92
	48.78	5/21/1998	7.80			41.02
	48.78	7/30/1998	8.15			40.67
	48.78	8/25/1998	8.31			40.51
	48.78	9/21/1998	5.64			43.18
	48.78	10/26/1998	7.66			41.16
	48.78	11/23/1998	5.65			43.17
	48.78	1/29/1999	4.20			44.62
	48.78	2/26/1999	4.31			44.51
	48.78	3/16/1999	4.99			43.83
	48.78	4/29/1999	5.10			43.72
	48.78	6/1/1999	5.10			43.72
	48.78	7/30/1999	6.75			42.07
	48.78	8/27/1999	5.34			43.48
	48.78	9/27/1999	9.36			39.46
	48.78	10/29/1999	10.11			38.71
	48.78	12/29/1999	9.44			39.38
	48.78	2/4/2000	12.10			36.72
	48.78	2/25/2000	8.63			40.19
	48.78	3/27/2000	7.76			41.06
	48.78	4/7/2000	7.35			41.47
	48.78	5/31/2000	7.39			41.43
	48.78	6/1/2000	7.34			41.48
	48.78	7/28/2000	7.37			41.45
	48.78	8/30/2000	10.66			38.16
	48.78	9/19/2000	11.45			37.37
	48.78	10/27/2000	10.94			37.88
	48.78	11/21/2000	8.93			39.89
	48.78	5/1/2001	6.70			42.12
	48.78	10/1/2001	6.93			41.89
	48.78	3/11/2002	4.15			44.67
	48.78	9/23/2002	3.90			44.92
	48.78	3/10/2003	3.13			45.65
	48.78	9/23/2003	3.86			44.92
	48.78	3/15/2004	NM			NM
	48.78	9/13/2004	7.93			40.85
	48.78	7/18/2005	5.06			43.72
	48.78	1/4/2006	8.98			39.8
	48.78	7/27/2006	4.35			44.43
	48.78	1/22/2007	3.19			45.59
	48.78	3/7/2007	NM			NM
	48.78	7/27/2007	4.22			44.56
	48.78	1/29/2008	3.03			45.75
	48.78	7/16/2008	6.78			42
	48.78	1/22/2009	6.99			41.79
	48.78	7/24/2009	NM			NM
	48.78	1/8/2010	4.13			44.65
48.78	7/12/2010	3.93			44.85	
48.80	1/12/2011	4.83			43.97	
48.80	7/12/2011	10.02			38.78	
48.80	1/27/2012	4.52			44.28	
48.80	7/9/2012	5.15			43.65	
48.80	7/10/2013	9.73			39.07	
48.80	1/8/2014	6.41			42.39	
48.80	7/2/2014	6.46			42.34	
48.80	1/7/2015	3.19			45.61	
48.80	8/10/2015	4.06			44.74	
48.76	1/12/2016	3.26			45.50	
48.76	7/6/2016	5.09			43.67	
48.76	1/12/2017	5.11			43.65	
48.76	7/12/2017	6.39			42.37	
48.76	1/3/2018	7.14			41.62	
48.76	7/19/2018	6.31			42.45	
48.76	1/3/2019	6.69			42.07	
48.76	7/1/2019	3.06			45.70	
48.76	1/14/2020	3.96			44.80	
48.76	7/8/2020	5.31			43.45	
TW-41B	49.67	2/4/2009	8.44			41.23
	49.67	7/24/2009	8.34			41.33
	49.67	1/8/2010	4.86			44.81

**Table 1
GROUNDWATER MEASUREMENTS
Houston, TX - Wood Preserving Works**

Well ID	TOC Elevation (ft)	Date	Depth to Water (ft)	Depth to DNAPL (ft BTOC)	DNAPL Thickness (ft)	GW Elevation (ft)
TW-41B	49.67	7/12/2010	6.12			43.55
	49.67	1/12/2011	5.17			44.5
	49.67	7/12/2011	12.02			37.65
	49.67	1/26/2012	5.27			44.4
	49.67	7/9/2012	6.23			43.44
	49.67	1/7/2013	8.54			41.13
	49.67	7/22/2013	11.53			38.14
	49.67	1/7/2014	7.32			42.35
	49.67	7/16/2014	9.65			40.02
	49.67	1/5/2015	NM			
	49.67	8/10/2015	4.96			44.71
	49.67	1/13/2016	4.13			45.54
	49.67	7/6/2016	4.31			45.36
	49.67	1/12/2017	4.93			44.74
	49.67	7/6/2017	5.32			44.35
	49.67	9/6/2017	5.26			44.41
	49.67	2/11/2018	5.86			43.81
	49.67	3/11/2018	6.69			42.98
	49.67	5/14/2018	8.67			41.00
	49.67	7/2/2018	8.87			40.8
49.67	1/4/2019	7.97			41.7	
49.67	7/9/2019	8.22			41.45	
49.67	1/7/2020	5.52			44.15	
49.67	7/8/2020	7.25			42.42	
TW-55A	49.67	7/9/2012	13.44			36.23
TW-56A	51.89	2/5/2009	17.48			34.41
	51.89	7/23/2009	17.17			34.72
	51.89	1/8/2010	14.53			37.36
	51.89	7/12/2010	15.78			36.11
	51.89	1/12/2011	14.09			37.8
	51.89	7/12/2011	17.89			34
	51.89	1/26/2012	15.06			36.83
	51.89	1/7/2013	16.92			34.97
	51.89	7/22/2013	18.12			33.77
	51.89	1/7/2014	NM			NM
	51.89	7/15/2014	16.05			35.84
	51.89	1/5/2015	NM			NM
	51.89	8/10/2015	6.39			45.50

Notes:

1. The surface completion for MW-23C was repaired and resurveyed in January/February 2009.
2. NM = Not Measured
3. BP - Below pump; depth to DNAPL not measured because it is below top of in-well pump.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-01A 01/28/2008	MW-01A 01/28/2008 Duplicate	MW-01A 07/16/2008	MW-01A 07/16/2008 Duplicate	MW-01A 01/22/2009	MW-01A 01/22/2009 Duplicate	MW-01A 07/22/2009	MW-01A 07/22/2009 Duplicate	MW-01A 01/22/2010	MW-01A 01/22/2010 Duplicate	MW-01A 07/14/2010	MW-01A 07/14/2010 Duplicate	MW-01A 01/11/2011
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005			<0.00052	<0.00052									
Benzene	0.005	0.005			<0.00025	<0.00025									
Chlorobenzene	0.1	0.1			<0.00047	<0.00047									
Ethylbenzene	0.7	0.7			<0.00025	<0.00025									
Methylene chloride	0.005	0.005			<0.00054	<0.00054									
Toluene	1	1			<0.00041	<0.00041									
Vinyl chloride	0.002	0.002													
Xylenes (total)	10	10			<0.00127	<0.00127									
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026													
2,4-Dimethylphenol	0.49	1.5													
2,4-Dinitrotoluene	0.0013	0.003													
2,6-Dinitrotoluene	0.0013	0.003													
2-Chloronaphthalene	2	5.8													
2-Methylnaphthalene	0.098	0.29	<0.00044	0.000563	0.0109	0.00224	0.0069	0.0016 J	0.0017 J	0.0019 J	0.0019 J	0.0018 J	<0.0009	0.0026 J	<0.0009
4,6-Dinitro-2-methylphenol	0.0024	0.0073													
4-Nitrophenol	0.049	0.15													
Acenaphthene	1.5	4.4	0.0415	0.0409	0.126	0.119	0.054	0.038	0.085	0.091	0.04	0.039	0.068	0.075	0.07
Acenaphthylene	1.5	4.4	0.00099	0.000933	0.00143	0.00135	<0.0007	<0.0007	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0011 J
Anthracene	7.3	22	0.00129	0.00137	0.00267	0.00232	0.0012 J	<0.0007	0.0011 J	0.0014 J	<0.0006	<0.0006	0.0017 J	0.0022 J	0.0021 J
Benzo(a)anthracene	0.0091	0.02													
Benzo(a)pyrene	0.0002	0.0002													
bis(2-Chloroethoxy)methane	0.00083	0.0019													
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	<0.00022	0.0008 J	0.00137 J	0.00126 J	<0.0012	0.0015 J	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033	<0.0033
Chrysene	0.91	2													
Dibenzofuran	0.098	0.29	0.00129	0.00211	0.00774	0.00163	0.0058	0.0018 J	<0.0007	<0.0007	0.0016 J	0.0014 J	0.0044 J	0.0067	<0.0007
Di-n-butylphthalate (DBP)	2.4	7.3													
Fluoranthene	0.98	2.9	0.00234	0.00233	0.00923	0.00836	0.0024 J	0.0013 J	0.0037 J	0.0039 J	0.0017 J	0.0015 J	0.004 J	0.0049 J	0.0025 J
Fluorene	0.98	2.9	0.0162	0.0167	0.0659	0.0551	0.028	0.018	0.04	0.041	0.022	0.019	0.04	0.047	0.039
Naphthalene	0.49	1.5	<0.00044	<0.00038	0.0168	0.00312	<0.0008	<0.0008	0.0029 J	0.0031 J	0.0043 J	0.0036 J	<0.0006	<0.0006	<0.0006
Nitrobenzene	0.049	0.15													
N-Nitrosodiphenylamine	0.19	0.42													
Pentachlorophenol	0.001	0.001													
Phenanthrene	0.73	2.2	<0.00022	0.00035 J	0.00177	0.000783	0.001 J	<0.0007	<0.0005	<0.0005	<0.0005	<0.0005	0.0011 J	0.0025 J	<0.0005
Phenol	7.3	22													
Pyrene	0.73	2.2	0.00107	0.00108	0.00417	0.00375	0.001 J	<0.0009	0.0019 J	0.0021 J	<0.0005	<0.0005	0.0021 J	0.0026 J	0.0011 J
Metals															
Arsenic	0.01	0.01													

Notes:

- All values in milligrams per liter (mg/L).
- Concentrations > RAL and non-detects are highlighted light gray.
- Concentrations > C/I AL and non-detects are highlighted dark gray
- TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
- RAL = Residential Assessment Level, C/I = Commercial/Industrial
- J = Estimated value, < = not detected at the specified detection limit.
- MW-32A was screened in the B-CZ & replaced with MW-32AR
- Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-01A 07/13/2011	MW-01A 07/13/2011 Duplicate	MW-01A 01/31/2012	MW-01A 01/31/2012 Duplicate	MW-01A 07/11/2012	MW-01A 07/11/2012 Duplicate	MW-01A 01/09/2013	MW-01A 01/09/2013 Duplicate	MW-01A 07/11/2013	MW-01A 07/11/2013 Duplicate	MW-01A 01/08/2014	MW-01A 01/08/2014 Duplicate	MW-01A 07/02/2014
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005													
Benzene	0.005	0.005													
Chlorobenzene	0.1	0.1													
Ethylbenzene	0.7	0.7													
Methylene chloride	0.005	0.005													
Toluene	1	1													
Vinyl chloride	0.002	0.002													
Xylenes (total)	10	10													
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026													
2,4-Dimethylphenol	0.49	1.5													
2,4-Dinitrotoluene	0.0013	0.003													
2,6-Dinitrotoluene	0.0013	0.003													
2-Chloronaphthalene	2	5.8													
2-Methylnaphthalene	0.098	0.29	0.0068	0.0021 J	<0.0005	<0.0005	0.012	0.011	0.00125	0.00128	0.00193 J	0.0386 J	0.00222 J	0.0152 J	0.00865 J
4,6-Dinitro-2-methylphenol	0.0024	0.0073													
4-Nitrophenol	0.049	0.15													
Acenaphthene	1.5	4.4	0.1	0.092	0.029	0.028	0.084	0.083	0.117	0.119	0.098 J	0.132 J	<0.00037	<0.000741	0.0848 J
Acenaphthylene	1.5	4.4	0.0011 J	<0.0005	<0.0005	<0.0005	0.0017 J	0.002 J	0.00222	0.00189	0.00122	0.00137	<0.00093	<0.00144	0.00138 J
Anthracene	7.3	22	0.0029 J	0.0027 J	<0.0005	<0.0005	0.003 J	0.003 J	0.000285 J	0.00373 J	0.0022 J	0.00331 J	<0.003	<0.00371	0.00326 J
Benzo(a)anthracene	0.0091	0.02													
Benzo(a)pyrene	0.0002	0.0002													
bis(2-Chloroethoxy)methane	0.00083	0.0019													
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	0.003 J	0.0012 J	<0.0005	0.0013 J	<0.0005	<0.0005	0.00163	0.00162	<0.000356	<0.000356	0.000838 J	0.00067 J	<0.000349
Chrysene	0.91	2													
Dibenzofuran	0.098	0.29	0.0054	0.0027 J	0.0045 J	0.0044 J	0.025	0.025	0.0141	0.0134	0.00264 J	0.0235 J	<0.00951	<0.0168	0.0132 J
Di-n-butylphthalate (DBP)	2.4	7.3													0.00012 J
Fluoranthene	0.98	2.9	0.0062	0.0059	0.0012 J	0.0012 J	0.0047 J	0.0045 J	0.00602	0.00537	0.00399	0.00456	<0.00257	<0.00345	0.0043 J
Fluorene	0.98	2.9	0.056	0.051	0.0013 J	0.0013 J	0.041	0.043	0.0564	0.0556	0.0323 J	0.0545 J	<0.0369	<0.0432	0.0369 J
Naphthalene	0.49	1.5	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.00219	0.00245	0.0169 J	0.441 J	<0.0000741	0.00172 J	0.074 J
Nitrobenzene	0.049	0.15													
N-Nitrosodiphenylamine	0.19	0.42													
Pentachlorophenol	0.001	0.001													
Phenanthrene	0.73	2.2	0.002 J	0.0011 J	<0.0005	<0.0005	0.0033 J	0.0031 J	0.00388 J	0.0012 J	0.00109 J	0.00928 J	<0.00175	<0.00451	0.00537 J
Phenol	7.3	22													<0.0000377
Pyrene	0.73	2.2	0.0028 J	0.0027 J	<0.0005	<0.0005	0.0021 J	0.0019 J	0.00261	0.00202	0.00165	0.00192	<0.0013	<0.00165	0.00204 J
Metals															
Arsenic	0.01	0.01													

Notes:

- All values in milligrams per liter (mg/L).
- Concentrations > RAL and non-detects are highlighted light gray.
- Concentrations > C/I AL and non-detects are highlighted dark gray
- TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
- RAL = Residential Assessment Level, C/I = Commercial/Industrial
- J = Estimated value, < = not detected at the specified detection limit.
- MW-32A was screened in the B-CZ & replaced with MW-32AR
- Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-01A 07/02/2014	MW-01A 01/07/2015	MW-01A 01/07/2015	MW-01A 07/08/2015	MW-01A 07/08/2015	MW-01A 01/12/2016	MW-01A 01/12/2016	MW-01A 07/07/2016	MW-01A 07/07/2016	MW-01A 01/11/2017	MW-01A 01/11/2017	MW-01A 07/13/2017	MW-01A 07/13/2017
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	Duplicate		Duplicate			Duplicate		Duplicate		Duplicate		Duplicate	Duplicate
Benzene	0.005	0.005													
Chlorobenzene	0.1	0.1													
Ethylbenzene	0.7	0.7													
Methylene chloride	0.005	0.005													
Toluene	1	1													
Vinyl chloride	0.002	0.002													
Xylenes (total)	10	10													
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026													
2,4-Dimethylphenol	0.49	1.5													
2,4-Dinitrotoluene	0.0013	0.003													
2,6-Dinitrotoluene	0.0013	0.003													
2-Chloronaphthalene	2	5.8													
2-Methylnaphthalene	0.098	0.29	0.0000828 J	0.0000693 J	0.000132 J	0.00063 J	0.0041 J	<0.000019	<0.000019	0.000019 J	0.000095 J	<0.000019	<0.000019	<0.000019	0.00018
4,6-Dinitro-2-methylphenol	0.0024	0.0073													
4-Nitrophenol	0.049	0.15													
Acenaphthene	1.5	4.4	0.0228 J	0.0594	0.0607	0.086	0.095	0.048	0.043	0.053	0.053	0.044 J	0.061 J	0.043	0.052
Acenaphthylene	1.5	4.4	0.000638 J	0.00104	0.00102	0.0009	0.00099	0.0019	0.0018	0.00063	0.00069	0.00092	0.00098	0.00055	0.00068
Anthracene	7.3	22	0.00124 J	0.00139	0.00139	0.0018	0.0024	0.00052	0.00059	0.00096	0.001	0.00069	0.00093	0.00076	0.00079
Benzo(a)anthracene	0.0091	0.02													
Benzo(a)pyrene	0.0002	0.0002													
bis(2-Chloroethoxy)methane	0.00083	0.0019													
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	<0.000349	0.00533 J	0.00259 J	<0.0002	<0.000037	0.00042	0.0004	0.000083 J	0.0001 J	0.00031	0.00026	0.00012 J	0.00029
Chrysene	0.91	2													
Dibenzofuran	0.098	0.29	0.00131 J	0.000541	0.000602	0.0032 J	0.009 J	0.00065	0.00054	0.00072	0.00079	0.0011	0.001	0.0017	0.0027
Di-n-butylphthalate (DBP)	2.4	7.3	0.000133 J												
Fluoranthene	0.98	2.9	0.00141 J	0.00246	0.00235	0.0034	0.0038	0.0027	0.0034	0.0027	0.003	0.0021 J	0.003 J	0.0025	0.0025
Fluorene	0.98	2.9	0.0113 J	0.0209	0.0217	0.038	0.045	0.0057	0.0042	0.014	0.014	0.01 J	0.015 J	0.014	0.014
Naphthalene	0.49	1.5	0.00469 J	0.000121 J	0.000313 J	0.00083 J	0.0049 J	<0.00002	<0.00002	0.00002 J	0.00022 J	<0.00002	<0.00002	0.00025	0.00053
Nitrobenzene	0.049	0.15													
N-Nitrosodiphenylamine	0.19	0.42													
Pentachlorophenol	0.001	0.001													
Phenanthrene	0.73	2.2	0.000426 J	0.000335 J	0.000326 J	0.0012 J	0.0041 J	0.000067 J	0.000075 J	0.000021 J	0.00027 J	0.000064 J	0.000021 J	0.00029	0.00045
Phenol	7.3	22	<0.0000377												
Pyrene	0.73	2.2	0.000662 J	0.00105	0.00102	0.0015	0.0016	0.0011	0.0014	0.0011	0.0013	0.00095	0.0012	0.0011	0.001
Metals															
Arsenic	0.01	0.01													

Notes:

- All values in milligrams per liter (mg/L).
- Concentrations > RAL and non-detects are highlighted light gray.
- Concentrations > C/I AL and non-detects are highlighted dark gray
- TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
- RAL = Residential Assessment Level, C/I = Commercial/Industrial
- J = Estimated value, < = not detected at the specified detection limit.
- MW-32A was screened in the B-CZ & replaced with MW-32AR
- Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-01A 01/04/2018	MW-01A 01/04/2018 Duplicate	MW-01A 07/18/2018	MW-01A 07/18/2018 Duplicate	MW-01A 01/07/2019	MW-01A 01/07/2019 Duplicate	MW-01A 07/02/2019	MW-01A 07/02/2019 Duplicate	MW-01A 01/14/2020	MW-01A 01/14/2020 Duplicate	MW-01A 07/14/2020	MW-01A 07/14/2020 Duplicate	MW-02 01/28/2008
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005													
Benzene	0.005	0.005													
Chlorobenzene	0.1	0.1													
Ethylbenzene	0.7	0.7													
Methylene chloride	0.005	0.005													
Toluene	1	1													
Vinyl chloride	0.002	0.002													
Xylenes (total)	10	10													
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026													
2,4-Dimethylphenol	0.49	1.5													
2,4-Dinitrotoluene	0.0013	0.003													
2,6-Dinitrotoluene	0.0013	0.003													
2-Chloronaphthalene	2	5.8													
2-Methylnaphthalene	0.098	0.29	0.000096 J	0.00024	0.00021	0.00014	0.00021	<0.000019	0.00074	0.00069	0.00019	<0.000019	0.00091 J	0.0015 J	<0.00038
4,6-Dinitro-2-methylphenol	0.0024	0.0073													
4-Nitrophenol	0.049	0.15													
Acenaphthene	1.5	4.4	0.041	0.039	0.088	0.12	0.027	0.021	0.063	0.053	0.024	0.018	0.049	0.044	0.017
Acenaphthylene	1.5	4.4	0.00086	0.00083	0.00078	0.00086	0.00069	0.00059	0.00071	0.00071	0.00084	0.00066	0.00071	0.00081	<0.00028
Anthracene	7.3	22	0.0012	0.0011	0.002	0.0023	0.00068	0.00046	0.00097	0.00096	<0.000014	<0.000014	0.0016	0.0016	0.000922
Benzo(a)anthracene	0.0091	0.02													
Benzo(a)pyrene	0.0002	0.0002													
bis(2-Chloroethoxy)methane	0.00083	0.0019													
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	<0.000072	<0.000085	<0.000037	<0.000037	<0.000037	<0.000037	<0.000037	<0.000079	<0.000037	0.000074 J	0.000088 J	<0.000037	0.00049 J
Chrysene	0.91	2													
Dibenzofuran	0.098	0.29	0.0016	0.0015	0.01	0.015	0.0019	0.0014	0.0058	0.0054	0.0036	0.0021	0.008	0.009	0.0106
Di-n-butylphthalate (DBP)	2.4	7.3													
Fluoranthene	0.98	2.9	0.0032	0.0029	0.0038	0.0043	0.0018	0.0016	0.0013	0.0012	0.0011	0.0012	0.0031	0.0035	0.0015
Fluorene	0.98	2.9	0.018	0.017	0.04	0.05	0.0037	0.0027	0.019	0.016	0.0064	0.0038	0.02	0.018	0.0119
Naphthalene	0.49	1.5	<0.00002	<0.00002	0.00027	0.00042	<0.00002	<0.00002	0.00034	0.00034	0.00052	<0.00002	<0.00049	0.0052 J	0.000827
Nitrobenzene	0.049	0.15													
N-Nitrosodiphenylamine	0.19	0.42													
Pentachlorophenol	0.001	0.001													
Phenanthrene	0.73	2.2	0.0004	0.00035	0.0021	0.0024	0.00029	<0.000021	0.00076	0.00067	<0.000021	<0.000021	0.0026	0.0029	0.000532
Phenol	7.3	22													
Pyrene	0.73	2.2	0.0014	0.0014	0.0019	0.0022	0.00086	0.0007	0.00059	0.00055	0.00052	0.00059	0.0014	0.0017	0.000816
Metals															
Arsenic	0.01	0.01													

Notes:

- All values in milligrams per liter (mg/L).
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- Concentrations > C/I AL and non-detects are highlighted dark gray
- TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
- RAL = Residential Assessment Level, C/I = Commercial/Industrial
- J = Estimated value, < = not detected at the specified detection limit.
- MW-32A was screened in the B-CZ & replaced with MW-32AR
- Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-02 07/16/2008	MW-02 01/22/2009	MW-02 07/22/2009	MW-02 01/22/2010	MW-02 07/14/2010	MW-02 01/11/2011	MW-02 07/13/2011	MW-02 01/30/2012	MW-02 07/10/2012	MW-02 01/09/2013	MW-02 07/11/2013	MW-02 01/08/2014	MW-02 07/02/2014
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.00052												
Benzene	0.005	0.005	<0.00025												
Chlorobenzene	0.1	0.1	<0.00047												
Ethylbenzene	0.7	0.7	<0.00025												
Methylene chloride	0.005	0.005	<0.00054												
Toluene	1	1	<0.00041												
Vinyl chloride	0.002	0.002													
Xylenes (total)	10	10	<0.00127												
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026													
2,4-Dimethylphenol	0.49	1.5													
2,4-Dinitrotoluene	0.0013	0.003													
2,6-Dinitrotoluene	0.0013	0.003													
2-Chloronaphthalene	2	5.8													
2-Methylnaphthalene	0.098	0.29	<0.00039	<0.0008	0.0025 J	<0.0009	<0.0009	<0.0009	0.0021 J	<0.0005	<0.0005	0.00318	0.000897	<0.0000648	0.000509
4,6-Dinitro-2-methylphenol	0.0024	0.0073													
4-Nitrophenol	0.049	0.15													
Acenaphthene	1.5	4.4	0.0218	0.014	<0.0009	0.0073	0.018	0.0078	0.026	<0.0005	0.0088	0.0384	0.0179	<0.0000741	0.00452
Acenaphthylene	1.5	4.4	0.0003 J	<0.0007	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.00057	0.000335 J	<0.000101	0.0000979 J
Anthracene	7.3	22	0.00042 J	<0.0007	<0.0006	<0.0006	<0.0006	<0.0006	<0.0005	<0.0005	<0.0005	0.00129	0.0013	<0.00131	0.000596
Benzo(a)anthracene	0.0091	0.02													
Benzo(a)pyrene	0.0002	0.0002													
bis(2-Chloroethoxy)methane	0.00083	0.0019													
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	<0.00019	<0.0012	<0.0033	<0.0033	<0.0033	<0.0033	0.0021 J	<0.0005	<0.0005	0.000874	<0.000356	<0.000343	<0.000349
Chrysene	0.91	2													
Dibenzofuran	0.098	0.29	0.00673	<0.0007	<0.0007	<0.0007	<0.0007	<0.0007	0.0038 J	<0.0005	0.0043 J	0.0178	0.00734	<0.000147	0.00301
Di-n-butylphthalate (DBP)	2.4	7.3													<0.000104
Fluoranthene	0.98	2.9	0.000961	<0.0006	0.0011 J	<0.0005	<0.0005	<0.0005	0.0012 J	<0.0005	<0.0005	0.00147	0.00069	<0.000307	0.000368 J
Fluorene	0.98	2.9	0.0103	0.0039 J	<0.0006	0.0037 J	0.011	0.0049 J	0.015	<0.0005	0.0043 J	0.0201	0.00986	<0.000255	0.00357
Naphthalene	0.49	1.5	0.00118	<0.0008	0.012	<0.0006	<0.0006	<0.0006	0.0037 J	<0.0005	0.0033 J	0.0211	0.00754	<0.0000741	0.00653
Nitrobenzene	0.049	0.15													
N-Nitrosodiphenylamine	0.19	0.42													
Pentachlorophenol	0.001	0.001													
Phenanthrene	0.73	2.2	<0.00019	<0.0007	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.00241	0.000776	<0.000122	0.000594
Phenol	7.3	22													<0.0000377
Pyrene	0.73	2.2	0.00045 J	<0.0009	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.00087	0.000336 J	<0.000175	0.000201 J
Metals															
Arsenic	0.01	0.01													

Notes:

- All values in milligrams per liter (mg/L).
- Concentrations > RAL and non-detects are highlighted light gray.
- Concentrations > C/I AL and non-detects are highlighted dark gray
- TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
- RAL = Residential Assessment Level, C/I = Commercial/Industrial
- J = Estimated value, < = not detected at the specified detection limit.
- MW-32A was screened in the B-CZ & replaced with MW-32AR
- Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-02 01/07/2015	MW-02 07/07/2015	MW-02 01/12/2016	MW-02 07/07/2016	MW-02 01/11/2017	MW-02 07/13/2017	MW-02 01/04/2018	MW-02 07/18/2018	MW-02 01/07/2019	MW-02 07/02/2019	MW-02 01/14/2020	MW-02 07/14/2020	MW-03 01/30/2008
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005													<0.00052
Benzene	0.005	0.005													<0.00025
Chlorobenzene	0.1	0.1													<0.00047
Ethylbenzene	0.7	0.7													<0.00025
Methylene chloride	0.005	0.005													<0.00054
Toluene	1	1													<0.00041
Vinyl chloride	0.002	0.002													
Xylenes (total)	10	10													<0.00127
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026													<0.00008
2,4-Dimethylphenol	0.49	1.5													<0.0003
2,4-Dinitrotoluene	0.0013	0.003													<0.0002
2,6-Dinitrotoluene	0.0013	0.003													<0.0002
2-Chloronaphthalene	2	5.8													<0.0004
2-Methylnaphthalene	0.098	0.29	0.000105 J	0.00013	0.000033 J	<0.000019	<0.000019	0.00093	0.0051	0.00038	<0.000019	0.00011	<0.000019	0.00081	<0.0004
4,6-Dinitro-2-methylphenol	0.0024	0.0073													<0.0002
4-Nitrophenol	0.049	0.15													<0.00025
Acenaphthene	1.5	4.4	0.0026	0.001	0.0019	0.00058	0.0035	0.0064	0.015	0.0048	0.0016	0.0019	0.003	0.0055	0.118
Acenaphthylene	1.5	4.4	0.0000892 J	<0.000015	0.000046 J	0.00019	<0.000015	<0.000015	0.00018	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.00003
Anthracene	7.3	22	0.000153 J	0.000078 J	0.00011	0.000026 J	0.0001	0.00016	0.00036	0.0002	0.00012	0.000064 J	0.00011	0.00014	0.00172
Benzo(a)anthracene	0.0091	0.02													<0.0002
Benzo(a)pyrene	0.0002	0.0002													<0.0002
bis(2-Chloroethoxy)methane	0.00083	0.0019													<0.0004
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	0.000426 J	<0.00013	<0.00019	<0.000037	0.00011 J	<0.000037	<0.00016	<0.000038	<0.000063	<0.00015	<0.000037	0.000062 J	0.001 J
Chrysene	0.91	2													<0.0002
Dibenzofuran	0.098	0.29	0.000377 J	0.00075	0.0013	0.00036	0.0019	0.0023	0.0019	0.0016	0.00046	0.00041	0.00039	0.0006	0.00415
Di-n-butylphthalate (DBP)	2.4	7.3													<0.0002
Fluoranthene	0.98	2.9	<0.0000693	<0.00001	0.00013	0.000052 J	0.00029	0.00025	0.00071	0.00019	0.00011	0.000071 J	0.00024	0.00039	0.0125
Fluorene	0.98	2.9	0.000681	0.00067	0.001	0.00032	0.0016	0.0041	0.0099	0.0029	0.00081	0.00097	0.0017	0.0033	0.058
Naphthalene	0.49	1.5	0.000472 J	0.0013	0.0002	0.00013	<0.00002	0.00047	0.00015	0.00025	<0.00002	0.00011	<0.00002	<0.00015	0.000872
Nitrobenzene	0.049	0.15													<0.0004
N-Nitrosodiphenylamine	0.19	0.42													<0.00025
Pentachlorophenol	0.001	0.001													<0.0002
Phenanthrene	0.73	2.2	0.000162 J	0.00011	0.000093 J	0.000066 J	<0.000021	0.0005	0.0011	0.00035	0.000041 J	0.000054 J	0.00011	0.00032	0.000592
Phenol	7.3	22													<0.0002
Pyrene	0.73	2.2	<0.000109	<0.000019	0.000076 J	0.00003 J	0.00017	0.00011	0.00032	0.000082 J	0.000057 J	0.000037 J	0.00011	0.00023	0.00538
Metals															
Arsenic	0.01	0.01													

- Notes:
- All values in milligrams per liter (mg/L).
 - Concentrations > RAL and non-detects are highlighted light gray.
 - Concentrations > C/I AL and non-detects are highlighted dark gray
 - TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
 - RAL = Residential Assessment Level, C/I = Commercial/Industrial
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 - MW-32A was screened in the B-CZ & replaced with MW-32AR
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**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-03 01/24/2018	MW-03 03/27/2018	MW-03 05/25/2018	MW-03 01/09/2019	MW-03 07/12/2019	MW-03 01/21/2020	MW-03 07/15/2020	MW-04 01/29/2008	MW-04 01/24/2018	MW-04 03/23/2018	MW-04 05/25/2018	MW-04 01/09/2019	MW-04 07/12/2019
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00052	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Benzene	0.005	0.005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00025	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Chlorobenzene	0.1	0.1	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00047	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Ethylbenzene	0.7	0.7	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00025	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Methylene chloride	0.005	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00054	<0.001	<0.001	<0.001	<0.001	<0.001
Toluene	1	1	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00041	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Vinyl chloride	0.002	0.002													
Xylenes (total)	10	10	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00127	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.00008	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021
2,4-Dimethylphenol	0.49	1.5	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00029	<0.000041	<0.00004	0.00011 J	<0.00004	<0.00004
2,4-Dinitrotoluene	0.0013	0.003	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.00019	<0.000059	<0.000058	<0.000059	<0.000058	<0.000058
2,6-Dinitrotoluene	0.0013	0.003	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.00019	<0.000043	<0.000042	<0.000042	<0.000042	<0.000042
2-Chloronaphthalene	2	5.8	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.00038	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021
2-Methylnaphthalene	0.098	0.29	<0.000019	<0.000019	<0.000019	<0.000019	<0.000035	0.000045 J	<0.000019	<0.00038	0.00008 J	<0.000019	<0.000019	<0.000019	<0.000059
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00019	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
4-Nitrophenol	0.049	0.15	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.00024	<0.000048	<0.000047	<0.000047	<0.000047	<0.000047
Acenaphthene	1.5	4.4	<0.000027	<0.000027	0.000021	<0.000027	<0.000027	0.000061 J	0.0007	<0.00029	0.00013	<0.000027	0.00031	<0.000027	0.00052
Acenaphthylene	1.5	4.4	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	0.000022 J	<0.00029	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015
Anthracene	7.3	22	<0.000014	<0.000014	<0.000014	<0.000014	0.000055 J	0.000069 J	0.0001	0.000739	<0.000014	<0.000014	0.000054 J	0.000079 J	<0.000014
Benzo(a)anthracene	0.0091	0.02	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00019	<0.000051	<0.00005	<0.000051	<0.00005	<0.00005
Benzo(a)pyrene	0.0002	0.0002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	0.000024 J	<0.00002	<0.00019	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00038	<0.000031	<0.00003	<0.00003	<0.00003	<0.00003
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	0.000083 J	<0.000037	<0.000037	<0.000037	<0.000037	0.00011 J	<0.000095	0.00029 J	0.00008 J	<0.000037	<0.000037	<0.000037	<0.000037
Chrysene	0.91	2	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.00019	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021
Dibenzofuran	0.098	0.29	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	0.00013	<0.00029	0.000072 J	<0.00002	<0.00002	<0.00002	<0.000058
Di-n-butylphthalate (DBP)	2.4	7.3	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	0.000029 J	<0.000054	<0.00019	0.00003 J	<0.00002	<0.00002	<0.00002	<0.00002
Fluoranthene	0.98	2.9	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.000055 J	0.0002	0.00045 J	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Fluorene	0.98	2.9	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	0.00012	<0.00019	0.000075 J	<0.00003	0.000059 J	<0.00003	0.000053 J
Naphthalene	0.49	1.5	<0.00002	<0.00002	<0.00002	<0.00002	<0.00029	<0.00024	0.000081 J	<0.00038	0.0013	0.00055	<0.00002	<0.00002	<0.00053
Nitrobenzene	0.049	0.15	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.00038	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024
N-Nitrosodiphenylamine	0.19	0.42	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.00024	<0.000026	<0.000025	<0.000025	<0.000025	<0.000025
Pentachlorophenol	0.001	0.001	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.00019	<0.000081	<0.000079	<0.00008	<0.000079	<0.000079
Phenanthrene	0.73	2.2	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	0.000038 J	0.00037 J	<0.000021	0.000099 J	<0.000021	<0.000021	<0.000021
Phenol	7.3	22	<0.000035	<0.000035	<0.000035	<0.000035	<0.000035	<0.000035	<0.000035	<0.00019	<0.000036	<0.000035	<0.000035	<0.000035	<0.000035
Pyrene	0.73	2.2	<0.000019	<0.000019	<0.000019	<0.000019	0.00002 J	0.000036 J	0.0001	<0.00019	0.00003 J	<0.000019	0.00011	<0.000019	0.00016
Metals															
Arsenic	0.01	0.01	0.000895 J	0.00242	0.00363	0.0191	0.000582 J	0.00207	0.00187 J		0.00454	0.00092 J	0.00492	0.000963 J	0.0127

- Notes:
- All values in milligrams per liter (mg/L).
 - Concentrations > RAL and non-detects are highlighted light gray.
 - Concentrations > C/I AL and non-detects are highlighted dark gray
 - TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
 - RAL = Residential Assessment Level, C/I = Commercial/Industrial
 - J = Estimated value, < = not detected at the specified detection limit.
 - MW-32A was screened in the B-CZ & replaced with MW-32AR
 - Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-04 01/21/2020	MW-04 07/15/2020	MW-05 01/29/2008	MW-05 07/27/2011	MW-05 02/02/2012	MW-05 07/25/2012	MW-05 02/05/2013	MW-05 08/01/2013	MW-05 01/15/2014	MW-05 07/29/2014	MW-05 01/24/2018	MW-05 03/20/2018	MW-05 05/24/2018
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.0002	<0.0002	<0.00052	<0.001	<0.001	<0.0005	<0.00014	<0.00014	<0.0002	<0.00014	<0.0002	<0.0002	<0.0002
Benzene	0.005	0.005	<0.0002	<0.0002	<0.00025	<0.001	<0.001	<0.0005	<0.00008	<0.00008	<0.0002	<0.00008	<0.0002	<0.0002	<0.0002
Chlorobenzene	0.1	0.1	<0.0003	<0.0003	<0.00047	<0.001	<0.001	<0.0005	<0.00012	<0.00012	<0.00018	<0.00012	<0.0003	<0.0003	<0.0003
Ethylbenzene	0.7	0.7	<0.0003	<0.0003	<0.00025	<0.0011	<0.0011	<0.0005	<0.000137	<0.00011	<0.00019	<0.00011	<0.0003	<0.0003	<0.0003
Methylene chloride	0.005	0.005	<0.001	<0.001	<0.00054	<0.0013	<0.0013	<0.001	<0.00015	<0.00015	<0.00022	<0.00015	<0.001	<0.001	<0.001
Toluene	1	1	<0.0002	<0.0002	<0.00041	<0.001	<0.001	<0.0005	<0.00015	<0.00015	<0.00017	<0.00015	<0.0002	<0.0002	<0.0002
Vinyl chloride	0.002	0.002							<0.00011						
Xylenes (total)	10	10	<0.0003	<0.0003	<0.00127	<0.0031	<0.0031	<0.0015	<0.00026	<0.00026	<0.00058	<0.00026	<0.0003	<0.0003	<0.0003
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.000021	<0.000021	<0.00008	<0.00005	<0.00005	<0.00005	<0.000104	<0.000105	<0.000104	<0.000108	<0.000021	<0.000021	<0.000021
2,4-Dimethylphenol	0.49	1.5	<0.00004	<0.00004	<0.00029	<0.00005	<0.00005	<0.00005	<0.000292	<0.000295	<0.000292	<0.000304	<0.00004	<0.00004	<0.00004
2,4-Dinitrotoluene	0.0013	0.003	<0.000058	<0.000058	<0.00019	<0.00005	<0.00005	<0.00005	<0.000123	<0.000124	<0.000123	<0.000127	<0.000059	<0.000059	<0.000058
2,6-Dinitrotoluene	0.0013	0.003	<0.000042	<0.000042	<0.00019	<0.00006	<0.00006	<0.00006	<0.0000755	<0.0000762	<0.0000755	<0.0000784	<0.000042	<0.000042	<0.000042
2-Chloronaphthalene	2	5.8	<0.000021	<0.000021	<0.00038	<0.00005	<0.00005	<0.00005	<0.0000755	<0.0000762	<0.0000755	<0.0000784	<0.000021	<0.000021	<0.000021
2-Methylnaphthalene	0.098	0.29	0.00026	<0.000019	<0.00038	<0.00005	0.000085 J	<0.00005	0.000468 J	<0.0000667	0.000187 J	<0.0000686	<0.000019	<0.000019	<0.000019
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00002	<0.00002	<0.00019	<0.00008	<0.00008	<0.00008	<0.000783	<0.00079	<0.000783	<0.000814	<0.00002	<0.00002	<0.00002
4-Nitrophenol	0.049	0.15	<0.000047	<0.000047	<0.00024	<0.00005	<0.00005	<0.00005	<0.000528	<0.000533	<0.000528	<0.000549	<0.000047	<0.000047	<0.000047
Acenaphthene	1.5	4.4	0.00015	0.00011	0.000545	0.0053	0.00034	<0.00005	<0.0000755	0.000521	0.000194 J	<0.0000784	<0.000027	<0.000027	0.00023
Acenaphthylene	1.5	4.4	<0.000015	<0.000015	<0.00029	<0.00005	<0.00005	<0.00005	<0.0000566	<0.0000571	<0.0000566	<0.0000588	<0.000015	<0.000015	<0.000015
Anthracene	7.3	22	0.0001	0.00014	0.000811	<0.00005	<0.00005	<0.00005	0.000621	0.000427 J	0.000411 J	0.000153 J	0.000037 J	<0.000014	0.000045 J
Benzo(a)anthracene	0.0091	0.02	<0.00005	<0.00005	<0.00019	<0.00005	<0.00005	<0.00005	<0.0000755	<0.0000762	<0.0000755	<0.0000784	<0.000051	<0.000051	<0.00005
Benzo(a)pyrene	0.0002	0.0002	0.000033 J	<0.00002	<0.00019	<0.00005	<0.00005	<0.00005	<0.0000755	<0.0000762	<0.0000755	<0.0000784	<0.00002	<0.00002	<0.00002
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00003	<0.00003	<0.00038	<0.00005	<0.00005	<0.00005	<0.000123	<0.000124	<0.000123	<0.000127	<0.00003	<0.00003	<0.00003
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	0.0018	0.00034	0.00034 J	0.00047	<0.0001	0.00019 J	<0.000349	<0.000352	<0.000349	<0.000363	0.00011 J	<0.000037	0.00013 J
Chrysene	0.91	2	0.000034 J	<0.000021	<0.00019	<0.00005	<0.00005	<0.00005	<0.0000755	<0.0000762	<0.0000755	<0.0000784	<0.000021	<0.000021	<0.000021
Dibenzofuran	0.098	0.29	0.000097 J	0.00004 J	<0.00029	0.0022	0.00011 J	<0.00005	<0.0000755	0.0000828 J	0.000162 J	<0.0000784	<0.00002	<0.00002	0.000024 J
Di-n-butylphthalate (DBP)	2.4	7.3	<0.00002	<0.000059	<0.00019	<0.00005	<0.00005	0.000065 J	<0.000104	<0.000105	<0.000104	<0.000108	0.000033 J	<0.00002	<0.00002
Fluoranthene	0.98	2.9	0.00029	<0.000067	0.00047 J	0.00011 J	<0.00005	<0.00005	<0.000066	0.0000761 J	<0.000066	<0.0000686	0.000051 J	<0.00001	<0.00001
Fluorene	0.98	2.9	0.000067 J	0.00005 J	0.0002 J	0.0012	0.00012 J	<0.00005	<0.000066	0.000166 J	0.000176 J	<0.0000686	<0.00003	<0.00003	0.000039 J
Naphthalene	0.49	1.5	0.0013	0.00007 J	<0.00038	<0.00005	0.00087	<0.00005	0.00133	0.000573 J	0.000969 J	<0.000131	0.0001	<0.00002	<0.00002
Nitrobenzene	0.049	0.15	<0.000024	<0.000024	<0.00038	<0.00005	<0.00005	<0.00005	<0.000104	<0.000105	<0.000104	<0.000108	<0.000024	<0.000024	<0.000024
N-Nitrosodiphenylamine	0.19	0.42	<0.000025	<0.000025	<0.00024	<0.00005	<0.00005	<0.00005	<0.0000943	<0.0000952	<0.0000943	<0.000098	<0.000025	<0.000025	<0.000025
Pentachlorophenol	0.001	0.001	<0.000079	<0.000079	<0.00019	<0.00005	<0.00005	<0.00005	<0.0000575	<0.0000581	<0.0000575	<0.0000598	<0.00008	<0.00008	<0.000079
Phenanthrene	0.73	2.2	0.00017	0.000029 J	0.00039 J	0.00013 J	<0.00005	<0.00005	0.000143 J	<0.0000571	0.000507	<0.0000588	0.000054 J	<0.000021	<0.000021
Phenol	7.3	22	<0.000035	<0.000035	<0.00019	<0.00005	<0.00005	<0.00005	0.000193 J	<0.0000381	<0.0000377	<0.0000392	<0.000035	<0.000035	<0.000035
Pyrene	0.73	2.2	0.0002	0.000036 J	0.00045 J	0.00014 J	<0.00005	<0.00005	<0.000104	0.000154 J	<0.000104	<0.000108	0.000047 J	<0.000019	0.00019
Metals															
Arsenic	0.01	0.01	0.00223	0.00365									0.00588	0.00255	0.00488

Notes:

1. All values in milligrams per liter (mg/L).
2. Concentrations > RAL and non-detects are highlighted light gray.
3. Concentrations > C/I AL and non-detects are highlighted dark gray
4. TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
5. RAL = Residential Assessment Level, C/I = Commercial/Industrial
6. J = Estimated value, < = not detected at the specified detection limit.
7. MW-32A was screened in the B-CZ & replaced with MW-32AR
8. Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-05 01/09/2019	MW-05 07/11/2019	MW-05 01/13/2020	MW-05 07/14/2020	MW-07 01/29/2008	MW-07 07/16/2008	MW-07 01/22/2009	MW-07 07/22/2009	MW-07 01/22/2010	MW-07 07/14/2010	MW-07 01/12/2011	MW-07 01/12/2011	MW-07 07/12/2011
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.0002	<0.0002	<0.0002	<0.0002									
Benzene	0.005	0.005	<0.0002	<0.0002	<0.0002	<0.0002									
Chlorobenzene	0.1	0.1	<0.0003	<0.0003	<0.0003	<0.0003									
Ethylbenzene	0.7	0.7	<0.0003	<0.0003	<0.0003	<0.0003									
Methylene chloride	0.005	0.005	<0.001	<0.001	<0.001	<0.001									
Toluene	1	1	<0.0002	<0.0002	<0.0002	<0.0002									
Vinyl chloride	0.002	0.002													
Xylenes (total)	10	10	<0.0003	<0.0003	<0.0003	<0.0003									
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.000021	<0.000021	<0.000021	<0.000021									
2,4-Dimethylphenol	0.49	1.5	<0.00004	<0.000059	<0.00004	<0.00004									
2,4-Dinitrotoluene	0.0013	0.003	<0.000058	<0.000058	<0.000058	<0.000058									
2,6-Dinitrotoluene	0.0013	0.003	<0.000042	<0.000042	<0.000042	<0.000042									
2-Chloronaphthalene	2	5.8	<0.000021	<0.000021	<0.000021	<0.000021									
2-Methylnaphthalene	0.098	0.29	<0.000019	0.000087 J	<0.000019	<0.000019	<0.00038	<0.00039	<0.0008	<0.0009	<0.0009	<0.0009	<0.0009	<0.0009	<0.0005
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00002	<0.00002	<0.00002	<0.00002									
4-Nitrophenol	0.049	0.15	<0.000047	<0.000047	<0.000047	<0.000047									
Acenaphthene	1.5	4.4	<0.000027	0.00043	<0.000027	<0.000027	<0.00028	<0.00029	<0.0008	<0.0009	<0.0009	<0.0009	<0.0009	<0.0009	<0.0005
Acenaphthylene	1.5	4.4	<0.000015	<0.000015	<0.000015	<0.000015	<0.00028	0.00044 J	<0.0007	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Anthracene	7.3	22	<0.000014	0.000097 J	<0.000014	0.000059 J	0.000516	0.000982	<0.0007	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0005
Benzo(a)anthracene	0.0091	0.02	<0.00005	<0.00005	<0.00005	<0.00005									
Benzo(a)pyrene	0.0002	0.0002	<0.00002	<0.00002	<0.00002	<0.00002									
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00003	<0.00003	<0.00003	<0.00003									
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	<0.000037	<0.000037	<0.000037	<0.000066	<0.00019	<0.00019	<0.0012	<0.0033	<0.0033	0.0049 J	<0.0033	<0.0005	
Chrysene	0.91	2	<0.000021	<0.000021	<0.000021	<0.000021									
Dibenzofuran	0.098	0.29	<0.00002	0.000051 J	<0.00002	<0.00002	<0.00028	<0.00029	<0.0007	<0.0007	<0.0007	<0.0007	<0.0007	<0.0007	<0.0005
Di-n-butylphthalate (DBP)	2.4	7.3	<0.00002	<0.00002	<0.00002	<0.00003									
Fluoranthene	0.98	2.9	<0.00001	<0.00001	<0.00001	<0.000044	<0.00019	<0.00019	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Fluorene	0.98	2.9	<0.00003	0.000064 J	<0.00003	0.000047 J	<0.00019	<0.00019	<0.0008	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0005
Naphthalene	0.49	1.5	<0.00002	<0.00071	<0.00012	<0.00002	<0.00038	0.000675	<0.0008	<0.0006	<0.0006	<0.0006	<0.0006	<0.0006	<0.0005
Nitrobenzene	0.049	0.15	<0.000024	<0.000024	<0.000024	<0.000024									
N-Nitrosodiphenylamine	0.19	0.42	<0.000025	<0.000025	<0.000025	<0.000025									
Pentachlorophenol	0.001	0.001	<0.000079	<0.000079	<0.000079	<0.000079									
Phenanthrene	0.73	2.2	<0.000021	<0.000021	<0.000021	0.00007 J	<0.00019	0.00036 J	<0.0007	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Phenol	7.3	22	<0.000035	<0.000035	<0.000035	<0.000035									
Pyrene	0.73	2.2	<0.000019	0.00019	<0.000019	0.00011	<0.00019	<0.00019	<0.0009	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Metals															
Arsenic	0.01	0.01	0.00387	0.0171	0.00146 J	0.0111									

Notes:

- All values in milligrams per liter (mg/L).
- Concentrations > RAL and non-detects are highlighted light gray.
- Concentrations > C/I AL and non-detects are highlighted dark gray
- TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
- RAL = Residential Assessment Level, C/I = Commercial/Industrial
- J = Estimated value, < = not detected at the specified detection limit.
- MW-32A was screened in the B-CZ & replaced with MW-32AR
- Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-07 01/31/2012	MW-07 07/11/2012	MW-07 01/10/2013	MW-07 07/11/2013	MW-07 01/09/2014	MW-07 07/03/2014	MW-07 01/07/2015	MW-07 07/08/2015	MW-07 01/12/2016	MW-07 07/07/2016	MW-07 01/12/2017	MW-07 07/13/2017	MW-07 01/04/2018
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005													
Benzene	0.005	0.005													
Chlorobenzene	0.1	0.1													
Ethylbenzene	0.7	0.7													
Methylene chloride	0.005	0.005													
Toluene	1	1													
Vinyl chloride	0.002	0.002													
Xylenes (total)	10	10													
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026													
2,4-Dimethylphenol	0.49	1.5													
2,4-Dinitrotoluene	0.0013	0.003													
2,6-Dinitrotoluene	0.0013	0.003													
2-Chloronaphthalene	2	5.8													
2-Methylnaphthalene	0.098	0.29	<0.0005	<0.0005	<0.000066	<0.0000704	R	<0.000066	<0.0000693	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019
4,6-Dinitro-2-methylphenol	0.0024	0.0073													
4-Nitrophenol	0.049	0.15													
Acenaphthene	1.5	4.4	<0.0005	<0.0005	0.00181	<0.0000804	R	<0.0000755	<0.0000792	<0.000027	<0.000027	<0.000027	<0.000027	<0.000027	<0.000027
Acenaphthylene	1.5	4.4	<0.0005	<0.0005	0.00011 J	<0.0000603	R	<0.0000566	<0.0000594	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015
Anthracene	7.3	22	<0.0005	<0.0005	0.000833	0.000749	R	0.000696	0.000271 J	0.00014	0.000085 J	0.000055 J	0.00025	<0.000014	0.00014
Benzo(a)anthracene	0.0091	0.02													
Benzo(a)pyrene	0.0002	0.0002													
bis(2-Chloroethoxy)methane	0.00083	0.0019													
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	<0.0005	<0.0005	<0.000349	<0.000372	R	<0.000349	0.000944	<0.00024	0.00024	<0.000037	0.00011 J	<0.000037	<0.000088
Chrysene	0.91	2													
Dibenzofuran	0.098	0.29	<0.0005	<0.0005	<0.0000755	<0.0000804	R	<0.0000755	<0.0000792	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
Di-n-butylphthalate (DBP)	2.4	7.3													
Fluoranthene	0.98	2.9	<0.0005	<0.0005	<0.000066	<0.0000704	R	<0.000066	0.000189 J	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Fluorene	0.98	2.9	<0.0005	<0.0005	0.000137 J	<0.0000704	R	<0.000066	0.0000792 J	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003
Naphthalene	0.49	1.5	<0.0005	<0.0005	<0.0000755	0.000111 J	R	<0.0000755	<0.0000792	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
Nitrobenzene	0.049	0.15													
N-Nitrosodiphenylamine	0.19	0.42													
Pentachlorophenol	0.001	0.001													
Phenanthrene	0.73	2.2	<0.0005	<0.0005	<0.0000566	<0.0000603	R	<0.0000566	<0.0000594	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021
Phenol	7.3	22													
Pyrene	0.73	2.2	<0.0005	<0.0005	<0.000104	<0.000111	R	<0.000104	0.000142 J	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019
Metals															
Arsenic	0.01	0.01													

- Notes:
- All values in milligrams per liter (mg/L).
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 - Concentrations > C/I AL and non-detects are highlighted dark gray
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 - RAL = Residential Assessment Level, C/I = Commercial/Industrial
 - J = Estimated value, < = not detected at the specified detection limit.
 - MW-32A was screened in the B-CZ & replaced with MW-32AR
 - Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-07 07/19/2018	MW-07 01/08/2019	MW-07 07/01/2019	MW-07 07/01/2019	MW-07 01/13/2020	MW-07 07/14/2020	MW-08 01/29/2008	MW-08 07/16/2008	MW-08 01/22/2009	MW-08 07/22/2009	MW-08 01/22/2010	MW-08 07/14/2010	MW-08 01/12/2011
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005													<0.00109
Benzene	0.005	0.005													<0.00112
Chlorobenzene	0.1	0.1													<0.0015
Ethylbenzene	0.7	0.7													<0.00142
Methylene chloride	0.005	0.005													<0.00122
Toluene	1	1													<0.00138
Vinyl chloride	0.002	0.002													
Xylenes (total)	10	10													<0.00302
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026													
2,4-Dimethylphenol	0.49	1.5													
2,4-Dinitrotoluene	0.0013	0.003													
2,6-Dinitrotoluene	0.0013	0.003													
2-Chloronaphthalene	2	5.8													
2-Methylnaphthalene	0.098	0.29	<0.000019	<0.000019	<0.000019	0.000023 J	0.000066 J	<0.000019	<0.00044	<0.0004	<0.0008	<0.0009	<0.0009	<0.0009	<0.0009
4,6-Dinitro-2-methylphenol	0.0024	0.0073													
4-Nitrophenol	0.049	0.15													
Acenaphthene	1.5	4.4	<0.000027	<0.000027	<0.000027	<0.000027	<0.000027	<0.000027	<0.00033	<0.0003	<0.0008	<0.0009	<0.0009	<0.0009	<0.0009
Acenaphthylene	1.5	4.4	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.00033	0.00044 J	<0.0007	<0.0005	<0.0005	<0.0005	<0.0005
Anthracene	7.3	22	0.00036	<0.000014	0.00014	0.00029	<0.000014	<0.000014	0.00031 J	0.000669	<0.0007	<0.0006	<0.0006	<0.0006	<0.0006
Benzo(a)anthracene	0.0091	0.02													
Benzo(a)pyrene	0.0002	0.0002													
bis(2-Chloroethoxy)methane	0.00083	0.0019													
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	<0.000037	<0.000037	<0.000037	<0.000037	<0.000037	<0.000037	<0.00022	<0.0002	<0.0012	<0.0033	<0.0033	<0.0033	<0.0033
Chrysene	0.91	2													
Dibenzofuran	0.098	0.29	<0.00002	<0.00002	<0.00002	<0.00002	0.000057 J	<0.00002	<0.00033	<0.0003	<0.0007	<0.0007	<0.0007	<0.0007	<0.0007
Di-n-butylphthalate (DBP)	2.4	7.3													
Fluoranthene	0.98	2.9	<0.00001	<0.00001	<0.00001	<0.00001	0.0001	<0.00001	<0.00022	<0.0002	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005
Fluorene	0.98	2.9	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00022	<0.0002	<0.0008	<0.0006	<0.0006	<0.0006	<0.0006
Naphthalene	0.49	1.5	<0.00002	<0.00002	<0.00002	0.00025	0.00017	<0.00012	<0.00044	0.000654	<0.0008	<0.0006	<0.0006	<0.0006	<0.0006
Nitrobenzene	0.049	0.15													
N-Nitrosodiphenylamine	0.19	0.42													
Pentachlorophenol	0.001	0.001													
Phenanthrene	0.73	2.2	<0.000021	<0.000021	<0.000021	<0.000021	0.00014	<0.000021	<0.00022	0.00036 J	<0.0007	<0.0005	<0.0005	<0.0005	<0.0005
Phenol	7.3	22													
Pyrene	0.73	2.2	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.00022	<0.0002	<0.0009	<0.0005	<0.0005	<0.0005	<0.0005
Metals															
Arsenic	0.01	0.01													

- Notes:
- All values in milligrams per liter (mg/L).
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 - Concentrations > C/I AL and non-detects are highlighted dark gray
 - TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
 - RAL = Residential Assessment Level, C/I = Commercial/Industrial
 - J = Estimated value, < = not detected at the specified detection limit.
 - MW-32A was screened in the B-CZ & replaced with MW-32AR
 - Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-08 01/12/2011	MW-08 07/12/2011	MW-08 01/31/2012	MW-08 07/11/2012	MW-08 01/10/2013	MW-08 07/11/2013	MW-08 01/09/2014	MW-08 07/03/2014	MW-08 01/07/2015	MW-08 07/08/2015	MW-08 01/12/2016	MW-08 07/07/2016	MW-08 01/12/2017
Volatile Organic Compounds			Duplicate												
1,2-Dichloroethane	0.005	0.005													
Benzene	0.005	0.005													
Chlorobenzene	0.1	0.1													
Ethylbenzene	0.7	0.7													
Methylene chloride	0.005	0.005													
Toluene	1	1													
Vinyl chloride	0.002	0.002													
Xylenes (total)	10	10													
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026													
2,4-Dimethylphenol	0.49	1.5													
2,4-Dinitrotoluene	0.0013	0.003													
2,6-Dinitrotoluene	0.0013	0.003													
2-Chloronaphthalene	2	5.8													
2-Methylnaphthalene	0.098	0.29	<0.0009	<0.0005	<0.0005	<0.0005	<0.000066	<0.0000686	<0.0000648	<0.000066	<0.0000693	<0.000019	<0.000019	<0.000019	<0.000019
4,6-Dinitro-2-methylphenol	0.0024	0.0073													
4-Nitrophenol	0.049	0.15													
Acenaphthene	1.5	4.4	<0.0009	<0.0005	<0.0005	<0.0005	<0.0000755	<0.0000784	<0.0000741	<0.0000755	<0.0000792	<0.000027	<0.000027	<0.000027	<0.000027
Acenaphthylene	1.5	4.4	<0.0005	<0.0005	<0.0005	<0.0005	<0.0000566	<0.0000588	<0.0000556	<0.0000566	<0.0000594	<0.000015	<0.000015	<0.000015	<0.000015
Anthracene	7.3	22	<0.0006	<0.0005	<0.0005	<0.0005	0.000439 J	0.000101 J	0.000494	<0.0000472	0.000056 J	<0.000014	<0.000014	<0.000014	<0.000014
Benzo(a)anthracene	0.0091	0.02													
Benzo(a)pyrene	0.0002	0.0002													
bis(2-Chloroethoxy)methane	0.00083	0.0019													
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	<0.0033	<0.0005	<0.0005	<0.0005	<0.000349	<0.000363	<0.000343	<0.000349	<0.000366	<0.00013	<0.000037	<0.000037	0.00018 J
Chrysene	0.91	2													
Dibenzofuran	0.098	0.29	<0.0007	<0.0005	<0.0005	<0.0005	<0.0000755	<0.0000784	<0.0000741	<0.0000755	<0.0000792	<0.00002	<0.00002	<0.00002	<0.00002
Di-n-butylphthalate (DBP)	2.4	7.3									<0.000104				
Fluoranthene	0.98	2.9	<0.0005	<0.0005	<0.0005	<0.0005	<0.000066	<0.0000686	<0.0000648	<0.000066	<0.0000693	<0.00001	<0.00001	<0.00001	<0.00001
Fluorene	0.98	2.9	<0.0006	<0.0005	<0.0005	<0.0005	<0.000066	<0.0000686	<0.0000648	<0.000066	<0.0000693	<0.00003	<0.00003	<0.00003	<0.00003
Naphthalene	0.49	1.5	<0.0006	<0.0005	<0.0005	<0.0005	<0.0000755	<0.0000784	<0.0000741	<0.0000755	<0.0000792	<0.00002	<0.00002	<0.00002	<0.00002
Nitrobenzene	0.049	0.15													
N-Nitrosodiphenylamine	0.19	0.42													
Pentachlorophenol	0.001	0.001													
Phenanthrene	0.73	2.2	<0.0005	<0.0005	<0.0005	<0.0005	<0.0000566	<0.0000588	0.0000637 J	<0.0000566	<0.0000594	<0.000021	<0.000021	<0.000021	<0.000021
Phenol	7.3	22									<0.0000377				
Pyrene	0.73	2.2	<0.0005	<0.0005	<0.0005	<0.0005	<0.000104	<0.000108	<0.000102	<0.000104	<0.000109	<0.000019	<0.000019	<0.000019	<0.000019
Metals															
Arsenic	0.01	0.01													

- Notes:
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CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-08 07/13/2017	MW-08 01/04/2018	MW-08 07/19/2018	MW-08 01/07/2019	MW-08 07/01/2019	MW-08 01/13/2020	MW-08 07/14/2020	MW-09 01/29/2008	MW-09 07/27/2011	MW-09 02/02/2012	MW-09 07/25/2012	MW-09 04/01/2013	MW-09 01/24/2018
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005								<0.00052	<0.001	<0.001	<0.0005	<0.00014	<0.0002
Benzene	0.005	0.005								<0.00025	<0.001	<0.001	<0.0005	<0.00008	<0.0002
Chlorobenzene	0.1	0.1								<0.00047	<0.001	<0.001	<0.0005	<0.00012	<0.0003
Ethylbenzene	0.7	0.7								<0.00025	<0.0011	<0.0011	<0.0005	<0.00011	<0.0003
Methylene chloride	0.005	0.005								<0.00054	<0.0013	<0.0013	<0.001	<0.00015	<0.001
Toluene	1	1								<0.00041	<0.001	<0.001	<0.0005	<0.00015	<0.0002
Vinyl chloride	0.002	0.002													
Xylenes (total)	10	10								<0.00127	<0.0031	<0.0031	<0.0015	<0.00026	<0.0003
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026								<0.00008	<0.00005	<0.00005	<0.00005	<0.000106	<0.000021
2,4-Dimethylphenol	0.49	1.5								<0.00029	<0.00005	<0.00005	<0.00005	<0.000298	<0.00004
2,4-Dinitrotoluene	0.0013	0.003								<0.00019	<0.00005	<0.00005	<0.00005	<0.000125	<0.000059
2,6-Dinitrotoluene	0.0013	0.003								<0.00019	<0.00006	<0.00006	<0.00006	<0.0000769	<0.000042
2-Chloronaphthalene	2	5.8								<0.00038	<0.00005	<0.00005	<0.00005	<0.0000769	<0.000021
2-Methylnaphthalene	0.098	0.29	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.00038	<0.00005	<0.00005	<0.00005	0.000115 J	<0.000019
4,6-Dinitro-2-methylphenol	0.0024	0.0073								<0.00019	<0.00008	<0.00008	<0.00008	<0.000798	<0.00002
4-Nitrophenol	0.049	0.15								<0.00024	<0.00005	<0.00005	<0.00005	<0.000538	<0.000047
Acenaphthene	1.5	4.4	<0.000027	<0.000027	0.00067	<0.000027	<0.000027	<0.000027	<0.000027	<0.00029	<0.00005	<0.00005	<0.00005	0.000188 J	<0.000027
Acenaphthylene	1.5	4.4	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.00029	<0.00005	<0.00005	<0.00005	<0.0000577	<0.000015
Anthracene	7.3	22	<0.000014	<0.000014	0.000045 J	0.000048 J	<0.000014	<0.000014	<0.000014	<0.00019	0.00036	<0.00005	<0.00005	0.000471 J	<0.000014
Benzo(a)anthracene	0.0091	0.02								<0.00019	<0.00005	<0.00005	<0.00005	<0.0000769	<0.000051
Benzo(a)pyrene	0.0002	0.0002								<0.00019	<0.00005	<0.00005	<0.00005	<0.0000769	<0.00002
bis(2-Chloroethoxy)methane	0.00083	0.0019								<0.00038	<0.00005	<0.00005	<0.00005	<0.000125	<0.00003
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	<0.000037	<0.000097	<0.000037	<0.000037	<0.000037	0.00021	<0.000037	0.00034 J	0.00018 J	<0.00032	0.00022	<0.000356	0.000082 J
Chrysene	0.91	2								<0.00019	<0.00005	<0.00005	<0.00005	<0.0000769	<0.000021
Dibenzofuran	0.098	0.29	<0.00002	<0.00002	0.00011	<0.00002	<0.00002	<0.00002	<0.00002	<0.00029	<0.00005	<0.00005	<0.00005	0.000126 J	<0.00002
Di-n-butylphthalate (DBP)	2.4	7.3								<0.00019	<0.00005	<0.00005	0.000074 J	0.000123 J	<0.00002
Fluoranthene	0.98	2.9	<0.00001	<0.00001	0.000031 J	<0.00001	<0.00001	<0.00001	<0.00001	0.00045 J	<0.00005	<0.00005	<0.00005	<0.0000673	<0.00001
Fluorene	0.98	2.9	<0.00003	<0.00003	0.00017	<0.00003	<0.00003	<0.00003	<0.00003	<0.00019	<0.00005	<0.00005	<0.00005	<0.0000673	<0.00003
Naphthalene	0.49	1.5	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00038	<0.00005	<0.00005	<0.00005	0.00431 J	<0.00002
Nitrobenzene	0.049	0.15								<0.00038	<0.00005	<0.00005	<0.00005	<0.000106	<0.000024
N-Nitrosodiphenylamine	0.19	0.42								<0.00024	<0.00005	<0.00005	<0.00005	<0.0000962	<0.000025
Pentachlorophenol	0.001	0.001								<0.00019	<0.00005	<0.00005	<0.00005	<0.000587	<0.00008
Phenanthrene	0.73	2.2	<0.000021	<0.000021	0.000023 J	<0.000021	<0.000021	0.000046 J	<0.000021	0.000541	<0.00005	<0.00005	<0.00005	<0.0000577	<0.000021
Phenol	7.3	22								<0.00019	<0.00005	<0.000098	<0.00005	<0.0000385	<0.000035
Pyrene	0.73	2.2	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.00019	<0.00005	<0.00005	<0.00005	<0.000106	<0.000019
Metals															
Arsenic	0.01	0.01													0.00104 J

- Notes:
- All values in milligrams per liter (mg/L).
 - Concentrations > RAL and non-detects are highlighted light gray.
 - Concentrations > C/I AL and non-detects are highlighted dark gray
 - TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
 - RAL = Residential Assessment Level, C/I = Commercial/Industrial
 - J = Estimated value, < = not detected at the specified detection limit.
 - MW-32A was screened in the B-CZ & replaced with MW-32AR
 - Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-09 03/23/2018	MW-09 05/24/2018	MW-09 01/09/2019	MW-09 07/12/2019	MW-09 01/14/2020	MW-09 07/15/2020	MW-10A 01/28/2008	MW-10A 07/16/2008	MW-10A 01/22/2009	MW-10A 07/22/2009	MW-10A 01/21/2010	MW-10A 07/13/2010	MW-10A 01/11/2011
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002							<0.00052
Benzene	0.005	0.005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002							<0.00025
Chlorobenzene	0.1	0.1	<0.0003	<0.0003	0.0041	<0.0003	<0.0003	<0.0003							<0.00047
Ethylbenzene	0.7	0.7	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003							<0.00025
Methylene chloride	0.005	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001							<0.00054
Toluene	1	1	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002							<0.00041
Vinyl chloride	0.002	0.002													
Xylenes (total)	10	10	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003							<0.00127
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021							
2,4-Dimethylphenol	0.49	1.5	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004							
2,4-Dinitrotoluene	0.0013	0.003	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058							
2,6-Dinitrotoluene	0.0013	0.003	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042							
2-Chloronaphthalene	2	5.8	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021							
2-Methylnaphthalene	0.098	0.29	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.0004	<0.00038	<0.0008	<0.0009	<0.0009	<0.0009	<0.0009
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002							
4-Nitrophenol	0.049	0.15	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047							
Acenaphthene	1.5	4.4	<0.000027	<0.000027	<0.000027	<0.000027	<0.000027	<0.000027	<0.0003	<0.00029	<0.0008	<0.0009	<0.0009	<0.0009	0.0017 J
Acenaphthylene	1.5	4.4	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.0003	<0.00029	<0.0007	<0.0005	<0.0005	<0.0005	<0.0005
Anthracene	7.3	22	0.00013	0.0001	0.000093 J	0.000061 J	<0.000014	0.000035 J	<0.0002	<0.00019	<0.0007	<0.0006	<0.0006	<0.0006	<0.0006
Benzo(a)anthracene	0.0091	0.02	<0.00005	<0.00005	<0.000051	<0.00005	<0.00005	<0.00005							
Benzo(a)pyrene	0.0002	0.0002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002							
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003							
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	<0.000037	0.00011 J	<0.000037	<0.000037	<0.000037	<0.000037	<0.0002	0.0002 J	<0.0012	<0.0033	<0.0033	<0.0033	<0.0033
Chrysene	0.91	2	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021							
Dibenzofuran	0.098	0.29	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.0003	<0.00029	<0.0007	<0.0007	<0.0007	<0.0007	<0.0007
Di-n-butylphthalate (DBP)	2.4	7.3	<0.00002	0.000031 J	<0.00002	<0.00002	<0.00002	<0.00002							
Fluoranthene	0.98	2.9	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.0002	<0.00019	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005
Fluorene	0.98	2.9	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.0002	<0.00019	<0.0008	<0.0006	<0.0006	<0.0006	<0.0006
Naphthalene	0.49	1.5	0.00039	0.00008 J	<0.00002	<0.00015	0.00011	<0.00002	<0.0004	<0.00038	<0.0008	<0.0006	<0.0006	<0.0006	<0.0006
Nitrobenzene	0.049	0.15	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024							
N-Nitrosodiphenylamine	0.19	0.42	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025							
Pentachlorophenol	0.001	0.001	<0.000079	<0.000079	<0.00008	<0.000079	<0.000079	<0.000079							
Phenanthrene	0.73	2.2	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.0002	<0.00019	<0.0007	<0.0005	<0.0005	<0.0005	<0.0005
Phenol	7.3	22	<0.000035	<0.000035	<0.000035	<0.000035	<0.000035	<0.000035							
Pyrene	0.73	2.2	<0.000019	0.00004 J	<0.000019	<0.000019	<0.000019	0.000031 J	<0.0002	<0.00019	<0.0009	<0.0005	<0.0005	<0.0005	<0.0005
Metals															
Arsenic	0.01	0.01	0.0012 J	0.00085 J	0.00202	0.000901 J	0.0043	0.00287							

Notes:

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- RAL = Residential Assessment Level, C/I = Commercial/Industrial
- J = Estimated value, < = not detected at the specified detection limit.
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- Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-10A 07/13/2011	MW-10A 01/30/2012	MW-10A 07/10/2012	MW-10A 01/09/2013	MW-10A 07/11/2013	MW-10A 01/08/2014	MW-10A 07/15/2014	MW-10A 01/07/2015	MW-10A 07/07/2015	MW-10A 01/12/2016	MW-10A 07/07/2016	MW-10A 01/11/2017	MW-10A 07/13/2017
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005													
Benzene	0.005	0.005													
Chlorobenzene	0.1	0.1													
Ethylbenzene	0.7	0.7													
Methylene chloride	0.005	0.005													
Toluene	1	1													
Vinyl chloride	0.002	0.002													
Xylenes (total)	10	10													
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026													
2,4-Dimethylphenol	0.49	1.5													
2,4-Dinitrotoluene	0.0013	0.003													
2,6-Dinitrotoluene	0.0013	0.003													
2-Chloronaphthalene	2	5.8													
2-Methylnaphthalene	0.098	0.29	<0.0005	<0.0005	<0.0005	<0.0000667	0.00178	<0.0000648	0.00262 J	<0.0000693	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019
4,6-Dinitro-2-methylphenol	0.0024	0.0073													
4-Nitrophenol	0.049	0.15													
Acenaphthene	1.5	4.4	<0.0005	<0.0005	0.0016 J	<0.0000762	0.0306	<0.0000741	0.0306	0.00272	<0.000027	<0.000027	<0.000027	<0.000028	<0.000027
Acenaphthylene	1.5	4.4	<0.0005	<0.0005	<0.0005	<0.0000571	0.000385 J	<0.0000556	<0.0000566	0.000126 J	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015
Anthracene	7.3	22	<0.0005	<0.0005	<0.0005	0.000468 J	0.00036 J	<0.0000463	<0.0000472	0.000191 J	0.000069 J	<0.000014	0.000073 J	0.000057 J	<0.000014
Benzo(a)anthracene	0.0091	0.02													
Benzo(a)pyrene	0.0002	0.0002													
bis(2-Chloroethoxy)methane	0.00083	0.0019													
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	<0.0005	<0.0005	<0.0005	0.00171	<0.000356	<0.000343	<0.00349	<0.000366	<0.00088	<0.000096	0.000097 J	0.000088 J	<0.000037
Chrysene	0.91	2													
Dibenzofuran	0.098	0.29	<0.0005	<0.0005	<0.0005	<0.0000762	0.00866	<0.0000741	0.00862	0.000349 J	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
Di-n-butylphthalate (DBP)	2.4	7.3													
Fluoranthene	0.98	2.9	<0.0005	<0.0005	<0.0005	<0.0000667	0.000186 J	<0.0000648	<0.000066	<0.0000693	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Fluorene	0.98	2.9	<0.0005	<0.0005	<0.0005	<0.0000667	0.00631	<0.0000648	0.0111	0.000694	<0.00003	<0.00003	<0.00003	<0.000031	<0.00003
Naphthalene	0.49	1.5	<0.0005	<0.0005	<0.0005	<0.0000762	0.199	<0.0000741	0.199	0.000322 J	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
Nitrobenzene	0.049	0.15													
N-Nitrosodiphenylamine	0.19	0.42													
Pentachlorophenol	0.001	0.001													
Phenanthrene	0.73	2.2	<0.0005	<0.0005	<0.0005	<0.0000571	0.00221	<0.0000556	0.00442 J	0.000126 J	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021
Phenol	7.3	22													
Pyrene	0.73	2.2	<0.0005	<0.0005	<0.0005	<0.000105	<0.000106	<0.000102	<0.00104	<0.000109	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019
Metals															
Arsenic	0.01	0.01													

- Notes:
- All values in milligrams per liter (mg/L).
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 - Concentrations > C/I AL and non-detects are highlighted dark gray
 - TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
 - RAL = Residential Assessment Level, C/I = Commercial/Industrial
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**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-10A 01/04/2018	MW-10A 07/18/2018	MW-10A 01/07/2019	MW-10A 07/02/2019	MW-10A 01/14/2020	MW-10A 07/14/2020	MW-10B 01/28/2008	MW-10B 07/16/2008	MW-10B 01/22/2009	MW-10B 07/22/2009	MW-10B 01/21/2010	MW-10B 07/13/2010	MW-10B 01/11/2011
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005													<0.00052
Benzene	0.005	0.005													<0.00025
Chlorobenzene	0.1	0.1													<0.00047
Ethylbenzene	0.7	0.7													<0.00025
Methylene chloride	0.005	0.005													<0.00054
Toluene	1	1													<0.00041
Vinyl chloride	0.002	0.002													
Xylenes (total)	10	10													<0.00127
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026													
2,4-Dimethylphenol	0.49	1.5													
2,4-Dinitrotoluene	0.0013	0.003													
2,6-Dinitrotoluene	0.0013	0.003													
2-Chloronaphthalene	2	5.8													
2-Methylnaphthalene	0.098	0.29	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019							
4,6-Dinitro-2-methylphenol	0.0024	0.0073													
4-Nitrophenol	0.049	0.15													
Acenaphthene	1.5	4.4	<0.000027	<0.000027	<0.000027	<0.000027	0.00011	<0.000027	0.0743	0.0975	0.096	<0.0009	0.052	0.069	0.096
Acenaphthylene	1.5	4.4	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	0.00122	0.00113	<0.0007	<0.0005	<0.0005	<0.0005	<0.0005
Anthracene	7.3	22	<0.000014	<0.000014	0.000065 J	<0.000014	<0.000014	<0.000014	0.00432	0.00484	0.0043 J	0.0029 J	0.0025 J	0.0038 J	0.0068
Benzo(a)anthracene	0.0091	0.02													
Benzo(a)pyrene	0.0002	0.0002													
bis(2-Chloroethoxy)methane	0.00083	0.0019													
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	<0.000057	<0.0001	<0.000089	<0.000037	<0.000037	0.00011 J	<0.00019	0.0002 J	<0.0012	<0.0033	<0.0033	<0.0033	<0.0033
Chrysene	0.91	2													
Dibenzofuran	0.098	0.29	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	0.0255	0.0392	0.035	0.023	0.018	0.025	0.037
Di-n-butylphthalate (DBP)	2.4	7.3							<0.00019	<0.0002	<0.0007	<0.0005	<0.0005	<0.0005	<0.0005
Fluoranthene	0.98	2.9	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.000018 J	0.00371	0.00397	0.0039 J	0.0022 J	0.0017 J	0.0026 J	0.0054
Fluorene	0.98	2.9	<0.00003	<0.00003	0.000038 J	<0.00003	<0.00003	<0.00003	0.0374	0.0457	0.051	<0.0006	0.031	0.041	0.059
Naphthalene	0.49	1.5	<0.00002	<0.00002	<0.00002	0.000043 J	<0.00002	<0.00002	0.0185	0.014	0.0028 J	0.0082	0.0037 J	0.056	0.075
Nitrobenzene	0.049	0.15													
N-Nitrosodiphenylamine	0.19	0.42													
Pentachlorophenol	0.001	0.001													
Phenanthrene	0.73	2.2	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021							
Phenol	7.3	22							<0.00019	<0.0002	<0.0015	<0.0005	<0.0005	<0.0005	<0.0005
Pyrene	0.73	2.2	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	0.00146	0.00174	0.002 J	0.0013 J	<0.0005	0.001 J	0.0023 J
Metals															
Arsenic	0.01	0.01													

- Notes:
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 - Concentrations > C/I AL and non-detects are highlighted dark gray
 - TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
 - RAL = Residential Assessment Level, C/I = Commercial/Industrial
 - J = Estimated value, < = not detected at the specified detection limit.
 - MW-32A was screened in the B-CZ & replaced with MW-32AR
 - Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
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CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-10B 07/13/2011	MW-10B 01/30/2012	MW-10B 07/10/2012	MW-10B 01/09/2013	MW-10B 07/11/2013	MW-10B 10/14/2013	MW-10B 01/08/2014	MW-10B 07/15/2014	MW-10B 01/07/2015	MW-10B 01/29/2015	MW-10B 07/07/2015	MW-10B 01/12/2016	MW-10B 07/07/2016
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005													
Benzene	0.005	0.005													
Chlorobenzene	0.1	0.1													
Ethylbenzene	0.7	0.7													
Methylene chloride	0.005	0.005													
Toluene	1	1													
Vinyl chloride	0.002	0.002													
Xylenes (total)	10	10													
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026													
2,4-Dimethylphenol	0.49	1.5													
2,4-Dinitrotoluene	0.0013	0.003													
2,6-Dinitrotoluene	0.0013	0.003													
2-Chloronaphthalene	2	5.8													
2-Methylnaphthalene	0.098	0.29													
4,6-Dinitro-2-methylphenol	0.0024	0.0073													
4-Nitrophenol	0.049	0.15													
Acenaphthene	1.5	4.4	0.054	0.1	0.054	0.12	0.977		<0.0000741	0.0777	0.166	0.0507	0.084	0.11	0.053
Acenaphthylene	1.5	4.4	<0.0005	0.0011 J	<0.0005	0.00108	0.00986		<0.000536	<0.000566	0.00104	0.000597	0.00048	0.00054	0.00032
Anthracene	7.3	22	0.0033 J	0.0057	0.0032 J	0.00546	0.0391		<0.00107	0.00352 J	0.00702	0.00179	0.003	0.0057	0.0027
Benzo(a)anthracene	0.0091	0.02													
Benzo(a)pyrene	0.0002	0.0002													
bis(2-Chloroethoxy)methane	0.00083	0.0019													
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	0.0013 J	<0.0005	<0.0005	<0.000349	<0.0037		0.000408 J	<0.00349	<0.000366	<0.000366	<0.00014	<0.000037	0.00025
Chrysene	0.91	2													
Dibenzofuran	0.098	0.29	0.019	0.038	0.02	0.0401	0.302	0.0334	<0.00493	0.0258	0.0727	0.0129	0.032	0.049	0.019
Di-n-butylphthalate (DBP)	2.4	7.3	<0.0005	<0.0005	<0.0005	<0.000104	<0.011		0.000275 J	<0.00104	<0.000215	<0.000109	<0.000078	<0.00002	<0.00002
Fluoranthene	0.98	2.9	0.0023 J	0.0046 J	0.0028 J	0.00427	0.0274		<0.000117	0.00211 J	0.00711	0.00117	0.0023	0.0045	0.0023
Fluorene	0.98	2.9	0.032	0.06	0.031	0.0652	0.468		<0.00429	0.0424	0.0975	0.0202	0.047	0.064	0.029
Naphthalene	0.49	1.5	0.0018 J	0.084	0.004 J	0.00399	0.207		0.0646	0.125	0.556	0.0247	0.077	0.1	0.0054
Nitrobenzene	0.049	0.15													
N-Nitrosodiphenylamine	0.19	0.42													
Pentachlorophenol	0.001	0.001													
Phenanthrene	0.73	2.2													
Phenol	7.3	22	<0.0005	<0.0005	<0.0005	<0.0000377	<0.0004		<0.000037	<0.000377	<0.0000396	<0.0000396	<0.000035	<0.000035	<0.000035
Pyrene	0.73	2.2	0.0011 J	0.002 J	0.0011 J	0.00146	0.0101		<0.000102	<0.00104	0.00234	0.000392 J	0.00095	0.0024	0.0009
Metals															
Arsenic	0.01	0.01													

Notes:

- All values in milligrams per liter (mg/L).
- Concentrations > RAL and non-detects are highlighted light gray.
- Concentrations > C/I AL and non-detects are highlighted dark gray
- TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
- RAL = Residential Assessment Level, C/I = Commercial/Industrial
- J = Estimated value, < = not detected at the specified detection limit.
- MW-32A was screened in the B-CZ & replaced with MW-32AR
- Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-10B 01/11/2017	MW-10B 07/13/2017	MW-10B 01/04/2018	MW-10B 07/18/2018	MW-10B 01/07/2019	MW-10B 07/02/2019	MW-10B 01/14/2020	MW-10B 07/14/2020	MW-11A 01/28/2008	MW-11A 07/16/2008	MW-11A 01/22/2009	MW-11A 07/22/2009	MW-11A 01/21/2010
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005													<0.00052
Benzene	0.005	0.005													<0.00025
Chlorobenzene	0.1	0.1													<0.00047
Ethylbenzene	0.7	0.7													<0.00025
Methylene chloride	0.005	0.005													<0.00054
Toluene	1	1													<0.00041
Vinyl chloride	0.002	0.002													
Xylenes (total)	10	10													<0.00127
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026													
2,4-Dimethylphenol	0.49	1.5													
2,4-Dinitrotoluene	0.0013	0.003													
2,6-Dinitrotoluene	0.0013	0.003													
2-Chloronaphthalene	2	5.8													
2-Methylnaphthalene	0.098	0.29									<0.00038	<0.0004	<0.0008	<0.0009	<0.0009
4,6-Dinitro-2-methylphenol	0.0024	0.0073													
4-Nitrophenol	0.049	0.15													
Acenaphthene	1.5	4.4	0.12	0.051	0.093	0.056	0.07	0.042	0.069	0.029	0.0346	0.02	0.0076	<0.0009	<0.0009
Acenaphthylene	1.5	4.4	0.00065	0.00033	0.00068	0.00053	0.00059	0.00031	0.00066	0.00028	<0.00029	<0.0003	<0.0007	<0.0005	<0.0005
Anthracene	7.3	22	0.0056	0.0023	0.0052	0.0024	0.0041	0.0012	0.0028	0.00094	0.000798	0.00054	<0.0007	<0.0006	<0.0006
Benzo(a)anthracene	0.0091	0.02													
Benzo(a)pyrene	0.0002	0.0002													
bis(2-Chloroethoxy)methane	0.00083	0.0019													
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	0.00022	0.00028	<0.000059	<0.000064	0.00035	<0.000037	0.0002	0.00016 J	0.00028 J	<0.0002	<0.0012	<0.0033	<0.0033
Chrysene	0.91	2													
Dibenzofuran	0.098	0.29	0.052	0.021	0.048	0.021	0.028	0.013	0.022	0.0067	0.00276	<0.0003	<0.0007	<0.0007	<0.0007
Di-n-butylphthalate (DBP)	2.4	7.3	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	0.000065 J					
Fluoranthene	0.98	2.9	0.0047	0.0022	0.0053	0.0022	0.0038	0.0012	0.0029	0.0015	0.00338	0.00387	0.0012 J	0.0011 J	<0.0005
Fluorene	0.98	2.9	0.068	0.034	0.06	0.031	0.04	0.018	0.036	0.014	0.0069	0.00089	<0.0008	<0.0006	<0.0006
Naphthalene	0.49	1.5	0.021	0.0033	0.0013	0.00074	0.00056	0.00023	0.0021	<0.00066	<0.00038	<0.0004	<0.0008	<0.0006	<0.0006
Nitrobenzene	0.049	0.15													
N-Nitrosodiphenylamine	0.19	0.42													
Pentachlorophenol	0.001	0.001													
Phenanthrene	0.73	2.2									0.00036 J	<0.0002	<0.0007	<0.0005	<0.0005
Phenol	7.3	22	<0.000035	<0.000035	<0.000035	<0.000035	<0.000035	<0.000035	<0.000035	<0.000035					
Pyrene	0.73	2.2	0.0022	0.00087	0.0019	0.00088	0.0018	0.00049	0.0013	0.00069	0.00191	0.00184	<0.0009	<0.0005	<0.0005
Metals															
Arsenic	0.01	0.01													

Notes:

- All values in milligrams per liter (mg/L).
- Concentrations > RAL and non-detects are highlighted light gray.
- Concentrations > C/I AL and non-detects are highlighted dark gray
- TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
- RAL = Residential Assessment Level, C/I = Commercial/Industrial
- J = Estimated value, < = not detected at the specified detection limit.
- MW-32A was screened in the B-CZ & replaced with MW-32AR
- Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-11A 07/13/2010	MW-11A 01/11/2011	MW-11A 07/12/2011	MW-11A 01/30/2012	MW-11A 07/10/2012	MW-11A 01/09/2013	MW-11A 07/11/2013	MW-11A 01/08/2014	MW-11A 07/02/2014	MW-11A 01/07/2015	MW-11A 07/07/2015	MW-11A 01/12/2016	MW-11A 07/07/2016
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005													
Benzene	0.005	0.005													
Chlorobenzene	0.1	0.1													
Ethylbenzene	0.7	0.7													
Methylene chloride	0.005	0.005													
Toluene	1	1													
Vinyl chloride	0.002	0.002													
Xylenes (total)	10	10													
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026													
2,4-Dimethylphenol	0.49	1.5													
2,4-Dinitrotoluene	0.0013	0.003													
2,6-Dinitrotoluene	0.0013	0.003													
2-Chloronaphthalene	2	5.8													
2-Methylnaphthalene	0.098	0.29	<0.0009	<0.0009	<0.0005	<0.0005	<0.0005	<0.000066	<0.0000673	<0.0000648	<0.000066	<0.0000673	<0.000019	<0.000019	<0.000019
4,6-Dinitro-2-methylphenol	0.0024	0.0073													
4-Nitrophenol	0.049	0.15													
Acenaphthene	1.5	4.4	0.0028 J	<0.0009	<0.0005	<0.0005	<0.0005	0.00175	0.000878	<0.0000741	0.00427	0.000471 J	0.00025	<0.000027	0.0001
Acenaphthylene	1.5	4.4	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0000566	<0.0000577	<0.0001	0.000185 J	<0.0000577	<0.000015	<0.000015	<0.000015
Anthracene	7.3	22	<0.0006	<0.0006	<0.0005	<0.0005	<0.0005	0.000499	0.00044 J	<0.00125	0.00126	0.000399 J	0.00017	0.0001	0.00026
Benzo(a)anthracene	0.0091	0.02													
Benzo(a)pyrene	0.0002	0.0002													
bis(2-Chloroethoxy)methane	0.00083	0.0019													
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	<0.0033	<0.0033	<0.0005	<0.0005	<0.0005	<0.000349	<0.000356	0.00046 J	0.00516	<0.000356	<0.00068	<0.000073	0.00038
Chrysene	0.91	2													
Dibenzofuran	0.098	0.29	<0.0007	<0.0007	<0.0005	<0.0005	<0.0005	<0.0000755	<0.0000769	<0.0000741	0.000618	<0.0000769	0.00012	<0.00002	<0.00002
Di-n-butylphthalate (DBP)	2.4	7.3									0.000109 J				
Fluoranthene	0.98	2.9	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.000066	0.000221 J	<0.0000795	0.00215	<0.0000673	0.00028	<0.00001	0.00065
Fluorene	0.98	2.9	<0.0006	<0.0006	<0.0005	<0.0005	<0.0005	<0.000066	<0.0000673	<0.0000648	0.00149	<0.0000673	0.00011	<0.00003	0.00013
Naphthalene	0.49	1.5	<0.0006	<0.0006	<0.0005	<0.0005	<0.0005	<0.0000755	<0.0000769	<0.0000741	0.000343 J	<0.0000769	<0.00002	<0.00002	<0.00002
Nitrobenzene	0.049	0.15													
N-Nitrosodiphenylamine	0.19	0.42													
Pentachlorophenol	0.001	0.001													
Phenanthrene	0.73	2.2	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0000566	<0.0000577	<0.0000556	0.000384 J	<0.0000577	<0.000021	<0.000021	<0.000021
Phenol	7.3	22									<0.0000377				
Pyrene	0.73	2.2	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.000104	0.000115 J	<0.000102	0.00194	<0.000106	0.00023	<0.000019	0.00073
Metals															
Arsenic	0.01	0.01													

- Notes:
- All values in milligrams per liter (mg/L).
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 - TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
 - RAL = Residential Assessment Level, C/I = Commercial/Industrial
 - J = Estimated value, < = not detected at the specified detection limit.
 - MW-32A was screened in the B-CZ & replaced with MW-32AR
 - Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-11A 01/11/2017	MW-11A 07/12/2017	MW-11A 01/03/2018	MW-11A 07/18/2018	MW-11A 01/07/2019	MW-11A 07/02/2019	MW-11A 01/14/2020	MW-11A 07/14/2020	MW-11B 01/28/2008	MW-11B 07/16/2008	MW-11B 01/22/2009	MW-11B 07/22/2009	MW-11B 01/21/2010
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005												<0.00052	
Benzene	0.005	0.005												<0.00025	
Chlorobenzene	0.1	0.1												<0.00047	
Ethylbenzene	0.7	0.7												<0.00025	
Methylene chloride	0.005	0.005												<0.00054	
Toluene	1	1												<0.00041	
Vinyl chloride	0.002	0.002													
Xylenes (total)	10	10												<0.00127	
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026													
2,4-Dimethylphenol	0.49	1.5													
2,4-Dinitrotoluene	0.0013	0.003													
2,6-Dinitrotoluene	0.0013	0.003													
2-Chloronaphthalene	2	5.8													
2-Methylnaphthalene	0.098	0.29	<0.00002	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019					
4,6-Dinitro-2-methylphenol	0.0024	0.0073													
4-Nitrophenol	0.049	0.15													
Acenaphthene	1.5	4.4	<0.000028	<0.000027	<0.000027	0.0017	<0.000027	0.00025	<0.000027	<0.000027	0.0649	0.12	0.072	0.12	0.048
Acenaphthylene	1.5	4.4	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.00028	0.00126	<0.0007	0.0015 J	0.0013 J
Anthracene	7.3	22	0.00021	<0.000014	<0.000014	0.00019	0.00013	0.000097 J	<0.000014	<0.000014	0.00236	0.00472	0.0022 J	0.0043 J	0.0011 J
Benzo(a)anthracene	0.0091	0.02													
Benzo(a)pyrene	0.0002	0.0002													
bis(2-Chloroethoxy)methane	0.00083	0.0019													
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	0.00025	0.00017 J	<0.000073	0.0007	<0.000075	<0.00007	<0.000037	<0.000037	0.00021 J	<0.00021	<0.0012	<0.0033	<0.0033
Chrysene	0.91	2													
Dibenzofuran	0.098	0.29	<0.000021	<0.00002	<0.00002	0.00027	<0.00002	<0.00002	<0.00002	<0.00002	0.0273	0.0649	0.031	0.054	0.012
Di-n-butylphthalate (DBP)	2.4	7.3									<0.00019	<0.00021	<0.0007	<0.0005	<0.0005
Fluoranthene	0.98	2.9	0.000049 J	0.00015	<0.00001	0.00023	<0.00001	0.000018 J	<0.00001	<0.00001	0.00175	0.00383	0.0018 J	0.0036 J	0.0014 J
Fluorene	0.98	2.9	<0.000031	<0.00003	<0.00003	0.00083	<0.00003	<0.00003	<0.00003	<0.00003	0.0297	0.0578	0.032	0.053	0.013
Naphthalene	0.49	1.5	<0.000021	<0.00002	<0.00002	0.00012	<0.00002	0.000041 J	<0.00002	<0.00002	0.0354	0.0772	<0.0008	0.048	<0.0006
Nitrobenzene	0.049	0.15													
N-Nitrosodiphenylamine	0.19	0.42													
Pentachlorophenol	0.001	0.001													
Phenanthrene	0.73	2.2	0.000067 J	<0.000021	<0.000021	0.000086 J	<0.000021	<0.000021	<0.000021	<0.000021					
Phenol	7.3	22									<0.00019	<0.00021	<0.0015	<0.0005	<0.0005
Pyrene	0.73	2.2	<0.00002	<0.000019	<0.000019	0.00022	<0.000019	0.000031 J	<0.000019	<0.000019	0.000848	0.00163	<0.0009	0.002 J	<0.0005
Metals															
Arsenic	0.01	0.01													

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 - Concentrations > C/I AL and non-detects are highlighted dark gray
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 - RAL = Residential Assessment Level, C/I = Commercial/Industrial
 - J = Estimated value, < = not detected at the specified detection limit.
 - MW-32A was screened in the B-CZ & replaced with MW-32AR
 - Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-11B 07/13/2010	MW-11B 01/11/2011	MW-11B 07/12/2011	MW-11B 01/30/2012	MW-11B 07/10/2012	MW-11B 01/09/2013	MW-11B 07/11/2013	MW-11B 01/08/2014	MW-11B 07/02/2014	MW-11B 01/07/2015	MW-11B 07/07/2015	MW-11B 01/12/2016	MW-11B 07/07/2016
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005													
Benzene	0.005	0.005													
Chlorobenzene	0.1	0.1													
Ethylbenzene	0.7	0.7													
Methylene chloride	0.005	0.005													
Toluene	1	1													
Vinyl chloride	0.002	0.002													
Xylenes (total)	10	10													
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026													
2,4-Dimethylphenol	0.49	1.5													
2,4-Dinitrotoluene	0.0013	0.003													
2,6-Dinitrotoluene	0.0013	0.003													
2-Chloronaphthalene	2	5.8													
2-Methylnaphthalene	0.098	0.29									0.0131				
4,6-Dinitro-2-methylphenol	0.0024	0.0073													
4-Nitrophenol	0.049	0.15													
Acenaphthene	1.5	4.4	0.11	0.039	0.084	0.025	0.1	0.0631	0.108	<0.00037	0.0953	0.0472	0.057	<0.000027	0.039
Acenaphthylene	1.5	4.4	<0.0005	0.0012 J	0.0012 J	0.0011 J	0.0013 J	0.00136	0.00119	<0.00102	0.00166	0.00113	0.00065	<0.000015	0.00031
Anthracene	7.3	22	0.0055	<0.0006	0.0054	<0.0005	0.0055	0.000168 J	0.00321	<0.00242	0.00375	0.000945	0.0025	0.00011	0.0018
Benzo(a)anthracene	0.0091	0.02													
Benzo(a)pyrene	0.0002	0.0002													
bis(2-Chloroethoxy)methane	0.00083	0.0019													
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	<0.0033	<0.0033	<0.0005	<0.0005	<0.0005	0.00195	<0.000356	0.000493 J	<0.000349	<0.000356	<0.00019	<0.00019	0.00018 J
Chrysene	0.91	2													
Dibenzofuran	0.098	0.29	0.048	0.006	0.038	<0.0005	0.04	0.00352	0.0231	<0.0111	0.0199	0.00472	0.014	<0.00002	0.0082
Di-n-butylphthalate (DBP)	2.4	7.3	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.000104	<0.000106	0.000317 J	0.000109 J	<0.000106	<0.000044	<0.00002	<0.00002
Fluoranthene	0.98	2.9	0.0046 J	0.0015 J	0.0046 J	0.0013 J	0.0053	0.00307	0.00383	<0.00267	0.00417	0.00201	0.0034	0.00011	0.0025
Fluorene	0.98	2.9	0.056	0.0038 J	0.046	<0.0005	0.054	0.00205	0.0388	<0.0195	0.0339	0.00867	0.025	<0.00003	0.019
Naphthalene	0.49	1.5	0.0068	<0.0006	0.06	<0.0005	0.004 J	<0.0000755	0.00535	0.000382 J	0.0135	<0.0000769	0.0021	<0.00002	0.0082
Nitrobenzene	0.049	0.15													
N-Nitrosodiphenylamine	0.19	0.42													
Pentachlorophenol	0.001	0.001													
Phenanthrene	0.73	2.2									0.012				
Phenol	7.3	22	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0000377	<0.0000385	<0.000037	<0.0000377	<0.0000385	<0.000035	<0.000035	<0.000035
Pyrene	0.73	2.2	0.0022 J	<0.0005	0.0024 J	<0.0005	0.0024 J	0.00154	0.00196	<0.00126	0.00213	0.000935	0.0017	0.00032	0.0012
Metals															
Arsenic	0.01	0.01													

Notes:

- All values in milligrams per liter (mg/L).
- Concentrations > RAL and non-detects are highlighted light gray.
- Concentrations > C/I AL and non-detects are highlighted dark gray
- TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
- RAL = Residential Assessment Level, C/I = Commercial/Industrial
- J = Estimated value, < = not detected at the specified detection limit.
- MW-32A was screened in the B-CZ & replaced with MW-32AR
- Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-11B 01/11/2017	MW-11B 07/12/2017	MW-11B 01/03/2018	MW-11B 07/18/2018	MW-11B 01/07/2019	MW-11B 07/02/2019	MW-11B 07/30/2019	MW-11B 10/17/2019	MW-11B 01/14/2020	MW-11B 07/14/2020	MW-12A 01/30/2008	MW-12A 07/15/2008	MW-12A 02/04/2009
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005											<0.00052	<0.00052	<0.0005
Benzene	0.005	0.005											<0.00025	<0.00025	0.00073 J
Chlorobenzene	0.1	0.1											<0.00047	<0.00047	<0.0005
Ethylbenzene	0.7	0.7											0.00718	<0.00025	0.0059
Methylene chloride	0.005	0.005											<0.00054	<0.00054	<0.0005
Toluene	1	1											<0.00041	<0.00041	0.00079 J
Vinyl chloride	0.002	0.002													
Xylenes (total)	10	10											0.0105 J	<0.00127	0.012 J
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026											<0.00008	<0.00008	<0.0001
2,4-Dimethylphenol	0.49	1.5											<0.0003	<0.00029	<0.00008
2,4-Dinitrotoluene	0.0013	0.003											<0.0002	<0.00019	<0.00009
2,6-Dinitrotoluene	0.0013	0.003											<0.0002	<0.00019	<0.00007
2-Chloronaphthalene	2	5.8											<0.0004	<0.00039	<0.00012
2-Methylnaphthalene	0.098	0.29											0.174	0.332	0.22
4,6-Dinitro-2-methylphenol	0.0024	0.0073											<0.0002	<0.00049	<0.00008
4-Nitrophenol	0.049	0.15											<0.00025	<0.00024	<0.00007
Acenaphthene	1.5	4.4	<0.000027	0.043	<0.000027	0.074	0.015	0.13			0.033	0.067	0.173	0.331	0.25
Acenaphthylene	1.5	4.4	<0.000015	0.00032	<0.000015	0.00063	0.00054	0.0013			0.0016	0.00094	<0.0003	0.00276	0.0036
Anthracene	7.3	22	0.00011	0.0022	0.0001	0.0037	0.00021	0.0045			<0.000014	0.0037	0.0103	0.0137	0.0099
Benzo(a)anthracene	0.0091	0.02											0.00028 J	0.00026 J	<0.00007
Benzo(a)pyrene	0.0002	0.0002											<0.0002	<0.00019	<0.00008
bis(2-Chloroethoxy)methane	0.00083	0.0019											<0.0004	<0.00039	<0.00009
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	0.00017 J	<0.000037	<0.0001	<0.000037	<0.000085	<0.00026				0.000095 J	0.000064 J	0.0013 J	0.00033 J
Chrysene	0.91	2											0.00024 J	0.00021 J	<0.00007
Dibenzofuran	0.098	0.29	0.000055 J	0.0055	<0.00002	0.032	<0.00002	0.051				<0.00002	0.024	0.125	0.212
Di-n-butylphthalate (DBP)	2.4	7.3	<0.00002	<0.00002	<0.000045	<0.00002	<0.00002	<0.00002				<0.00002	<0.00002	<0.0002	<0.00007
Fluoranthene	0.98	2.9	0.00021	0.0029	<0.00001	0.0043	0.0025	0.005				0.0024	0.0045	0.00693	0.0123
Fluorene	0.98	2.9	<0.00003	0.025	<0.00003	0.048	0.00015	0.061				0.00035	0.035	0.112	0.475
Naphthalene	0.49	1.5	<0.00002	0.0019	<0.00002	0.34	<0.00002	0.7	1.1	0.6		<0.00002	0.3	2.27	1.47
Nitrobenzene	0.049	0.15											<0.0004	<0.00039	<0.00009
N-Nitrosodiphenylamine	0.19	0.42											<0.00025	<0.00024	<0.00009
Pentachlorophenol	0.001	0.001											<0.0002	<0.00019	<0.00008
Phenanthrene	0.73	2.2											0.0833	0.372	0.1
Phenol	7.3	22	<0.000035	<0.000035	<0.000035	<0.000035	<0.000035	<0.000035				<0.000035	<0.000035	<0.0002	<0.00019
Pyrene	0.73	2.2	0.00013	0.0015	<0.000019	0.0023	0.0017	0.0027				0.0023	0.0027	0.00358	0.00518
Metals															
Arsenic	0.01	0.01													

- Notes:
- All values in milligrams per liter (mg/L).
 - Concentrations > RAL and non-detects are highlighted light gray.
 - Concentrations > C/I AL and non-detects are highlighted dark gray
 - TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
 - RAL = Residential Assessment Level, C/I = Commercial/Industrial
 - J = Estimated value, < = not detected at the specified detection limit.
 - MW-32A was screened in the B-CZ & replaced with MW-32AR
 - Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS

	Residential Assessment Level	C/I PCL	MW-12A 01/19/2010	MW-12A 06/22/2010	MW-12A 01/18/2011	MW-12A 07/26/2011	MW-12A 02/01/2012	MW-12A 07/19/2012	MW-12A 02/05/2013	MW-12A 07/31/2013	MW-12A 01/14/2014	MW-12A 07/25/2014	MW-12A 01/23/2018	MW-12A 03/19/2018	MW-12A 05/16/2018
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0025	<0.00014	<0.00014	<0.00014	<0.00014	<0.0002	<0.0002	<0.0002
Benzene	0.005	0.005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0025	0.000237 J	0.0000957 J	0.00048 J	0.000122 J	<0.0002	<0.0002	<0.0002
Chlorobenzene	0.1	0.1	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0025	<0.00012	<0.00012	<0.00012	<0.00012	<0.0003	<0.0003	<0.0003
Ethylbenzene	0.7	0.7	0.0029 J	0.00056 J	0.0014 J	0.0015 J	0.0042 J	<0.0025	0.000521 J	0.000774 J	0.000257 J	0.000403 J	<0.0003	<0.0003	<0.0003
Methylene chloride	0.005	0.005	<0.0005	<0.0005	<0.0005	<0.0013	<0.0013	0.0087 J	<0.00015	<0.00015	<0.00015	<0.00015	<0.001	<0.001	<0.001
Toluene	1	1	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0025	<0.00015	<0.000166	<0.00015	<0.00015	<0.0002	<0.0002	<0.0002
Vinyl chloride	0.002	0.002						<0.00011				<0.00011			
Xylenes (total)	10	10	0.0056 J	0.0026 J	0.0025 J	<0.0031	0.0048 J	<0.0075	0.00197 J	0.00217 J	0.00145 J	0.00165 J	0.0023	0.00076 J	0.00076 J
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.0001	<0.0001	<0.0001	<0.00005	<0.00005	<0.00005	<0.000104	<0.000105	<0.00529	<0.000107	<0.000021	<0.000021	<0.000021
2,4-Dimethylphenol	0.49	1.5	<0.00008	<0.00008	0.0001 J	<0.00005	<0.00005	0.000056 J	<0.000292	<0.000295	<0.0149	<0.000301	<0.00004	<0.00004	<0.00004
2,4-Dinitrotoluene	0.0013	0.003	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.000123	<0.000124	<0.00625	<0.000126	<0.000058	<0.000058	<0.000058
2,6-Dinitrotoluene	0.0013	0.003	<0.00007	<0.00007	<0.00007	<0.00006	<0.00006	<0.0000755	<0.0000762	<0.0000762	<0.00385	<0.0000777	<0.000042	<0.000042	<0.000042
2-Chloronaphthalene	2	5.8	<0.0001	<0.0001	<0.0001	<0.00005	<0.00005	<0.00005	<0.0000755	<0.0000762	<0.00385	<0.0000777	<0.000021	<0.000021	<0.000021
2-Methylnaphthalene	0.098	0.29	0.15	0.15	0.033	0.014	0.061	0.17	0.0477	0.306	0.0386	0.121	0.067	0.008	0.005
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.000783	<0.00079	<0.0399	<0.000806	<0.00002	<0.00002	<0.00002	<0.00002
4-Nitrophenol	0.049	0.15	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.000528	<0.000533	<0.0269	<0.000544	<0.000047	<0.000047	<0.000047
Acenaphthene	1.5	4.4	0.19	0.21	0.19	0.038	0.13	0.2	0.253	0.428	0.342	0.292	0.26	0.23	0.17
Acenaphthylene	1.5	4.4	0.0026	0.0019	0.0016	<0.00005	0.0015	0.0015	<0.0000566	<0.0000571	<0.00288	0.00225	<0.000015	0.0017	0.0015
Anthracene	7.3	22	0.0093	0.011	0.012	0.0017	0.028	0.023	0.0179	0.0222	0.0325	0.0179	0.016	0.019	0.014
Benzo(a)anthracene	0.0091	0.02	<0.00007	<0.00007	0.00082	<0.00005	<0.00005	0.00011 J	0.000221 J	0.000226 J	<0.00385	0.000268 J	0.00016	0.00026	0.00011
Benzo(a)pyrene	0.0002	0.0002	<0.00008	<0.00008	0.0003	<0.00005	<0.00005	<0.00005	<0.0000755	<0.0000762	<0.00385	<0.0000777	<0.00002	<0.00002	<0.00002
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.000123	<0.000124	<0.00625	<0.000126	<0.00003	<0.00003	<0.00003
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	0.0006	<0.0002	0.00036	0.00017 J	<0.00027	<0.00012	<0.000349	<0.000352	<0.0178	0.000679	<0.00011	0.0002 J	0.00013 J
Chrysene	0.91	2	<0.00007	<0.00007	0.00074	<0.00005	<0.00005	0.00013 J	0.000186 J	0.000231 J	<0.00385	0.000241 J	0.00015	0.00022	0.00011
Dibenzofuran	0.098	0.29	0.14	0.18	0.15	0.025	0.13	0.16	0.17	0.317	0.22	0.193	0.2	0.15	0.11
Di-n-butylphthalate (DBP)	2.4	7.3	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.000104	<0.00024	<0.00529	0.000797	<0.00002	<0.00002	<0.00002
Fluoranthene	0.98	2.9	0.0059	0.0064	0.0086	0.0017	0.0031	0.007	0.0111	0.0181	0.018 J	0.0132	0.013	0.0097	0.0084
Fluorene	0.98	2.9	0.13	0.16	0.14	0.025	0.067	0.15	0.17	0.316	0.245	0.202	0.21	0.17	0.13
Naphthalene	0.49	1.5	1.7	0.6	0.22	0.05	1.5	0.36	0.0828 J	0.661	0.0338 J	0.075	0.012	0.0014	<0.0021
Nitrobenzene	0.049	0.15	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.000104	<0.000105	<0.00529	<0.000107	<0.000024	<0.000024	<0.000024
N-Nitrosodiphenylamine	0.19	0.42	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.0000943	<0.0000952	<0.00481	<0.0000971	<0.000025	<0.000025	<0.000025
Pentachlorophenol	0.001	0.001	<0.00008	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005	<0.0000575	<0.0000581	<0.0293	<0.000592	<0.000079	<0.000079	<0.000079
Phenanthrene	0.73	2.2	0.087	0.091	0.061	0.015	0.078	0.12	0.13	0.234	0.192	0.162	0.13	0.13	0.093
Phenol	7.3	22	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	0.000101 J	<0.0000381	<0.00192	<0.0000388	<0.000035	<0.000035	<0.000035
Pyrene	0.73	2.2	0.0029	0.0025	0.0044	0.00068	0.0026	0.0036	0.00515	0.00818	0.00759 J	0.00649	0.0064	0.0049	0.0042
Metals															
Arsenic	0.01	0.01											0.017	0.00133 J	0.00093 J

Notes:

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**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-12A 01/09/2019	MW-12A 07/11/2019	MW-12A 01/13/2020	MW-12A 07/17/2020	MW-12B 01/31/2008 DNAPL	MW-12B 01/23/2020 DNAPL	MW-12B 07/29/2020 DNAPL	MW-12C 01/30/2008	MW-12C 07/15/2008	MW-12C 02/04/2009	MW-12C 01/19/2010	MW-12C 06/22/2010	MW-12C 01/18/2011
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.0002	<0.0002	<0.0002	<0.0002	<0.00052	<0.005	<0.0002	<0.00052	<0.00052	<0.0005	<0.0005	<0.0005	<0.0005
Benzene	0.005	0.005	<0.0002	<0.0002	<0.0002	<0.0002	0.00344 J	0.03	0.0027	<0.00025	<0.00025	<0.0005	<0.0005	<0.0005	<0.0005
Chlorobenzene	0.1	0.1	<0.0003	<0.0003	<0.0003	<0.0003	<0.00047	<0.0075	<0.0003	<0.00047	<0.00047	<0.0005	<0.0005	<0.0005	<0.0005
Ethylbenzene	0.7	0.7	<0.0003	<0.0003	<0.0003	<0.0003	0.0125	0.014 J	0.012	<0.00025	<0.00025	<0.0005	<0.0005	<0.0005	<0.0005
Methylene chloride	0.005	0.005	<0.001	<0.001	<0.001	<0.001	<0.00054	<0.025	<0.001	<0.00054	<0.00054	<0.0005	<0.0005	<0.0005	<0.0005
Toluene	1	1	<0.0002	<0.0002	<0.0002	<0.0002	0.00515	<0.005	0.0025	<0.00041	<0.00041	<0.0005	<0.0005	<0.0005	<0.0005
Vinyl chloride	0.002	0.002						<0.005							
Xylenes (total)	10	10	<0.0003	0.0006 J	<0.0003	<0.0003	0.0264	<0.0075	0.019	<0.00127	<0.00127	<0.001	<0.001	<0.001	<0.001
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.000021	<0.000021	<0.000021	<0.000021	<0.0008	<0.0021	<0.00021	<0.00008	<0.00008	<0.0001	<0.0001	<0.0001	<0.0001
2,4-Dimethylphenol	0.49	1.5	<0.00004	<0.00004	<0.00004	<0.00004	<0.0029	<0.004	<0.0004	<0.00031	<0.00032	<0.00008	<0.00008	<0.00008	<0.00008
2,4-Dinitrotoluene	0.0013	0.003	<0.000058	<0.000058	<0.000058	<0.000058	<0.0019	<0.0058	<0.00058	<0.0002	<0.00021	<0.00009	<0.00009	<0.00009	<0.00009
2,6-Dinitrotoluene	0.0013	0.003	<0.000042	<0.000042	<0.000042	<0.000042	<0.0019	<0.0042	<0.00051 J	<0.0002	<0.00021	<0.00007	<0.00007	<0.00007	<0.00007
2-Chloronaphthalene	2	5.8	<0.000021	<0.000021	<0.000021	<0.000021	<0.0038	<0.0021	<0.00021	<0.00041	<0.00042	<0.00012	<0.0001	<0.0001	<0.0001
2-Methylnaphthalene	0.098	0.29	<0.000019	0.013	0.0023	0.012	0.508	320 J	0.84	<0.00041	<0.00042	0.00045	0.00024	0.00011 J	0.00012 J
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00002	<0.00002	<0.00002	<0.00002	<0.0019	<0.002	<0.0002	<0.0002	<0.00053	<0.00008	<0.00008	<0.00008	<0.00008
4-Nitrophenol	0.049	0.15	<0.000047	<0.000047	<0.000047	<0.000047	<0.0024	<0.0047	<0.00047	<0.00026	<0.00026	<0.00007	<0.00007	<0.00007	<0.00007
Acenaphthene	1.5	4.4	<0.000027	0.19	0.28	0.093	0.336	350	0.82	<0.00031	<0.00032	0.00052	0.00019 J	<0.00009	0.00012 J
Acenaphthylene	1.5	4.4	<0.000015	0.0013	0.0012	0.00096	0.0127	5.7	0.015	<0.00031	<0.00032	<0.00006	<0.00007	<0.00007	<0.00007
Anthracene	7.3	22	<0.000014	0.0087	0.0097	0.0076	0.0267	160	0.4	<0.0002	<0.00021	<0.00007	<0.00007	<0.00007	<0.00007
Benzo(a)anthracene	0.0091	0.02	<0.00005	0.00041	0.00015	0.00015	0.00746	79	0.23	<0.0002	<0.00021	<0.00007	<0.00007	<0.00007	<0.00007
Benzo(a)pyrene	0.0002	0.0002	<0.00002	0.00012	<0.00002	0.000051 J	<0.0019	22	0.041	<0.0002	<0.00021	<0.00008	<0.00008	<0.00008	<0.00008
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00003	<0.00003	<0.00003	<0.00003	<0.0038	<0.003	<0.0003	<0.00041	<0.00042	<0.00009	<0.00009	<0.00009	<0.00009
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	<0.000037	0.00031	0.00011 J	<0.00013	<0.0019	<0.0037	<0.00037	0.00114 J	<0.00021	0.0003	0.00077	<0.00099	<0.0002
Chrysene	0.91	2	<0.000021	0.00034	0.00015	0.00015	0.00596	64	0.19	<0.0002	<0.00021	<0.00007	<0.00007	<0.00007	<0.00007
Dibenzofuran	0.098	0.29	0.000031 J	0.14	0.23	0.064	0.204	320	0.76	<0.00031	<0.00032	0.0004	0.00014 J	<0.00008	0.00011 J
Di-n-butylphthalate (DBP)	2.4	7.3	<0.00002	<0.00002	<0.00002	<0.000042	<0.0019	<0.002	<0.0002	<0.0002	<0.00021	<0.00007	<0.00007	<0.00007	<0.00007
Fluoranthene	0.98	2.9	<0.00001	0.0097	0.0067	0.0089	0.0508	520	1.2	<0.0002	<0.00021	<0.00007	<0.00007	<0.00007	<0.00007
Fluorene	0.98	2.9	<0.00003	0.16	0.28	0.078	0.196	420	0.96	<0.0002	<0.00021	0.00037	0.00014 J	<0.00007	0.000099 J
Naphthalene	0.49	1.5	<0.00026	<0.0012	<0.00051	0.00048	5.55	760	2.4	0.000734	0.000833	0.003	0.0017	<0.00046	0.00099
Nitrobenzene	0.049	0.15	<0.000024	<0.000024	<0.000024	<0.000024	<0.0038	<0.0024	<0.00024	<0.00041	<0.00042	<0.00009	<0.00009	<0.00009	<0.00009
N-Nitrosodiphenylamine	0.19	0.42	<0.000025	<0.000025	<0.000025	<0.000025	<0.0024	<0.0025	<0.00025	<0.00026	<0.00026	<0.00009	<0.00009	<0.00009	<0.00009
Pentachlorophenol	0.001	0.001	<0.000079	<0.000079	<0.000079	<0.000079	<0.0019	<0.0079	<0.00079	<0.0002	<0.00021	<0.00008	<0.00008	<0.00008	0.00015 J
Phenanthrene	0.73	2.2	<0.000021	0.063	0.082	0.041	0.322	1200	2.6	<0.0002	<0.00021	0.00048	0.00015 J	<0.00007	0.00011 J
Phenol	7.3	22	<0.000035	<0.000035	<0.000035	<0.000035	<0.0019	<0.0035	<0.00035	<0.0002	<0.00021	<0.00007	<0.00007	<0.00007	<0.00007
Pyrene	0.73	2.2	<0.000019	0.0047	0.0031	0.0044	0.033	330	0.74	<0.0002	<0.00021	<0.00007	<0.00007	<0.00007	<0.00007
Metals															
Arsenic	0.01	0.01	0.00192 J	0.00192 J	0.00134 J	<0.0004		0.0491 J	0.0195						

Notes:

- All values in milligrams per liter (mg/L).
- Concentrations > RAL and non-detects are highlighted light gray.
- Concentrations > C/I AL and non-detects are highlighted dark gray
- TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
- RAL = Residential Assessment Level, C/I = Commercial/Industrial
- J = Estimated value, < = not detected at the specified detection limit.
- MW-32A was screened in the B-CZ & replaced with MW-32AR
- Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-12C 07/26/2011	MW-12C 02/01/2012	MW-12C 07/19/2012	MW-12C 02/05/2013	MW-12C 07/31/2013	MW-12C 01/14/2014	MW-12C 07/25/2014	MW-12C 01/23/2018	MW-12C 03/19/2018	MW-12C 05/16/2018	MW-12C 01/09/2019	MW-12C 07/11/2019	MW-12C 01/13/2020
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.001	<0.001	<0.0005	<0.00014	<0.00014	<0.00014	<0.00014	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Benzene	0.005	0.005	<0.001	<0.001	<0.0005	<0.00008	<0.00008	<0.00008	<0.00008	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Chlorobenzene	0.1	0.1	<0.001	<0.001	<0.0005	<0.00012	<0.00012	<0.00012	<0.00012	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Ethylbenzene	0.7	0.7	<0.0011	<0.0011	<0.0005	<0.000145	<0.00011	<0.00011	<0.00011	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Methylene chloride	0.005	0.005	<0.0013	<0.0013	<0.001	<0.00015	<0.00015	<0.00015	<0.00015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Toluene	1	1	<0.001	<0.001	<0.0005	<0.00015	<0.00015	<0.00015	<0.00015	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Vinyl chloride	0.002	0.002				<0.00011			<0.00011						
Xylenes (total)	10	10	<0.0031	<0.0031	<0.0015	<0.00026	<0.00026	<0.00026	<0.00026	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.00005	<0.00005	<0.00005	<0.000104	<0.000105	<0.000106	<0.000107	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021
2,4-Dimethylphenol	0.49	1.5	<0.00005	<0.00005	<0.00005	<0.000292	<0.000295	<0.000298	<0.000301	<0.00004	<0.00004	<0.00004	<0.00004	0.00043	<0.00004
2,4-Dinitrotoluene	0.0013	0.003	<0.00005	<0.00005	<0.00005	<0.000123	<0.000124	<0.000125	<0.000126	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058
2,6-Dinitrotoluene	0.0013	0.003	<0.00006	<0.00006	<0.00006	<0.0000755	<0.0000762	<0.0000769	0.209	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042
2-Chloronaphthalene	2	5.8	<0.00005	<0.00005	<0.00005	<0.0000755	<0.0000762	<0.0000769	<0.0000777	0.000079 J	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021
2-Methylnaphthalene	0.098	0.29	0.000099 J	<0.00005	0.000086 J	0.000146 J	0.000129 J	0.000164 J	<0.000146	0.000091 J	0.000092 J	0.000078 J	0.00039	0.00021	0.00018
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00008	<0.00008	<0.00008	<0.000783	<0.00079	<0.000798	<0.000806	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
4-Nitrophenol	0.049	0.15	<0.00005	<0.00005	<0.00005	<0.000528	<0.000533	<0.000538	<0.000544	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047
Acenaphthene	1.5	4.4	<0.00005	<0.00005	0.00011 J	<0.0000755	<0.0000762	<0.0000769	<0.000114	0.0002	0.0001	<0.000027	0.093	0.000071 J	0.00015
Acenaphthylene	1.5	4.4	<0.00005	<0.00005	<0.0000566	<0.0000571	<0.0000577	<0.0000583	<0.0000583	<0.000015	0.00064	<0.000015	0.00082	<0.000015	<0.000015
Anthracene	7.3	22	<0.00005	<0.00005	<0.00005	0.0000745 J	<0.0000476	<0.0000481	<0.0000485	<0.000014	<0.000014	<0.000014	0.0084	0.00003 J	<0.000014
Benzo(a)anthracene	0.0091	0.02	<0.00005	<0.00005	<0.00005	<0.0000755	<0.0000762	<0.0000769	<0.0000777	<0.00005	<0.00005	<0.00005	0.00014	<0.00005	<0.00005
Benzo(a)pyrene	0.0002	0.0002	<0.00005	<0.00005	<0.00005	<0.0000755	<0.0000762	<0.0000769	<0.0000777	<0.00002	<0.00002	<0.00002	0.000041 J	<0.00002	<0.00002
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00005	<0.00005	<0.00005	<0.000123	<0.000124	<0.000125	<0.000126	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	0.0004	<0.0001	<0.00011	<0.000349	<0.000352	<0.000356	<0.000359	<0.00009	0.00013 J	<0.000037	0.00011 J	<0.000037	<0.000037
Chrysene	0.91	2	<0.00005	<0.00005	<0.00005	<0.0000755	<0.0000762	<0.0000769	<0.0000777	<0.000021	<0.000021	<0.000021	0.00013	<0.000021	<0.000021
Dibenzofuran	0.098	0.29	<0.00005	<0.00005	0.000054 J	0.0000865 J	0.0000857 J	0.0000979 J	<0.000091	0.0001	<0.00002	0.000052 J	0.067	0.00007 J	0.00012
Di-n-butylphthalate (DBP)	2.4	7.3	<0.00005	<0.00005	<0.00005	<0.000104	<0.00011	<0.000106	<0.000107	0.000034 J	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
Fluoranthene	0.98	2.9	<0.00005	<0.00005	<0.00005	<0.000066	<0.0000667	<0.0000673	<0.000068	<0.00001	<0.00001	<0.00001	0.0071	<0.00001	0.000091 J
Fluorene	0.98	2.9	0.000071 J	0.0001 J	0.000082 J	0.000149 J	0.000102 J	<0.0000673	<0.000068	<0.00003	<0.00003	0.000087 J	0.085	0.000052 J	0.00019
Naphthalene	0.49	1.5	0.00048	<0.00054	0.00052	0.000729	0.000585 J	<0.000853	<0.000859	0.00046	0.0003	<0.00061	<0.00017	<0.00031	0.0017
Nitrobenzene	0.049	0.15	<0.00005	<0.00005	<0.00005	<0.000104	<0.000105	<0.000106	<0.000107	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024
N-Nitrosodiphenylamine	0.19	0.42	<0.00005	<0.00005	<0.00005	<0.0000943	<0.0000952	<0.0000962	<0.0000971	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025
Pentachlorophenol	0.001	0.001	<0.00005	<0.00005	<0.00005	<0.000575	<0.000581	<0.000587	<0.000592	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079
Phenanthrene	0.73	2.2	<0.00005	<0.00005	0.000059 J	<0.0000566	<0.0000571	<0.0000572	<0.00005808	0.000069 J	<0.000021	0.000048 J	0.052	0.000039 J	0.00015
Phenol	7.3	22	<0.00005	<0.00005	<0.00005	<0.0000377	<0.0000381	<0.0000385	<0.0000388	<0.000035	<0.000035	<0.000035	<0.000035	0.0004	0.00012 J
Pyrene	0.73	2.2	<0.00005	<0.00005	<0.00005	<0.000104	<0.000105	<0.000106	<0.000107	<0.000019	<0.000019	<0.000019	0.0031	<0.000019	0.00068 J
Metals															
Arsenic	0.01	0.01								0.0025	0.00184 J	0.0017 J	0.000796 J	0.002	0.00195 J

Notes:

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- Concentrations > RAL and non-detects are highlighted light gray.
- Concentrations > C/I AL and non-detects are highlighted dark gray
- TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
- RAL = Residential Assessment Level, C/I = Commercial/Industrial
- J = Estimated value, < = not detected at the specified detection limit.
- MW-32A was screened in the B-CZ & replaced with MW-32AR
- Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-12C 07/17/2020	MW-13 01/30/2008	MW-13 07/15/2008	MW-13 02/04/2009	MW-13 01/19/2010	MW-13 06/22/2010	MW-13 01/18/2011	MW-13 07/26/2011	MW-13 02/02/2012	MW-13 07/16/2012	MW-13 02/05/2013	MW-13 07/31/2013	MW-13 01/14/2014
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.0002	<0.00052	<0.00052	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00014	<0.00014	<0.00014
Benzene	0.005	0.005	<0.0002	<0.00025	<0.00025	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00008	<0.00008	<0.00008
Chlorobenzene	0.1	0.1	<0.0003	<0.00047	<0.00047	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00012	<0.00012	0.000401 J
Ethylbenzene	0.7	0.7	<0.0003	<0.00025	<0.00025	<0.0005	<0.0005	<0.0005	<0.0005	<0.0011	<0.0011	<0.0005	<0.00011	<0.00011	<0.00011
Methylene chloride	0.005	0.005	<0.001	<0.00054	<0.00054	<0.0005	<0.0005	<0.0005	<0.0005	<0.0013	<0.0013	<0.001	<0.00015	<0.00015	<0.00015
Toluene	1	1	<0.0002	<0.00041	<0.00041	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00015	<0.00015	<0.00015
Vinyl chloride	0.002	0.002											<0.00011		
Xylenes (total)	10	10	<0.0003	<0.00127	<0.00127	<0.001	<0.001	<0.001	<0.001	<0.0031	<0.0031	<0.0015	<0.00026	<0.00026	<0.00026
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.000021	<0.00008	<0.00008	<0.0001	<0.0001	<0.0001	<0.0001	<0.00005	<0.00005	<0.00005	<0.000104	<0.000107	<0.000212
2,4-Dimethylphenol	0.49	1.5	<0.00004	<0.00029	<0.00029	<0.00008	<0.00008	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005	R	<0.000301	<0.000596
2,4-Dinitrotoluene	0.0013	0.003	<0.000058	<0.00019	<0.00019	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.000123	<0.000126	<0.00025
2,6-Dinitrotoluene	0.0013	0.003	<0.000042	<0.00019	<0.00019	<0.00007	0.00066	<0.00007	<0.00007	<0.00006	<0.00006	<0.00006	<0.0000755	<0.0000777	<0.000154
2-Chloronaphthalene	2	5.8	0.000029 J	<0.00038	<0.00039	<0.00012	<0.0001	<0.0001	<0.0001	<0.00005	<0.00005	<0.00005	<0.0000755	<0.0000777	<0.000154
2-Methylnaphthalene	0.098	0.29	0.000052 J	<0.00038	<0.00039	<0.00007	0.00076	<0.00007	0.000075 J	0.00026	<0.00005	0.000063 J	<0.000066	<0.000068	0.000141 J
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00002	<0.00019	<0.00049	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	R	<0.000806	<0.0016
4-Nitrophenol	0.049	0.15	<0.000047	<0.00024	<0.00024	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	R	<0.000544	<0.00108
Acenaphthene	1.5	4.4	0.00007 J	<0.00029	<0.00029	<0.00009	0.00011 J	<0.00009	<0.00009	0.00033	<0.00005	<0.00005	<0.0000755	<0.0000777	<0.000154
Acenaphthylene	1.5	4.4	<0.000015	<0.00029	<0.00029	<0.00006	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000566	0.0000715 J	<0.000115
Anthracene	7.3	22	0.000019 J	0.000955	0.000642	0.0002	0.00043	<0.00007	<0.00007	0.00037	0.000068 J	0.00011 J	0.0011	0.000878	<0.00118
Benzo(a)anthracene	0.0091	0.02	<0.00005	<0.00019	<0.00019	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	0.00014 J	<0.00005	<0.0000755	<0.0000777	<0.000154
Benzo(a)pyrene	0.0002	0.0002	<0.00002	<0.00019	<0.00019	<0.00008	<0.00008	<0.00008	<0.00008	<0.00005	0.000073 J	<0.00005	<0.0000755	<0.0000777	<0.000154
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00003	<0.00038	<0.00039	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.000123	<0.000126	<0.00025
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	<0.000053	0.00051 J	<0.00019	0.00035	0.0016	<0.00044	<0.0002	0.00027	0.00043 J	<0.0001	<0.000349	<0.000359	<0.000712
Chrysene	0.91	2	<0.000021	<0.00019	<0.00019	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	0.00017 J	<0.00005	<0.0000755	<0.0000777	<0.000154
Dibenzofuran	0.098	0.29	0.000041 J	<0.00029	<0.00029	<0.00008	0.00019 J	<0.00008	<0.00008	0.00034	0.000063 J	0.00019 J	<0.0000755	<0.0000777	<0.000154
Di-n-butylphthalate (DBP)	2.4	7.3	<0.000021	<0.00019	<0.00019	<0.00007	<0.00007	0.0001 J	<0.00007	<0.00005	<0.00005	<0.00005	<0.000104	<0.000211	<0.000212
Fluoranthene	0.98	2.9	<0.000021	0.00046 J	<0.00019	<0.00007	<0.00007	<0.00007	<0.00007	0.00067 J	0.00015 J	0.00013 J	<0.000066	<0.000068	<0.000135
Fluorene	0.98	2.9	<0.00003	<0.00019	<0.00019	<0.00007	<0.00007	<0.00007	0.00072 J	0.00035	<0.00005	0.00012 J	<0.000066	<0.000068	<0.000135
Naphthalene	0.49	1.5	<0.00023	<0.00038	<0.00039	<0.0001	0.007	<0.0001	0.0005	0.00087	<0.00022	<0.00023	<0.0000755	<0.000226	<0.00126
Nitrobenzene	0.049	0.15	<0.000024	<0.00038	<0.00039	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.000104	<0.000107	<0.000212
N-Nitrosodiphenylamine	0.19	0.42	<0.000025	<0.00024	<0.00024	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.0000943	<0.0000971	<0.000192
Pentachlorophenol	0.001	0.001	<0.000079	<0.00019	<0.00019	<0.00008	<0.00008	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005	R	<0.000592	<0.00117
Phenanthrene	0.73	2.2	0.000037 J	<0.00019	<0.00019	<0.00007	0.00014 J	0.0002	<0.00007	0.00029	0.00015 J	0.00049	<0.0000566	<0.0000583	<0.000115
Phenol	7.3	22	0.000042 J	<0.00019	<0.00019	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	R	<0.0000388	<0.0000769
Pyrene	0.73	2.2	<0.000019	<0.00019	<0.00019	<0.00007	<0.00007	<0.00007	<0.00007	0.00011 J	0.0002 J	0.000089 J	<0.000104	<0.000107	<0.000212
Metals															
Arsenic	0.01	0.01	0.00171 J												

Notes:

- All values in milligrams per liter (mg/L).
- Concentrations > RAL and non-detects are highlighted light gray.
- Concentrations > C/I AL and non-detects are highlighted dark gray
- TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
- RAL = Residential Assessment Level, C/I = Commercial/Industrial
- J = Estimated value, < = not detected at the specified detection limit.
- MW-32A was screened in the B-CZ & replaced with MW-32AR
- Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-13 07/25/2014	MW-13 01/23/2018	MW-13 03/18/2018	MW-13 05/15/2018	MW-13 01/08/2019	MW-13 07/11/2019	MW-13 01/14/2020	MW-13 07/15/2020	MW-14 01/30/2008	MW-14 07/15/2008	MW-14 02/04/2009	MW-14 02/04/2009 Duplicate	MW-14 01/19/2010
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.00014	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00052	<0.00052	<0.0005	<0.0005	<0.0005
Benzene	0.005	0.005	<0.00008	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00025	<0.00025	<0.0005	<0.0005	<0.0005
Chlorobenzene	0.1	0.1	<0.00012	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00047	<0.00047	<0.0005	<0.0005	<0.0005
Ethylbenzene	0.7	0.7	<0.00011	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00025	<0.00025	<0.0005	<0.0005	<0.0005
Methylene chloride	0.005	0.005	<0.00015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00054	<0.00054	<0.0005	<0.0005	<0.0005
Toluene	1	1	<0.00015	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00041	<0.00041	<0.0005	<0.0005	<0.0005
Vinyl chloride	0.002	0.002	<0.00011												
Xylenes (total)	10	10	<0.00026	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00127	<0.00127	<0.001	<0.001	<0.001
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.000107	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.00008	<0.00008	<0.0001	<0.0001	<0.0001
2,4-Dimethylphenol	0.49	1.5	<0.000301	<0.00004	<0.00004	<0.00004	<0.00004	<0.000063	<0.00004	0.00037	<0.00029	<0.00029	<0.00008	<0.00008	<0.00008
2,4-Dinitrotoluene	0.0013	0.003	<0.000126	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.00019	<0.00019	<0.00009	<0.00009	<0.00009
2,6-Dinitrotoluene	0.0013	0.003	<0.0000777	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.00019	<0.00019	<0.00007	<0.00007	<0.00007
2-Chloronaphthalene	2	5.8	<0.0000777	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.00038	<0.00038	<0.00012	<0.00012	<0.0001
2-Methylnaphthalene	0.098	0.29	<0.000687	<0.000019	<0.000019	<0.000019	<0.000019	0.000077 J	0.000054 J	0.00042	0.00047 J	0.000782	0.00075	0.00078	0.00064
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.000806	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00019	<0.00048	<0.00008	<0.00008	<0.00008
4-Nitrophenol	0.049	0.15	<0.000544	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.00024	<0.00024	<0.00007	<0.00007	<0.00007
Acenaphthene	1.5	4.4	<0.000329	<0.000027	<0.000027	<0.000027	<0.000027	0.000066 J	0.00022	0.00014	0.00223	0.000515	0.00047	0.0005	0.00043
Acenaphthylene	1.5	4.4	<0.0000583	0.00003 J	<0.000015	<0.000015	<0.000015	0.000033 J	<0.000015	<0.000015	<0.00029	<0.00029	<0.00006	<0.00006	<0.00007
Anthracene	7.3	22	<0.000587	0.00047	0.000039 J	0.000085 J	0.00039	0.00047	<0.000014	0.000071 J	0.000678	<0.00019	<0.00007	<0.00007	<0.00007
Benzo(a)anthracene	0.0091	0.02	<0.0000777	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00019	<0.00019	<0.00007	<0.00007	<0.00007
Benzo(a)pyrene	0.0002	0.0002	<0.0000777	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00019	<0.00019	<0.00008	<0.00008	<0.00008
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.000126	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00038	<0.00038	<0.00009	<0.00009	<0.00009
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	<0.000359	<0.00011	0.000078 J	0.00011 J	<0.000037	0.000054 J	<0.000037	<0.000037	0.0004 J	<0.00019	0.00081	0.0027	0.0054 J
Chrysene	0.91	2	<0.0000777	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.00019	<0.00019	<0.00007	<0.00007	<0.00007
Dibenzofuran	0.098	0.29	<0.000257	<0.00002	<0.00002	<0.00002	<0.00002	0.000039 J	0.00016	0.00014	0.000491	0.000502	0.00045	0.00045	0.0004
Di-n-butylphthalate (DBP)	2.4	7.3	0.000122 J	<0.00002	<0.00002	0.000029 J	<0.00002	<0.00002	<0.00002	<0.00002	<0.00019	<0.00019	<0.00007	<0.00007	<0.00007
Fluoranthene	0.98	2.9	<0.000068	<0.00001	<0.00001	0.000015 J	<0.00001	0.000032 J	<0.00001	<0.00001	0.000506	<0.00019	<0.00007	<0.00007	<0.00007
Fluorene	0.98	2.9	<0.000188	<0.00003	<0.00003	<0.00003	<0.00003	0.000042 J	0.00016	0.000088 J	<0.00019	<0.00019	<0.00007	0.00014 J	0.00013 J
Naphthalene	0.49	1.5	0.0039	0.00014	<0.000083	<0.00002	<0.00022	<0.0011	0.00026	0.0044	0.00222	0.00349	0.0032	0.0033	0.003
Nitrobenzene	0.049	0.15	<0.000107	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.00038	<0.00038	<0.00009	<0.00009	<0.00009
N-Nitrosodiphenylamine	0.19	0.42	<0.0000971	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.00024	<0.00024	<0.00009	<0.00009	<0.00009
Pentachlorophenol	0.001	0.001	<0.000592	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.00019	<0.00019	<0.00008	<0.00008	<0.00008
Phenanthrene	0.73	2.2	<0.000163	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	0.000077 J	0.000599	0.00061	0.00035	0.00039	0.00041
Phenol	7.3	22	<0.0000388	<0.000035	<0.000035	<0.000035	<0.000035	<0.000035	<0.000035	<0.000035	<0.00019	<0.00019	<0.00007	<0.00007	<0.00007
Pyrene	0.73	2.2	<0.000107	<0.000019	<0.000019	0.00002 J	<0.000019	0.000084 J	<0.000019	0.000053 J	<0.00019	<0.00019	<0.00007	<0.00007	<0.00007
Metals															
Arsenic	0.01	0.01		0.00303	0.00984	0.014	0.0602	0.0715	0.0642	0.0376					

Notes:

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- Concentrations > C/I AL and non-detects are highlighted dark gray
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- RAL = Residential Assessment Level, C/I = Commercial/Industrial
- J = Estimated value, < = not detected at the specified detection limit.
- MW-32A was screened in the B-CZ & replaced with MW-32AR
- Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-14 01/19/2010 Duplicate	MW-14 06/22/2010	MW-14 01/17/2011	MW-14 07/26/2011	MW-14 07/26/2011 Duplicate	MW-14 02/02/2012 Duplicate	MW-14 02/02/2012 Duplicate	MW-14 07/16/2012 Duplicate	MW-14 07/16/2012 Duplicate	MW-14 02/05/2013	MW-14 07/31/2013	MW-14 01/14/2014	MW-14 07/18/2014
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.0005	<0.00014	<0.00014	<0.00014	<0.00014
Benzene	0.005	0.005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.0005	<0.00008	<0.00008	<0.00008	<0.00008
Chlorobenzene	0.1	0.1	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.0005	<0.00012	<0.00012	<0.00012	<0.00012
Ethylbenzene	0.7	0.7	<0.0005	<0.0005	<0.0005	<0.0011	<0.0011	<0.0011	<0.0011	<0.0005	<0.0005	<0.00011	0.000123 J	<0.00011	<0.00011
Methylene chloride	0.005	0.005	<0.0005	<0.0005	<0.0005	<0.0013	<0.0013	<0.0013	<0.0013	<0.001	<0.001	<0.00015	<0.00015	<0.00015	<0.00015
Toluene	1	1	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.0005	<0.00015	<0.00015	<0.00015	<0.00015
Vinyl chloride	0.002	0.002										<0.00011			<0.00011
Xylenes (total)	10	10	<0.001	<0.001	<0.001	<0.0031	<0.0031	<0.0031	<0.0031	<0.0015	<0.0015	<0.00026	<0.00026	<0.00026	<0.00026
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.0001	<0.0001	<0.0001	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000104	<0.000107	<0.000106	<0.000109
2,4-Dimethylphenol	0.49	1.5	<0.00008	<0.00008	<0.00008	<0.00005	<0.00005	0.00005 J	0.0013 J	<0.00005	<0.00005	<0.000292	<0.000301	<0.000298	<0.000307
2,4-Dinitrotoluene	0.0013	0.003	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000123	<0.000126	<0.000125	<0.000129
2,6-Dinitrotoluene	0.0013	0.003	<0.00007	<0.00007	<0.00007	<0.00006	<0.00006	<0.00006	<0.00006	<0.00006	<0.00006	<0.0000755	<0.0000777	<0.0000769	0.0788
2-Chloronaphthalene	2	5.8	<0.0001	<0.0001	<0.0001	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.0000755	<0.0000777	<0.0000769	<0.0000792
2-Methylnaphthalene	0.098	0.29	0.0006	0.00049	0.00039	0.00034	0.00031	0.00064 J	0.00017 J	0.0003	0.00044	0.000402 J	0.000304 J	0.000321 J	0.000336 J
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.000783	<0.000806	<0.000798	<0.000822
4-Nitrophenol	0.049	0.15	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000528	R	<0.000538	<0.000554
Acenaphthene	1.5	4.4	0.00043	0.00041	0.00033	0.00032	0.00028	0.00005 J	0.00015 J	0.0003	0.00035	0.0006	0.000549	0.000943	0.000619
Acenaphthylene	1.5	4.4	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.0000566	<0.0000583	<0.0000577	<0.0000594
Anthracene	7.3	22	0.00013 J	<0.00007	<0.00007	<0.00005	0.000087 J	<0.00005	<0.00005	0.000069 J	<0.00005	0.000277 J	0.000198 J	<0.000179	0.000139 J
Benzo(a)anthracene	0.0091	0.02	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.0000755	<0.0000777	<0.0000769	<0.0000792
Benzo(a)pyrene	0.0002	0.0002	<0.00008	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.0000755	<0.0000777	<0.0000769	<0.0000792
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000123	<0.000126	<0.000125	<0.000129
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	0.00037 J	<0.00077	0.00029	0.00047	0.00065	<0.0001	<0.00013	0.00011 J	0.00011 J	<0.000349	<0.000359	<0.000356	0.000615
Chrysene	0.91	2	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.0000755	<0.0000777	<0.0000769	<0.0000792
Dibenzofuran	0.098	0.29	0.00044	0.00037	0.0003	0.00031	0.00027	0.00012 J	0.00015 J	0.00032	0.00034	0.000467 J	0.000372 J	0.000443 J	0.000437 J
Di-n-butylphthalate (DBP)	2.4	7.3	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000104	<0.000179	<0.000106	<0.000109
Fluoranthene	0.98	2.9	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	0.00024	0.00031	0.000055 J	<0.00005	0.0000794 J	0.000274 J	0.0000744 J	<0.0000693
Fluorene	0.98	2.9	0.0001 J	<0.00007	0.000079 J	<0.00005	0.000065 J	<0.00005	<0.00005	0.000076 J	<0.00005	<0.000066	<0.000068	0.00008 J	0.0000901 J
Naphthalene	0.49	1.5	0.0026	0.0022	0.0024	0.0014	0.0012	0.00034 J	0.0014 J	<0.0015	<0.002	0.00211	0.00216 J	<0.00183	0.00143
Nitrobenzene	0.049	0.15	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	0.00008 J	<0.000104	<0.000107	<0.000106	<0.000109
N-Nitrosodiphenylamine	0.19	0.42	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.0000943	<0.0000971	<0.0000962	<0.000099
Pentachlorophenol	0.001	0.001	<0.00008	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.0000575	<0.0000592	<0.0000587	<0.0000604
Phenanthrene	0.73	2.2	0.00043	0.00044	0.0003	0.00033	0.00032	0.00011 J	0.00014 J	0.00038	0.00039	0.000484	0.000662	<0.000591	0.000506
Phenol	7.3	22	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	0.00005 J	0.00075 J	<0.00005	<0.00005	<0.0000377	0.000398 J	<0.0000385	<0.0000396
Pyrene	0.73	2.2	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	0.00029	0.00029	<0.00005	<0.00005	<0.000104	0.000164 J	<0.000106	<0.000109
Metals															
Arsenic	0.01	0.01													

Notes:

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- Concentrations > C/I AL and non-detects are highlighted dark gray
- TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
- RAL = Residential Assessment Level, C/I = Commercial/Industrial
- J = Estimated value, < = not detected at the specified detection limit.
- MW-32A was screened in the B-CZ & replaced with MW-32AR
- Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

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CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-14 01/23/2018	MW-14 03/18/2018	MW-14 05/15/2018	MW-14 01/08/2019	MW-14 07/11/2019	MW-14 01/14/2020	MW-14 07/15/2020	MW-15A 01/30/2008	MW-15A 07/15/2008	MW-15A 02/04/2009	MW-15A 01/18/2010	MW-15A 06/23/2010	MW-15A 01/17/2011
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00052	<0.00052	<0.0005	<0.0005	<0.0005	<0.0005
Benzene	0.005	0.005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.00161 J	<0.00025	0.0018 J	0.0016 J	0.0017 J	0.00074 J
Chlorobenzene	0.1	0.1	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00047	<0.00047	<0.0005	<0.0005	<0.0005	<0.0005
Ethylbenzene	0.7	0.7	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.00122 J	<0.00025	0.0019 J	0.0015 J	0.0017 J	<0.0005
Methylene chloride	0.005	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00054	<0.00054	<0.0005	<0.0005	<0.0005	<0.0005
Toluene	1	1	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00041	<0.00041	<0.0005	<0.0005	0.00055 J	<0.0005
Vinyl chloride	0.002	0.002													
Xylenes (total)	10	10	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.0056 J	<0.00127	0.0039 J	0.0015 J	0.0047 J	<0.001
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.00008	<0.00008	<0.0001	<0.0001	<0.0001	<0.0001
2,4-Dimethylphenol	0.49	1.5	<0.00004	<0.00004	<0.00004	<0.00004	<0.00013	<0.00004	0.00013 J	<0.0003	0.00042 J	<0.00008	<0.00008	<0.00008	<0.00008
2,4-Dinitrotoluene	0.0013	0.003	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.0002	<0.0002	<0.00009	<0.00009	<0.00009	<0.00009
2,6-Dinitrotoluene	0.0013	0.003	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.0002	<0.0002	<0.00007	<0.00007	<0.00007	<0.00007
2-Chloronaphthalene	2	5.8	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	0.000053 J	<0.0004	<0.00041	<0.00012	<0.0001	<0.0001	<0.0001
2-Methylnaphthalene	0.098	0.29	0.00019	<0.00014	<0.000019	<0.000019	0.00019	<0.000019	0.00024	0.0127	0.0995	0.044	0.033	0.042	0.038
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.0002	<0.00051	<0.00008	<0.00008	<0.00008	<0.00008
4-Nitrophenol	0.049	0.15	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.00025	<0.00026	<0.00007	<0.00007	<0.00007	<0.00007
Acenaphthene	1.5	4.4	0.00019	0.00027	<0.000027	<0.000027	0.0001	0.000091 J	0.000083 J	0.134	0.442	0.17	0.17	0.16	0.27
Acenaphthylene	1.5	4.4	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.0003	<0.00031	0.0017	0.0015	0.00097	0.0011
Anthracene	7.3	22	0.000067 J	0.000052 J	<0.000014	0.000052 J	0.000089 J	<0.000014	0.000034 J	0.00377	0.00432	0.003	0.0036	0.0049	0.0063
Benzo(a)anthracene	0.0091	0.02	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	0.00023 J	<0.0002	<0.00007	<0.00007	<0.00007	<0.00007
Benzo(a)pyrene	0.0002	0.0002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.0002	<0.0002	<0.00008	<0.00008	<0.00008	<0.00008
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.0004	<0.00041	<0.00009	<0.00009	<0.00009	<0.00009
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	<0.000091	<0.000037	0.00014 J	<0.000037	<0.000037	<0.000037	<0.000037	<0.0002	<0.0002	0.0026	<0.00073	<0.00084	0.0016
Chrysene	0.91	2	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.0002	<0.00007	<0.00007	<0.00007	<0.00007	<0.00007
Dibenzofuran	0.098	0.29	0.00024	<0.00025	<0.00002	<0.00002	0.000087 J	<0.00002	0.000062 J	0.0239	0.156	0.047	0.043	0.048	0.05
Di-n-butylphthalate (DBP)	2.4	7.3	<0.00002	<0.00002	<0.00002	0.000022 J	<0.00002	<0.00002	<0.00002	<0.0002	<0.0002	0.00029	0.00011 J	<0.00007	<0.00007
Fluoranthene	0.98	2.9	0.000028 J	0.000025 J	<0.00001	<0.00001	0.000067 J	0.000064 J	<0.00001	0.00178	0.00183	0.0011	0.0015	0.002	0.0023
Fluorene	0.98	2.9	<0.00003	0.000094 J	<0.00003	<0.00003	0.000069 J	0.000057 J	<0.00003	0.0394	0.18	0.059	0.06	0.062	0.076
Naphthalene	0.49	1.5	0.00067	<0.00057	<0.00002	<0.00002	<0.002	<0.00002	0.0042	0.00684	0.271	0.048	<0.0018	0.036	0.0023
Nitrobenzene	0.049	0.15	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.0004	<0.00041	<0.00009	<0.00009	<0.00009	<0.00009
N-Nitrosodiphenylamine	0.19	0.42	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.00025	<0.00026	<0.00009	<0.00009	<0.00009	<0.00009
Pentachlorophenol	0.001	0.001	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.0002	<0.0002	<0.00008	<0.00008	<0.00008	<0.00008
Phenanthrene	0.73	2.2	0.00035	0.00032	<0.000021	<0.000021	0.000059 J	<0.000021	0.000053 J	0.0039	0.0229	0.0095	0.0074	0.012	0.019
Phenol	7.3	22	<0.000035	<0.000035	<0.000035	<0.000035	0.00019 J	<0.000035	0.0002 J	<0.0002	<0.0002	<0.00007	<0.00007	0.0002	<0.00007
Pyrene	0.73	2.2	<0.000019	<0.000019	<0.000019	<0.000019	0.000032 J	0.00006 J	<0.000019	0.00127	0.00064	0.00042	0.00062	0.00076	0.00095
Metals															
Arsenic	0.01	0.01	<0.0004	<0.0004	<0.0004	0.000752 J	0.00133 J	0.00185 J	0.000949 J						

Notes:

- All values in milligrams per liter (mg/L).
- Concentrations > RAL and non-detects are highlighted light gray.
- Concentrations > C/I AL and non-detects are highlighted dark gray
- TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
- RAL = Residential Assessment Level, C/I = Commercial/Industrial
- J = Estimated value, < = not detected at the specified detection limit.
- MW-32A was screened in the B-CZ & replaced with MW-32AR
- Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-15A 07/13/2011	MW-15A 02/02/2012	MW-15A 07/19/2012	MW-15A 01/30/2013	MW-15A 07/30/2013	MW-15A 01/14/2014	MW-15A 07/17/2014	MW-15A 01/23/2018	MW-15A 03/18/2018	MW-15A 05/15/2018	MW-15A 01/08/2019	MW-15A 07/10/2019	MW-15A 01/14/2020
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.001	<0.001	<0.0005	<0.00014	<0.00014	<0.00014	<0.00014	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Benzene	0.005	0.005	0.0016 J	0.0012 J	0.0016 J	0.0016	0.0013	0.00106	0.00161	<0.0002	0.00051 J	0.0006 J	<0.0002	0.00074 J	0.00034 J
Chlorobenzene	0.1	0.1	<0.001	<0.001	<0.0005	<0.00012	0.000121 J	<0.00012	<0.00012	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Ethylbenzene	0.7	0.7	0.0019 J	0.0024 J	0.0012 J	0.00066 J	0.000799 J	0.000627 J	0.00101	<0.0003	<0.0003	<0.0003	<0.0003	0.00035 J	<0.0003
Methylene chloride	0.005	0.005	<0.0013	<0.0013	<0.001	<0.00015	<0.00015	<0.00015	<0.00015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Toluene	1	1	<0.001	<0.001	<0.0005	0.000221 J	0.000199 J	0.00034 J	0.000595 J	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Vinyl chloride	0.002	0.002													
Xylenes (total)	10	10	0.0038 J	0.0073 J	0.0097 J	0.00417	0.00527	0.00337	0.00854	0.0018	<0.0003	<0.0003	0.0008 J	0.0026	0.00093 J
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.00005	<0.00005	<0.00005	<0.000104	<0.000107	<0.000104	<0.000104	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021
2,4-Dimethylphenol	0.49	1.5	<0.00005	0.00059	0.00056	0.002	<0.000301	<0.0149	<0.000292	<0.00004	<0.00004	<0.00004	<0.00004	<0.00024	<0.00004
2,4-Dinitrotoluene	0.0013	0.003	<0.00005	<0.00005	<0.00005	<0.000123	<0.000126	<0.000123	<0.000123	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058
2,6-Dinitrotoluene	0.0013	0.003	<0.00006	<0.00006	<0.00006	<0.0000755	<0.0000777	<0.0000755	<0.0000755	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042
2-Chloronaphthalene	2	5.8	<0.00005	<0.00005	<0.00005	<0.0000755	<0.0000777	<0.0000755	<0.0000755	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021
2-Methylnaphthalene	0.098	0.29	0.14	0.001	0.046	0.00997	0.124	0.0475	0.059	0.0076	0.0016	0.0034	0.0098	0.0077	0.018
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00008	<0.00008	<0.00008	<0.000783	<0.000806	<0.000783	<0.000783	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
4-Nitrophenol	0.049	0.15	<0.00005	<0.00005	<0.00005	<0.000528	<0.000544	<0.0269	<0.000528	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047
Acenaphthene	1.5	4.4	0.2	0.13	0.13	0.141	0.332	0.3	0.205	0.13	0.099	0.1	0.1	0.11	0.14
Acenaphthylene	1.5	4.4	0.00097	0.00071	0.0012	<0.0000566	<0.0000583	<0.00288	<0.0000566	0.002	0.0007	0.00069	<0.000015	0.00045	0.00066
Anthracene	7.3	22	0.0053	0.0028	0.0046	0.00313	0.0085	0.0111 J	0.00642	0.0026	0.0024	0.0032	0.0025	0.0026	0.0048
Benzo(a)anthracene	0.0091	0.02	<0.00005	<0.00005	<0.00005	<0.0000755	<0.0000777	<0.00385	<0.0000755	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Benzo(a)pyrene	0.0002	0.0002	<0.00005	<0.00005	<0.00005	<0.0000755	<0.0000777	<0.00385	<0.0000755	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00005	<0.00005	<0.00005	<0.000123	<0.000126	<0.000123	<0.000123	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	<0.00012	<0.0001	<0.0001	<0.000349	<0.000359	<0.000349	<0.000349	<0.000037	<0.000037	0.0093	<0.000037	<0.000037	<0.000037
Chrysene	0.91	2	<0.00005	<0.00005	<0.00005	<0.0000755	<0.0000777	<0.00385	<0.0000755	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021
Dibenzofuran	0.098	0.29	0.078	0.028	0.046	0.0416	0.104	0.0693	0.0572	0.029	0.024	0.018	0.023	0.035	0.036
Di-n-butylphthalate (DBP)	2.4	7.3	<0.00005	<0.00005	<0.00005	<0.000104	0.000187 J	<0.00529	<0.000104	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
Fluoranthene	0.98	2.9	0.0021	0.00094	0.0015	0.000885	0.00361	<0.00337	0.00257	0.002	0.0012	0.0016	0.0012	0.0018	0.0031
Fluorene	0.98	2.9	0.092	0.043	0.063	0.056	0.139	0.114	0.0822	0.041	0.036	0.029	0.038	0.054	0.065
Naphthalene	0.49	1.5	0.087	0.008	0.27	0.0501 J	0.526	0.326	0.248	0.0005	<0.00034	<0.00037	<0.00032	<0.00066	0.00022
Nitrobenzene	0.049	0.15	<0.00005	<0.00005	<0.00005	<0.000104	<0.000107	<0.00529	<0.000104	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024
N-Nitrosodiphenylamine	0.19	0.42	0.00055	<0.00005	<0.00005	<0.0000943	<0.0000971	<0.00481	<0.0000943	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025
Pentachlorophenol	0.001	0.001	<0.00005	<0.00005	<0.00005	<0.000575	<0.000592	<0.000575	<0.000575	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079
Phenanthrene	0.73	2.2	0.036	0.0056	0.014	0.00792	0.052	0.0375	0.0203	0.0046	0.0054	0.0074	0.009	0.0095	0.025
Phenol	7.3	22	<0.00005	<0.00005	<0.00005	<0.0000377	<0.0000388	<0.00192	<0.0000377	<0.000035	<0.000035	<0.000035	<0.000035	0.00039	<0.000035
Pyrene	0.73	2.2	0.00089	0.00053	0.00084	0.000496	0.00154	<0.00529	0.00101	0.0009	0.00063	0.00078	0.00051	0.00075	0.0013
Metals															
Arsenic	0.01	0.01								0.0264	0.0137	0.019	0.027	0.0251	0.0441

Notes:

- All values in milligrams per liter (mg/L).
- Concentrations > RAL and non-detects are highlighted light gray.
- Concentrations > C/I AL and non-detects are highlighted dark gray
- TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
- RAL = Residential Assessment Level, C/I = Commercial/Industrial
- J = Estimated value, < = not detected at the specified detection limit.
- MW-32A was screened in the B-CZ & replaced with MW-32AR
- Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-15A 07/14/2020	MW-15B 02/02/2012	MW-15B 07/19/2012	MW-15B 01/30/2013	MW-15B 07/30/2013	MW-15B 01/14/2014	MW-15B 07/17/2014	MW-15B 01/23/2018	MW-15B 03/18/2018	MW-15B 05/15/2018	MW-15B 01/08/2019	MW-15B 07/10/2019	MW-15B 01/14/2020
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.0002	<0.005	<0.0025	<0.00014	<0.00014	<0.00014	<0.00014	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Benzene	0.005	0.005	0.00064 J	<0.005	0.0053 J	0.0022	0.00484	0.00101	0.00292	<0.0002	<0.0002	0.00071 J	<0.0002	0.0023	<0.0002
Chlorobenzene	0.1	0.1	<0.0003	<0.005	<0.0025	<0.00012	0.000124 J	<0.00012	0.000136 J	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Ethylbenzene	0.7	0.7	0.00037 J	0.02 J	0.014 J	0.00159	0.00399	0.00019 J	0.00903	<0.0003	<0.0003	0.001	<0.0003	0.0031	<0.0003
Methylene chloride	0.005	0.005	<0.001	<0.0065	<0.005	<0.00015	<0.00015	<0.00015	<0.00015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Toluene	1	1	<0.0002	<0.005	<0.0025	<0.00015	0.000155 J	<0.00015	<0.00015	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Vinyl chloride	0.002	0.002													
Xylenes (total)	10	10	0.0026	<0.016	<0.0075	0.000356 J	0.00876	0.000876 J	0.00464	<0.0003	<0.0003	<0.0003	<0.0003	0.0025	<0.0003
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.000021	<0.00005	<0.00005	<0.000104	<0.000107	<0.00106	<0.000104	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021
2,4-Dimethylphenol	0.49	1.5	<0.00004	<0.00043	<0.00005	<0.000292	<0.000301	<0.00298	<0.000292	<0.00004	<0.00004	<0.00004	<0.00004	<0.00016	<0.00004
2,4-Dinitrotoluene	0.0013	0.003	<0.000058	<0.00005	<0.00005	<0.000123	<0.000126	<0.00125	<0.000123	<0.000059	<0.000058	<0.000059	<0.000059	<0.000058	<0.000058
2,6-Dinitrotoluene	0.0013	0.003	<0.000042	<0.00006	<0.00006	<0.0000755	<0.0000777	<0.000769	<0.0000755	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042
2-Chloronaphthalene	2	5.8	<0.000021	<0.00005	<0.00005	<0.0000755	<0.0000777	<0.000769	<0.0000755	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021
2-Methylnaphthalene	0.098	0.29	0.014	0.29	0.023	<0.000744	0.00327	0.00325 J	0.00622	<0.000019	<0.000019	0.00015	<0.000019	0.016	<0.000019
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00002	<0.00008	<0.00008	<0.000783	<0.000806	<0.00798	<0.000783	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
4-Nitrophenol	0.049	0.15	<0.000047	<0.00005	<0.00005	<0.000528	<0.000544	<0.00538	<0.000528	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047
Acenaphthene	1.5	4.4	0.091	0.17	0.075	0.0413	0.114	0.134	0.0653	<0.000027	<0.000027	0.012	0.0026	0.029	0.000073 J
Acenaphthylene	1.5	4.4	0.00047	0.0011	0.0008	0.000987	<0.000583	0.00148 J	<0.000566	0.000059 J	<0.000015	0.00027	0.00015	0.00034	<0.000015
Anthracene	7.3	22	0.0028	0.039	0.0071	0.00179	0.00581	0.00665	0.00517	0.00034	0.00016	0.00058	0.00023	0.0016	0.00011
Benzo(a)anthracene	0.0091	0.02	<0.00005	0.00016 J	0.00017 J	<0.0000755	0.000218 J	0.000868 J	0.00031 J	0.00017	<0.00005	0.00011	<0.000051	0.00016	<0.00005
Benzo(a)pyrene	0.0002	0.0002	<0.00002	<0.00005	<0.00005	<0.0000755	<0.0000777	<0.000769	<0.0000755	0.00007 J	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00003	<0.00005	<0.00005	<0.000123	<0.000126	<0.00125	<0.000123	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	<0.000037	<0.0001	<0.00018	<0.000349	<0.000359	<0.00356	0.000548	<0.00007	<0.000037	0.0001 J	<0.000037	<0.000037	0.000055 J
Chrysene	0.91	2	<0.000021	0.00019 J	0.00013 J	<0.0000755	0.000167 J	<0.000769	0.000228 J	0.00014	<0.000021	0.000098 J	<0.000021	0.00013	<0.000021
Dibenzofuran	0.098	0.29	0.024	0.15	0.052	0.0127	0.0589	0.0509	0.0272	0.0005	<0.00002	0.0025	0.00014	0.013	<0.00002
Di-n-butylphthalate (DBP)	2.4	7.3	<0.00002	<0.00005	<0.00005	<0.000104	0.000187 J	<0.00106	<0.000104	<0.00002	<0.00002	0.000042 J	0.000022 J	<0.00002	<0.00002
Fluoranthene	0.98	2.9	0.0021	0.012	0.0062	0.00101	0.00615	0.0131	0.00736	0.0027	<0.00001	0.0031	0.00045	0.0042	0.00011
Fluorene	0.98	2.9	0.041	0.084	0.036	0.011	0.0459	0.0443	0.0231	0.00017	<0.00003	0.0028	0.000055 J	0.01	0.000062 J
Naphthalene	0.49	1.5	<0.00092	2.5	0.82	0.0569 J	0.943	0.248	0.452	<0.00002	<0.00002	0.02	<0.00002	0.33	<0.00002
Nitrobenzene	0.049	0.15	<0.000024	<0.00005	<0.00005	<0.000104	<0.000107	<0.00106	<0.000104	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024
N-Nitrosodiphenylamine	0.19	0.42	<0.000025	<0.00005	<0.00005	<0.0000943	<0.0000971	<0.000962	<0.0000943	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025
Pentachlorophenol	0.001	0.001	<0.000079	<0.00005	<0.00005	<0.000575	<0.000592	<0.00587	<0.000575	<0.00008	<0.00008	<0.00008	<0.00008	<0.000079	<0.000079
Phenanthrene	0.73	2.2	0.0096	0.08	0.052	0.00199	0.0376	0.0257	0.0204	0.00033	<0.000021	0.00016	<0.000021	0.0065	0.00005 J
Phenol	7.3	22	<0.000035	<0.00012	<0.00005	<0.0000377	<0.0000388	0.00141 J	0.00112	<0.000035	<0.000035	<0.000035	<0.000035	<0.00019	<0.000035
Pyrene	0.73	2.2	0.00098	0.005	0.0031	0.000513	0.00291	0.00569	0.00406	0.0016	<0.000019	0.0017	0.00027	0.0018	0.00006 J
Metals															
Arsenic	0.01	0.01	0.022							0.00895	0.00329	0.0111	0.00244	0.0133	0.00343

Notes:

- All values in milligrams per liter (mg/L).
- Concentrations > RAL and non-detects are highlighted light gray.
- Concentrations > C/I AL and non-detects are highlighted dark gray
- TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
- RAL = Residential Assessment Level, C/I = Commercial/Industrial
- J = Estimated value, < = not detected at the specified detection limit.
- MW-32A was screened in the B-CZ & replaced with MW-32AR
- Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-15B 07/14/2020	MW-15C 01/30/2008	MW-15C 07/15/2008	MW-15C 02/04/2009	MW-15C 01/18/2010	MW-15C 06/23/2010	MW-15C 01/17/2011	MW-15C 07/13/2011	MW-15C 02/02/2012	MW-15C 07/19/2012	MW-15C 01/30/2013	MW-15C 07/30/2013	MW-15C 01/14/2014
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.0002	<0.00052	<0.00052	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00014	<0.00014	<0.00014
Benzene	0.005	0.005	0.0025	0.00109 J	<0.00025	0.00096 J	0.0012 J	0.001 J	0.00096 J	<0.001	<0.001	<0.0005	0.000951 J	0.000831 J	0.000863 J
Chlorobenzene	0.1	0.1	<0.0003	<0.00047	<0.00047	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00012	<0.00012	<0.00012
Ethylbenzene	0.7	0.7	0.0016	0.00135 J	<0.00025	0.00068 J	0.00058 J	<0.0005	<0.0005	<0.0011	0.0017 J	<0.0005	0.000408 J	0.000203 J	0.000275 J
Methylene chloride	0.005	0.005	<0.001	<0.00054	<0.00054	<0.0005	<0.0005	<0.0005	<0.0005	<0.0013	<0.0013	<0.001	<0.00015	<0.00015	<0.00015
Toluene	1	1	<0.0002	<0.00041	<0.00041	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	0.000323 J	0.000263 J	0.000305 J
Vinyl chloride	0.002	0.002													
Xylenes (total)	10	10	0.0026	<0.00127	<0.00127	<0.001	<0.001	<0.001	<0.001	<0.0031	<0.0031	<0.0015	0.000604 J	0.000839 J	0.000581 J
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.000021	<0.00008	<0.00008	<0.0001	<0.0001	<0.0001	<0.0001	<0.00005	<0.00005	<0.00005	<0.0104	<0.000107	<0.00106
2,4-Dimethylphenol	0.49	1.5	<0.00004	<0.00029	<0.00032	<0.00008	<0.00008	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005	113	<0.000301	<0.00298
2,4-Dinitrotoluene	0.0013	0.003	<0.000058	<0.0002	<0.00021	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.0123	<0.000126	<0.00125
2,6-Dinitrotoluene	0.0013	0.003	<0.000042	<0.0002	<0.00021	<0.00007	<0.00007	<0.00007	<0.00007	<0.00006	<0.00006	<0.00006	<0.00755	<0.0000777	<0.000769
2-Chloronaphthalene	2	5.8	<0.000021	<0.00039	<0.00042	<0.00012	<0.0001	<0.0001	<0.0001	<0.00005	<0.00005	<0.00005	<0.00755	<0.0000777	<0.000769
2-Methylnaphthalene	0.098	0.29	0.013	<0.00039	<0.00042	0.000084 J	<0.00007	<0.00007	<0.00007	<0.00005	0.000099 J	0.00022	0.35	<0.000068	<0.000673
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00002	<0.0002	<0.00053	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.0783	<0.000806	<0.00798
4-Nitrophenol	0.049	0.15	<0.000047	<0.00024	<0.00026	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.0528	<0.000544	<0.00538
Acenaphthene	1.5	4.4	0.019	0.0293	0.103	0.034	0.0097	0.013	0.032	0.016	0.041	0.042	0.13	0.0574	0.0912
Acenaphthylene	1.5	4.4	0.00018	<0.00029	0.000651	0.00052	0.00041	0.00062	0.0011	0.0012	0.0013	0.002	<0.00566	0.00268	<0.000577
Anthracene	7.3	22	0.0018	<0.0002	0.000731	0.00078	0.00031	<0.00007	<0.00007	<0.00005	0.00021	0.00045	0.0191 J	0.0000945 J	<0.000481
Benzo(a)anthracene	0.0091	0.02	0.00018	<0.0002	<0.00021	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.00755	<0.0000777	<0.000769
Benzo(a)pyrene	0.0002	0.0002	<0.00002	<0.0002	<0.00021	<0.00008	<0.00008	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005	<0.00755	<0.0000777	<0.000769
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00003	<0.00039	<0.00042	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.0123	<0.000126	<0.00125
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	<0.000037	0.00044 J	<0.00021	<0.0002	<0.00065	<0.00059	0.00044	<0.00057	<0.0001	<0.00012	<0.0349	<0.000359	<0.00356
Chrysene	0.91	2	0.00015	<0.0002	<0.00021	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.00755	<0.0000777	<0.000769
Dibenzofuran	0.098	0.29	0.0097	0.0336	0.0904	0.034	0.0075	0.005	0.018	0.0046	0.027	0.021	0.116	0.0141	0.0317
Di-n-butylphthalate (DBP)	2.4	7.3	<0.00002	<0.0002	<0.00021	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	0.000059 J	<0.0104	<0.000107	<0.00106
Fluoranthene	0.98	2.9	0.0037	0.000607	0.00103	0.0006	0.00029	0.0002 J	0.0003	0.00031	0.0016	0.00079	<0.0066	0.000634	0.00158 J
Fluorene	0.98	2.9	0.0098	0.00328	0.00278	0.0027	0.0011	0.00071	0.0017	0.00074	0.0025	0.0014	0.0769	0.00159	0.00224 J
Naphthalene	0.49	1.5	0.32	0.00137	0.00195	0.0016	<0.00057	<0.00094	0.00091	<0.00046	0.0011	0.0018	89.7	<0.00122	<0.00182
Nitrobenzene	0.049	0.15	<0.000024	<0.00039	<0.00042	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.0104	<0.000107	<0.00106
N-Nitrosodiphenylamine	0.19	0.42	<0.000025	<0.00024	<0.00026	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.00943	<0.0000971	<0.000962
Pentachlorophenol	0.001	0.001	<0.000079	<0.0002	<0.00021	<0.00008	<0.00008	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005	<0.00575	<0.000592	<0.00587
Phenanthrene	0.73	2.2	0.0087	<0.0002	0.00028 J	<0.00007	0.00014 J	<0.00007	<0.00007	0.00019 J	0.0015	0.00038	0.0868	0.000354 J	<0.000577
Phenol	7.3	22	<0.000035	<0.0002	<0.00021	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	61.8	<0.0000388	<0.000385
Pyrene	0.73	2.2	0.0021	0.000542	0.00052	0.00027	0.00012 J	0.00011 J	0.00015 J	0.00018 J	0.00093	0.00046	<0.0104	0.00037 J	<0.00106
Metals															
Arsenic	0.01	0.01	0.0131												

Notes:

- All values in milligrams per liter (mg/L).
- Concentrations > RAL and non-detects are highlighted light gray.
- Concentrations > C/I AL and non-detects are highlighted dark gray
- TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
- RAL = Residential Assessment Level, C/I = Commercial/Industrial
- J = Estimated value, < = not detected at the specified detection limit.
- MW-32A was screened in the B-CZ & replaced with MW-32AR
- Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-15C 07/17/2014	MW-15C 01/23/2018	MW-15C 03/18/2018	MW-15C 05/15/2018	MW-15C 01/08/2019	MW-15C 07/10/2019	MW-15C 01/14/2020	MW-15C 07/14/2020	MW-16 01/31/2008	MW-16 07/15/2008	MW-16 02/05/2009	MW-16 01/18/2010	MW-16 06/23/2010
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.00014	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00052	<0.00052	<0.0025	<0.0025	<0.0025
Benzene	0.005	0.005	0.000781 J	0.00063 J	0.00053 J	0.00052 J	0.00058 J	0.0005 J	0.00059 J	0.00045 J	0.0383	0.11	0.048	0.031	0.058
Chlorobenzene	0.1	0.1	<0.00012	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00047	<0.00047	<0.0025	<0.0025	<0.0025
Ethylbenzene	0.7	0.7	0.000219 J	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.037	0.084	0.034	0.021 J	0.032
Methylene chloride	0.005	0.005	<0.00015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00054	<0.00054	<0.0025	<0.0025	<0.0062
Toluene	1	1	0.00019 J	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.00619	0.0382	0.0025 J	0.0034 J	0.01 J
Vinyl chloride	0.002	0.002													
Xylenes (total)	10	10	0.000392 J	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.052	0.121	0.036 J	0.027 J	0.04 J
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.000104	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.00008	<0.0004	<0.0001	<0.0001	<0.0001
2,4-Dimethylphenol	0.49	1.5	<0.000292	<0.00004	<0.00004	<0.00004	<0.00004	0.0052	<0.00004	<0.00004	<0.00029	<0.0016	0.0039	0.0025	0.0054
2,4-Dinitrotoluene	0.0013	0.003	<0.000123	<0.000058	<0.000058	<0.000059	<0.000058	<0.000058	<0.000058	<0.000058	<0.00019	<0.0011	<0.00009	<0.00009	<0.00009
2,6-Dinitrotoluene	0.0013	0.003	<0.0000755	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.00019	<0.0011	<0.00007	<0.00007	<0.00007
2-Chloronaphthalene	2	5.8	<0.0000755	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.00038	<0.0021	<0.00012	<0.0001	<0.0001
2-Methylnaphthalene	0.098	0.29	<0.000066	<0.000019	<0.000019	<0.000019	<0.000019	<0.000066	<0.000019	<0.000019	0.0747	0.175	0.13	0.079	0.04
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.000783	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00019	<0.0026	<0.00008	<0.00008	<0.00008
4-Nitrophenol	0.049	0.15	<0.000528	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.00024	<0.0013	<0.00007	<0.00007	<0.00007
Acenaphthene	1.5	4.4	0.0455	0.027	0.021	0.02	0.02	0.017	0.016	0.049	0.215	0.939	0.24	0.21	0.18
Acenaphthylene	1.5	4.4	0.00342	0.0027	0.002	0.0022	0.0014	0.0015	0.00089	0.00055	<0.00029	0.0067	0.0044	0.0041	0.0031
Anthracene	7.3	22	0.000315 J	0.00047	0.000095 J	0.000067 J	0.00031	0.00064	0.00057	0.00038 J	0.0151	0.0321	0.011	0.0084	0.0076
Benzo(a)anthracene	0.0091	0.02	<0.0000755	<0.00005	<0.00005	<0.000051	<0.00005	<0.00005	<0.00005	<0.00005	<0.00019	<0.0011	0.00014 J	0.00011 J	<0.00007
Benzo(a)pyrene	0.0002	0.0002	<0.0000755	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00019	<0.0011	<0.00008	<0.00008	<0.00008
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.000123	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00038	<0.0021	<0.00009	<0.00009	<0.00009
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	0.000526	<0.000067	<0.000037	0.000072 J	<0.000037	<0.000037	<0.000037	0.000065 J	<0.00019	<0.0011	0.0005	<0.0012	<0.0014
Chrysene	0.91	2	<0.0000755	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	0.00036 J	<0.0011	0.00014 J	0.000088 J	<0.00007
Dibenzofuran	0.098	0.29	0.0102	0.0081	0.0029	0.0046	0.0053	0.0039	0.0045	0.00074	0.112	0.253	0.14	0.12	0.091
Di-n-butylphthalate (DBP)	2.4	7.3	<0.000104	<0.00002	<0.00002	0.000037 J	<0.00002	<0.00002	<0.00002	<0.00002	<0.00019	<0.0011	0.00025	<0.00007	<0.00007
Fluoranthene	0.98	2.9	0.000763	0.00094	0.00054	0.00074	0.00075	0.00086	0.00066	0.00032	0.00769	0.0142	0.0064	0.0037	0.0049
Fluorene	0.98	2.9	0.00135	0.001	0.00045	0.00064	0.00056	0.00097	0.00051	0.00017	0.114	0.222	0.088	0.096	0.086
Naphthalene	0.49	1.5	<0.000748	0.00042	<0.00031	<0.00039	<0.00032	0.019	0.00024	<0.00016	1.9	18.9	4.1	1.9	1.4
Nitrobenzene	0.049	0.15	<0.000104	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.00038	<0.0021	<0.00009	<0.00009	<0.00009
N-Nitrosodiphenylamine	0.19	0.42	<0.0000943	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.00024	<0.0013	<0.00009	<0.00009	<0.00009
Pentachlorophenol	0.001	0.001	<0.000575	<0.000079	<0.000079	<0.00008	<0.000079	<0.000079	<0.000079	<0.000079	<0.00019	<0.0011	<0.00008	<0.00008	<0.00008
Phenanthrene	0.73	2.2	<0.0000566	<0.000021	0.00019	0.00041	<0.000021	<0.00039	0.00008 J	0.00031	0.0421	0.0743	0.04	0.038	0.042
Phenol	7.3	22	<0.0000377	<0.000035	<0.000035	<0.000035	<0.000035	<0.00026	<0.000035	<0.000035	<0.00019	0.0047	0.00022	0.00013 J	<0.00007
Pyrene	0.73	2.2	0.00043 J	0.00049	0.00035	0.00043	0.00041	0.00043	0.00038	0.00029	0.00615	0.0114	0.004	0.0027	0.0025
Metals															
Arsenic	0.01	0.01		0.000738 J	0.000598 J	0.000777 J	0.000629 J	0.000889 J	0.000773 J	0.000914 J					

- Notes:
- All values in milligrams per liter (mg/L).
 - Concentrations > RAL and non-detects are highlighted light gray.
 - Concentrations > C/I AL and non-detects are highlighted dark gray
 - TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
 - RAL = Residential Assessment Level, C/I = Commercial/Industrial
 - J = Estimated value, < = not detected at the specified detection limit.
 - MW-32A was screened in the B-CZ & replaced with MW-32AR
 - Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-16 01/18/2011	MW-16 07/14/2011	MW-16 02/01/2012	MW-16 07/16/2012	MW-16 01/30/2013	MW-17 01/31/2008	MW-17 07/15/2008	MW-17 02/04/2009	MW-17 01/18/2010	MW-17 06/23/2010	MW-17 01/17/2011	MW-17 07/13/2011	MW-17 02/01/2012
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.0025	<0.01	<0.01	<0.0005	<0.00014	<0.00052	<0.01	<0.0005	<0.0025	<0.0025	<0.0025	<0.001	<0.005
Benzene	0.005	0.005	0.025 J	0.068	0.025 J	0.056	0.0376	0.545	0.448	0.65	0.59	0.65	0.31	0.45	0.24
Chlorobenzene	0.1	0.1	<0.0025	<0.01	<0.01	<0.0005	0.00051 J	<0.00047	<0.0094	<0.0005	<0.0025	<0.0025	<0.0025	<0.001	<0.005
Ethylbenzene	0.7	0.7	0.023 J	0.038 J	0.021 J	0.027	0.0211	0.193	0.142	0.26	0.26	0.2	0.21	0.21	0.23
Methylene chloride	0.005	0.005	<0.0025	<0.013	<0.013	<0.001	<0.00015	<0.00054	<0.011	<0.0005	<0.0025	<0.0056	<0.0025	<0.0013	<0.0065
Toluene	1	1	<0.0025	<0.01	<0.01	0.007	0.00095 J	0.909	0.728	1.1	1	0.88	0.97	0.85	0.74
Vinyl chloride	0.002	0.002													
Xylenes (total)	10	10	0.025 J	<0.031	<0.031	0.034	0.0348	0.582	0.44	0.55	0.72	0.61	0.64	0.54	0.63
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.0001	<0.00005	<0.00005	<0.00005	<0.000104	<0.002	<0.008	<0.0001	0.001 J	<0.001	<0.0001	<0.00005	<0.0005
2,4-Dimethylphenol	0.49	1.5	0.0022 J	0.012	0.00077	0.0054	<0.000292	11.7	13.4	2.6	3.7	13	3.9 J	2.7	3
2,4-Dinitrotoluene	0.0013	0.003	<0.00009	<0.00005	<0.00005	<0.00005	<0.000123	<0.0038	<0.021	<0.00009	0.0009 J	<0.0009	<0.00009	<0.00005	<0.0005
2,6-Dinitrotoluene	0.0013	0.003	<0.00007	<0.00006	<0.00006	<0.00006	<0.0000755	<0.0038	<0.021	<0.00007	0.0007 J	<0.0007	<0.00007	<0.00006	<0.0006
2-Chloronaphthalene	2	5.8	<0.0001	<0.00005	<0.00005	<0.00005	<0.0000755	<0.0076	<0.042	<0.00012	0.001 J	<0.001	<0.0001	<0.00005	<0.0005
2-Methylnaphthalene	0.098	0.29	0.038	0.082	0.034	0.045	0.0467 J	0.42	0.582	0.27	0.56 J	0.39	0.97	0.75	0.29
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00008	<0.00008	<0.00008	<0.00008	<0.000783	<0.0038	<0.053	<0.00008	0.0008 J	<0.0008	<0.00008	<0.00008	<0.0008
4-Nitrophenol	0.049	0.15	<0.00007	<0.00005	<0.00005	<0.00005	<0.000528	<0.0048	<0.026	<0.00007	0.0007 J	<0.0007	<0.00007	<0.00005	<0.0005
Acenaphthene	1.5	4.4	0.21	0.23	0.21	0.28	0.281	0.137	0.241	0.094	0.17 J	0.071	0.52	0.22	0.13
Acenaphthylene	1.5	4.4	0.0035	0.0032	0.0021	0.0028	<0.0000566	<0.0057	<0.032	0.0041	0.0067 J	0.003	0.008	0.0069	0.0056
Anthracene	7.3	22	0.012	0.017	0.0034	0.017	0.0182 J	0.0115	0.022	0.0099	0.013 J	0.0075	0.12	0.014	0.0096
Benzo(a)anthracene	0.0091	0.02	0.00017 J	0.00022	0.000059 J	0.00013 J	0.000339 J	<0.0038	<0.021	0.0004	0.0007 J	<0.0007	0.033	0.00047	<0.0005
Benzo(a)pyrene	0.0002	0.0002	<0.00008	<0.00005	<0.00005	<0.00005	<0.0000755	<0.0038	<0.021	0.00014 J	0.0008 J	<0.0008	0.0097	0.00027	<0.0005
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00009	<0.00005	<0.00005	<0.00005	<0.000123	<0.0076	<0.042	<0.00009	0.0009 J	<0.0009	<0.00009	<0.00005	<0.0005
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	<0.0002	<0.00025	<0.0002	<0.0001	<0.000349	<0.0038	<0.021	<0.0002	0.002 J	<0.002	0.0022	<0.00044	<0.001
Chrysene	0.91	2	0.00011 J	0.00019 J	0.000053 J	0.0001 J	0.000225 J	<0.0038	<0.021	0.00032	0.0007 J	<0.0007	0.025	0.00047	<0.0005
Dibenzofuran	0.098	0.29	0.13	0.13	0.098	0.17	0.158	0.115	0.195	0.079	0.15 J	0.065	0.47	0.19	0.093
Di-n-butylphthalate (DBP)	2.4	7.3	<0.00007	0.000099 J	<0.00005	<0.00005	<0.000104	<0.0038	<0.021	<0.00007	0.0007 J	<0.0007	<0.00007	<0.00005	<0.0005
Fluoranthene	0.98	2.9	0.0059	0.006	0.0021	0.0059	0.00836	0.0044	<0.021	0.0035	0.0037 J	0.0022	0.17	0.0039	0.0026
Fluorene	0.98	2.9	0.12	0.14	0.085	0.15	0.147	0.0701	0.109	0.047	0.076 J	0.039	0.42	0.12	0.059
Naphthalene	0.49	1.5	1.2	1.8	1.8	2.1	1.81	23.6	25.5	9.7	16	15	16	19	10
Nitrobenzene	0.049	0.15	<0.00009	<0.00005	<0.00005	<0.00005	<0.000104	<0.0076	<0.042	<0.00009	0.0009 J	<0.0009	<0.00009	<0.00005	<0.0005
N-Nitrosodiphenylamine	0.19	0.42	<0.00009	<0.00005	<0.00005	<0.00005	<0.0000943	<0.0048	<0.026	<0.00009	0.0009 J	<0.0009	<0.00009	<0.00005	<0.0005
Pentachlorophenol	0.001	0.001	<0.00008	0.000061 J	<0.00005	<0.00005	<0.000575	<0.0038	<0.021	<0.00008	0.0008 J	<0.0008	<0.00008	<0.00005	<0.0005
Phenanthrene	0.73	2.2	0.045	0.058	0.042	0.07	0.0614	0.0502	0.099	0.038	0.06 J	0.033	0.91	0.078	0.042
Phenol	7.3	22	0.000074 J	0.000067 J	0.00015 J	0.000088 J	<0.0000377	20.2	16.5	5.5	7.7	19	3.6	3.1	3.7
Pyrene	0.73	2.2	0.0034	0.005	0.0017	0.0034	0.0059	0.0076	<0.021	0.002	0.0021 J	0.0012 J	0.12	0.0019	0.0018 J
Metals															
Arsenic	0.01	0.01													

Notes:

- All values in milligrams per liter (mg/L).
- Concentrations > RAL and non-detects are highlighted light gray.
- Concentrations > C/I AL and non-detects are highlighted dark gray
- TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
- RAL = Residential Assessment Level, C/I = Commercial/Industrial
- J = Estimated value, < = not detected at the specified detection limit.
- MW-32A was screened in the B-CZ & replaced with MW-32AR
- Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-17 07/12/2012	MW-17 02/14/2013	MW-17 02/14/2013 Duplicate	MW-17 04/01/2013	MW-17 04/01/2013 Duplicate	MW-17 07/30/2013	MW-17 01/13/2014	MW-17 07/17/2014	MW-17 01/30/2018	MW-17 03/18/2018	MW-17 05/16/2018	MW-17 01/09/2019	MW-17 07/10/2019
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.005			<0.007	<0.007	<0.014	<0.007	<0.0028	<0.0002	<0.0002	<0.002	<0.002	<0.0002
Benzene	0.005	0.005	0.46			0.435	0.41	0.174	0.324	0.576	0.47	0.55	0.61	0.35	0.54
Chlorobenzene	0.1	0.1	<0.005			<0.006	<0.006	<0.012	<0.006	<0.0024	<0.0003	<0.0003	<0.003	<0.003	<0.0003
Ethylbenzene	0.7	0.7	0.21			0.217	0.22	0.279	0.251	0.209	0.26	0.19	0.23	0.21	0.23
Methylene chloride	0.005	0.005	<0.01			<0.0075	<0.0075	0.115	<0.0075	0.0187 J	<0.001	<0.001	<0.01	<0.01	<0.001
Toluene	1	1	0.81			0.878	0.861	0.68	0.931	0.93	0.97	0.83	0.82	0.68	0.83
Vinyl chloride	0.002	0.002													
Xylenes (total)	10	10	0.69			0.702	0.672	0.698	0.724	0.641	0.81	0.47	0.77	0.66	0.78
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.00005	<0.038	<0.038	<0.0423	<0.0423	<0.00534	<0.0529	<0.00519	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021
2,4-Dimethylphenol	0.49	1.5	4	7.93	7.03	11.3	10.4	3.19	6.75	13.9	4.3	7.7	4.2	1.9	5.9
2,4-Dinitrotoluene	0.0013	0.003	<0.00005	<0.032	<0.032	<0.05	<0.05	<0.00631	<0.0625	<0.00613	<0.00058	<0.00058	<0.00059	<0.00058	<0.00058
2,6-Dinitrotoluene	0.0013	0.003	<0.00006	<0.029	<0.029	<0.0308	<0.0308	<0.00388	<0.0385	<0.00377	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042
2-Chloronaphthalene	2	5.8	<0.00005	<0.019	<0.019	<0.0308	<0.0308	<0.00388	<0.0385	<0.00377	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021
2-Methylnaphthalene	0.098	0.29	0.51	0.443	0.421	1.04	1.24	1.04	0.857	0.636	0.3	0.38	0.34	0.23	0.39
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00008	<0.016	<0.016	<0.319	<0.319	<0.0403	<0.399	<0.0392	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
4-Nitrophenol	0.049	0.15	<0.00005	<0.033	<0.033	<0.215	<0.215	<0.0272	<0.269	<0.0264	<0.00047	<0.00047	0.0076 J	<0.00047	<0.00047
Acenaphthene	1.5	4.4	0.14	0.159	0.155	0.36	0.369	0.353	0.315	0.195	0.084	0.13	0.11	0.091	0.16
Acenaphthylene	1.5	4.4	0.005	<0.016	<0.016	<0.0231	<0.0231	0.0147 J	<0.0288	<0.00283	0.0029	<0.00015	0.0041	0.0029	0.0042
Anthracene	7.3	22	0.014	<0.044	<0.044	0.0192 J	0.0822 J	0.0233 J	0.0278 J	0.0202 J	0.0065	0.011	0.0094	0.0057	0.0092
Benzo(a)anthracene	0.0091	0.02	0.00018 J	<0.025	<0.025	<0.0308	<0.0308	<0.00388	<0.0385	<0.00377	<0.0005	<0.0005	<0.00051	<0.0005	<0.0005
Benzo(a)pyrene	0.0002	0.0002	<0.00005	<0.013	<0.013	<0.0308	<0.0308	<0.00388	<0.0385	<0.00377	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00005	<0.019	<0.019	<0.05	<0.05	<0.00631	<0.0625	<0.00613	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	0.00027	<0.059	<0.059	<0.142	<0.142	<0.018	<0.178	<0.0175	<0.00037	<0.00037	<0.00037	<0.00037	<0.00037
Chrysene	0.91	2	0.00011 J	<0.024	<0.024	<0.0308	<0.0308	<0.00388	<0.0385	<0.00377	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021
Dibenzofuran	0.098	0.29	0.13	0.133 J	0.128 J	0.275	0.234	0.253	0.211 J	0.148	0.071	0.092	0.082	0.072	0.12
Di-n-butylphthalate (DBP)	2.4	7.3	<0.00005	<0.187	<0.187	<0.0423	<0.0423	<0.00534	<0.0529	<0.00519	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Fluoranthene	0.98	2.9	0.0034	<0.031	<0.031	<0.0269	<0.0269	0.00667 J	<0.0337	0.00429 J	0.0022	0.003	0.0022	0.0015	0.0039
Fluorene	0.98	2.9	0.082	0.0672 J	0.0489 J	0.146 J	0.0718 J	0.165	0.16 J	0.0943	0.04	0.057	0.051	0.043	0.06
Naphthalene	0.49	1.5	14	15.3	13.8	25.2	25.6	25.8	21.3	15.4	7.4	12	8.1	5.5	8.9
Nitrobenzene	0.049	0.15	<0.00005	<0.02	<0.02	<0.0423	<0.0423	<0.00534	<0.0529	<0.00519	<0.00024	<0.00024	<0.00024	<0.00024	<0.00024
N-Nitrosodiphenylamine	0.19	0.42	<0.00005	<0.033	<0.033	<0.0385	<0.0385	<0.00485	<0.0481	<0.00472	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
Pentachlorophenol	0.001	0.001	<0.00005	<0.096	<0.096	<0.235	<0.235	<0.0296	<0.293	<0.0288	<0.00079	<0.00079	<0.0008	<0.00079	<0.00079
Phenanthrene	0.73	2.2	0.063	0.0564 J	0.0534 J	0.124 J	0.0231 J	0.123	0.0993 J	0.0725	0.034	0.044	0.044	0.028	0.045
Phenol	7.3	22	6.1	20.7	16.2	22.2	25.1	1.54	6.46	18.1	7.1	18	6.5	2.2	9.9
Pyrene	0.73	2.2	0.0018	<0.033	<0.033	<0.0423	<0.0423	<0.00534	<0.0529	<0.00519	0.0011	0.0015	0.0014	0.00081 J	0.0018
Metals															
Arsenic	0.01	0.01									0.0444	0.0419	0.0415	0.046	0.046

- Notes:
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 - RAL = Residential Assessment Level, C/I = Commercial/Industrial
 - J = Estimated value, < = not detected at the specified detection limit.
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**TABLE 2
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CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-17 01/14/2020	MW-17 07/14/2020	MW-17C 01/30/2008	MW-17C 01/30/2008	MW-17C 07/15/2008	MW-17C 02/04/2009	MW-17C 01/18/2010	MW-17C 06/23/2010	MW-17C 01/17/2011	MW-17C 07/13/2011	MW-17C 02/01/2012	MW-17C 07/12/2012	MW-17C 02/14/2013
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.0002	<0.0002	<0.00052	<0.00052	<0.00052	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.005	<0.0005	<0.0005
Benzene	0.005	0.005	<0.0002	0.41	0.0565	0.0517	0.0426	0.03	0.0083	0.024	0.023	0.01	0.016 J	0.013	
Chlorobenzene	0.1	0.1	<0.0003	<0.0003	<0.00047	<0.00047	<0.00047	<0.0005	<0.0005	<0.0005	<0.001	<0.005	<0.0005	<0.0005	<0.0005
Ethylbenzene	0.7	0.7	<0.0003	0.2	0.292	0.312	0.226	0.17	0.053	0.2	0.21	0.19	0.17		
Methylene chloride	0.005	0.005	<0.001	<0.001	<0.00054	<0.00054	<0.00054	<0.0005	<0.0005	<0.0005	<0.0005	<0.0013	<0.0065	<0.001	
Toluene	1	1	<0.0002	0.65	0.0137	0.014	0.0102	0.008	0.0042 J	0.0071	0.0081	0.0046 J	0.0067 J	0.0057	
Vinyl chloride	0.002	0.002													
Xylenes (total)	10	10	<0.0003	0.6	0.485	0.485	0.353	0.25	0.046	0.33	0.42 J	0.029	0.22	0.21	
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.000021	<0.000021	<0.0008	<0.04	<0.00008	<0.0001	<0.0001	<0.0001	<0.0001	<0.00005	<0.00005	<0.00005	<0.038
2,4-Dimethylphenol	0.49	1.5	<0.00004	11	<0.0029	<0.14	0.00054 J	0.0028	0.044	0.0018	0.0035 J	1.5	<0.00005	0.039	0.0418 J
2,4-Dinitrotoluene	0.0013	0.003	<0.000058	<0.000058	<0.0019	<0.096	<0.00021	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.032
2,6-Dinitrotoluene	0.0013	0.003	<0.000042	<0.000042	<0.0019	<0.096	<0.00021	<0.00007	<0.00007	<0.00007	<0.00007	<0.00006	<0.00006	<0.00006	<0.029
2-Chloronaphthalene	2	5.8	<0.000021	<0.000021	<0.0038	<0.19	<0.00042	<0.00012	<0.0001	<0.0001	<0.0001	<0.00005	<0.00005	<0.00005	<0.019
2-Methylnaphthalene	0.098	0.29	<0.000019	0.62	1.09	0.418	0.0954	0.085	0.063	0.099	0.075	0.0073	0.062	0.1	0.173
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00002	<0.0002	<0.0019	<0.096	<0.00053	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.016
4-Nitrophenol	0.049	0.15	<0.000047	<0.000047	<0.0024	<0.12	<0.00026	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.033
Acenaphthene	1.5	4.4	<0.000027	0.25	0.726	0.339	0.227	0.14	0.13	0.14	0.18	0.021	0.097	0.14	0.194
Acenaphthylene	1.5	4.4	<0.000015	0.0039	<0.0029	<0.14	0.00251	0.0012	0.0013	0.0016	0.0017	0.00028	0.0011	0.0018	<0.016
Anthracene	7.3	22	<0.000014	0.0086	0.178	<0.096	0.00985	0.0084	0.0057	0.0071	0.015	0.0016	0.0048	0.008	<0.044
Benzo(a)anthracene	0.0091	0.02	<0.00005	<0.0005	0.0466	<0.096	<0.00021	0.00018 J	0.00013 J	0.00016 J	0.0012	0.00017 J	0.00009 J	0.00022	<0.025
Benzo(a)pyrene	0.0002	0.0002	<0.00002	<0.0002	0.0128	<0.096	<0.00021	<0.00008	<0.00008	<0.00008	0.00027	<0.00005	<0.00005	<0.00005	<0.013
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00003	<0.0003	<0.0038	<0.19	<0.00042	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.019
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	<0.000037	<0.000037	<0.0019	<0.096	0.00021 J	<0.0002	<0.0039	<0.0018	0.0015	<0.012	<0.001	0.0048	<0.059
Chrysene	0.91	2	<0.000021	<0.000021	0.0428	<0.096	<0.00021	0.00017 J	0.00012 J	0.00017 J	0.001	<0.00005	0.00013 J	0.00016 J	<0.024
Dibenzofuran	0.098	0.29	<0.00002	0.1	0.61	0.291	0.19	0.13	0.11	0.13	0.19	0.021	0.096	0.14	0.16
Di-n-butylphthalate (DBP)	2.4	7.3	<0.00002	<0.0002	<0.0019	<0.096	<0.00021	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.187
Fluoranthene	0.98	2.9	0.00011	0.003	0.322	<0.096	0.00845	0.007	0.0044	0.005	0.019	0.0018	0.002	0.0048	<0.031
Fluorene	0.98	2.9	<0.00003	0.066	0.422	0.167	0.0799	0.062	0.055	0.069	0.083	0.009	0.054	0.066	0.0785 J
Naphthalene	0.49	1.5	<0.00002	18	9.8	6.35	5.84	3.4	2.2	3.4	4.1	0.37	3.3	4	0.988
Nitrobenzene	0.049	0.15	<0.000024	<0.000024	<0.0038	<0.19	<0.00042	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.02
N-Nitrosodiphenylamine	0.19	0.42	<0.000025	<0.000025	<0.0024	<0.12	<0.00026	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.033
Pentachlorophenol	0.001	0.001	<0.000079	<0.000079	<0.0019	<0.096	<0.00021	<0.00008	<0.00008	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005	<0.096
Phenanthrene	0.73	2.2	<0.000021	0.048	1.09	0.316	0.104	0.078	0.058	0.08	0.076	0.014	0.0081	0.076	0.106 J
Phenol	7.3	22	<0.000035	33	<0.0019	<0.096	0.0349	0.0013	0.14	<0.00007	0.00078	0.025	0.00014 J	<0.0002	0.107 J
Pyrene	0.73	2.2	0.000066 J	0.0017	0.19	<0.096	0.00445	0.0033	0.0028	0.0026	0.009	0.00098	0.0025	0.0028	<0.033
Metals															
Arsenic	0.01	0.01	0.00154 J	0.0514											

- Notes:
- All values in milligrams per liter (mg/L).
 - Concentrations > RAL and non-detects are highlighted light gray.
 - Concentrations > C/I AL and non-detects are highlighted dark gray
 - TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
 - RAL = Residential Assessment Level, C/I = Commercial/Industrial
 - J = Estimated value, < = not detected at the specified detection limit.
 - MW-32A was screened in the B-CZ & replaced with MW-32AR
 - Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	<i>Residential Assessment Level</i>	<i>C/I PCL</i>	MW-17C 04/01/2013	MW-17C 07/30/2013	MW-17C 01/13/2014	MW-17C 07/17/2014	MW-17C 01/31/2018	MW-17C 03/18/2018	MW-17C 05/16/2018	MW-17C 01/10/2019	MW-17C 07/10/2019	MW-17C 01/15/2020	MW-17C 07/14/2020	MW-18A 01/30/2008	MW-18A 07/15/2008
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.0014	<0.0014	<0.0007	<0.00014	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.00052	<0.00052
Benzene	0.005	0.005	0.0114	0.0162	0.00939	0.0132	0.014	0.0067	0.0099	0.012	0.0097	<0.0002	0.0071	0.503	0.321
Chlorobenzene	0.1	0.1	<0.0012	<0.0012	<0.0006	<0.00012	<0.0003	<0.0003	<0.0015	<0.0003	<0.0003	<0.0003	<0.0003	0.0167	0.0074
Ethylbenzene	0.7	0.7	0.161	0.225	0.123	0.0374	0.042	0.16	0.12	0.027	0.027	<0.0003	0.11	0.555	0.153
Methylene chloride	0.005	0.005	0.00368 J	0.00786 J	<0.00075	<0.00015	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.00054	<0.00054
Toluene	1	1	0.0049 J	0.00743 J	0.00471 J	0.0073	0.0097	0.0038	0.0069	0.0087	0.0073	<0.0002	0.0036	0.374	0.0718
Vinyl chloride	0.002	0.002											--		
Xylenes (total)	10	10	0.217	0.27	0.141	0.0482	0.071	0.1	0.094	0.05	0.039	<0.0003	0.056	1.13	0.292
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.000106	<0.0107	<0.0106	<0.00519	<0.00021	<0.00021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.008	<0.0008
2,4-Dimethylphenol	0.49	1.5	<0.000298	<0.0301	<0.0298	7.09	0.59	0.03	0.08	0.47	0.21	<0.00004	0.17	12.5	2.17
2,4-Dinitrotoluene	0.0013	0.003	<0.000125	<0.0126	<0.0125	<0.00613	<0.00058	<0.00058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.02	<0.002
2,6-Dinitrotoluene	0.0013	0.003	<0.0000769	<0.00777	<0.00769	<0.00377	<0.00042	<0.00042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.02	<0.002
2-Chloronaphthalene	2	5.8	<0.0000769	<0.00777	<0.00769	<0.00377	<0.00021	<0.00021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.041	<0.004
2-Methylnaphthalene	0.098	0.29	0.176	0.151	0.144	0.0203 J	0.094	0.12	1.1	0.025	0.026	0.000073 J	0.048	0.548	0.594
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.000798	<0.0806	<0.0798	<0.0392	<0.0002	<0.0002	<0.00002	<0.00002	<0.00002	<0.00002	<0.0002	<0.02	<0.005
4-Nitrophenol	0.049	0.15	0.00502	<0.0544	<0.0538	<0.0264	0.0035 J	<0.00047	0.0017	<0.00047	<0.00047	<0.00047	<0.00047	<0.026	<0.0025
Acenaphthene	1.5	4.4	0.216	0.239	0.218	0.0299	0.043	0.15	1.4	0.031	0.035	0.00023	0.079	0.343	0.466
Acenaphthylene	1.5	4.4	<0.0000577	<0.00583	<0.00577	<0.00283	0.00076 J	0.002	0.0017	0.00047	0.00037	<0.000015	0.0011	<0.031	0.0131
Anthracene	7.3	22	0.011	0.0144 J	0.0156 J	<0.00236	0.0017	0.01	0.0088	0.0012	0.0013	<0.000014	0.0063	<0.02	0.0114
Benzo(a)anthracene	0.0091	0.02	0.00016 J	<0.00777	<0.00769	<0.00377	<0.0005	<0.0005	0.00011	0.000062 J	<0.00005	<0.00005	<0.0005	<0.02	<0.002
Benzo(a)pyrene	0.0002	0.0002	<0.0000769	<0.00777	<0.00769	<0.00377	<0.0002	<0.0002	<0.00002	<0.00002	<0.00002	<0.00002	<0.0002	<0.02	<0.002
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.000125	<0.0126	<0.0125	<0.00613	<0.0003	<0.0003	<0.00003	<0.00003	<0.00003	<0.00003	<0.0003	<0.041	<0.004
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	0.00148	<0.0359	0.0491 J	<0.0175	0.005	0.0053	0.0018	0.00062	0.00056	<0.000037	<0.00037	<0.02	<0.002
Chrysene	0.91	2	0.000167 J	<0.00777	<0.00769	<0.00377	<0.00021	<0.00021	0.00011	0.000059 J	<0.000021	<0.000021	<0.00021	<0.02	<0.002
Dibenzofuran	0.098	0.29	0.185	0.199	0.184	0.0255	0.039	0.13	0.099	0.027	0.027	0.000065 J	0.068	0.233	0.29
Di-n-butylphthalate (DBP)	2.4	7.3	<0.000106	<0.0107	<0.0106	<0.00519	<0.0002	<0.0002	0.000058 J	<0.00002	<0.00002	<0.00002	<0.0002	<0.02	<0.002
Fluoranthene	0.98	2.9	0.00784	0.00795 J	0.00707 J	<0.0033	0.00073 J	0.0056	0.0044	0.00078	0.0009	0.00034	0.0034	<0.02	0.0021
Fluorene	0.98	2.9	0.0989	0.103	0.0907	0.0118 J	0.019	0.066	0.06	0.012	0.014	0.000061 J	0.042	0.155	0.182
Naphthalene	0.49	1.5	5.9	4.4	6.24	0.772	1.8	4.8	53	1.1	0.97	0.00016	2.6	7.93	7.43
Nitrobenzene	0.049	0.15	<0.000106	<0.0107	<0.0106	<0.00519	<0.00024	<0.00024	<0.000024	<0.000024	<0.000024	<0.000024	<0.00024	<0.041	<0.004
N-Nitrosodiphenylamine	0.19	0.42	<0.0000962	<0.00971	<0.00962	<0.00472	<0.00025	<0.00025	<0.000025	<0.000025	<0.000025	<0.000025	<0.00025	<0.026	<0.0025
Pentachlorophenol	0.001	0.001	<0.000587	<0.0592	<0.0587	<0.0288	<0.00079	<0.00079	<0.000079	<0.000079	<0.000079	<0.000079	<0.00079	<0.02	<0.002
Phenanthrene	0.73	2.2	0.12	0.12	0.11	0.0122 J	0.014	0.071	0.07	0.01	0.01	<0.000021	0.047	0.118	0.12
Phenol	7.3	22	<0.0000385	<0.00388	<0.00385	8.33	0.0025	0.0036	0.00022	0.033	0.00073	<0.000035	0.18	0.364	<0.002
Pyrene	0.73	2.2	0.00356	<0.0107	<0.0106	<0.00519	0.00031 J	0.0031	0.0025	0.00045	0.00046	0.00021	0.0017	<0.02	<0.002
Metals															
Arsenic	0.01	0.01					0.00112 J	0.00688	0.00479	0.0013 J	0.000854 J	0.00184 J	0.00531		

- Notes:
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 - Concentrations > C/I AL and non-detects are highlighted dark gray
 - TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
 - RAL = Residential Assessment Level, C/I = Commercial/Industrial
 - J = Estimated value, < = not detected at the specified detection limit.
 - MW-32A was screened in the B-CZ & replaced with MW-32AR
 - Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	<i>Residential Assessment Level</i>	<i>C/I PCL</i>	MW-18A 02/05/2009	MW-18A 01/18/2010	MW-18A 06/24/2010	MW-18A 01/17/2011	MW-18A 07/13/2011	MW-18A 02/01/2012	MW-18A 07/11/2012	MW-18A 01/31/2013	MW-18A 07/29/2013	MW-18A 01/13/2014	MW-18A 07/16/2014	MW-18A 01/25/2018	MW-18A 03/19/2018
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.0025	<0.005	<0.0025	<0.0025	<0.005	<0.005	<0.005	<0.007	0.00405 J	<0.014	0.00482 J	<0.0002	<0.0002
Benzene	0.005	0.005	0.48	0.51	0.47	0.55	0.59	0.28	0.68	0.636	0.491	0.239	0.483	0.19	0.22
Chlorobenzene	0.1	0.1	0.017 J	<0.005	<0.0025	<0.0025	<0.005	<0.005	<0.005	<0.006	<0.0012	<0.012	<0.0024	0.0062	0.006
Ethylbenzene	0.7	0.7	0.52	0.48	0.54	0.55	0.39	0.55	0.3	0.316	0.398	0.637	0.692	0.36	0.36
Methylene chloride	0.005	0.005	<0.0025	<0.005	<0.0025	<0.0025	<0.0065	<0.0065	<0.01	<0.0075	0.00976 J	<0.015	0.0138 J	<0.001	<0.001
Toluene	1	1	0.23	0.32	0.45	0.35	0.23	0.21	0.21	0.154	0.239	0.0731 J	0.416	0.074	0.068
Vinyl chloride	0.002	0.002		0.059		0.07	0.028	0.047	<0.005	0.0181 J	0.029	<0.011	0.02 J	0.0023	0.002
Xylenes (total)	10	10	0.98	1.2	1.2	1	0.73	1.1	0.51	0.519	0.991	1.27	1.3	0.97	0.79
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.0001	<0.0001	<0.0005	<0.0001	<0.00005	<0.0005	0.00005 J	<0.00108	<0.0214	<0.0106	<0.00519	<0.00021	<0.00021
2,4-Dimethylphenol	0.49	1.5	1.9	4.5	7.9	9.6 J	11	5.8	9.4 J	11.8	6.29	2.95	8.01	0.023	0.12
2,4-Dinitrotoluene	0.0013	0.003	<0.00009	<0.00009	<0.00045	<0.00009	<0.00005	<0.0005	0.00005 J	<0.00127	<0.0252	<0.0125	<0.00613	<0.00058	<0.00058
2,6-Dinitrotoluene	0.0013	0.003	<0.00007	<0.00007	<0.00035	<0.00007	<0.00006	<0.00006	0.00006 J	<0.000784	<0.0155	<0.00769	<0.00377	<0.00042	<0.00042
2-Chloronaphthalene	2	5.8	<0.00012	<0.0001	<0.0005	<0.0001	<0.00005	<0.0005	0.00005 J	<0.000784	<0.0155	<0.00769	<0.00377	<0.00021	<0.00021
2-Methylnaphthalene	0.098	0.29	0.42	0.36	0.4	0.44	0.7	0.23	0.64 J	0.745	0.819	0.996	0.589	0.33	0.34
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00008	<0.00008	<0.0004	<0.00008	<0.00008	<0.0008	0.00008 J	<0.00814	<0.161	<0.0798	<0.0392	<0.0002	<0.0002
4-Nitrophenol	0.049	0.15	<0.00007	<0.00007	<0.00035	<0.00007	<0.00005	<0.0005	0.00005 J	<0.00549	<0.109	<0.0538	<0.0264	<0.00047	<0.00047
Acenaphthene	1.5	4.4	0.19	0.23	0.25	0.24	0.36	0.15	0.3 J	0.464	0.493	0.553	0.352	0.25	0.23
Acenaphthylene	1.5	4.4	0.092	0.062	0.095	0.072	0.015	0.007	0.0067 J	0.0151	<0.0117	<0.00577	0.0155 J	0.0074	0.0092
Anthracene	7.3	22	0.009	0.0069	0.0075	0.0073	0.013	0.0046	0.009 J	0.0204	0.0204 J	0.0226 J	0.0192 J	0.0061	0.0079
Benzo(a)anthracene	0.0091	0.02	<0.00007	<0.00007	<0.00035	<0.00007	<0.00005	<0.0005	0.00005 J	<0.000784	<0.0155	<0.00769	<0.00377	<0.0005	<0.0005
Benzo(a)pyrene	0.0002	0.0002	<0.00008	<0.00008	<0.0004	<0.00008	<0.00005	<0.0005	0.00005 J	<0.000784	<0.0155	<0.00769	<0.00377	<0.0002	<0.0002
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00009	<0.00009	<0.00045	<0.00009	<0.00005	<0.0005	0.00005 J	<0.00127	<0.0252	<0.0125	<0.00613	<0.0003	<0.0003
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	0.00033	<0.0002	<0.001	<0.0002	<0.0001	<0.0011	0.0001 J	<0.00363	<0.0718	<0.0356	<0.0175	<0.00037	<0.00037
Chrysene	0.91	2	<0.00007	<0.00007	<0.00035	<0.00007	<0.00005	<0.0005	0.00005 J	<0.000784	<0.0155	<0.00769	<0.00377	<0.00021	<0.00021
Dibenzofuran	0.098	0.29	0.12	0.15	0.16	0.15	0.23	0.075	0.21 J	0.188	0.279	0.326	0.204	0.16	0.15
Di-n-butylphthalate (DBP)	2.4	7.3	<0.00007	<0.00007	<0.00035	<0.00007	<0.00005	<0.0005	0.00005 J	<0.00108	<0.0214	<0.0106	<0.00519	<0.0002	<0.0002
Fluoranthene	0.98	2.9	0.0026	0.0013	0.0013	0.0014	0.0018	0.0013 J	0.0016 J	<0.000686	<0.0136	<0.00673	<0.0033	0.0021	0.0023
Fluorene	0.98	2.9	0.089	0.096	0.11	0.094	0.18	0.057	0.14 J	0.136	0.214	0.268	0.163	0.087	0.12
Naphthalene	0.49	1.5	3.3	4.3	6.1	5.9	7.3	3.6	7.8 J	9.29	11.8	11.4	5.27	4.4	4.9
Nitrobenzene	0.049	0.15	<0.00009	<0.00009	<0.00045	<0.00009	<0.00005	<0.0005	0.00005 J	<0.00108	<0.0214	<0.0106	<0.00519	<0.00024	<0.00024
N-Nitrosodiphenylamine	0.19	0.42	<0.00009	<0.00009	<0.00045	<0.00009	<0.00005	<0.0005	0.00005 J	<0.00098	<0.0194	<0.00962	<0.00472	<0.00025	<0.00025
Pentachlorophenol	0.001	0.001	<0.00008	<0.00008	<0.0004	<0.00008	<0.00005	<0.0005	0.00005 J	<0.00598	<0.118	<0.0587	<0.0288	<0.00079	<0.00079
Phenanthrene	0.73	2.2	0.078	0.067	0.082	0.063	0.098	0.042	0.083 J	0.101	0.144	0.19	0.114	0.066	0.08
Phenol	7.3	22	0.005	0.043	0.0054	0.02	0.061	0.011	0.12 J	<0.000392	<0.00777	<0.00385	<0.00189	0.0019 J	<0.00035
Pyrene	0.73	2.2	0.0013	0.00075	0.00063 J	0.00085	0.0011	0.00077 J	0.00081 J	<0.00108	<0.0214	<0.0106	<0.00519	0.0011	0.0012
Metals															
Arsenic	0.01	0.01												0.0043	0.0239

Notes:

- All values in milligrams per liter (mg/L).
- Concentrations > RAL and non-detects are highlighted light gray.
- Concentrations > C/I AL and non-detects are highlighted dark gray
- TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
- RAL = Residential Assessment Level, C/I = Commercial/Industrial
- J = Estimated value, < = not detected at the specified detection limit.
- MW-32A was screened in the B-CZ & replaced with MW-32AR
- Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	<i>Residential Assessment Level</i>	<i>C/I PCL</i>	MW-18A 05/16/2018	MW-18A 01/10/2019	MW-18A 07/10/2019	MW-18A 01/08/2020	MW-18A 07/14/2020	MW-18C 01/30/2008	MW-18C 07/15/2008	MW-18C 02/05/2009	MW-18C 01/19/2010	MW-18C 06/24/2010	MW-18C 01/17/2011	MW-18C 07/13/2011	MW-18C 02/01/2012
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.0002	<0.005	<0.0002	<0.005	<0.0002	<0.00052	<0.00052	<0.005	<0.005	<0.0025	<0.0025	<0.01	<0.005
Benzene	0.005	0.005	0.17	1.2	0.16	0.41	0.59	1.34	0.964	1.4	1.5	1	1.3	1.2	1.3
Chlorobenzene	0.1	0.1	0.0066	<0.0075	0.0017	<0.0075	0.00089 J	<0.00047	<0.00047	<0.005	<0.005	<0.0025	<0.0025	<0.01	<0.005
Ethylbenzene	0.7	0.7	0.43	0.34	0.28	0.32	0.22	0.304	0.178	0.26	0.21	0.13	0.18	0.16	0.19
Methylene chloride	0.005	0.005	<0.001	<0.025	<0.001	<0.025	<0.001	<0.00054	<0.00054	<0.005	<0.005	<0.0025	<0.0025	<0.013	<0.0065
Toluene	1	1	0.042	0.92	0.057	0.11	0.058	1.2	0.691	1	0.96	0.72 J	0.83	0.8	0.83
Vinyl chloride	0.002	0.002	0.0021	<0.005	0.0013	<0.005	0.0035						<0.0025	<0.01	<0.005
Xylenes (total)	10	10	0.91	1	0.47	0.5	0.29	1.1	0.624	1.1	1	1	1	0.9	0.82
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021	<0.04	<0.0008	<0.0001	<0.0001	<0.0005	<0.0001	<0.00005	<0.0005
2,4-Dimethylphenol	0.49	1.5	0.5	0.0054	0.72	1.8	7.9	<0.15	<0.0031	0.084	0.0081	0.0078 J	0.012 J	0.0031	0.01
2,4-Dinitrotoluene	0.0013	0.003	<0.00058	<0.00058	<0.00058	<0.00058	<0.00058	<0.098	0.00636	<0.00009	<0.00009	<0.00045	<0.00009	<0.00005	<0.0005
2,6-Dinitrotoluene	0.0013	0.003	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.098	<0.002	<0.00007	<0.00007	<0.00035	<0.00007	<0.00006	<0.0006
2-Chloronaphthalene	2	5.8	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021	<0.2	<0.0041	<0.00012	<0.0001	<0.0005	<0.0001	<0.00005	<0.0005
2-Methylnaphthalene	0.098	0.29	0.22	0.1	0.47	0.36	0.54	0.894	0.674	0.95	0.46	0.2	0.31	0.34	0.16
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.098	<0.0051	<0.00008	<0.00008	<0.0004	<0.00008	<0.00008	<0.0008
4-Nitrophenol	0.049	0.15	<0.00047	<0.00047	<0.00047	0.0042	<0.00047	<0.12	<0.0026	<0.00007	<0.00007	<0.00035	<0.00007	<0.00005	<0.0005
Acenaphthene	1.5	4.4	0.24	0.048	0.3	0.33	0.32	0.293	0.251	0.18	0.17	0.082	0.14	0.12	0.062
Acenaphthylene	1.5	4.4	0.009	0.0016	0.0056	0.0081	0.0056	<0.15	0.00649	0.0036	0.0023	0.0015	0.0019	0.0023	0.0018 J
Anthracene	7.3	22	0.0077	0.0064	0.0063	0.0082	0.0059	<0.098	0.0321	0.017	0.014	0.0076 J	0.015	0.013	0.012
Benzo(a)anthracene	0.0091	0.02	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.098	0.0025	0.00039	<0.00007	<0.00035	<0.00007	<0.00005	<0.0005
Benzo(a)pyrene	0.0002	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.098	<0.002	0.00013 J	<0.00008	<0.0004	0.00035	0.00015 J	<0.0005
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.2	<0.0041	<0.00009	<0.00009	<0.00045	<0.00009	<0.00005	<0.0005
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	<0.00037	<0.00037	<0.00037	<0.00043	<0.00037	<0.098	<0.002	0.00023	<0.0002	<0.001	<0.0002	<0.0001	<0.001
Chrysene	0.91	2	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021	<0.098	0.0021	0.00033	<0.00007	<0.00035	<0.00007	<0.00005	<0.0005
Dibenzofuran	0.098	0.29	0.14	0.047	0.19	0.2	0.097	0.263	0.23	0.16	0.091	0.077	0.13	0.11	0.06
Di-n-butylphthalate (DBP)	2.4	7.3	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.098	<0.002	<0.00007	<0.00007	<0.00035	<0.00007	<0.00005	<0.0005
Fluoranthene	0.98	2.9	0.0017	0.002	0.0022	0.0023	0.0014	<0.098	0.0169	0.0047	0.0035	0.0023	0.0059	0.0042	0.0018 J
Fluorene	0.98	2.9	0.098	0.021	0.091	0.16	0.075	0.137	0.153	0.081	0.052	0.034	0.051	0.052	0.028
Naphthalene	0.49	1.5	6.1	3.2	5.6	4.6	7.8	16.6	16.7	21	12	6.2	13	12	9.7
Nitrobenzene	0.049	0.15	<0.00024	<0.00024	<0.00024	<0.00024	<0.00024	<0.2	<0.0041	<0.00009	<0.00009	<0.00045	<0.00009	<0.00005	<0.0005
N-Nitrosodiphenylamine	0.19	0.42	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.12	<0.0026	<0.00009	<0.00009	<0.00045	<0.00009	<0.00005	<0.0005
Pentachlorophenol	0.001	0.001	<0.00079	0.014	<0.00079	<0.00079	<0.00079	<0.098	0.134	0.026	0.041	0.02	0.064	0.076 J	0.085
Phenanthrene	0.73	2.2	0.082	0.024	0.075	0.1	0.056	0.213	0.177	0.076	0.052	0.032	0.055	0.052	0.027
Phenol	7.3	22	<0.00035	0.0032	0.00048	0.0014	0.0018 J	<0.098	0.0944	0.031	0.059	0.026	0.043	0.048	0.027
Pyrene	0.73	2.2	0.0008 J	0.0012	0.0011	0.0013	0.00085 J	<0.098	0.01	0.0025	0.002	0.0012	0.0028	0.0017	0.001 J
Metals															
Arsenic	0.01	0.01	0.0291	0.0031	0.0248	0.0236	0.0428								

Notes:

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- Concentrations > RAL and non-detects are highlighted light gray.
- Concentrations > C/I AL and non-detects are highlighted dark gray
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- RAL = Residential Assessment Level, C/I = Commercial/Industrial
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CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-18C 07/11/2012	MW-18C 01/31/2013	MW-18C 07/29/2013	MW-18C 01/13/2014	MW-18C 07/16/2014	MW-18C 01/25/2018	MW-18C 03/19/2018	MW-18C 05/16/2018	MW-18C 01/10/2019	MW-18C 07/10/2019	MW-18C 01/08/2020	MW-18C 07/14/2020	MW-19C 01/31/2008
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.005	<0.007	<0.014	<0.007	<0.0028	<0.0002	<0.0002	<0.002	<0.002	<0.0002	<0.002	<0.001	<0.00052
Benzene	0.005	0.005	1.2	1.51	1.23	1.51	1.45	1.4	1.3	1.4	0.3	1.2	1.1	0.96	0.00398 J
Chlorobenzene	0.1	0.1	<0.005	<0.006	<0.012	<0.006	<0.0024	<0.0003	0.00052 J	<0.003	<0.003	0.00052 J	<0.003	<0.0015	<0.00047
Ethylbenzene	0.7	0.7	0.15	0.203	0.22	0.245	0.309	0.35	0.29	0.32	0.41	0.32	0.31	0.26	<0.00025
Methylene chloride	0.005	0.005	<0.01	<0.0075	0.0688 J	<0.0075	0.0161 J	<0.001	<0.001	<0.01	<0.01	<0.001	<0.01	<0.005	<0.00054
Toluene	1	1	0.72	0.962	0.899	1.07	0.986	1.1	0.96	0.9	0.03	1	0.97	0.71	0.00596
Vinyl chloride	0.002	0.002	<0.005	<0.0055	<0.011	<0.0055	<0.0022	0.0018	0.0026	<0.002	<0.002	<0.0002	<0.002	<0.001	<0.00127
Xylenes (total)	10	10	0.84	1.01	0.881	1.02	1.36	1	0.93	1.1	0.69	1	0.92	0.82	<0.00127
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.00005	<0.0545	<0.00534	<0.0106	<0.00519	<0.00021	<0.00021	<0.00021	<0.00021	<0.000021	<0.000021	<0.00021	<0.00008
2,4-Dimethylphenol	0.49	1.5	<0.0021	<0.153	<0.015	<0.0298	0.0325	<0.0004	<0.0004	0.082	0.29	0.0051	0.023	0.067	<0.00029
2,4-Dinitrotoluene	0.0013	0.003	<0.00005	<0.0644	<0.00631	<0.0125	<0.00613	<0.00058	<0.00058	<0.00058	<0.00059	<0.000058	<0.000058	<0.00058	<0.00019
2,6-Dinitrotoluene	0.0013	0.003	<0.00006	<0.0396	<0.00388	<0.00769	<0.00377	<0.00042	<0.00042	<0.00042	<0.00042	<0.000042	<0.000042	<0.00042	<0.00019
2-Chloronaphthalene	2	5.8	<0.00005	<0.0396	<0.00388	<0.00769	<0.00377	<0.00021	<0.00021	<0.00021	<0.00021	<0.000021	<0.000021	<0.00021	<0.00038
2-Methylnaphthalene	0.098	0.29	0.46	0.977	0.871	1.06	0.778	0.41	0.44	0.3	0.33	0.28	0.31	0.32	0.00132
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00008	<0.411	<0.0403	<0.0798	<0.0392	<0.0002	<0.0002	<0.0002	<0.0002	<0.00002	<0.00002	<0.0002	<0.00019
4-Nitrophenol	0.049	0.15	<0.00005	<0.277	<0.0272	<0.0538	<0.0264	<0.00047	<0.00047	<0.00047	<0.00047	<0.000047	<0.000047	<0.00047	<0.00024
Acenaphthene	1.5	4.4	0.13	0.32	0.265	0.317	0.246	0.15	0.16	0.15	0.21	0.058	0.093	0.053	0.000562
Acenaphthylene	1.5	4.4	0.0019	<0.0297	<0.00291	<0.00577	<0.00283	0.0025	0.0035	0.003	0.0075	0.005	0.0026	0.0018	<0.00029
Anthracene	7.3	22	0.008	0.0401 J	0.0284	0.0414 J	0.028	0.017	0.02	0.019	0.007	0.0056	0.02	0.0071	<0.00019
Benzo(a)anthracene	0.0091	0.02	0.00014 J	<0.0396	<0.00388	<0.00769	<0.00377	0.0013	<0.0005	<0.0005	<0.00051	<0.00005	0.0025	<0.0005	<0.00019
Benzo(a)pyrene	0.0002	0.0002	<0.00005	<0.0396	<0.00388	<0.00769	<0.00377	<0.0002	<0.0002	<0.0002	<0.0002	<0.00002	0.00053	<0.0002	<0.00019
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00005	<0.0644	<0.00631	<0.0125	<0.00613	<0.0003	<0.0003	<0.0003	<0.0003	<0.00003	<0.00003	<0.0003	<0.00038
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	<0.0001	<0.183	<0.018	<0.0356	<0.0175	<0.00037	<0.00037	<0.00037	<0.00037	<0.000037	<0.000037	<0.00037	<0.00019
Chrysene	0.91	2	0.0001 J	<0.0396	<0.00388	<0.00769	<0.00377	0.0008 J	<0.00021	0.00038 J	<0.00021	<0.000021	0.0027	<0.00021	<0.00019
Dibenzofuran	0.098	0.29	0.14	0.288	0.225	0.276	0.207	0.14	0.15	0.13	0.13	0.054	0.085	0.049	0.00042 J
Di-n-butylphthalate (DBP)	2.4	7.3	<0.00005	<0.0545	<0.00534	<0.0106	<0.00519	<0.0002	<0.0002	<0.0002	<0.0002	<0.00002	<0.00002	<0.0002	<0.00019
Fluoranthene	0.98	2.9	0.0023	<0.0347	0.00865 J	0.0191 J	0.00957 J	0.0096	0.0071	0.0058	0.0023	0.0019	0.013	0.0033	<0.00019
Fluorene	0.98	2.9	0.055	0.132 J	0.114	<0.00673	0.116	0.056	0.073	0.062	0.095	0.024	0.043	0.027	0.00044 J
Naphthalene	0.49	1.5	13	20.2 J	20.9	20.3	14.7	14	12	21	4.4	9.9	14	10	0.0613
Nitrobenzene	0.049	0.15	<0.00005	<0.0545	<0.00534	<0.0106	<0.00519	<0.00024	<0.00024	<0.00024	<0.00024	<0.000024	<0.000024	<0.00024	<0.00038
N-Nitrosodiphenylamine	0.19	0.42	<0.00005	<0.0495	<0.00485	<0.00962	<0.00472	<0.00025	<0.00025	<0.00025	<0.00025	<0.000025	<0.000025	<0.00025	<0.00024
Pentachlorophenol	0.001	0.001	0.075	<0.302	<0.0296	0.188	0.164	0.024	0.041	0.037	<0.0008	0.034	0.023	0.015	<0.00019
Phenanthrene	0.73	2.2	0.055	0.155 J	0.127	0.177	0.122	0.072	0.086	0.078	0.084	0.026	0.065	0.027	<0.00019
Phenol	7.3	22	0.075	0.0601 J	0.0205 J	0.0184 J	0.0285	0.0042	0.0067	<0.00035	<0.00035	0.005	0.0062	0.0031	<0.00019
Pyrene	0.73	2.2	0.0011	<0.0545	<0.00534	<0.0106	0.00571 J	0.0055	0.0049	0.0036	0.0012	0.0014	0.0066	0.0025	0.00036 J
Metals															
Arsenic	0.01	0.01						0.00467	0.00327	0.00342	0.0257	0.00358	0.00283	0.0024	

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Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.00052	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00014	<0.00014	<0.00014	<0.00014
Benzene	0.005	0.005	<0.00025	<0.0005	0.0056	<0.0005	<0.0005	<0.0005	<0.001	0.005	<0.0005	0.000558 J	0.00427	0.00028 J	0.000801 J
Chlorobenzene	0.1	0.1	<0.00047	<0.0005		<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00012	<0.00012	<0.00012	<0.00012
Ethylbenzene	0.7	0.7	<0.00025	<0.0005	0.0018 J	<0.0005	<0.0005	<0.0005	<0.0011	0.0031 J	<0.0005	0.000793 J	0.0114	0.000966 J	0.000783 J
Methylene chloride	0.005	0.005	<0.00054	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0013	<0.0013	<0.001	<0.00015	<0.00015	<0.00015	<0.00015
Toluene	1	1	<0.00041	<0.0005	0.0076	<0.0005	<0.0005	<0.0005	<0.001	0.0085	<0.0005	0.00171	0.0155	0.00136	0.000578 J
Vinyl chloride	0.002	0.002							<0.001	<0.001	<0.0005	<0.00011	<0.00011	<0.00011	<0.00011
Xylenes (total)	10	10	<0.00127	<0.001	0.0043 J	<0.001	<0.001	<0.001	<0.0031	0.0063 J	<0.0015	0.00151 J	0.0197	0.00207 J	0.00179 J
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	0.00023 J	<0.0001	<0.0001	0.00024	<0.0001	<0.0001	<0.00005	<0.00005	<0.00005	<0.00011	<0.000107	<0.000212	<0.000104
2,4-Dimethylphenol	0.49	1.5	<0.00028	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00005	<0.00005	0.00016 J	0.00125	<0.000301	<0.000596	<0.000292
2,4-Dinitrotoluene	0.0013	0.003	<0.00019	<0.00009	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.00013	<0.000126	<0.00025	<0.000123
2,6-Dinitrotoluene	0.0013	0.003	<0.00019	<0.00007	<0.00007	<0.00007	<0.00007	<0.00007	<0.00006	<0.00006	<0.00006	<0.00008	<0.0000777	<0.000154	<0.0000755
2-Chloronaphthalene	2	5.8	<0.00038	<0.00012	<0.0001	<0.0001	<0.0001	<0.0001	<0.00005	<0.00005	<0.00005	<0.00008	<0.0000777	<0.000154	<0.0000755
2-Methylnaphthalene	0.098	0.29	<0.00038	0.00025	0.0017	0.000079 J	0.00015 J	0.00022	0.0012	<0.00005	<0.000053	0.00084	0.000114 J	0.00142	0.000845
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00047	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00083	<0.000806	<0.0016	<0.000783
4-Nitrophenol	0.049	0.15	<0.00024	<0.00007	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.00056	<0.000544	<0.00108	<0.000528
Acenaphthene	1.5	4.4	<0.00028	0.00022	0.001	0.00012 J	0.00015 J	0.0003	0.00067	0.0012	0.00017 J	<0.000608	0.00279	<0.000154	0.0007
Acenaphthylene	1.5	4.4	<0.00028	<0.00006	0.00014 J	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00006	<0.00006	<0.0000583	<0.000115	<0.0000566
Anthracene	7.3	22	<0.00019	<0.00007	0.0001 J	<0.00007	<0.00007	<0.00007	0.00015 J	<0.00005	<0.00005	0.000115 J	0.000269 J	<0.0000962	<0.0000472
Benzo(a)anthracene	0.0091	0.02	<0.00019	<0.00007	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.00008	0.000111 J	<0.000154	<0.0000755
Benzo(a)pyrene	0.0002	0.0002	<0.00019	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005	<0.00008	<0.0000777	<0.000154	<0.0000755
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00038	<0.00009	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.00013	<0.000126	<0.00025	<0.000123
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	0.00027 J	<0.0002	<0.0028	<0.00036	0.00026	0.00025	<0.00039	<0.00022	0.00014 J	<0.00037	0.0012 J	<0.000712	0.000646
Chrysene	0.91	2	<0.00019	<0.00007	<0.00007	<0.00007	0.000072 J	0.000084 J	<0.00005	<0.00005	<0.00005	<0.00008	<0.0000777	<0.000154	<0.0000755
Dibenzofuran	0.098	0.29	<0.00028	0.00017 J	0.00051	<0.00008	0.00013 J	0.0002 J	<0.0006	0.00014 J	<0.00011	0.000367 J	0.000631	0.00116	0.000554
Di-n-butylphthalate (DBP)	2.4	7.3	<0.00019	<0.00007	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	0.00015 J	<0.00011	0.000164 J	<0.000212	<0.000104
Fluoranthene	0.98	2.9	0.00182	0.00015 J	0.00024	0.0021	0.0026 J	0.00062 J	0.0016	<0.00005	0.0018	0.00257	0.000309 J	0.00223	0.00169
Fluorene	0.98	2.9	<0.00019	<0.00007	0.00032	0.00028	0.00032	0.00022	<0.00066	<0.00005	0.00033	0.000605	<0.000068	0.000296 J	0.000485
Naphthalene	0.49	1.5	0.000826	0.0077	0.09	<0.0015	0.0061 J	0.0084 J	0.014	0.00077	<0.00048	0.0264 J	<0.00196	0.0383	0.0198
Nitrobenzene	0.049	0.15	<0.00038	<0.00009	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.00011	<0.000107	<0.000212	<0.000104
N-Nitrosodiphenylamine	0.19	0.42	<0.00024	<0.00009	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.0001	<0.0000971	<0.000192	<0.0000943
Pentachlorophenol	0.001	0.001	<0.00019	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	0.00028 J	<0.00005	<0.00005	<0.00061	<0.000592	<0.00117	<0.000575
Phenanthrene	0.73	2.2	<0.00019	<0.00007	0.00016 J	<0.00007	<0.00007	0.00014 J	<0.00053	<0.00005	<0.00005	0.000166 J	0.000201 J	<0.000265	<0.0000566
Phenol	7.3	22	<0.00019	<0.00007	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00024	0.00023 J	0.024	0.000724 J	0.00033 J
Pyrene	0.73	2.2	0.00117	<0.00007	0.0002	0.0012	0.0016 J	0.0004 J	0.0014	<0.00005	0.0014	0.00207	0.000233 J	0.00191	0.00178
Metals															
Arsenic	0.01	0.01													

Notes:

- All values in milligrams per liter (mg/L).
- Concentrations > RAL and non-detects are highlighted light gray.
- Concentrations > C/I AL and non-detects are highlighted dark gray
- TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
- RAL = Residential Assessment Level, C/I = Commercial/Industrial
- J = Estimated value, < = not detected at the specified detection limit.
- MW-32A was screened in the B-CZ & replaced with MW-32AR
- Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-19C 02/09/2018	MW-19C 03/18/2018	MW-19C 05/16/2018	MW-19C 01/24/2019	MW-19C 07/10/2019	MW-19C 01/09/2020	MW-19C 07/14/2020	MW-20A 01/30/2008	MW-20A 07/14/2011	MW-20A 02/01/2012	MW-20A 07/16/2012	MW-20A 01/30/2013	MW-20A 01/23/2018
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.0002	<0.0002	<0.002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00052	<0.005	<0.005	<0.0005	<0.00014	<0.0002
Benzene	0.005	0.005	0.0013	0.0027	0.0041 J	0.0044	0.0004 J	0.00032 J	0.00058 J	0.0609	0.098	0.057	0.089	0.0746	0.053
Chlorobenzene	0.1	0.1	<0.0003	<0.0003	<0.003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00047	<0.005	<0.005	<0.0005	<0.00012	<0.0003
Ethylbenzene	0.7	0.7	0.00091 J	0.0025	<0.003	0.004	0.00096 J	0.00064 J	0.0011	0.0965	0.077	0.046	0.1	0.0619	0.05
Methylene chloride	0.005	0.005	<0.001	<0.001	<0.01	<0.001	<0.001	<0.001	<0.001	<0.00054	<0.0065	<0.0065	<0.001	<0.00015	<0.001
Toluene	1	1	<0.0002	0.0018	0.0042 J	0.0057	0.00086 J	<0.0002	0.00058 J	0.00716	<0.005	<0.005	0.022	0.0028	0.0038
Vinyl chloride	0.002	0.002	<0.0002	<0.0002	<0.002	<0.0002	<0.0002	<0.0002	<0.0002						
Xylenes (total)	10	10	0.00095 J	0.0044	<0.003	0.0037	0.0022	0.0012	0.002	0.113	0.057 J	0.028 J	0.088	0.0549	0.05
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.000021	0.000099 J	0.000061 J	<0.000021	0.000082 J	0.000078 J	<0.000021	<0.02	<0.00005	<0.0005	<0.00005	<0.00519	<0.00021
2,4-Dimethylphenol	0.49	1.5	0.0028	<0.00038	<0.00004	<0.00032	<0.00056	<0.00004	<0.00004	0.134	0.3	0.076	0.1	0.119	0.049
2,4-Dinitrotoluene	0.0013	0.003	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.039	<0.00005	<0.0005	<0.00005	<0.00613	<0.00058
2,6-Dinitrotoluene	0.0013	0.003	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.039	<0.00006	<0.0006	<0.00006	<0.00377	<0.00042
2-Chloronaphthalene	2	5.8	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.078	<0.00005	<0.0005	<0.00005	<0.00377	<0.00021
2-Methylnaphthalene	0.098	0.29	0.000093 J	0.00037	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	0.204	0.42	0.064	0.36	0.191	0.15
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.039	<0.00008	<0.0008	<0.00008	<0.0392	<0.0002
4-Nitrophenol	0.049	0.15	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	0.177	<0.00005	<0.0005	<0.00005	<0.0264	<0.00047
Acenaphthene	1.5	4.4	0.0012	0.001	0.00035	0.00078	0.001	0.00099	0.00084	0.113	0.2	0.15	0.19	0.12	0.14
Acenaphthylene	1.5	4.4	0.000069 J	<0.000015	<0.000015	<0.000015	0.00003 J	0.00005 J	<0.000015	<0.059	0.0017	0.0015 J	0.0015	<0.00283	0.0014
Anthracene	7.3	22	0.000057 J	0.000065 J	<0.000014	0.000057 J	<0.000066	<0.00017	0.00007 J	<0.039	0.0058	0.0044	0.0042	0.00589 J	0.021
Benzo(a)anthracene	0.0091	0.02	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	0.00026	<0.00005	<0.039	<0.00005	<0.0005	<0.00005	<0.00377	<0.0005
Benzo(a)pyrene	0.0002	0.0002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	0.0001	<0.00002	<0.039	<0.00005	<0.0005	<0.00005	<0.00377	<0.0002
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.078	<0.00005	<0.0005	<0.00005	<0.00613	<0.0003
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	0.00019 J	0.0001 J	0.00016 J	0.000096 J	<0.000037	<0.000071	0.00006 J	<0.039	<0.00033	<0.001	<0.0001	<0.0175	<0.00037
Chrysene	0.91	2	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	0.00024	0.000038 J	<0.039	<0.00005	<0.0005	<0.00005	<0.00377	<0.00021
Dibenzofuran	0.098	0.29	0.00045	0.00081	0.000035 J	<0.00002	<0.00057	0.00069	0.00057	0.071	0.14	0.073	0.15	0.0799	0.097
Di-n-butylphthalate (DBP)	2.4	7.3	<0.00002	<0.00002	0.000031 J	<0.00002	<0.00002	0.000021 J	<0.00002	<0.039	<0.00005	<0.0005	<0.00005	<0.00519	<0.0002
Fluoranthene	0.98	2.9	0.000081 J	0.00064	0.00023	<0.00001	0.00056	0.0011	0.00052	<0.039	0.0007	0.00082 J	0.00061	<0.0033	0.00078 J
Fluorene	0.98	2.9	0.000099 J	0.00037	0.00009 J	<0.00003	<0.00031	0.00047	0.00029	0.045	0.11	0.06	0.11	0.0661	0.16
Naphthalene	0.49	1.5	0.0022	0.013	<0.00061	<0.00036	<0.0012	<0.0011	<0.00002	4.75	7.7	0.96	6.1	43.9	2.7
Nitrobenzene	0.049	0.15	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.078	<0.00005	<0.0005	<0.00005	<0.00519	<0.00024
N-Nitrosodiphenylamine	0.19	0.42	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.049	<0.00005	<0.0005	<0.00005	<0.00472	<0.00025
Pentachlorophenol	0.001	0.001	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.039	<0.00005	<0.0005	<0.00005	<0.0288	<0.00079
Phenanthrene	0.73	2.2	<0.000021	0.000051 J	<0.000021	<0.000021	<0.00014	<0.00045	0.00015	<0.039	0.039	0.03	0.043	0.0217 J	0.032
Phenol	7.3	22	0.00071	0.00072	<0.000035	<0.00013	<0.00015	<0.00035	<0.00035	<0.039	<0.00005	<0.0005	<0.00005	<0.00189	<0.00035
Pyrene	0.73	2.2	0.000053 J	0.00076	0.00037	<0.000019	0.00064	0.0014	0.00072	<0.039	0.0004	0.00056 J	0.0003	<0.00519	<0.00019
Metals															
Arsenic	0.01	0.01	0.00158 J	0.00107 J	0.00294	0.00149 J	0.00166 J	0.0014 J	0.00108 J						0.0087

- Notes:
- All values in milligrams per liter (mg/L).
 - Concentrations > RAL and non-detects are highlighted light gray.
 - Concentrations > C/I AL and non-detects are highlighted dark gray
 - TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
 - RAL = Residential Assessment Level, C/I = Commercial/Industrial
 - J = Estimated value, < = not detected at the specified detection limit.
 - MW-32A was screened in the B-CZ & replaced with MW-32AR
 - Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-20A	MW-20A	MW-20A	MW-20A	MW-20A	MW-20A	MW-21C	MW-21C	MW-21C	MW-21C	MW-21C	MW-21C	MW-21C
			03/19/2018	05/15/2018	01/08/2019	07/10/2019	01/14/2020	07/14/2020	01/29/2008	01/29/2008 Duplicate	07/15/2008	07/15/2008 Duplicate	02/04/2009	02/04/2009 Duplicate	01/21/2010
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Benzene	0.005	0.005	0.05	0.062	0.024	0.013	0.02	0.024	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
Chlorobenzene	0.1	0.1	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00047	<0.00047	<0.00047	<0.00047	<0.00047	<0.00047	<0.00047
Ethylbenzene	0.7	0.7	0.027	0.045	0.024	0.0079	0.025	0.07	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
Methylene chloride	0.005	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00054	<0.00054	<0.00054	<0.00054	<0.00054	<0.00054	<0.00054
Toluene	1	1	<0.0002	0.0055	0.00077 J	0.0011	<0.0002	0.011	<0.00041	<0.00041	<0.00041	<0.00041	<0.00041	<0.00041	<0.00041
Vinyl chloride	0.002	0.002													
Xylenes (total)	10	10	0.033	0.048	0.022	0.022	0.024	0.091	<0.00127	<0.00127	<0.00127	<0.00127	<0.00127	<0.00127	<0.00127
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
2,4-Dimethylphenol	0.49	1.5	0.072	0.06	0.0076	0.0035	0.0018	0.01	<0.00029	<0.00029	<0.00029	<0.00029	<0.00029	<0.00029	<0.00029
2,4-Dinitrotoluene	0.0013	0.003	<0.00059	<0.00058	<0.00058	<0.00058	<0.00058	<0.00058	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019
2,6-Dinitrotoluene	0.0013	0.003	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019
2-Chloronaphthalene	2	5.8	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038
2-Methylnaphthalene	0.098	0.29	0.15	0.17	0.069	0.072	0.075	0.23	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019
4-Nitrophenol	0.049	0.15	<0.00047	<0.00047	<0.00047	<0.00047	<0.00047	<0.00047	<0.00024	<0.00024	<0.00024	<0.00024	<0.00024	<0.00024	<0.00024
Acenaphthene	1.5	4.4	0.18	0.15	0.1	0.14	0.11	0.14	<0.00029	<0.00029	<0.00029	<0.00029	<0.00029	<0.00029	<0.00029
Acenaphthylene	1.5	4.4	<0.00015	0.0013	0.00057	0.00078	0.00092	0.0013	<0.00029	<0.00029	<0.00029	<0.00029	<0.00029	<0.00029	<0.00029
Anthracene	7.3	22	0.022	0.0081	0.0058	0.0062	0.0075	0.0054	0.000563	0.000562	<0.0002	<0.00019	<0.00019	<0.00019	<0.00019
Benzo(a)anthracene	0.0091	0.02	<0.00051	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019
Benzo(a)pyrene	0.0002	0.0002	<0.0002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.0003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	<0.00037	<0.000037	<0.000037	<0.000037	<0.000037	<0.000037	0.00888	0.00052 J	<0.0002	<0.00019	<0.00019	<0.00019	<0.00019
Chrysene	0.91	2	<0.00021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019
Dibenzofuran	0.098	0.29	0.13	0.081	0.067	0.077	0.079	0.086	<0.00029	<0.00029	<0.00029	<0.00029	<0.00029	<0.00029	<0.00029
Di-n-butylphthalate (DBP)	2.4	7.3	<0.0002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019
Fluoranthene	0.98	2.9	0.00095 J	0.00074	0.00041	0.00058	0.00067	0.0016	0.00047 J	0.00046 J	<0.0002	0.00019 J	<0.00019	<0.00019	<0.00019
Fluorene	0.98	2.9	0.16	0.076	0.062	0.068	0.08	0.078	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019
Naphthalene	0.49	1.5	2.9	2.8	1.4	1.9	2	5.8	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038
Nitrobenzene	0.049	0.15	<0.00024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038	<0.00038
N-Nitrosodiphenylamine	0.19	0.42	<0.00025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.00024	<0.00024	<0.00024	<0.00024	<0.00024	<0.00024	<0.00024
Pentachlorophenol	0.001	0.001	<0.00008	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019
Phenanthrene	0.73	2.2	0.037	0.034	0.025	0.026	0.028	0.046	0.00039 J	0.00039 J	<0.0002	<0.00019	<0.00019	<0.00019	<0.00019
Phenol	7.3	22	<0.00035	<0.000035	<0.000035	0.00096	<0.000035	<0.000035	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019	<0.00019
Pyrene	0.73	2.2	0.0005 J	0.00048	0.00025	0.00026	0.0003	0.00095 J	0.00039 J	0.00039 J	<0.0002	<0.00019	<0.00019	<0.00019	<0.00019
Metals															
Arsenic	0.01	0.01	0.00568	0.00895	0.00788	0.00574	0.00808	0.0053							

Notes:

- All values in milligrams per liter (mg/L).
- Concentrations > RAL and non-detects are highlighted light gray.
- Concentrations > C/I AL and non-detects are highlighted dark gray
- TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
- RAL = Residential Assessment Level, C/I = Commercial/Industrial
- J = Estimated value, < = not detected at the specified detection limit.
- MW-32A was screened in the B-CZ & replaced with MW-32AR
- Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-21C	MW-21C	MW-21C	MW-21C	MW-21C	MW-21C	MW-21C	MW-21C	MW-21C	MW-21C	MW-21C	MW-21C	MW-21C
			01/21/2010	06/22/2010	06/22/2010	01/19/2011	07/27/2011	07/27/2011	02/02/2012	02/02/2012	07/26/2012	07/26/2012	02/05/2013	02/05/2013	08/01/2013
Volatile Organic Compounds			Duplicate		Duplicate			Duplicate		Duplicate		Duplicate		Duplicate	
1,2-Dichloroethane	0.005	0.005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.0005	<0.00014	<0.00014	<0.00014
Benzene	0.005	0.005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.0005	<0.00008	<0.00008	<0.00008
Chlorobenzene	0.1	0.1	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.0005	<0.00012	<0.00012	<0.00012
Ethylbenzene	0.7	0.7	<0.0005	<0.0005	<0.0005	<0.0005	<0.0011	<0.0011	<0.0011	<0.0011	<0.0005	<0.0005	<0.000144	<0.00011	<0.00011
Methylene chloride	0.005	0.005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0013	<0.0013	<0.0013	<0.0013	<0.001	<0.001	<0.00015	<0.00015	<0.00015
Toluene	1	1	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.0005	<0.00015	<0.00015	<0.00015
Vinyl chloride	0.002	0.002											<0.00011	<0.00011	
Xylenes (total)	10	10	<0.001	<0.001	<0.001	<0.001	<0.0031	<0.0031	<0.0031	<0.0031	<0.0015	<0.0015	<0.00026	<0.00026	<0.00026
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.0001	<0.0001	<0.0001	<0.0001	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000104	<0.000104	0.000105 J
2,4-Dimethylphenol	0.49	1.5	<0.00008	<0.00008	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000292	R	<0.000295
2,4-Dinitrotoluene	0.0013	0.003	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000123	<0.000123	0.000124 J
2,6-Dinitrotoluene	0.0013	0.003	<0.00007	<0.00007	<0.00007	<0.00007	<0.00006	<0.00006	<0.00006	<0.00006	<0.00006	<0.00006	<0.0000755	<0.0000755	0.0000762 J
2-Chloronaphthalene	2	5.8	<0.0001	<0.0001	<0.0001	<0.0001	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.0000755	<0.0000755	0.0000762 J
2-Methylnaphthalene	0.098	0.29	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	0.000067 J	<0.00005	<0.00005	<0.00005	0.000271 J	<0.000066	0.0000667 J
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.000783	R	0.00079 J
4-Nitrophenol	0.049	0.15	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000528	R	0.000533 J
Acenaphthene	1.5	4.4	0.00035	<0.00009	<0.00009	0.00034	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	0.000237 J	<0.0000755	0.0000762 J
Acenaphthylene	1.5	4.4	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.0000566	<0.0000566	0.0000571 J
Anthracene	7.3	22	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	0.0000527 J	<0.0000472	0.0000476 J
Benzo(a)anthracene	0.0091	0.02	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.0000755	<0.0000755	0.0000762 J
Benzo(a)pyrene	0.0002	0.0002	<0.00008	<0.00008	<0.00008	0.00013 J	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.0000755	<0.0000755	0.0000762 J
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000123	<0.000123	0.000124 J
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	<0.00054	<0.00023	<0.00041	0.00062	0.00062 J	0.00036 J	<0.0001	<0.00022	<0.0001	<0.0001	<0.000349	<0.000349	0.000352 J
Chrysene	0.91	2	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.0000755	<0.0000755	0.0000762 J
Dibenzofuran	0.098	0.29	<0.00008	<0.00008	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	0.000109 J	<0.0000755	0.0000762 J
Di-n-butylphthalate (DBP)	2.4	7.3	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.00005	<0.000072	<0.000051	<0.000104	<0.000104	0.000105 J
Fluoranthene	0.98	2.9	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000066	<0.000066	0.0000667 J
Fluorene	0.98	2.9	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000066	<0.000066	0.0000667 J
Naphthalene	0.49	1.5	<0.0001	<0.0001	<0.00021	<0.0001	<0.00005	<0.00005	0.00093 J	0.00015 J	<0.00005	<0.00005	0.000429 J	<0.0000755	<0.00021
Nitrobenzene	0.049	0.15	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000104	<0.000104	0.000105 J
N-Nitrosodiphenylamine	0.19	0.42	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.0000943	<0.0000943	0.0000952 J
Pentachlorophenol	0.001	0.001	<0.00008	<0.00008	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000575	R	0.000581 J
Phenanthrene	0.73	2.2	0.0001 J	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	0.000184 J	<0.0000566	0.0000775 J
Phenol	7.3	22	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.0000377	R	0.0000381 J
Pyrene	0.73	2.2	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000104	<0.000104	0.000105 J
Metals															
Arsenic	0.01	0.01													

Notes:

- All values in milligrams per liter (mg/L).
- Concentrations > RAL and non-detects are highlighted light gray.
- Concentrations > C/I AL and non-detects are highlighted dark gray
- TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
- RAL = Residential Assessment Level, C/I = Commercial/Industrial
- J = Estimated value, < = not detected at the specified detection limit.
- MW-32A was screened in the B-CZ & replaced with MW-32AR
- Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
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CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-21C	MW-21C	MW-21C	MW-21C	MW-21C	MW-21C	MW-21C	MW-21C	MW-21C	MW-21C	MW-21C	MW-21C	MW-21C
			08/01/2013	01/16/2014	01/16/2014	07/25/2014	07/25/2014	01/24/2018	01/24/2018	03/20/2018	03/20/2018	05/17/2018	05/17/2018	01/09/2019	01/09/2019
Volatile Organic Compounds			Duplicate		Duplicate		Duplicate		Duplicate		Duplicate		Duplicate		Duplicate
1,2-Dichloroethane	0.005	0.005	<0.00014	<0.0002	<0.0002	<0.00014	<0.00014	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Benzene	0.005	0.005	<0.00008	<0.0002	<0.0002	<0.00008	<0.00008	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Chlorobenzene	0.1	0.1	<0.00012	<0.00018	<0.00018	<0.00012	<0.00012	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Ethylbenzene	0.7	0.7	<0.00011	<0.00019	<0.00019	<0.00011	<0.00011	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Methylene chloride	0.005	0.005	<0.00015	<0.00022	<0.00022	<0.00015	<0.00015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Toluene	1	1	<0.00015	<0.00017	<0.00017	<0.00015	<0.00015	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Vinyl chloride	0.002	0.002				<0.00011	<0.00011								
Xylenes (total)	10	10	<0.00026	<0.00058	<0.00058	<0.00026	<0.00026	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	0.00732 J	<0.000104	<0.000104	<0.000107	<0.000107	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021
2,4-Dimethylphenol	0.49	1.5	<0.00654	<0.000292	<0.000292	<0.000301	<0.000301	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004
2,4-Dinitrotoluene	0.0013	0.003	0.00867 J	<0.000123	<0.000123	<0.000126	<0.000126	<0.000059	<0.000058	<0.000058	<0.000059	<0.000058	<0.000058	<0.000058	<0.000058
2,6-Dinitrotoluene	0.0013	0.003	0.00805 J	<0.0000755	<0.0000755	<0.0000777	<0.0000777	<0.000042	<0.000042	<0.000042	<0.000042	0.023 J	0.000042 J	<0.000042	<0.000042
2-Chloronaphthalene	2	5.8	0.00696 J	<0.0000755	<0.0000755	<0.0000777	<0.0000777	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021
2-Methylnaphthalene	0.098	0.29	0.00686 J	<0.000157	<0.000187	<0.000068	<0.000068	<0.000019	<0.000019	<0.000019	<0.000019	0.000019 J	0.00012 J	<0.000019	<0.000019
4,6-Dinitro-2-methylphenol	0.0024	0.0073	0.00371 J	<0.000783	<0.000783	<0.000806	<0.000806	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
4-Nitrophenol	0.049	0.15	0.00667 J	<0.000528	<0.000528	<0.000544	<0.000544	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047
Acenaphthene	1.5	4.4	0.00726 J	0.000254 J	0.000413 J	<0.0000777	<0.0000777	<0.000027	<0.000027	<0.000027	<0.000027	0.00013	0.00018	<0.000027	<0.000027
Acenaphthylene	1.5	4.4	0.00735 J	<0.0000566	<0.0000566	<0.0000583	<0.0000583	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015
Anthracene	7.3	22	0.00775 J	0.000243 J	0.000518 J	<0.0000485	<0.0000485	<0.000014	<0.000014	<0.000014	<0.000014	<0.000014	<0.000014	<0.000014	<0.000014
Benzo(a)anthracene	0.0091	0.02	0.00807 J	0.000129 J	0.000137 J	<0.0000777	<0.0000777	<0.000051	<0.00005	<0.00005	<0.000051	<0.000051	<0.00005	<0.00005	<0.00005
Benzo(a)pyrene	0.0002	0.0002	0.00775 J	<0.0000755	<0.0000755	<0.0000777	<0.0000777	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
bis(2-Chloroethoxy)methane	0.00083	0.0019	0.00612 J	<0.000123	<0.000123	<0.000126	<0.000126	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	0.00875 J	<0.000349	<0.000349	<0.000359	<0.000359	0.000058 J	0.000072 J	<0.000037	<0.000037	0.000048 J	<0.000037	<0.000037	<0.000037
Chrysene	0.91	2	0.00794 J	0.0000812 J	0.000132 J	<0.0000777	<0.0000777	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021
Dibenzofuran	0.098	0.29	0.00726 J	<0.000258	<0.000456	<0.0000777	<0.0000777	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	0.000052 J	<0.00002	<0.00002
Di-n-butylphthalate (DBP)	2.4	7.3	0.00955 J	<0.000104	<0.000104	0.000184 J	0.000107 J	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
Fluoranthene	0.98	2.9	0.00857 J	0.000528 J	0.000866 J	<0.000068	<0.000068	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Fluorene	0.98	2.9	0.00746 J	0.000291 J	0.000705 J	<0.000068	<0.000068	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003
Naphthalene	0.49	1.5	0.00669 J	0.000523 J	<0.000421	<0.0000777	<0.0000777	<0.00002	<0.00002	<0.00002	<0.00002	0.00002 J	0.0014 J	<0.00002	<0.00002
Nitrobenzene	0.049	0.15	0.00628 J	<0.000104	<0.000104	<0.000107	<0.000107	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024
N-Nitrosodiphenylamine	0.19	0.42	0.00846 J	<0.0000943	<0.0000943	<0.0000971	<0.0000971	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025
Pentachlorophenol	0.001	0.001	0.0126 J	<0.000575	<0.000575	<0.000592	<0.000592	<0.00008	<0.000079	<0.000079	<0.00008	<0.00008	<0.000079	<0.000079	<0.000079
Phenanthrene	0.73	2.2	0.00777 J	0.00128 J	0.00242 J	<0.000087	<0.0000613	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021
Phenol	7.3	22	0.00217 J	<0.0000377	<0.0000377	<0.0000388	<0.0000388	<0.000035	<0.000035	<0.000035	<0.000035	<0.000035	<0.000035	<0.000035	<0.000035
Pyrene	0.73	2.2	0.00813 J	0.000355 J	0.000508 J	<0.000107	<0.000107	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019
Metals															
Arsenic	0.01	0.01						0.00128 J	0.00128 J	0.00109 J	0.00113 J	0.00116 J	0.00108 J	0.00187 J	0.00178 J

- Notes:
- All values in milligrams per liter (mg/L).
 - Concentrations > RAL and non-detects are highlighted light gray.
 - Concentrations > C/I AL and non-detects are highlighted dark gray
 - TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
 - RAL = Residential Assessment Level, C/I = Commercial/Industrial
 - J = Estimated value, < = not detected at the specified detection limit.
 - MW-32A was screened in the B-CZ & replaced with MW-32AR
 - Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-21C 07/16/2019	MW-21C 07/16/2019 Duplicate	MW-21C 01/14/2020	MW-21C 01/14/2020 Duplicate	MW-21C 07/16/2020	MW-21C 07/16/2020 Duplicate	MW-22A 01/29/2008	MW-22A 07/14/2008	MW-22A 02/03/2009	MW-22A 01/15/2010	MW-22A 06/29/2010	MW-22A 01/25/2011	MW-22A 07/21/2011
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00025	<0.00109	<0.0005	<0.0005	<0.0005	<0.0005	<0.001
Benzene	0.005	0.005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00025	<0.00112	<0.0005	<0.0005	<0.0005	<0.0005	<0.001
Chlorobenzene	0.1	0.1	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00047	<0.0015	<0.0005	<0.0005	<0.0005	<0.0005	<0.001
Ethylbenzene	0.7	0.7	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00025	<0.00142	<0.0005	<0.0005	<0.0005	<0.0005	<0.0011
Methylene chloride	0.005	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00054	<0.00122	<0.0005	<0.0005	<0.0005	<0.0005	<0.0013
Toluene	1	1	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00041	<0.00138	<0.0005	<0.0005	<0.0005	<0.0005	<0.001
Vinyl chloride	0.002	0.002													
Xylenes (total)	10	10	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00127	<0.00302	<0.001	<0.001	<0.001	<0.001	<0.0031
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.00008	<0.00008	<0.0001	<0.0001	<0.0001	<0.0001	<0.00005
2,4-Dimethylphenol	0.49	1.5	0.0001 J	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00029	<0.00028	<0.00008	<0.00008	<0.00008	<0.00008	<0.00005
2,4-Dinitrotoluene	0.0013	0.003	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.0002	<0.00019	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005
2,6-Dinitrotoluene	0.0013	0.003	<0.000042	<0.000042	<0.000042	0.003 J	0.0021 J	<0.000042	<0.0002	<0.00019	<0.00007	<0.00007	<0.00007	<0.00007	<0.00006
2-Chloronaphthalene	2	5.8	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.00039	<0.00038	<0.00012	<0.0001	<0.0001	<0.0001	<0.00005
2-Methylnaphthalene	0.098	0.29	0.0004 J	0.00005 J	<0.000019	<0.000019	<0.000021	<0.000046	<0.00039	<0.00038	<0.00007	<0.00007	<0.00007	0.00072	<0.00005
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.0002	<0.00019	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
4-Nitrophenol	0.049	0.15	<0.000047	<0.000047	<0.000047	<0.000047	0.00014 J	<0.000047	<0.00024	<0.00024	<0.00007	0.00007 J	<0.00007	<0.00007	<0.00005
Acenaphthene	1.5	4.4	0.0057 J	0.00081 J	<0.000027	0.0002	<0.000027	0.00061 J	<0.00029	<0.00028	<0.00009	<0.00009	<0.00009	0.00015 J	<0.00005
Acenaphthylene	1.5	4.4	0.000074 J	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.00029	<0.00028	<0.00006	<0.00007	<0.00007	<0.00007	<0.00005
Anthracene	7.3	22	0.00044 J	0.00005 J	<0.000014	<0.000014	<0.000014	0.000034 J	<0.0002	<0.00019	0.0002	<0.00007	<0.00007	0.00011 J	<0.00005
Benzo(a)anthracene	0.0091	0.02	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.0002	<0.00019	0.00015 J	<0.00007	<0.00007	<0.00007	<0.00005
Benzo(a)pyrene	0.0002	0.0002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.0002	<0.00019	<0.00008	<0.00008	<0.00008	<0.00008	<0.00005
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00039	<0.00038	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	<0.00004	<0.000037	0.00035	0.000065 J	<0.000061	<0.000087	0.0104	<0.00019	0.00033	0.0013	<0.0012	<0.0002	0.0015
Chrysene	0.91	2	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.0002	<0.00019	0.00014 J	<0.00007	<0.00007	<0.00007	<0.00005
Dibenzofuran	0.098	0.29	0.0032 J	0.0004 J	<0.00002	0.00017	<0.00002	<0.00002	<0.00029	<0.00028	<0.00008	<0.00008	<0.00008	0.00015 J	<0.00005
Di-n-butylphthalate (DBP)	2.4	7.3	<0.00002	<0.00002	<0.00002	<0.00002	<0.000028	<0.000033	<0.0002	<0.00019	0.00017 J	<0.00007	<0.00007	<0.00007	<0.00005
Fluoranthene	0.98	2.9	0.00081 J	0.000087 J	<0.00001	<0.00001	<0.000019	<0.000067	<0.0002	<0.00019	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005
Fluorene	0.98	2.9	0.0019 J	0.00025 J	<0.00003	0.00018	<0.00003	<0.00006	<0.0002	<0.00019	<0.00007	<0.00007	<0.00007	0.0001 J	<0.00005
Naphthalene	0.49	1.5	0.0044 J	0.0008 J	0.00011	0.00013	<0.000042	<0.00016	<0.00039	<0.00038	<0.0001	<0.0001	<0.0001	0.0035	0.0001 J
Nitrobenzene	0.049	0.15	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.00039	<0.00038	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005
N-Nitrosodiphenylamine	0.19	0.42	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.00024	<0.00024	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005
Pentachlorophenol	0.001	0.001	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.0002	<0.00019	<0.00008	0.00008 J	<0.00008	<0.00008	<0.00005
Phenanthrene	0.73	2.2	0.00087 J	0.00011 J	<0.000021	0.000061 J	<0.000021	<0.000026	<0.0002	<0.00019	<0.00007	<0.00007	<0.00007	0.00028	<0.00005
Phenol	7.3	22	0.00018 J	0.00081 J	<0.000035	<0.000035	<0.000035	<0.000035	<0.0002	<0.00019	<0.00007	<0.00007	<0.00007	0.00017 J	<0.00005
Pyrene	0.73	2.2	0.00039 J	0.000033 J	<0.000019	<0.000019	<0.000019	0.000044 J	<0.0002	<0.00019	0.00013 J	<0.00007	<0.00007	<0.00007	<0.00005
Metals															
Arsenic	0.01	0.01	0.0013 J	0.00326	0.00109 J	0.00109 J	0.000873 J	0.00091 J							

Notes:

- All values in milligrams per liter (mg/L).
- Concentrations > RAL and non-detects are highlighted light gray.
- Concentrations > C/I AL and non-detects are highlighted dark gray
- TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
- RAL = Residential Assessment Level, C/I = Commercial/Industrial
- J = Estimated value, < = not detected at the specified detection limit.
- MW-32A was screened in the B-CZ & replaced with MW-32AR
- Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-22A 02/15/2012	MW-22A 07/18/2012	MW-22A 01/23/2014	MW-22A 07/30/2014	MW-22AR 02/08/2018	MW-22AR 03/25/2018	MW-22AR 05/31/2018	MW-22AR 01/22/2019	MW-22AR 07/31/2019	MW-22AR 02/10/2020	MW-22AR 07/20/2020	MW-22B 01/29/2008	MW-22B 07/14/2008
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.001	<0.0005	<0.0002	<0.00014	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00052	<0.00109
Benzene	0.005	0.005	<0.001	<0.0005	<0.0002	0.00296	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00025	0.00313 J
Chlorobenzene	0.1	0.1	<0.001	<0.0005	<0.00018	<0.00012	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00047	<0.0015
Ethylbenzene	0.7	0.7	<0.0011	<0.0005	0.000549	0.0403	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00025	0.00262 J
Methylene chloride	0.005	0.005	<0.0013	<0.001	<0.00022	<0.00015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00054	<0.00122
Toluene	1	1	<0.001	<0.0005	0.000307 J	0.00925	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00041	<0.00138
Vinyl chloride	0.002	0.002													
Xylenes (total)	10	10	<0.0031	<0.0015	0.000834 J	0.0569	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00127	0.00339 J
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.00005	<0.00005	<0.000108	<0.000109	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.00008	<0.00008
2,4-Dimethylphenol	0.49	1.5	<0.00005	<0.00005	<0.000304	<0.000307	<0.00004	<0.000041	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.0003	<0.0003
2,4-Dinitrotoluene	0.0013	0.003	<0.00005	<0.00005	<0.000127	<0.000129	<0.000059	<0.000059	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.0002	<0.0002
2,6-Dinitrotoluene	0.0013	0.003	<0.00006	<0.00006	<0.0000784	<0.0000792	<0.000042	<0.000043	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.0002	<0.0002
2-Chloronaphthalene	2	5.8	<0.00005	<0.00005	<0.0000784	<0.0000792	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.0004	<0.0004
2-Methylnaphthalene	0.098	0.29	<0.00005	<0.000059	<0.0000686	0.0603	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.0004	<0.0004
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00008	<0.00008	<0.000814	<0.000822	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.0002	<0.0002
4-Nitrophenol	0.049	0.15	<0.00005	<0.00005	<0.000549	<0.000554	<0.000047	<0.000048	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.00025	<0.00025
Acenaphthene	1.5	4.4	0.00009 J	<0.00031	0.00557	0.0783	<0.000027	<0.000028	<0.000027	0.00071	<0.000027	<0.00015	<0.000027	0.0121	0.182
Acenaphthylene	1.5	4.4	<0.00005	<0.00005	0.000742	0.000943	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.0003	0.00192
Anthracene	7.3	22	0.000058 J	0.0004	<0.000939	0.00265	<0.000014	<0.000014	0.00017	0.000028 J	<0.000014	0.0002	<0.000014	0.000948	0.00575
Benzo(a)anthracene	0.0091	0.02	<0.00005	0.00011 J	<0.0000784	<0.0000792	<0.000051	<0.000051	<0.00005	<0.00005	<0.00005	0.00029	<0.00005	<0.0002	<0.0002
Benzo(a)pyrene	0.0002	0.0002	<0.00005	<0.00005	<0.0000784	<0.0000792	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	0.0001	<0.00002	<0.0002	<0.0002
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00005	<0.00005	<0.000127	<0.000129	<0.00003	<0.000031	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.0004	<0.0004
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	<0.0011	0.00011 J	<0.000363	0.000703	0.0033	<0.000038	0.0001 J	0.000065 J	<0.000037	0.00011 J	<0.000037	0.00172 J	<0.0002
Chrysene	0.91	2	<0.00005	0.0001 J	<0.0000784	<0.0000792	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	0.00032	<0.000021	<0.0002	<0.0002
Dibenzofuran	0.098	0.29	0.000074 J	<0.00048	0.001	0.0224	<0.00002	<0.00002	<0.00002	0.000029 J	<0.00002	<0.00015	<0.00002	0.00363	0.0674
Di-n-butylphthalate (DBP)	2.4	7.3	<0.00005	<0.00005	<0.000866	<0.000109	<0.00002	<0.00002	<0.00002	0.00051	<0.00002	<0.00002	<0.00002	0.00066 J	<0.0002
Fluoranthene	0.98	2.9	0.000086 J	<0.00041	0.000362 J	0.00247	<0.00001	<0.00001	<0.00001	0.000079 J	<0.00001	0.0015	<0.00001	0.00029 J	0.00661
Fluorene	0.98	2.9	0.00008 J	<0.00029	0.000468 J	0.0175	<0.00003	<0.000031	<0.00003	0.00014	<0.00003	0.00019	<0.00003	0.00199	0.0395
Naphthalene	0.49	1.5	0.00024	<0.0018	<0.0034	0.792	<0.00017	0.00012	<0.00002	<0.00002	<0.00002	<0.00044	<0.00002	0.000691	0.00435
Nitrobenzene	0.049	0.15	<0.00005	<0.00005	<0.000108	<0.000109	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.0004	<0.0004
N-Nitrosodiphenylamine	0.19	0.42	<0.00005	<0.00005	<0.000098	<0.000099	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.00025	<0.00025
Pentachlorophenol	0.001	0.001	<0.00005	<0.00005	<0.000598	<0.000604	<0.00008	<0.000081	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.0002	<0.0002
Phenanthrene	0.73	2.2	0.0002 J	<0.0015	<0.000478	0.000604	<0.000021	0.00012	<0.000021	0.000068 J	<0.000021	0.0015	<0.000021	<0.0002	0.000764
Phenol	7.3	22	<0.00005	<0.00005	<0.0000392	<0.0000396	<0.000035	<0.000036	<0.000035	<0.000035	<0.000035	<0.000041	<0.000035	<0.0002	<0.0002
Pyrene	0.73	2.2	0.000055 J	<0.00033	<0.000108	0.00106	<0.000019	<0.000019	<0.000019	0.000084 J	<0.000019	0.001	<0.000019	<0.0002	0.00239
Metals															
Arsenic	0.01	0.01					0.000896 J	0.000716 J	0.00293	0.00488	0.000481 J	0.00352	0.00822		

Notes:

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- Concentrations > RAL and non-detects are highlighted light gray.
- Concentrations > C/I AL and non-detects are highlighted dark gray
- TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
- RAL = Residential Assessment Level, C/I = Commercial/Industrial
- J = Estimated value, < = not detected at the specified detection limit.
- MW-32A was screened in the B-CZ & replaced with MW-32AR
- Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-22B 02/03/2009	MW-22B 01/15/2010	MW-22B 06/29/2010	MW-22B 01/25/2011	MW-22B 07/21/2011	MW-22B 02/15/2012	MW-22B 07/18/2012	MW-22B 01/23/2014	MW-22B 07/30/2014	MW-22B 08/28/2014	MW-22BR 02/08/2018	MW-22BR 03/25/2018	MW-22BR 05/31/2018
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.0002	<0.00014	<0.0002	<0.0002	<0.0002	<0.0002
Benzene	0.005	0.005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	0.0042 J	0.000304 J	0.00185	0.00238	<0.0002	<0.0002	<0.0002
Chlorobenzene	0.1	0.1	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00018	<0.00012	<0.00012	<0.0003	<0.0003	<0.0003
Ethylbenzene	0.7	0.7	<0.0005	<0.0005	<0.0005	<0.0005	<0.0011	<0.0011	0.0088	0.0022	0.0255	0.0275	0.00034 J	<0.0003	<0.0003
Methylene chloride	0.005	0.005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0013	<0.0013	<0.001	<0.00022	<0.00015	<0.00015	<0.001	<0.001	<0.001
Toluene	1	1	<0.0005	<0.0005	0.00053 J	<0.0005	<0.001	<0.001	0.0033 J	0.00133	0.00584	0.00752	<0.0002	<0.0002	<0.0002
Vinyl chloride	0.002	0.002										<0.00011			
Xylenes (total)	10	10	<0.001	<0.001	<0.001	<0.001	<0.0031	<0.0031	0.0057 J	0.00409	0.0362	0.0383	0.00082 J	<0.0003	0.001
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.0001	<0.0001	<0.0001	<0.0001	<0.00005	<0.00005	<0.00005	<0.000108	<0.000109	<0.00011	<0.000021	<0.000021	<0.000021
2,4-Dimethylphenol	0.49	1.5	<0.00008	<0.00008	<0.00008	<0.00008	<0.00005	0.00014 J	<0.00005	<0.000304	0.00107	<0.00031	<0.00004	<0.000041	<0.00004
2,4-Dinitrotoluene	0.0013	0.003	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.000127	<0.000129	<0.00013	<0.000059	<0.000059	<0.000058
2,6-Dinitrotoluene	0.0013	0.003	<0.00007	<0.00007	<0.00007	<0.00007	<0.00006	<0.00006	<0.00006	<0.0000784	<0.0000792	<0.00008	<0.000042	<0.000043	<0.000042
2-Chloronaphthalene	2	5.8	<0.00012	<0.0001	<0.0001	<0.0001	<0.00005	<0.00005	<0.00005	<0.0000784	<0.0000792	<0.00008	<0.000021	<0.000021	<0.000021
2-Methylnaphthalene	0.098	0.29	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	0.00044	<0.00063	0.000414 J	0.00721	0.00663	0.00056	0.000067 J	0.000071 J
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.000814	<0.000822	<0.00083	<0.00002	<0.00002	<0.00002
4-Nitrophenol	0.049	0.15	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.000549	<0.000554	<0.00056	<0.000047	<0.000048	<0.000047
Acenaphthene	1.5	4.4	0.022	0.00016 J	0.0093	0.00022	0.003	0.068	0.18	0.0244	0.0762	0.123	0.034	0.044	0.047
Acenaphthylene	1.5	4.4	0.00034	<0.00007	0.00012 J	<0.00007	<0.00005	0.00046	0.0018	0.000886	0.000641	0.00132	<0.000015	0.00096	0.00041
Anthracene	7.3	22	0.00071	<0.00007	0.00031	<0.00007	0.00011 J	0.0017	0.0067	<0.00146	0.00292	0.00404	0.00039	0.00062	0.0013
Benzo(a)anthracene	0.0091	0.02	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000784	<0.0000792	<0.00008	<0.000051	<0.000051	<0.00005
Benzo(a)pyrene	0.0002	0.0002	<0.00008	<0.00008	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005	<0.0000784	<0.0000792	<0.00008	<0.00002	<0.00002	<0.00002
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.000127	<0.000129	<0.00013	<0.00003	<0.000031	<0.00003
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	0.00053	0.00022	<0.00061	<0.0002	0.00041	<0.00051	<0.0001	<0.000363	0.000672	<0.00037	<0.000037	<0.000038	<0.000037
Chrysene	0.91	2	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000784	<0.0000792	<0.00008	<0.000021	<0.000021	<0.000021
Dibenzofuran	0.098	0.29	0.0051	0.00026	0.0019	<0.00008	0.00068	0.0079	0.046	0.00784	0.0238	0.0409	0.00066	0.00049	0.0011
Di-n-butylphthalate (DBP)	2.4	7.3	0.00018 J	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.000873	<0.000109	<0.00011	<0.00002	<0.00002	<0.00002
Fluoranthene	0.98	2.9	0.0011	0.00011 J	0.00061	<0.00007	0.00019 J	0.0022	0.0065	0.00187	0.00304	0.00282	0.00098	0.0011	0.0028
Fluorene	0.98	2.9	0.0018	<0.00007	0.0018	<0.00007	0.00049	0.0035	0.019	0.00521	0.0198	0.0355	0.002	0.0017	0.0046
Naphthalene	0.49	1.5	0.00017 J	0.00012 J	0.00036	<0.0001	<0.00005	0.0032	0.032	0.13 J	0.832	0.977	0.0038	0.0008	0.00044
Nitrobenzene	0.049	0.15	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.000108	<0.000109	<0.00011	<0.000024	<0.000024	<0.000024
N-Nitrosodiphenylamine	0.19	0.42	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	0.00029	<0.00005	<0.000098	<0.000099	<0.0001	<0.000025	<0.000026	<0.000025
Pentachlorophenol	0.001	0.001	<0.00008	<0.00008	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005	<0.000598	<0.000604	<0.00061	<0.00008	<0.000081	<0.000079
Phenanthrene	0.73	2.2	<0.00007	0.00015 J	<0.00007	<0.00007	<0.00005	0.00026	0.0027	<0.000562	0.00053	<0.00006	0.00081	0.00018	0.00039
Phenol	7.3	22	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	0.0001 J	<0.0000392	<0.0000396	<0.00004	<0.000035	<0.000036	<0.000035
Pyrene	0.73	2.2	0.00047	<0.00007	0.00027	<0.00007	0.00012 J	0.001	0.0033	0.000876	0.00123	0.0023	0.00062	0.00077	0.0015
Metals															
Arsenic	0.01	0.01											0.0219	0.0159	0.0301

Notes:

- All values in milligrams per liter (mg/L).
- Concentrations > RAL and non-detects are highlighted light gray.
- Concentrations > C/I AL and non-detects are highlighted dark gray
- TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
- RAL = Residential Assessment Level, C/I = Commercial/Industrial
- J = Estimated value, < = not detected at the specified detection limit.
- MW-32A was screened in the B-CZ & replaced with MW-32AR
- Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-22BR 01/22/2019	MW-22BR 07/31/2019	MW-22BR 02/10/2020	MW-22BR 07/20/2020	MW-23C 02/04/2009 DNAPL	MW-23C 01/18/2010 DNAPL	MW-23C 06/23/2010 DNAPL	MW-23C 01/19/2011 DNAPL	MW-23C 07/22/2011 DNAPL	MW-23C 02/02/2012 DNAPL	MW-23C 07/12/2012 DNAPL	MW-23C 02/11/2013 DNAPL	MW-23C 07/31/2013 DNAPL
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0005	<0.0005	<0.005	<0.005	<0.01	<0.01	<0.0005	<0.00014	<0.0014
Benzene	0.005	0.005	<0.0002	<0.0002	<0.0002	<0.0002	0.017	0.012	0.0095 J	0.0072 J	<0.01	<0.01	0.0071	0.0111	0.0138
Chlorobenzene	0.1	0.1	<0.0003	<0.0003	<0.0003	<0.0003	0.001 J		<0.005	<0.005	<0.01	<0.01	<0.0005	0.000279 J	0.00146 J
Ethylbenzene	0.7	0.7	<0.0003	<0.0003	<0.0003	<0.0003	0.13	0.074	0.12	0.13	0.1	0.1	0.17	0.151	0.185
Methylene chloride	0.005	0.005	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.0005	<0.0092	<0.005	<0.013	<0.013	<0.001	<0.00015	<0.0015
Toluene	1	1	<0.0002	<0.0002	<0.0002	<0.0002	0.0023 J	0.0012 J	<0.005	<0.005	<0.01	<0.01	0.0025 J	0.00433	0.00819 J
Vinyl chloride	0.002	0.002							<0.005	<0.01	<0.01	<0.0005	<0.00011	<0.0011	
Xylenes (total)	10	10	<0.0003	<0.0003	<0.0003	<0.0003	0.073	0.044	0.069 J	0.059 J	0.048 J	0.039 J	0.11	0.0884	0.0988
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.000021	<0.000021	<0.000021	<0.000021	<0.0001	<0.0001	<0.005	<0.0001	<0.00005	<0.0005	<0.001	<0.001	<0.00534
2,4-Dimethylphenol	0.49	1.5	<0.00004	<0.00004	<0.00004	<0.00004	<0.00008	<0.00008	<0.004	<0.00008	0.0035	0.0014 J	0.028	<0.00282	<0.015
2,4-Dinitrotoluene	0.0013	0.003	<0.000058	<0.000058	<0.000058	<0.000058	<0.00009	<0.00009	<0.0045	<0.00009	<0.00005	<0.0005	<0.001	<0.00118	<0.00631
2,6-Dinitrotoluene	0.0013	0.003	<0.000042	<0.000042	<0.000042	<0.000042	<0.00007	<0.00007	<0.0035	<0.00007	<0.00006	<0.0006	<0.0012	<0.000727	<0.00388
2-Chloronaphthalene	2	5.8	<0.000021	<0.000021	0.00011 J	<0.000021	<0.00012	<0.0001	<0.005	<0.0001	<0.00005	<0.0005	<0.001	<0.000727	<0.00388
2-Methylnaphthalene	0.098	0.29	<0.000019	<0.000019	<0.000043	<0.000019	2.6	0.75	2.7	1.2	1.3	0.65	28	1.38	1.16
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00002	<0.00002	<0.00002	<0.00002	<0.00008	<0.00008	<0.004	<0.00008	<0.00008	<0.0008	<0.0016	<0.00755	<0.0403
4-Nitrophenol	0.049	0.15	<0.000047	<0.000047	<0.000047	<0.000047	<0.00007	<0.00007	<0.0035	<0.00007	<0.00005	<0.0005	<0.001	<0.00509	<0.0272
Acenaphthene	1.5	4.4	0.022	<0.000027	0.018	0.0024	3.4	1.2	3.4	1.6	2	0.89	39	1.78	1.58
Acenaphthylene	1.5	4.4	<0.000015	<0.000015	0.00018	<0.000015	0.017	0.01	0.03	0.012	0.015	0.0068	0.45	<0.000545	<0.00291
Anthracene	7.3	22	0.00048	<0.000014	0.00042	<0.000014	1.2	0.36	1.2	0.4	1.7	0.25	16	0.641	0.31
Benzo(a)anthracene	0.0091	0.02	<0.00005	<0.00005	<0.00005	<0.00005	0.31	0.12	0.3	0.12	0.15	0.046	4.8	0.104	0.0905
Benzo(a)pyrene	0.0002	0.0002	<0.00002	<0.00002	<0.00002	<0.00002	0.072	0.029	0.093	0.04	0.044	0.016	1.2	0.0283	0.0235 J
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00003	<0.00003	<0.00003	<0.00003	<0.00009	<0.00009	<0.0045	<0.00009	<0.00005	<0.0005	<0.001	<0.00118	<0.00631
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	<0.000037	<0.000037	0.000075 J	0.000064 J	0.002	<0.0011	<0.01	0.0014	0.0019	<0.001	0.042	<0.00336	<0.018
Chrysene	0.91	2	<0.000021	<0.000021	<0.000021	<0.000021	0.28	0.093	0.27	0.099	0.21	0.044	4.3	0.103	0.0819
Dibenzofuran	0.098	0.29	<0.00029	<0.00002	<0.00029	0.000057 J	3.5	1.2	3.6	1.6	2.7	0.85	46	1.82	1.48
Di-n-butylphthalate (DBP)	2.4	7.3	<0.00002	<0.00002	<0.00002	0.000052 J	<0.00007	<0.00007	<0.0035	<0.00007	<0.00005	<0.0005	<0.001	<0.001	<0.00534
Fluoranthene	0.98	2.9	0.0011	<0.00001	0.0017	0.0005	3	0.77	3	0.99	1.8	0.48	34	1.09	0.812
Fluorene	0.98	2.9	0.0025	<0.00003	0.0026	0.00036	2.5	0.82	2.6	0.88	2	0.57	32	1.19	0.874
Naphthalene	0.49	1.5	0.00017	<0.00002	<0.00013	<0.00002	9.9	3.9	8.9	8.5	7.5	7.8	83	12.2	13.2
Nitrobenzene	0.049	0.15	<0.000024	<0.000024	<0.000024	<0.000024	<0.00009	<0.00009	<0.0045	<0.00009	<0.00005	<0.0005	<0.001	<0.001	<0.00534
N-Nitrosodiphenylamine	0.19	0.42	<0.000025	<0.000025	<0.000025	<0.000025	<0.00009	<0.00009	<0.0045	<0.00009	<0.00005	<0.0005	<0.001	<0.000909	<0.00485
Pentachlorophenol	0.001	0.001	<0.000079	<0.000079	<0.000079	<0.000079	<0.00008	<0.00008	<0.004	<0.00008	<0.00005	<0.0005	<0.001	<0.00555	<0.0296
Phenanthrene	0.73	2.2	<0.000021	<0.000021	<0.00013	<0.000021	8.8	2.7	8.2	3.6	3.8	1.9	130	3.48	2.8
Phenol	7.3	22	<0.000035	0.00069	<0.000035	<0.000035	<0.00007	<0.00007	<0.0035	<0.00007	<0.00005	0.0011 J	<0.001	<0.000364	<0.00194
Pyrene	0.73	2.2	0.00046	<0.000019	0.00082	0.00023	1.6	0.59	1.9	0.6	1.1	0.35	21	0.754	0.515
Metals															
Arsenic	0.01	0.01	0.0535	0.000559 J	0.016	0.00882									

Notes:

- All values in milligrams per liter (mg/L).
- Concentrations > RAL and non-detects are highlighted light gray.
- Concentrations > C/I AL and non-detects are highlighted dark gray
- TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
- RAL = Residential Assessment Level, C/I = Commercial/Industrial
- J = Estimated value, < = not detected at the specified detection limit.
- MW-32A was screened in the B-CZ & replaced with MW-32AR
- Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-23C 01/15/2014 DNAPL	MW-23C 08/28/2014 DNAPL	MW-23C 01/09/2020 DNAPL	MW-23C 07/14/2020 DNAPL	MW-24AR 02/05/2009	MW-24AR 01/14/2010	MW-24AR 06/29/2010	MW-24AR 01/25/2011	MW-24AR 07/21/2011	MW-24AR 02/09/2012	MW-24AR 07/25/2012	MW-24AR 02/12/2013	MW-24AR 08/08/2013
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.0002	<0.0014	<0.001	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00014	<0.00014
Benzene	0.005	0.005	0.0126	0.00596 J	0.0027 J	0.0014	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00008	<0.00008
Chlorobenzene	0.1	0.1	<0.00018	<0.0012	<0.0015	<0.0003	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	0.000201 J	<0.00012
Ethylbenzene	0.7	0.7	0.165	0.15	0.028	0.021	<0.0005	<0.0005	<0.0005	<0.0005	<0.0011	<0.0011	<0.0005	<0.00011	<0.00011
Methylene chloride	0.005	0.005	<0.00022	<0.0015	<0.005	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0013	<0.0013	<0.001	<0.00015	<0.00015
Toluene	1	1	0.00728	0.00378 J	<0.001	0.0022	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00015	<0.00015
Vinyl chloride	0.002	0.002	<0.00018	<0.0011		<0.0002									<0.00011
Xylenes (total)	10	10	0.0959	0.0915	0.025	0.017	<0.001	<0.001	<0.001	<0.001	<0.0031	<0.0031	<0.0015	<0.00026	<0.00026
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.0259	<0.022	<0.00021	<0.000021	<0.0001	<0.0001	<0.0001	<0.0001	<0.00005	<0.00005	<0.00005	<0.000105	<0.000104
2,4-Dimethylphenol	0.49	1.5	<0.0731	0.202	<0.047	0.022	<0.00008	<0.00008	<0.00008	<0.00008	<0.00005	0.00013 J	<0.00005	R	<0.000292
2,4-Dinitrotoluene	0.0013	0.003	<0.0307	<0.026	<0.00058	<0.000058	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.000124	<0.000123
2,6-Dinitrotoluene	0.0013	0.003	<0.0189	<0.016	<0.00042	<0.000042	<0.00007	<0.00007	<0.00007	<0.00007	<0.00006	<0.00006	<0.00006	<0.0000762	<0.0000755
2-Chloronaphthalene	2	5.8	<0.0189	<0.016	<0.00021	<0.000021	<0.00012	<0.0001	<0.0001	<0.0001	<0.00005	<0.00005	<0.00005	<0.0000762	<0.0000755
2-Methylnaphthalene	0.098	0.29	4.52	18.3	0.12	0.041	<0.00007	0.00023	<0.00007	0.00018 J	<0.00005	<0.00005	<0.00005	<0.0000667	<0.000066
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.196	<0.166	<0.0002	<0.00002	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.000079	<0.0000783
4-Nitrophenol	0.049	0.15	<0.132	<0.112	<0.00047	<0.000047	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	R	<0.000528
Acenaphthene	1.5	4.4	7.79	25.9	0.21	0.06	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.0000762	<0.0000755
Acenaphthylene	1.5	4.4	<0.0142	0.336	0.0029	0.0014	<0.00006	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000571	<0.0000566
Anthracene	7.3	22	1.49	8.74	0.035	0.016	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000476	<0.0000472
Benzo(a)anthracene	0.0091	0.02	0.5	2.63	0.008	0.0053	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000762	<0.0000755
Benzo(a)pyrene	0.0002	0.0002	0.119	0.73	0.0022	0.0017	<0.00008	<0.00008	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005	<0.0000762	<0.0000755
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.0307	<0.026	<0.0003	<0.00003	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.000124	<0.000123
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	<0.0873	<0.074	<0.00037	0.00015 J	0.00031	<0.00029	<0.00024	<0.0002	0.00089	0.00048	<0.0001	<0.000352	<0.000349
Chrysene	0.91	2	0.476	2.24	0.0072	0.004	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000762	<0.0000755
Dibenzofuran	0.098	0.29	5.45	25.7	0.17	0.051	<0.00008	0.000084 J	0.00011 J	<0.00008	<0.00008	<0.00005	<0.00005	<0.0000762	<0.0000755
Di-n-butylphthalate (DBP)	2.4	7.3	<0.0259	<0.022	<0.0002	<0.00002	0.0019	0.0001 J	<0.00007	<0.00007	<0.00005	0.00017 J	<0.000071	<0.000105	0.000168 J
Fluoranthene	0.98	2.9	4.42	20.4	0.068	0.029	<0.00007	0.00011 J	<0.00007	<0.00007	<0.00005	0.000069 J	<0.00005	<0.0000667	<0.000066
Fluorene	0.98	2.9	3.78	20.5	0.12	0.041	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000667	<0.000066
Naphthalene	0.49	1.5	43.8	57.9	0.66	0.92	<0.0001	<0.0023	0.00036	0.00081	<0.00005	<0.00005	<0.00005	<0.000139	<0.0000755
Nitrobenzene	0.049	0.15	<0.0259	<0.022	<0.00024	<0.000024	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.000105	<0.000104
N-Nitrosodiphenylamine	0.19	0.42	<0.0236	<0.02	<0.00025	<0.000025	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.0000952	<0.0000943
Pentachlorophenol	0.001	0.001	<0.144	<0.122	<0.00079	0.00065	<0.00008	<0.00008	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005	R	<0.000575
Phenanthrene	0.73	2.2	18.2	59.4	0.25	0.098	<0.00007	0.00018 J	<0.00007	0.0001 J	<0.00005	<0.00005	<0.00005	0.000089 J	<0.0000566
Phenol	7.3	22	<0.00943	<0.008	0.0079	0.0098	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	0.00005 J	<0.00005	R	<0.0000377
Pyrene	0.73	2.2	3.04	13.3	0.043	0.018	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	0.000067 J	<0.00005	<0.000105	<0.000104
Metals															
Arsenic	0.01	0.01			0.00333	0.00196 J									

Notes:

- All values in milligrams per liter (mg/L).
- Concentrations > RAL and non-detects are highlighted light gray.
- Concentrations > C/I AL and non-detects are highlighted dark gray
- TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
- RAL = Residential Assessment Level, C/I = Commercial/Industrial
- J = Estimated value, < = not detected at the specified detection limit.
- MW-32A was screened in the B-CZ & replaced with MW-32AR
- Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-24AR 01/23/2014	MW-24B 01/28/2008	MW-24B 07/14/2008	MW-24B 02/03/2009	MW-24B 01/14/2010	MW-24B 06/29/2010	MW-24B 01/25/2011	MW-24B 07/21/2011	MW-24B 02/09/2012	MW-24B 07/25/2012	MW-24B 02/12/2013	MW-24B 08/08/2013	MW-24C 01/28/2008
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.0002	<0.00245	<0.00109	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00014	<0.00014	<0.00245
Benzene	0.005	0.005	<0.0002	<0.00257	<0.00112	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00008	<0.00008	<0.00257
Chlorobenzene	0.1	0.1	<0.00018	<0.00239	<0.0015	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00012	<0.00012	<0.00239
Ethylbenzene	0.7	0.7	<0.00019	<0.00203	<0.00142	<0.0005	<0.0005	<0.0005	<0.0005	<0.0011	<0.0011	<0.0005	<0.00011	<0.00011	<0.00203
Methylene chloride	0.005	0.005	<0.00022	<0.00195	<0.00122	<0.0005	<0.0005	<0.0005	<0.0005	<0.0013	<0.0013	<0.001	<0.00015	<0.00015	<0.00195
Toluene	1	1	<0.00017	<0.00274	<0.00138	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00015	0.0209	<0.00274
Vinyl chloride	0.002	0.002												<0.00011	
Xylenes (total)	10	10	<0.00058	<0.00581	<0.00302	<0.001	<0.001	<0.001	<0.001	<0.0031	<0.0031	<0.0015	<0.00026	<0.00026	<0.00581
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.000105	<0.00008	<0.00008	<0.0001	<0.0001	<0.0001	<0.0001	<0.00005	<0.00005	<0.00005	<0.000105	<0.000108	<0.00008
2,4-Dimethylphenol	0.49	1.5	<0.000295	<0.00029	<0.0003	<0.00008	<0.00008	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005	<0.000295	<0.000304	<0.00029
2,4-Dinitrotoluene	0.0013	0.003	<0.000124	<0.00019	<0.0002	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.000124	<0.000127	<0.00019
2,6-Dinitrotoluene	0.0013	0.003	<0.0000762	<0.00019	<0.0002	<0.00007	<0.00007	<0.00007	<0.00007	<0.00006	<0.00006	<0.00006	<0.0000762	<0.0000784	<0.00019
2-Chloronaphthalene	2	5.8	<0.0000762	<0.00038	<0.0004	<0.00012	<0.0001	<0.0001	<0.0001	<0.00005	<0.00005	<0.00005	<0.0000762	<0.0000784	<0.00038
2-Methylnaphthalene	0.098	0.29	0.0000924 J	<0.00038	<0.0004	<0.00007	<0.00007	0.000099 J	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000667	<0.0000686	<0.00038
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00079	<0.00019	<0.0002	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00079	<0.000814	<0.00019
4-Nitrophenol	0.049	0.15	<0.000533	<0.00024	<0.00025	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.000533	<0.000549	<0.00024
Acenaphthene	1.5	4.4	0.000146 J	<0.00029	<0.0003	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.0000762	<0.0000784	<0.00029
Acenaphthylene	1.5	4.4	<0.0000571	<0.00029	<0.0003	<0.00006	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000571	<0.0000588	<0.00029
Anthracene	7.3	22	<0.000452	0.00066	<0.0002	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000476	<0.000049	<0.00019
Benzo(a)anthracene	0.0091	0.02	<0.0000762	<0.00019	<0.0002	0.00015 J	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000762	<0.0000784	<0.00019
Benzo(a)pyrene	0.0002	0.0002	<0.0000762	<0.00019	<0.0002	<0.00008	<0.00008	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005	<0.0000762	<0.0000784	<0.00019
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.000124	<0.00038	<0.0004	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.000124	<0.000127	<0.00038
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	0.000767 J	<0.00019	<0.0002	0.00046	<0.0021	<0.00074	<0.0002	0.00014 J	0.00011 J	<0.00015	<0.000352	<0.000363	<0.00019
Chrysene	0.91	2	<0.0000762	<0.00019	<0.0002	0.00015 J	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000762	<0.0000784	<0.00019
Dibenzofuran	0.098	0.29	0.000164 J	0.000568	<0.0003	<0.00008	<0.00008	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005	<0.0000762	<0.0000784	0.000571
Di-n-butylphthalate (DBP)	2.4	7.3	<0.000837	<0.00019	<0.0002	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00013	<0.000105	<0.000108	0.00063 J
Fluoranthene	0.98	2.9	0.000224 J	<0.00019	<0.0002	0.00011 J	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000667	<0.0000686	0.000529
Fluorene	0.98	2.9	0.000137 J	0.00026 J	<0.0002	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000667	<0.0000686	<0.00019
Naphthalene	0.49	1.5	<0.000744	0.00105	<0.0004	<0.0001	<0.0001	0.00083	<0.0001	<0.00005	<0.00005	0.00015 J	<0.0000762	<0.0000784	<0.00038
Nitrobenzene	0.049	0.15	<0.000105	<0.00038	<0.0004	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.000105	<0.000108	<0.00038
N-Nitrosodiphenylamine	0.19	0.42	<0.0000952	<0.00024	<0.00025	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.0000952	<0.000098	<0.00024
Pentachlorophenol	0.001	0.001	<0.000581	<0.00019	<0.0002	<0.00008	<0.00008	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005	<0.000581	<0.000598	<0.00019
Phenanthrene	0.73	2.2	<0.000691	0.000676	<0.0002	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000571	<0.0000588	0.000677
Phenol	7.3	22	<0.0000381	<0.00019	<0.0002	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000381	<0.0000392	<0.00019
Pyrene	0.73	2.2	0.000172 J	<0.00019	<0.0002	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.000105	<0.000108	0.00041 J
Metals															
Arsenic	0.01	0.01													

Notes:

1. All values in milligrams per liter (mg/L).
2. Concentrations > RAL and non-detects are highlighted light gray.
3. Concentrations > C/I AL and non-detects are highlighted dark gray
4. TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
5. RAL = Residential Assessment Level, C/I = Commercial/Industrial
6. J = Estimated value, < = not detected at the specified detection limit.
7. MW-32A was screened in the B-CZ & replaced with MW-32AR
8. Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-24C 07/14/2008	MW-24C 02/03/2009	MW-24C 01/14/2010	MW-24C 06/29/2010	MW-24C 01/25/2011	MW-24C 07/21/2011	MW-24C 02/09/2012	MW-24C 07/25/2012	MW-24C 02/12/2013	MW-24C 08/08/2013	MW-25A 01/28/2008	MW-25A 07/14/2008	MW-25A 02/03/2009
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.00109	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00014	<0.00014	<0.00245	<0.00052	<0.0005
Benzene	0.005	0.005	<0.00112	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00008	<0.00008	<0.00257	<0.00025	<0.0005
Chlorobenzene	0.1	0.1	<0.0015	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00012	<0.00012	<0.00239	<0.00047	<0.0005
Ethylbenzene	0.7	0.7	<0.00142	<0.0005	<0.0005	<0.0005	<0.0005	<0.0011	<0.0011	<0.0005	<0.00011	<0.00011	<0.00203	<0.00025	0.0029 J
Methylene chloride	0.005	0.005	<0.00122	<0.0005	<0.0005	<0.0005	<0.0005	<0.0013	<0.0013	<0.001	<0.00015	<0.00015	<0.00195	<0.00054	<0.0005
Toluene	1	1	<0.00138	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	0.000218 J	<0.00015	<0.00274	<0.00041	0.00074 J
Vinyl chloride	0.002	0.002									<0.00011				
Xylenes (total)	10	10	<0.00302	<0.001	<0.001	<0.001	<0.001	<0.0031	<0.0031	<0.0015	<0.00026	<0.00026	<0.00581	<0.00127	0.0047 J
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.00008	<0.0001	<0.0001	<0.0001	<0.0001	<0.00005	<0.00005	<0.00005	<0.000105	<0.000108	<0.00008	<0.00009	<0.0001
2,4-Dimethylphenol	0.49	1.5	<0.00029	<0.00008	<0.00008	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005	<0.000295	<0.000304	<0.00029	<0.00033	<0.00008
2,4-Dinitrotoluene	0.0013	0.003	<0.00019	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.000124	<0.000127	<0.00019	<0.00022	<0.00009
2,6-Dinitrotoluene	0.0013	0.003	<0.00019	<0.00007	<0.00007	<0.00007	<0.00007	<0.00006	<0.00006	<0.00006	<0.0000762	<0.0000784	<0.00019	<0.00022	<0.00007
2-Chloronaphthalene	2	5.8	<0.00038	<0.00012	<0.0001	<0.0001	<0.0001	<0.00005	<0.00005	<0.00005	<0.0000762	<0.0000784	<0.00038	<0.00044	<0.00012
2-Methylnaphthalene	0.098	0.29	<0.00038	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	0.000077 J	<0.0000667	<0.0000686	<0.00038	<0.00044	0.024
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00019	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.000079	<0.0000814	<0.00019	<0.00022	<0.00008
4-Nitrophenol	0.049	0.15	<0.00024	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.000533	<0.000549	<0.00024	<0.00028	<0.00007
Acenaphthene	1.5	4.4	<0.00029	<0.00009	<0.00009	0.00022	<0.00009	<0.00005	<0.00005	<0.00005	<0.0000762	<0.0000784	0.00038 J	<0.00033	0.034
Acenaphthylene	1.5	4.4	<0.00029	<0.00006	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000571	<0.0000588	<0.00029	<0.00033	0.0004
Anthracene	7.3	22	<0.00019	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000476	<0.000049	0.00067	<0.00022	0.0005
Benzo(a)anthracene	0.0091	0.02	<0.00019	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000762	<0.0000784	<0.00019	<0.00022	<0.00007
Benzo(a)pyrene	0.0002	0.0002	<0.00019	<0.00008	<0.00008	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005	<0.0000762	<0.0000784	<0.00019	<0.00022	<0.00008
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00038	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.000124	<0.000127	<0.00038	<0.00044	<0.00009
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	<0.00019	0.00055	<0.0002	<0.001	<0.0002	0.00013 J	0.0013	<0.00013	<0.000352	<0.000363	0.00021 J	<0.00022	0.00033
Chrysene	0.91	2	<0.00019	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000762	<0.0000784	<0.00019	<0.00022	<0.00007
Dibenzofuran	0.098	0.29	<0.00029	<0.00008	<0.00008	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005	<0.0000762	<0.0000784	0.000601	<0.00033	0.018
Di-n-butylphthalate (DBP)	2.4	7.3	<0.00019	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.000105	<0.000108	<0.00019	<0.00022	<0.00007
Fluoranthene	0.98	2.9	<0.00019	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000667	<0.0000686	0.000556	<0.00022	0.00057
Fluorene	0.98	2.9	<0.00019	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000667	<0.0000686	0.00033 J	<0.00022	0.0049
Naphthalene	0.49	1.5	<0.00038	0.00013 J	<0.00026	<0.0001	<0.0001	0.0002	<0.00005	0.00019 J	<0.0000762	<0.0000784	0.0011	<0.00044	0.45
Nitrobenzene	0.049	0.15	<0.00038	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.000105	<0.000108	<0.00038	<0.00044	<0.00009
N-Nitrosodiphenylamine	0.19	0.42	<0.00024	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.0000952	<0.000098	<0.00024	<0.00028	<0.00009
Pentachlorophenol	0.001	0.001	<0.00019	<0.00008	<0.00008	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005	<0.000581	<0.000598	<0.00019	<0.00022	<0.00008
Phenanthrene	0.73	2.2	<0.00019	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000571	<0.0000588	0.000715	<0.00022	0.0034
Phenol	7.3	22	<0.00019	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000381	<0.0000392	<0.00019	<0.00022	<0.00007
Pyrene	0.73	2.2	<0.00019	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.000105	<0.000108	0.000484	<0.00022	0.00036
Metals															
Arsenic	0.01	0.01													

Notes:

- All values in milligrams per liter (mg/L).
- Concentrations > RAL and non-detects are highlighted light gray.
- Concentrations > C/I AL and non-detects are highlighted dark gray
- TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
- RAL = Residential Assessment Level, C/I = Commercial/Industrial
- J = Estimated value, < = not detected at the specified detection limit.
- MW-32A was screened in the B-CZ & replaced with MW-32AR
- Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-25A 01/15/2010	MW-25A 06/30/2010	MW-25A 01/26/2011	MW-25A 01/26/2011 Duplicate	MW-25A 07/20/2011	MW-25A 02/08/2012	MW-25A 07/18/2012	MW-25A 02/06/2013	MW-25A 08/06/2013	MW-25A 01/22/2014	MW-25A 07/29/2014	MW-25A 01/31/2018	MW-25A ⁸ 03/27/2018
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00014	<0.00014	<0.0002	<0.00014	<0.0002	<0.0002
Benzene	0.005	0.005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00008	<0.00008	<0.0002	<0.00008	<0.0002	<0.0002
Chlorobenzene	0.1	0.1	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	0.000497 J	0.000121 J	<0.00018	<0.00012	<0.0003	<0.0003
Ethylbenzene	0.7	0.7	<0.0005	<0.0005	<0.0005	<0.0005	<0.0011	<0.0011	<0.0005	<0.00011	<0.00011	<0.00019	<0.00011	<0.0003	<0.0003
Methylene chloride	0.005	0.005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0013	<0.0013	<0.001	<0.00015	<0.00015	<0.00022	<0.00015	<0.001	<0.001
Toluene	1	1	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00015	<0.00015	<0.00017	<0.00015	<0.0002	<0.0002
Vinyl chloride	0.002	0.002					<0.001	<0.001	<0.0005	<0.00011	<0.00011	<0.00018	<0.00011	<0.0002	<0.0002
Xylenes (total)	10	10	<0.001	<0.001	<0.001	<0.001	<0.0031	<0.0031	<0.0015	<0.00026	<0.00026	<0.00058	<0.00026	<0.0003	<0.0003
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.0001	<0.0001	<0.0001	<0.0001	<0.00005	<0.00005	<0.00005	<0.000106	<0.00011	<0.000105	<0.000107	<0.000021	<0.000021
2,4-Dimethylphenol	0.49	1.5	<0.00008	<0.00008	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005	<0.000298	<0.00031	<0.000295	<0.000301	<0.00004	<0.000041
2,4-Dinitrotoluene	0.0013	0.003	<0.00009	0.00066	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.000125	<0.00013	<0.000124	<0.000126	<0.000058	<0.000059
2,6-Dinitrotoluene	0.0013	0.003	<0.00007	<0.00007	<0.00007	<0.00007	<0.00006	<0.00006	<0.00006	<0.0000769	<0.00008	<0.0000762	<0.0000777	<0.000042	<0.000043
2-Chloronaphthalene	2	5.8	<0.0001	<0.0001	<0.0001	<0.0001	<0.00005	<0.00005	<0.00005	<0.0000769	<0.00008	<0.0000762	<0.0000777	<0.000021	<0.000021
2-Methylnaphthalene	0.098	0.29	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.000061	<0.0000673	<0.00007	<0.0000667	<0.000068	0.00014	<0.000019
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00008	0.00026	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.000798	<0.00083	<0.00079	<0.000806	<0.00002	<0.00002
4-Nitrophenol	0.049	0.15	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.000538	<0.00056	<0.000533	<0.000544	<0.000047	<0.000048
Acenaphthene	1.5	4.4	0.0014	0.0012	0.00054	0.00052	0.0042	0.00053	<0.00005	0.000171 J	0.000345 J	0.00356	0.0000912 J	0.062	0.054
Acenaphthylene	1.5	4.4	<0.00007	0.00034	<0.00007	<0.00007	0.000053 J	<0.00005	<0.00005	<0.0000577	<0.00006	0.000542	<0.0000583	0.00044	0.00053
Anthracene	7.3	22	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000481	<0.00005	<0.0000476	<0.0000485	0.00057	0.00068
Benzo(a)anthracene	0.0091	0.02	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000769	<0.00008	<0.0000762	<0.0000777	<0.00005	<0.000051
Benzo(a)pyrene	0.0002	0.0002	<0.00008	0.00012 J	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005	<0.0000769	<0.00008	<0.0000762	<0.0000777	<0.00002	<0.00002
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.000125	<0.00013	<0.000124	<0.000126	<0.00003	<0.000031
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	<0.0002	<0.00056	<0.0002	0.00046	<0.00023	<0.0001	<0.0001	<0.000356	<0.00037	<0.000352	<0.000359	<0.00008	<0.000038
Chrysene	0.91	2	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000769	<0.00008	<0.0000762	<0.0000777	<0.000021	<0.000021
Dibenzofuran	0.098	0.29	<0.00008	0.00034	<0.00008	<0.00008	0.0013	0.0005	<0.00005	<0.0000769	<0.00008	<0.0000762	<0.0000777	0.00017	0.00011
Di-n-butylphthalate (DBP)	2.4	7.3	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.000106	<0.00011	<0.000105	<0.000107	<0.00002	<0.00002
Fluoranthene	0.98	2.9	0.000084 J	0.000092 J	<0.00007	<0.00007	0.00014 J	<0.00005	<0.00005	<0.0000673	<0.00007	0.00106	<0.000068	0.062	0.066
Fluorene	0.98	2.9	<0.00007	<0.00007	<0.00007	<0.00007	0.00016 J	0.00011 J	<0.00005	<0.0000673	<0.00007	<0.0000667	<0.000068	0.026	0.022
Naphthalene	0.49	1.5	<0.0001	0.00024	0.00018 J	0.00027	<0.00005	0.00017 J	<0.00038	<0.000692	<0.00008	<0.000217	<0.000817	<0.00029	0.0002
Nitrobenzene	0.049	0.15	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.000106	<0.00011	<0.000105	<0.000107	<0.000024	<0.000024
N-Nitrosodiphenylamine	0.19	0.42	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.0000962	<0.0001	<0.0000952	<0.0000971	<0.000025	<0.000026
Pentachlorophenol	0.001	0.001	<0.00008	0.00033	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005	<0.000587	<0.00061	<0.000581	<0.000592	<0.000079	<0.000081
Phenanthrene	0.73	2.2	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000577	<0.00006	<0.0000571	<0.0000583	0.00015	0.00015
Phenol	7.3	22	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	0.00005 J	<0.00005	<0.0000385	<0.00004	<0.0000381	<0.0000388	<0.000035	<0.000036
Pyrene	0.73	2.2	0.00047	0.00015 J	<0.00007	<0.00007	0.0009	<0.00005	<0.00005	<0.000106	0.000124 J	0.000585	0.00018 J	0.0033	0.0049
Metals															
Arsenic	0.01	0.01												0.0171	0.00714

- Notes:
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 - Concentrations > RAL and non-detects are highlighted light gray.
 - Concentrations > C/I AL and non-detects are highlighted dark gray
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 - RAL = Residential Assessment Level, C/I = Commercial/Industrial
 - J = Estimated value, < = not detected at the specified detection limit.
 - MW-32A was screened in the B-CZ & replaced with MW-32AR
 - Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-25A 05/31/2018	MW-25A 01/15/2019	MW-25A 07/16/2019	MW-25A 01/15/2020	MW-25A 07/22/2020	MW-25C 01/28/2008 DNAPL	MW-25C 01/15/2010 DNAPL	MW-25C 01/26/2011	MW-25C 07/20/2011	MW-25C 02/08/2012	MW-25C 07/18/2012	MW-25C 02/06/2013	MW-25C 08/06/2013
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.001	<0.025	<0.0005	<0.005	<0.01	<0.005	<0.0028	<0.0007
Benzene	0.005	0.005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.11	0.11 J	0.092	0.076	0.039 J	0.03 J	0.0304	0.0283
Chlorobenzene	0.1	0.1	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00094	<0.025	<0.0005	<0.005	<0.01	<0.005	0.00653 J	<0.0006
Ethylbenzene	0.7	0.7	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.545	0.47	0.5	0.37	0.34	0.33	0.324	0.173
Methylene chloride	0.005	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0011	<0.025	<0.0005	<0.0065	<0.013	<0.01	<0.003	<0.00075
Toluene	1	1	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.556	0.52	0.53		0.4	0.31	0.291	0.204
Vinyl chloride	0.002	0.002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002				<0.005	<0.01	<0.005	<0.0022	<0.00055
Xylenes (total)	10	10	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	1.43	1.2	1.2	1	0.98	0.96	1.03	0.575
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.8	0.0001 J	<0.0001	<0.00005	<0.00005	<0.00005	<0.106	<0.011
2,4-Dimethylphenol	0.49	1.5	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<2.9	0.00008 J	<0.00008	0.0051	<0.00005	<0.00005	<0.298	<0.031
2,4-Dinitrotoluene	0.0013	0.003	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<1.9	0.00009 J	<0.00009	<0.00005	<0.00005	<0.00005	<0.125	<0.013
2,6-Dinitrotoluene	0.0013	0.003	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<1.9	0.00007 J	<0.00007	<0.00006	<0.00006	<0.00006	<0.0769	<0.008
2-Chloronaphthalene	2	5.8	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<3.8	0.0001 J	<0.0001	<0.00005	<0.00005	<0.00005	<0.0769	<0.008
2-Methylnaphthalene	0.098	0.29	0.000052 J	<0.000051	0.000057 J	<0.000019	0.00015	193	0.76	1.4	1.3	0.92	0.9	0.8	1.32
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<1.9	0.00008 J	<0.00008	<0.00008	<0.00008	<0.00008	<0.798	<0.083
4-Nitrophenol	0.049	0.15	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<2.4	0.00007 J	<0.00007	<0.00005	<0.00005	<0.00005	<0.538	<0.056
Acenaphthene	1.5	4.4	<0.000027	0.000036 J	<0.000027	<0.000027	0.000078 J	97.5	0.21	0.55	0.28	0.26	0.21	0.261 J	0.381
Acenaphthylene	1.5	4.4	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<2.9	0.0027 J	0.0041	0.0029	0.0021	0.0021	<0.0577	<0.006
Anthracene	7.3	22	<0.000014	0.000015 J	<0.000014	0.000089 J	<0.000014	42.8	0.035	0.19	0.031	0.021	0.019	<0.0481	0.0377 J
Benzo(a)anthracene	0.0091	0.02	<0.00005	<0.00005	<0.00005	0.00012	<0.00005	9.37	0.0027 J	0.047	0.0014	0.00054	0.00086	<0.0769	<0.008
Benzo(a)pyrene	0.0002	0.0002	<0.00002	<0.00002	<0.00002	0.000038 J	<0.00002	2.3	0.0014 J	0.013	0.00043	0.00017 J	0.0002	<0.0769	<0.008
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<3.8	0.00009 J	<0.00009	<0.00005	<0.00005	<0.00005	<0.125	<0.013
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	0.0001 J	<0.000078	<0.000037	<0.000037	0.000054 J	<1.9	0.0002 J	<0.0002	<0.002	<0.0001	0.00012 J	<0.356	<0.037
Chrysene	0.91	2	<0.000021	<0.000021	<0.000021	0.000097 J	<0.000021	8.38	0.0025 J	0.048	0.0012	0.00062	0.00086	<0.0769	<0.008
Dibenzofuran	0.098	0.29	0.000033 J	<0.00002	<0.00002	<0.00002	0.00011	102	0.22	0.52	0.29	0.26	0.22	0.174 J	0.353
Di-n-butylphthalate (DBP)	2.4	7.3	<0.00002	0.00002 J	<0.00002	<0.00002	<0.00002	<1.9	0.00007 J	<0.00007	<0.00005	<0.00005	<0.00005	<0.106	<0.011
Fluoranthene	0.98	2.9	<0.00001	0.000015 J	<0.00001	0.00045	0.000075 J	84.1	0.041	0.32	0.02	0.011	0.0088	<0.0673	0.0149 J
Fluorene	0.98	2.9	<0.00003	<0.00003	<0.00003	<0.00003	0.00009 J	75.5	0.12	0.34	0.14	0.13	0.096	0.102 J	0.163
Naphthalene	0.49	1.5	0.0006	<0.00029	0.00023	0.0001	0.001	750	9.8	18	19	15	13	10.7	19.7
Nitrobenzene	0.049	0.15	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<3.8	0.00009 J	<0.00009	<0.00005	<0.00005	<0.00005	<0.106	<0.011
N-Nitrosodiphenylamine	0.19	0.42	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<2.4	0.00009 J	<0.00009	<0.00005	<0.00005	<0.00005	<0.0962	<0.01
Pentachlorophenol	0.001	0.001	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<1.9	0.00008 J	<0.00008	<0.00005	<0.00005	<0.00005	<0.587	<0.061
Phenanthrene	0.73	2.2	<0.000021	0.000029 J	<0.000021	0.00017	0.00016	214	0.19	0.7	0.18	0.14	0.12	0.147 J	0.187
Phenol	7.3	22	<0.000035	<0.000035	<0.000035	<0.000035	0.000069 J	<1.9	0.00007 J	<0.00007	0.026	0.003	0.0045	<0.0385	0.12
Pyrene	0.73	2.2	<0.000019	0.000027 J	<0.000019	0.00035	0.000057 J	49.5	0.022	0.24	0.0092	0.0047	0.0063	<0.106	<0.011
Metals															
Arsenic	0.01	0.01	0.00171 J	0.00216	0.00285	0.00216	0.0019 J								

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CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	<i>Residential Assessment Level</i>	<i>C/I PCL</i>	MW-25C 01/22/2014	MW-25C 07/29/2014	MW-25C 01/28/2018	MW-25C ⁸ 03/26/2018	MW-25C 05/31/2018	MW-25C 01/15/2019	MW-25C 07/16/2019	MW-25C 01/15/2020	MW-25C 07/22/2020	MW-26A 01/29/2008	MW-26A 07/14/2008	MW-26A 02/03/2009	MW-26A 01/13/2010
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.0002	<0.0007	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00052	<0.00052	<0.0005	<0.0005
Benzene	0.005	0.005	0.022	0.0119	0.00089 J	0.00047 J	0.0013	<0.0002	0.0013	0.0017	0.0016	<0.00025	<0.00025	<0.0005	<0.0005
Chlorobenzene	0.1	0.1	0.00034 J	<0.0006	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00047	<0.00047	<0.0005	<0.0005
Ethylbenzene	0.7	0.7	0.32	0.298	0.042	0.043	0.036	0.038	0.035	0.033	0.029	<0.00025	<0.00025	<0.0005	<0.0005
Methylene chloride	0.005	0.005	<0.00022	<0.00075	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00054	<0.00054	<0.0005	<0.0005
Toluene	1	1	0.261	0.207	0.015	0.015	0.013	0.013	0.011	0.01	0.0081	<0.00041	<0.00041	<0.0005	<0.0005
Vinyl chloride	0.002	0.002	<0.00018	<0.00055	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00127	<0.00127	<0.001	<0.001
Xylenes (total)	10	10	1.01	1.07	0.29	0.32	0.28	0.27	0.25	0.22	0.19	<0.00127	<0.00127	<0.001	<0.001
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.0105	<0.000107	<0.000021	<0.00021	<0.00021	<0.000021	<0.00021	<0.000021	<0.00021	<0.00008	<0.00008	<0.0001	<0.0001
2,4-Dimethylphenol	0.49	1.5	0.372	<0.000301	0.00061	0.0033	0.0075	<0.00004	0.0075	0.0062	0.018	<0.0003	<0.0003	0.00054	<0.00008
2,4-Dinitrotoluene	0.0013	0.003	<0.0124	<0.000126	<0.000058	<0.00058	<0.00058	<0.000058	<0.00058	<0.000058	<0.00058	<0.0002	<0.0002	<0.00009	<0.00009
2,6-Dinitrotoluene	0.0013	0.003	<0.00762	<0.0000777	<0.000042	<0.00042	<0.00042	<0.000042	<0.00042	<0.000042	<0.00042	<0.0002	<0.0002	<0.00007	<0.00007
2-Chloronaphthalene	2	5.8	<0.00762	<0.0000777	<0.000021	<0.00021	<0.00021	<0.000021	<0.00021	<0.000021	<0.00021	<0.0004	<0.0004	<0.00012	<0.0001
2-Methylnaphthalene	0.098	0.29	1.46	0.943	0.48	0.69	0.71	0.4	0.54	0.96	0.51	<0.0004	<0.0004	0.0024	<0.00007
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.079	<0.000806	<0.00002	<0.0002	<0.0002	<0.00002	<0.0002	<0.00002	0.00065 J	<0.0002	<0.0002	<0.00008	<0.00008
4-Nitrophenol	0.049	0.15	<0.0533	<0.000544	<0.000047	<0.00047	<0.00047	<0.000047	<0.00047	<0.000047	<0.00047	<0.00025	<0.00025	<0.00007	<0.00007
Acenaphthene	1.5	4.4	0.416	0.284	0.17	0.21	0.23	0.13	0.2	0.36	0.099	0.0519	0.0173	0.015	0.0097
Acenaphthylene	1.5	4.4	<0.00571	0.00316	0.017	0.0023	0.0028	0.0012	0.002	0.0025	0.0016	<0.0003	<0.0003	<0.00006	0.00014 J
Anthracene	7.3	22	0.0372 J	0.0209	0.015	0.019	0.024	0.011	0.016	0.027	0.012	0.0018	0.00047 J	0.00079	<0.00007
Benzo(a)anthracene	0.0091	0.02	<0.00762	0.000813	0.00079	0.0011	0.0012	0.00065	0.0013	0.00057	0.0013	<0.0002	<0.0002	0.00016 J	<0.00007
Benzo(a)pyrene	0.0002	0.0002	<0.00762	0.000435 J	0.00028	<0.0002	0.00042 J	0.00021	0.00037 J	0.00019	0.00043 J	<0.0002	<0.0002	<0.00008	<0.00008
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.0124	0.0016	<0.00003	<0.0003	<0.0003	<0.00003	<0.0003	<0.00003	<0.0003	<0.0004	<0.0004	<0.00009	<0.00009
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	<0.0352	<0.000674	0.00006 J	<0.00037	<0.00037	<0.000037	<0.00037	0.00066	<0.00037	0.0214	<0.0002	0.00042	<0.00026
Chrysene	0.91	2	<0.00762	0.000957	0.00077	0.0013	0.0014	0.00074	0.0014	0.00056	0.00099 J	<0.0002	<0.0002	0.00018 J	<0.00007
Dibenzofuran	0.098	0.29	<0.00762	0.276	0.18	0.2	0.21	0.14	0.19	0.34	0.094	0.00492	0.00123	0.0026	0.00078
Di-n-butylphthalate (DBP)	2.4	7.3	<0.0105	<0.000107	<0.00002	<0.0002	<0.0002	<0.00002	<0.0002	0.00068	<0.0002	<0.0002	<0.0002	<0.00007	<0.00007
Fluoranthene	0.98	2.9	0.018 J	0.0127	0.0092	0.014	0.015	0.0079	0.014	0.0058	0.01	0.00244	0.000523	0.00091	0.0003
Fluorene	0.98	2.9	<0.00667	0.129	0.086	0.091	0.11	0.062	0.081	0.15	0.051	0.00235	0.000742	0.0016	0.00028
Naphthalene	0.49	1.5	19	10.7	3	5.9	5.6	3.5	4.2	7.5	2.4	0.00078	<0.0004	0.0074	<0.00051
Nitrobenzene	0.049	0.15	<0.0105	<0.000107	<0.000024	<0.00024	<0.00024	<0.000024	<0.00024	<0.000024	<0.00024	<0.0004	<0.0004	<0.00009	<0.00009
N-Nitrosodiphenylamine	0.19	0.42	<0.00952	<0.0000971	<0.000025	<0.00025	<0.00025	<0.000025	<0.00025	<0.000025	<0.00025	<0.00025	<0.00025	<0.00009	<0.00009
Pentachlorophenol	0.001	0.001	<0.0581	<0.000592	<0.000079	<0.00079	<0.00079	<0.000079	<0.00079	<0.000079	<0.00079	<0.0002	<0.0002	<0.00008	<0.00008
Phenanthrene	0.73	2.2	0.222	0.14	0.089	0.15	0.16	0.077	0.12	0.18	0.073	<0.0002	<0.0002	0.003	0.00021
Phenol	7.3	22	<0.00381	0.00177	<0.000035	<0.00035	<0.00035	<0.000035	<0.00035	<0.000035	0.008	<0.0002	<0.0002	<0.00007	<0.00007
Pyrene	0.73	2.2	<0.0105	0.00769	0.0062	0.011	0.01	0.0052	0.0085	0.0049	0.006	0.00126	0.00021 J	0.00069	0.00092 J
Metals															
Arsenic	0.01	0.01			0.00283	0.003	0.00305	0.00359	0.00487	0.00391	0.00433				

- Notes:
1. All values in milligrams per liter (mg/L).
2. Concentrations > RAL and non-detects are highlighted light gray.
3. Concentrations > C/I AL and non-detects are highlighted dark gray
4. TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
5. RAL = Residential Assessment Level, C/I = Commercial/Industrial
6. J = Estimated value, < = not detected at the specified detection limit.
7. MW-32A was screened in the B-CZ & replaced with MW-32AR
8. Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-26A 06/25/2010	MW-26A 01/24/2011	MW-26A 07/19/2011	MW-26A 08/25/2011	MW-26A 10/20/2011	MW-26A 02/15/2012	MW-26A 07/17/2012	MW-26A 02/06/2013	MW-26A 08/07/2013	MW-26A 10/14/2013	MW-26A 01/22/2014	MW-26A 07/24/2014	MW-26A 01/28/2018
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.0005	<0.0005	<0.001			<0.001	<0.0005	<0.00014	<0.00014		<0.0002	<0.00014	<0.0002
Benzene	0.005	0.005	<0.0005	<0.0005	0.031	0.042	0.004 J	<0.001	<0.0005	0.00118	0.0097	0.00391	0.000434 J	0.000189 J	<0.0002
Chlorobenzene	0.1	0.1	<0.0005	<0.0005	<0.001			<0.001	<0.0005	0.000176 J	0.000297 J		<0.00018	0.000205 J	<0.0003
Ethylbenzene	0.7	0.7	<0.0005	<0.0005	<0.0011			<0.0011	<0.0005	<0.00011	0.000815 J		<0.00019	<0.00011	<0.0003
Methylene chloride	0.005	0.005	<0.0005	<0.0005	<0.0013			<0.0013	<0.001	<0.00015	<0.00015		<0.00022	<0.00015	<0.001
Toluene	1	1	<0.0005	<0.0005	<0.001			<0.001	<0.0005	<0.00015	<0.000291		<0.00017	<0.00015	<0.0002
Vinyl chloride	0.002	0.002												<0.00011	
Xylenes (total)	10	10	<0.001	<0.001	0.0045 J			<0.0031	<0.0015	<0.00026	0.00239 J		<0.00058	<0.00026	<0.0003
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.0001	<0.0001	<0.00005			<0.00005	<0.00005	<0.00529	<0.000104		<0.00011	<0.000107	<0.000021
2,4-Dimethylphenol	0.49	1.5	<0.00008	<0.00008	<0.00005			<0.00005	<0.00005	<0.0149	<0.000292		<0.00031	<0.000301	0.000056 J
2,4-Dinitrotoluene	0.0013	0.003	<0.00009	<0.00009	<0.00005			<0.00005	0.0001 J	<0.00625	<0.000123		<0.00013	<0.000126	<0.000058
2,6-Dinitrotoluene	0.0013	0.003	<0.00007	<0.00007	<0.00006			<0.00006	<0.00006	<0.00385	<0.0000755		<0.00008	<0.0000777	<0.000042
2-Chloronaphthalene	2	5.8	<0.0001	<0.0001	<0.00005			<0.00005	<0.00005	<0.00385	<0.0000755		<0.00008	<0.0000777	<0.000021
2-Methylnaphthalene	0.098	0.29	<0.00007	0.00031	0.00039			<0.00005	0.000056 J	<0.00337	0.000414 J		<0.00007	<0.000068	0.000053 J
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00008	<0.00008	<0.00008			<0.00008	<0.00008	<0.0399	<0.000783		<0.00083	<0.000806	<0.00002
4-Nitrophenol	0.049	0.15	<0.00007	<0.00007	<0.00005			<0.00005	<0.00005	<0.0269	<0.000528		<0.00056	<0.000544	<0.000047
Acenaphthene	1.5	4.4	0.005	0.0039	0.12			0.0095	0.0087	0.0481	0.141		0.0699	0.0663	0.0073
Acenaphthylene	1.5	4.4	<0.00007	<0.00007	0.00047			0.00013 J	<0.00005	<0.00288	<0.0000566		<0.00006	0.000486	0.00007 J
Anthracene	7.3	22	0.0002	0.000099 J	0.0026			0.00025	0.00027	<0.0024	0.00228		0.00136	0.00141	0.00012
Benzo(a)anthracene	0.0091	0.02	<0.00007	<0.00007	<0.00005			<0.00005	<0.00005	<0.00385	<0.0000755		<0.00008	<0.0000777	<0.00005
Benzo(a)pyrene	0.0002	0.0002	<0.00008	<0.00008	<0.00005			<0.00005	<0.00005	<0.00385	<0.0000755		<0.00008	<0.0000777	<0.00002
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00009	<0.00009	<0.00005			<0.00005	<0.00005	<0.00625	<0.000123		<0.00013	<0.000126	<0.00003
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	<0.00045	0.00043	<0.00031			<0.0001	0.0002 J	<0.0178	<0.000349		<0.00037	<0.000359	0.000076 J
Chrysene	0.91	2	0.0003	<0.00007	<0.00005			<0.00005	<0.00005	<0.00385	<0.0000755		<0.00008	<0.0000777	<0.000021
Dibenzofuran	0.098	0.29	0.00033	0.00038	0.021			0.0014	0.00084	0.00416 J	0.0151		<0.00008	0.00154	<0.00016
Di-n-butylphthalate (DBP)	2.4	7.3	<0.00007	<0.00007	<0.00005			<0.00005	<0.00005	<0.00529	<0.000104		<0.00011	<0.000107	<0.00002
Fluoranthene	0.98	2.9	0.0004	0.00036	0.0048			0.00049	0.00092	<0.00337	0.0062		0.00306	0.00465	0.00084
Fluorene	0.98	2.9	0.00034	0.00017 J	0.0057			0.0006	0.00041	<0.00337	0.00611		0.0031	0.00245	0.00044
Naphthalene	0.49	1.5	<0.0001	0.0043	0.0019			0.0001 J	0.00027	<0.00385	0.0066		<0.000924	0.000419 J	<0.00014
Nitrobenzene	0.049	0.15	<0.00009	<0.00009	<0.00005			<0.00005	<0.00005	<0.00529	<0.000104		<0.00011	0.00394	<0.000024
N-Nitrosodiphenylamine	0.19	0.42	<0.00009	<0.00009	0.00023			<0.00005	<0.00005	<0.00481	<0.0000943		<0.0001	<0.0000971	<0.000025
Pentachlorophenol	0.001	0.001	<0.00008	<0.00008	<0.00005			<0.00005	<0.00005	<0.0293	<0.000575		<0.00061	<0.000592	<0.000079
Phenanthrene	0.73	2.2	0.00017 J	0.00011 J	0.00029			<0.00005	<0.00005	<0.00288	<0.0000566		0.000147 J	0.000155 J	<0.000038
Phenol	7.3	22	<0.00007	<0.00007	<0.00005			<0.00005	<0.00005	<0.00192	<0.0000377		<0.00004	<0.0000388	<0.000035
Pyrene	0.73	2.2	0.0002 J	0.00013 J	0.0031			0.00024	0.00051	<0.00529	0.00322		0.00159	0.0022	0.00043
Metals															
Arsenic	0.01	0.01													0.032

Notes:

1. All values in milligrams per liter (mg/L).
2. Concentrations > RAL and non-detects are highlighted light gray.
3. Concentrations > C/I AL and non-detects are highlighted dark gray
4. TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
5. RAL = Residential Assessment Level, C/I = Commercial/Industrial
6. J = Estimated value, < = not detected at the specified detection limit.
7. MW-32A was screened in the B-CZ & replaced with MW-32AR
8. Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-26A 03/21/2018	MW-26A 06/05/2018	MW-26A 01/15/2019	MW-26A 07/17/2019	MW-26A 01/16/2020	MW-26A 07/27/2020	MW-27A 01/28/2008	MW-27A 07/14/2008	MW-27A 02/09/2018	MW-27A 03/26/2018	MW-27A 06/01/2018	MW-27A 07/18/2019	MW-27A 01/15/2020
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00245	<0.00109	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Benzene	0.005	0.005	<0.0002	<0.0002	<0.0002	0.00036 J	<0.0002	<0.0002	<0.00257	<0.00112	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Chlorobenzene	0.1	0.1	<0.0003	<0.0003	0.00056 J	<0.0003	<0.0003	<0.0003	<0.00239	<0.0015	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Ethylbenzene	0.7	0.7	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00203	<0.00142	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Methylene chloride	0.005	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00195	<0.00122	<0.001	<0.001	<0.001	<0.001	<0.001
Toluene	1	1	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00274	<0.00138	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Vinyl chloride	0.002	0.002													
Xylenes (total)	10	10	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00581	<0.00302	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.00013	<0.0001	<0.00008	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021
2,4-Dimethylphenol	0.49	1.5	<0.000041	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00043	<0.0003	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004
2,4-Dinitrotoluene	0.0013	0.003	<0.000059	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.00029	<0.0002	<0.000059	<0.000058	<0.000058	<0.000058	<0.000058
2,6-Dinitrotoluene	0.0013	0.003	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.00029	<0.0002	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042
2-Chloronaphthalene	2	5.8	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	0.00007 J	<0.00057	<0.0004	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021
2-Methylnaphthalene	0.098	0.29	<0.000019	<0.000019	<0.000019	0.000059 J	<0.000042	<0.000019	<0.00057	<0.0004	<0.000019	<0.000019	<0.000019	0.00034	<0.000019
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00029	<0.0002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
4-Nitrophenol	0.049	0.15	<0.000048	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.00036	<0.00025	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047
Acenaphthene	1.5	4.4	<0.000028	0.019	0.042	0.028	<0.00017	0.092	<0.00043	<0.0003	<0.000027	<0.000027	<0.000027	0.00011	<0.000027
Acenaphthylene	1.5	4.4	<0.000015	0.000082 J	0.00027	0.00013	<0.000015	0.000077 J	<0.00043	<0.0003	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015
Anthracene	7.3	22	0.00015	0.00025	0.00087	0.00047	<0.000087	<0.00014	0.00087	<0.0002	<0.000014	<0.000014	<0.000014	0.000036 J	<0.000014
Benzo(a)anthracene	0.0091	0.02	<0.000051	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00029	<0.0002	<0.000051	<0.00005	<0.00005	<0.00005	<0.00005
Benzo(a)pyrene	0.0002	0.0002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.000026	<0.00057	<0.0002	<0.00002	<0.00002	<0.00002	<0.00002	0.000052 J
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.000031	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00057	<0.0004	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	<0.000038	<0.000037	<0.000037	<0.00019	<0.000037	0.000068 J	0.00044 J	0.00026 J	0.0002	<0.000037	0.0005	0.0002	0.000062 J
Chrysene	0.91	2	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000041	<0.00029	<0.0002	0.00005 J	<0.000021	<0.000021	<0.000021	<0.000021
Dibenzofuran	0.098	0.29	0.000086 J	0.0001	0.0005	0.00021	<0.000044	<0.00003	0.00044 J	<0.0003	<0.00002	<0.00002	0.00014	<0.00002	<0.00002
Di-n-butylphthalate (DBP)	2.4	7.3	0.000052 J	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00029	<0.0002	<0.00002	<0.00002	<0.00002	0.000034 J	<0.00002
Fluoranthene	0.98	2.9	0.0011	0.0014	0.0044	0.0029	0.00073	<0.0017	0.000756	<0.0002	0.000058 J	<0.00001	<0.00001	0.000024 J	<0.00001
Fluorene	0.98	2.9	0.00051	0.00084	0.0039	0.0017	<0.00029	0.00061	<0.00029	<0.0002	<0.00003	<0.00003	<0.00003	0.000074 J	<0.00003
Naphthalene	0.49	1.5	<0.00002	<0.00002	<0.00049	<0.00032	<0.00017	<0.000049	0.0018	<0.0004	<0.00002	<0.00002	<0.00002	0.0026	0.000053 J
Nitrobenzene	0.049	0.15	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	0.001	<0.00057	<0.0004	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024
N-Nitrosodiphenylamine	0.19	0.42	<0.000026	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.00036	<0.00025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025
Pentachlorophenol	0.001	0.001	<0.000081	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.00029	<0.0002	<0.00008	<0.000079	<0.000079	<0.000079	<0.000079
Phenanthrene	0.73	2.2	<0.000021	<0.000021	0.00012	0.000083 J	<0.00003	<0.000021	0.000746	<0.0002	<0.000021	<0.000021	<0.000021	0.00013	<0.000021
Phenol	7.3	22	<0.000036	<0.000035	<0.000035	<0.000035	<0.000035	<0.000035	<0.00029	<0.0002	<0.000035	<0.000035	<0.000035	<0.000035	<0.000035
Pyrene	0.73	2.2	0.00042	0.00094	0.0025	0.0015	0.00035	<0.00094	0.00062	<0.0002	0.000078 J	<0.000019	<0.000019	<0.000019	<0.000019
Metals															
Arsenic	0.01	0.01	0.0427	0.0491	0.166	0.0933	0.0217	0.0695			0.000978 J	<0.0004	0.00207	0.000498 J	0.000859 J

Notes:

1. All values in milligrams per liter (mg/L).
2. Concentrations > RAL and non-detects are highlighted light gray.
3. Concentrations > C/I AL and non-detects are highlighted dark gray
4. TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
5. RAL = Residential Assessment Level, C/I = Commercial/Industrial
6. J = Estimated value, < = not detected at the specified detection limit.
7. MW-32A was screened in the B-CZ & replaced with MW-32AR
8. Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-27C 01/28/2008	MW-27C 07/14/2008	MW-27C 02/03/2009	MW-27C 01/14/2010	MW-27C 06/30/2010	MW-27C 01/27/2011	MW-27C 07/20/2011	MW-27C 02/09/2012	MW-27C 07/25/2012	MW-27C 02/12/2013	MW-27C 08/08/2013	MW-27C 01/24/2014	MW-27C 07/25/2014
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.00245	<0.00109	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00014	<0.00014	<0.0002
Benzene	0.005	0.005	<0.00257	<0.00112	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00008	<0.0002	<0.00008
Chlorobenzene	0.1	0.1	<0.00239	<0.0015	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00012	<0.00012	<0.00018
Ethylbenzene	0.7	0.7	<0.00203	<0.00142	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0011	<0.0011	<0.0005	<0.00011	<0.00011	<0.00019
Methylene chloride	0.005	0.005	<0.00195	<0.00122	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0013	<0.0013	<0.001	<0.00015	<0.00015	<0.00022
Toluene	1	1	<0.00274	<0.00138	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00015	<0.00015	<0.00017
Vinyl chloride	0.002	0.002													<0.00011
Xylenes (total)	10	10	<0.00581	<0.00302	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0031	<0.0031	<0.0015	<0.00026	<0.00026	<0.00058
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.00008	<0.00008	<0.0001	<0.0001	<0.0001	<0.0001	<0.00005	<0.00005	<0.00005	<0.00005	<0.000105	<0.000104	<0.000105
2,4-Dimethylphenol	0.49	1.5	<0.00029	<0.00032	<0.00008	<0.00008	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005	<0.00005	<0.000295	<0.000292	<0.000297
2,4-Dinitrotoluene	0.0013	0.003	<0.00019	<0.00021	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.00005	<0.000124	<0.000123	<0.000124
2,6-Dinitrotoluene	0.0013	0.003	<0.00019	<0.00021	<0.00007	<0.00007	<0.00007	<0.00007	<0.00006	<0.00006	<0.00006	<0.00006	<0.0000762	<0.0000755	<0.0000766
2-Chloronaphthalene	2	5.8	<0.00038	<0.00042	<0.00012	<0.0001	<0.0001	<0.0001	<0.00005	<0.00005	<0.00005	<0.00005	<0.0000762	<0.0000755	<0.0000766
2-Methylnaphthalene	0.098	0.29	<0.00038	<0.00042	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.00005	<0.0000777	<0.000066	<0.000067
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00019	<0.00021	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00079	<0.000783	<0.000794
4-Nitrophenol	0.049	0.15	<0.00024	<0.00026	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.00005	<0.000533	<0.000528	<0.000536
Acenaphthene	1.5	4.4	<0.00029	<0.00032	0.00026	0.00015 J	0.00028	0.00019 J	0.00011 J	<0.00005	<0.00005	<0.00005	<0.0000762	<0.0000755	<0.0000766
Acenaphthylene	1.5	4.4	<0.00029	<0.00032	<0.00006	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.00005	<0.0000571	<0.0000566	<0.0000574
Anthracene	7.3	22	<0.00019	<0.00021	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.00005	<0.0000476	<0.0000472	0.000431 J
Benzo(a)anthracene	0.0091	0.02	<0.00019	<0.00021	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.00005	<0.0000762	<0.0000755	<0.0000766
Benzo(a)pyrene	0.0002	0.0002	<0.00019	<0.00021	<0.00008	<0.00008	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005	<0.00005	<0.0000762	<0.0000755	<0.0000766
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00038	<0.00042	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.00005	<0.000124	<0.000123	<0.000124
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	0.00039 J	0.00029 J	0.00038	<0.0016	<0.0015	0.00047	<0.00095	0.00014 J	<0.00021	0.000652	<0.000349	<0.000354	<0.000363
Chrysene	0.91	2	<0.00019	<0.00021	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.00005	<0.0000762	<0.0000755	<0.0000766
Dibenzofuran	0.098	0.29	<0.00029	<0.00032	<0.00008	<0.00008	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005	<0.00005	<0.0000762	<0.0000755	<0.0000766
Di-n-butylphthalate (DBP)	2.4	7.3	<0.00019	<0.00021	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.000055	<0.000105	0.000143 J	<0.000851
Fluoranthene	0.98	2.9	<0.00019	<0.00021	<0.00007	0.00015 J	<0.00007	<0.00007	0.00011 J	<0.00005	<0.00005	<0.00005	<0.0000667	0.000114 J	0.0000881 J
Fluorene	0.98	2.9	<0.00019	<0.00021	<0.00007	<0.00007	0.00025	<0.00007	<0.00005	<0.00005	<0.00005	<0.00005	<0.0000667	<0.000066	<0.000067
Naphthalene	0.49	1.5	<0.00038	<0.00042	0.00037	<0.00013	0.00024	0.00015 J	<0.00005	<0.00005	0.00019 J	<0.0000762	0.000353 J	<0.000953	<0.000784
Nitrobenzene	0.049	0.15	<0.00038	<0.00042	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.00005	<0.000105	<0.000104	<0.000105
N-Nitrosodiphenylamine	0.19	0.42	<0.00024	<0.00026	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.00005	<0.0000952	<0.0000943	<0.0000957
Pentachlorophenol	0.001	0.001	<0.00019	<0.00021	<0.00008	<0.00008	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005	<0.00005	<0.000581	<0.000575	<0.000584
Phenanthrene	0.73	2.2	<0.00019	<0.00021	<0.00007	0.00014 J	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.00005	<0.0000571	0.0000908 J	<0.000406
Phenol	7.3	22	<0.00019	<0.00021	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.00005	<0.0000381	<0.0000377	<0.0000383
Pyrene	0.73	2.2	<0.00019	<0.00021	<0.00007	0.0001 J	<0.00007	<0.00007	0.000064 J	<0.00005	<0.00005	<0.00005	<0.000105	<0.000104	<0.000105
Metals															
Arsenic	0.01	0.01													

Notes:

- All values in milligrams per liter (mg/L).
- Concentrations > RAL and non-detects are highlighted light gray.
- Concentrations > C/I AL and non-detects are highlighted dark gray
- TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
- RAL = Residential Assessment Level, C/I = Commercial/Industrial
- J = Estimated value, < = not detected at the specified detection limit.
- MW-32A was screened in the B-CZ & replaced with MW-32AR
- Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-27C 01/31/2018	MW-27C 03/26/2018	MW-27C 06/01/2018	MW-27C 01/22/2019	MW-27C 07/18/2019	MW-27C 01/15/2020	MW-27C 08/18/2020	MW-28A 01/29/2008	MW-28A 07/14/2008	MW-28A 02/03/2009	MW-28A 01/13/2010	MW-28A 06/30/2010	MW-28A 01/25/2011
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00052	<0.00052	<0.0005	<0.0005	<0.0005	<0.0005
Benzene	0.005	0.005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00025	<0.00025	<0.0005	<0.0005	<0.0005	<0.0005
Chlorobenzene	0.1	0.1	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00047	<0.00047	<0.0005	<0.0005	<0.0005	<0.0005
Ethylbenzene	0.7	0.7	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00025	<0.00025	<0.0005	<0.0005	<0.0005	<0.0005
Methylene chloride	0.005	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00054	<0.00054	<0.0005	<0.0005	<0.0005	<0.0005
Toluene	1	1	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00041	<0.00041	<0.0005	<0.0005	<0.0005	<0.0005
Vinyl chloride	0.002	0.002													
Xylenes (total)	10	10	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00127	<0.00127	<0.001	<0.001	<0.001	<0.001
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.00008	<0.00008	<0.0001	<0.0001	<0.0001	<0.0001
2,4-Dimethylphenol	0.49	1.5	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.0003	<0.00032	<0.00008	<0.00008	<0.00008	<0.00008
2,4-Dinitrotoluene	0.0013	0.003	<0.000058	<0.000059	<0.000058	<0.000058	<0.000058	<0.000058	<0.000059	<0.0002	<0.00021	<0.00009	<0.00009	<0.00009	<0.00009
2,6-Dinitrotoluene	0.0013	0.003	0.00052	<0.000042	0.00057	<0.000042	<0.000042	<0.000042	<0.000042	<0.0002	<0.00021	<0.00007	<0.00007	<0.00007	<0.00007
2-Chloronaphthalene	2	5.8	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.0004	<0.00042	<0.00012	<0.0001	<0.0001	<0.0001
2-Methylnaphthalene	0.098	0.29	0.00041	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.0004	<0.00042	<0.00007	<0.00007	<0.00007	0.00064
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.0002	<0.00021	<0.00008	<0.00008	<0.00008	<0.00008
4-Nitrophenol	0.049	0.15	0.00031 J	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.00025	<0.00026	<0.00007	<0.00007	<0.00007	<0.00007
Acenaphthene	1.5	4.4	0.0012	<0.000027	<0.000027	<0.000027	<0.000027	<0.000027	<0.000027	<0.0003	<0.00032	<0.00009	<0.00009	<0.00009	0.0002
Acenaphthylene	1.5	4.4	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.0003	<0.00032	<0.00006	<0.00007	<0.00007	<0.00007
Anthracene	7.3	22	0.000065 J	<0.000014	<0.000014	<0.000014	<0.000014	<0.000014	<0.000014	0.000611	<0.00021	<0.00007	<0.00007	<0.00007	0.00036
Benzo(a)anthracene	0.0091	0.02	<0.00005	<0.000051	<0.00005	<0.00005	<0.00005	<0.00005	<0.000051	<0.0002	<0.00021	0.00013 J	<0.00007	<0.00007	<0.00007
Benzo(a)pyrene	0.0002	0.0002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.0002	<0.00021	0.00011 J	<0.00008	<0.00008	<0.00008
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.0004	<0.00042	<0.00009	<0.00009	<0.00009	<0.00009
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	<0.000073	0.000057 J	0.00042	<0.000037	0.000092 J	<0.000037	<0.000037	0.0003 J	<0.00021	0.0037	<0.00022	<0.0019	<0.0002
Chrysene	0.91	2	<0.000021	<0.000021	0.000054 J	<0.000021	<0.000021	<0.000021	<0.000021	<0.0002	<0.00021	0.00013 J	<0.00007	<0.00007	<0.00007
Dibenzofuran	0.098	0.29	0.00038	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	0.00032 J	<0.00032	<0.00008	<0.00008	<0.00008	0.0005
Di-n-butylphthalate (DBP)	2.4	7.3	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.0002	<0.00021	0.00016 J	<0.00007	<0.00007	<0.00007
Fluoranthene	0.98	2.9	0.000085 J	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.0002	<0.00021	0.00012 J	<0.00007	<0.00007	0.00021
Fluorene	0.98	2.9	0.00085	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.0002	<0.00021	<0.00007	<0.00007	<0.00007	0.0003
Naphthalene	0.49	1.5	<0.00043	<0.00002	<0.00002	<0.00002	0.000066 J	0.000055 J	<0.00002	0.000699	<0.00042	0.00017 J	<0.0001	<0.0001	0.0023
Nitrobenzene	0.049	0.15	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.0004	<0.00042	<0.00009	<0.00009	<0.00009	<0.00009
N-Nitrosodiphenylamine	0.19	0.42	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.00025	<0.00026	<0.00009	<0.00009	<0.00009	<0.00009
Pentachlorophenol	0.001	0.001	<0.000079	<0.00008	<0.000079	<0.000079	<0.000079	<0.000079	<0.00008	<0.0002	<0.00021	<0.00008	<0.00008	0.00032	<0.00008
Phenanthrene	0.73	2.2	0.00027	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	0.00046 J	<0.00021	<0.00007	<0.00007	<0.00007	0.00097
Phenol	7.3	22	<0.000035	<0.000035	0.000053 J	<0.000035	0.00023	<0.000035	<0.000035	<0.0002	<0.00021	<0.00007	<0.00007	<0.00007	<0.00007
Pyrene	0.73	2.2	0.000044 J	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	0.00041 J	<0.00021	0.00016 J	<0.00007	<0.00007	0.00013 J
Metals															
Arsenic	0.01	0.01	0.00261	<0.0004	0.00212	0.000786 J	0.000428 J	0.000623 J	0.00264						

Notes:

1. All values in milligrams per liter (mg/L).
2. Concentrations > RAL and non-detects are highlighted light gray.
3. Concentrations > C/I AL and non-detects are highlighted dark gray
4. TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
5. RAL = Residential Assessment Level, C/I = Commercial/Industrial
6. J = Estimated value, < = not detected at the specified detection limit.
7. MW-32A was screened in the B-CZ & replaced with MW-32AR
8. Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-28A 07/19/2011	MW-28A 02/16/2012	MW-28A 07/17/2012	MW-28A 02/07/2013	MW-28A 08/07/2013	MW-28A 01/22/2014	MW-28A 07/25/2014	MW-28A 01/25/2018	MW-28A 03/21/2018	MW-28A 05/17/2018	MW-28A 01/14/2019	MW-28A 07/16/2019	MW-28A 01/16/2020
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.001	<0.001	<0.0005	<0.00014	<0.00014	<0.00014	<0.0002	<0.00014	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Benzene	0.005	0.005	<0.001	<0.001	<0.0005	<0.00008	<0.00008	<0.0002	<0.00008	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Chlorobenzene	0.1	0.1	<0.001	<0.001	<0.0005	<0.00012	<0.00012	<0.00018	<0.00012	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Ethylbenzene	0.7	0.7	<0.0011	<0.0011	<0.0005	<0.00011	<0.00011	<0.00019	<0.00011	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Methylene chloride	0.005	0.005	<0.0013	<0.0013	<0.001	<0.00015	<0.00015	<0.00022	<0.00015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Toluene	1	1	<0.001	<0.001	<0.0005	<0.00015	<0.00015	<0.00017	<0.00015	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Vinyl chloride	0.002	0.002							<0.00011						
Xylenes (total)	10	10	<0.0031	<0.0031	<0.0015	<0.00026	<0.00026	<0.00058	<0.00026	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.00005	<0.00005	<0.00005	<0.00105	<0.000104	<0.000105	<0.000107	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	0.000034 J
2,4-Dimethylphenol	0.49	1.5	<0.00005	<0.00005	<0.00005	<0.00295	<0.000292	<0.000295	<0.000301	<0.00004	<0.00004	0.012	<0.00004	<0.00004	<0.00004
2,4-Dinitrotoluene	0.0013	0.003	<0.00005	<0.00005	<0.00005	<0.00124	<0.000123	<0.000124	<0.000126	<0.000059	<0.000059	<0.00058	<0.000058	<0.000058	<0.000058
2,6-Dinitrotoluene	0.0013	0.003	<0.00006	<0.00006	<0.00006	<0.000762	<0.0000755	<0.0000762	<0.0000777	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042
2-Chloronaphthalene	2	5.8	<0.00005	<0.00005	<0.00005	<0.000762	<0.0000755	<0.0000762	<0.0000777	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021
2-Methylnaphthalene	0.098	0.29	<0.00005	<0.000066	0.00015 J	<0.000667	<0.000066	<0.0000667	<0.000068	<0.000019	<0.000019	0.001	<0.000055	0.0002	<0.000019
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00008	<0.00008	<0.00008	<0.000783	<0.0000783	<0.000079	<0.0000806	<0.00002	<0.00002	<0.0002	<0.00002	<0.00002	<0.00002
4-Nitrophenol	0.049	0.15	<0.00005	<0.00005	<0.00005	<0.00533	<0.000528	<0.000533	<0.000544	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047
Acenaphthene	1.5	4.4	<0.00005	0.000098	<0.00005	<0.000762	0.000368 J	<0.0000762	<0.0000777	<0.000027	<0.000027	0.00031 J	0.000092 J	0.000082 J	<0.00014
Acenaphthylene	1.5	4.4	<0.00005	<0.00005	<0.00005	<0.000571	<0.0000566	<0.0000571	<0.0000583	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015
Anthracene	7.3	22	<0.00005	<0.00005	<0.00005	<0.000476	<0.0000472	<0.0000476	<0.0000485	0.000016 J	0.000021 J	<0.00014	<0.000014	0.000036 J	<0.00013
Benzo(a)anthracene	0.0091	0.02	<0.00005	<0.00005	<0.00005	<0.000762	<0.0000755	<0.0000762	<0.0000777	<0.000051	<0.000051	<0.0005	<0.00005	0.000055 J	0.000073 J
Benzo(a)pyrene	0.0002	0.0002	<0.00005	<0.00005	<0.00005	<0.000762	<0.0000755	<0.0000762	<0.0000777	0.000045 J	<0.00002	<0.0002	<0.00002	0.000095 J	0.000057 J
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00005	<0.00005	<0.00005	<0.00124	<0.000123	<0.000124	<0.000126	<0.00003	<0.00003	<0.0003	<0.00003	<0.00003	<0.00003
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	<0.00032	<0.0001	<0.00043	<0.00352	<0.000349	<0.000352	<0.000359	0.00018 J	0.000062 J	0.00084 J	0.000061 J	<0.00023	0.00009 J
Chrysene	0.91	2	<0.00005	<0.00005	<0.00005	<0.000762	<0.0000755	<0.0000762	<0.0000777	0.000053 J	<0.000021	<0.000021	<0.000021	0.0001	0.000065 J
Dibenzofuran	0.098	0.29	<0.00005	<0.000051	<0.00005	<0.000762	<0.0000755	<0.0000762	<0.0000777	<0.00002	<0.00002	0.00031 J	<0.00011	0.000084 J	<0.0001
Di-n-butylphthalate (DBP)	2.4	7.3	<0.00005	<0.00005	<0.00005	<0.00105	<0.000104	<0.000105	<0.000107	0.00003 J	<0.00002	<0.0002	<0.00002	<0.00002	0.000032 J
Fluoranthene	0.98	2.9	<0.00005	<0.00005	<0.00005	<0.000667	<0.000066	<0.0000667	<0.000068	0.000062 J	0.000055 J	<0.0001	<0.00001	0.00012	0.0003
Fluorene	0.98	2.9	<0.00005	<0.00005	<0.00005	<0.000667	<0.000066	<0.0000667	<0.000068	<0.00003	<0.00003	<0.0003	0.000056 J	0.000053 J	<0.00014
Naphthalene	0.49	1.5	<0.00005	<0.000093	0.0013	<0.000762	<0.000173	<0.0004	<0.0000777	<0.00002	<0.00002	0.024	<0.0024	0.0013	<0.0006
Nitrobenzene	0.049	0.15	<0.00005	<0.00005	<0.00005	<0.00105	<0.000104	<0.000105	<0.000107	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024
N-Nitrosodiphenylamine	0.19	0.42	<0.00005	<0.00005	<0.00005	<0.000952	<0.0000943	<0.0000952	<0.0000971	<0.000025	<0.000025	<0.00025	<0.000025	<0.000025	<0.000025
Pentachlorophenol	0.001	0.001	<0.00005	<0.00005	<0.00005	<0.000581	<0.0000575	<0.0000581	<0.0000592	<0.00008	<0.00008	<0.000079	<0.000079	<0.000079	<0.000079
Phenanthrene	0.73	2.2	<0.00005	<0.00005	<0.00005	<0.000571	<0.0000566	<0.0000571	<0.0000583	0.000032 J	0.00003 J	0.00022 J	<0.000021	0.000049 J	0.00048
Phenol	7.3	22	<0.00005	<0.00005	<0.00005	<0.000381	<0.0000377	<0.0000381	<0.0000388	<0.000035	<0.000035	0.018	<0.000035	<0.000073	<0.000035
Pyrene	0.73	2.2	<0.00005	0.00011 J	<0.00005	<0.00105	0.000246 J	0.000105 J	<0.000107	0.000081 J	0.000079 J	<0.00019	0.000065 J	0.00016	0.00021
Metals															
Arsenic	0.01	0.01								0.0076	0.0053	0.0177	0.0116	0.0092	0.00664

Notes:

- All values in milligrams per liter (mg/L).
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- Concentrations > C/I AL and non-detects are highlighted dark gray
- TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
- RAL = Residential Assessment Level, C/I = Commercial/Industrial
- J = Estimated value, < = not detected at the specified detection limit.
- MW-32A was screened in the B-CZ & replaced with MW-32AR
- Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-28A 07/23/2020	MW-28C 01/29/2008	MW-28C 07/14/2008	MW-28C 02/03/2009	MW-28C 01/13/2010	MW-28C 06/30/2010	MW-28C 01/25/2011	MW-28C 07/19/2011	MW-28C 02/16/2012	MW-28C 07/17/2012	MW-28C 02/07/2013	MW-28C 08/07/2013	MW-28C 01/22/2014
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.0002	<0.00052	<0.00052	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00014	<0.00014	<0.0002
Benzene	0.005	0.005	<0.0002	<0.00025	<0.00025	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00008	<0.00008	<0.0002
Chlorobenzene	0.1	0.1	<0.0003	<0.00047	<0.00047	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00012	<0.00012	<0.00018
Ethylbenzene	0.7	0.7	<0.0003	<0.00025	<0.00025	<0.0005	<0.0005	<0.0005	<0.0005	<0.0011	<0.0011	<0.0005	<0.00011	<0.00011	<0.00019
Methylene chloride	0.005	0.005	<0.001	<0.00054	<0.00054	<0.0005	<0.0005	<0.0005	<0.0005	<0.0013	<0.0013	<0.001	<0.00015	<0.00015	<0.00022
Toluene	1	1	<0.0002	<0.00041	<0.00041	0.0026 J	0.0013 J	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00015	<0.00015	<0.00017
Vinyl chloride	0.002	0.002													
Xylenes (total)	10	10	<0.0003	<0.00127	<0.00127	<0.001	<0.001	<0.001	<0.001	<0.0031	<0.0031	<0.0015	<0.00026	<0.00026	<0.00058
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.000021	<0.00008	<0.00009	<0.0001	<0.0001	<0.0001	<0.0001	<0.00005	<0.00005	<0.00005	<0.000101	<0.000104	<0.00011
2,4-Dimethylphenol	0.49	1.5	<0.00004	<0.00029	0.00114 J	<0.00008	0.0002	<0.00008	0.000086 J	<0.00005	<0.00005	<0.00005	<0.000284	<0.000292	<0.00031
2,4-Dinitrotoluene	0.0013	0.003	<0.000058	<0.00019	<0.00022	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.000119	<0.000123	<0.00013
2,6-Dinitrotoluene	0.0013	0.003	<0.000042	<0.00019	<0.00022	<0.00007	<0.00007	<0.00007	<0.00007	<0.00006	<0.00006	<0.00006	<0.0000734	<0.0000755	<0.00008
2-Chloronaphthalene	2	5.8	<0.000021	<0.00038	<0.00044	<0.00012	<0.0001	<0.0001	<0.0001	<0.00005	<0.00005	<0.00005	<0.0000734	<0.0000755	<0.00008
2-Methylnaphthalene	0.098	0.29	<0.000019	<0.00038	<0.00044	0.000097 J	0.00024	0.000077 J	0.000079 J	<0.00005	<0.00005	0.00011 J	<0.0000642	<0.000066	0.0000741 J
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00002	<0.00019	<0.00022	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.000761	<0.000783	<0.00083
4-Nitrophenol	0.049	0.15	<0.000047	<0.00024	<0.00028	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.000514	<0.000528	<0.00056
Acenaphthene	1.5	4.4	0.000038 J	<0.00029	<0.00033	<0.00009	0.00018 J	0.00033	<0.00009	<0.00005	<0.00005	<0.00005	<0.0000734	<0.0000755	<0.00008
Acenaphthylene	1.5	4.4	<0.000015	<0.00029	<0.00033	<0.00006	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.000055	<0.0000566	<0.00006
Anthracene	7.3	22	<0.000014	0.00059	<0.00022	<0.00007	<0.00007	0.00014 J	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000459	<0.0000472	<0.00005
Benzo(a)anthracene	0.0091	0.02	<0.00005	<0.00019	<0.00022	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000734	<0.0000755	<0.00008
Benzo(a)pyrene	0.0002	0.0002	<0.00002	<0.00019	<0.00022	<0.00008	<0.00008	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005	<0.0000734	<0.0000755	<0.00008
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00003	<0.00038	<0.00044	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.000119	<0.000123	<0.00013
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	<0.000037	0.00049 J	<0.00022	0.0033	<0.00046	<0.0012	0.00063	<0.00053	<0.00013	<0.0001	<0.000339	<0.000349	<0.00037
Chrysene	0.91	2	<0.000021	<0.00019	<0.00022	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000734	<0.0000755	<0.00008
Dibenzofuran	0.098	0.29	<0.00002	0.00044 J	<0.00033	<0.00008	0.00018 J	<0.00008	<0.00008	0.00019 J	<0.00005	<0.00005	<0.0000734	<0.0000755	<0.00008
Di-n-butylphthalate (DBP)	2.4	7.3	<0.00002	<0.00019	<0.00022	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.000101	<0.000104	<0.00011
Fluoranthene	0.98	2.9	<0.00001	0.000497	<0.00022	<0.00007	<0.00007	0.00012 J	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000642	<0.000066	<0.00007
Fluorene	0.98	2.9	<0.00003	0.00022 J	<0.00022	<0.00007	0.00016 J	0.00033	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000642	<0.000066	<0.00007
Naphthalene	0.49	1.5	0.00015 J	0.00234	0.00196	0.00057	0.0014	0.00035	0.00029	<0.000091	<0.00031	0.00064	0.000163 J	<0.0000755	<0.000596
Nitrobenzene	0.049	0.15	<0.000024	<0.00038	<0.00044	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.000101	<0.000104	<0.00011
N-Nitrosodiphenylamine	0.19	0.42	<0.000025	<0.00024	<0.00028	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.0000917	<0.0000943	<0.0001
Pentachlorophenol	0.001	0.001	<0.000079	0.00056 J	<0.00022	<0.00008	<0.00008	0.00034	<0.00008	<0.00005	<0.00005	<0.00005	<0.00056	<0.000575	<0.00061
Phenanthrene	0.73	2.2	<0.000021	0.000624	<0.00022	0.00013 J	0.00033	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.000055	<0.0000566	0.0000739 J
Phenol	7.3	22	<0.000035	0.00865	0.00648	0.00063	0.0027	0.00075	0.0014	0.00054	<0.00005	<0.00005	<0.0000367	<0.0000377	<0.00004
Pyrene	0.73	2.2	<0.000019	0.00041 J	<0.00022	<0.00007	<0.00007	0.00007 J	<0.00007	<0.00005	<0.00005	<0.00005	<0.000101	<0.000104	<0.00011
Metals															
Arsenic	0.01	0.01	<0.0004												

Notes:

- All values in milligrams per liter (mg/L).
- Concentrations > RAL and non-detects are highlighted light gray.
- Concentrations > C/I AL and non-detects are highlighted dark gray
- TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
- RAL = Residential Assessment Level, C/I = Commercial/Industrial
- J = Estimated value, < = not detected at the specified detection limit.
- MW-32A was screened in the B-CZ & replaced with MW-32AR
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CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-28C 07/25/2014	MW-28C 01/25/2018	MW-28C 03/21/2018	MW-28C 05/17/2018	MW-28C 01/14/2019	MW-28C 07/16/2019	MW-28C 01/16/2020	MW-28C 07/28/2020	MW-29A 01/28/2008	MW-29B 01/28/2008	MW-29C 01/28/2008	MW-30A 01/30/2008	MW-30A 07/14/2011
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.00014	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00245	<0.00245	<0.00245	<0.00052	<0.01
Benzene	0.005	0.005	<0.00008	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00257	<0.00257	<0.00257	0.147	0.14
Chlorobenzene	0.1	0.1	<0.00012	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00239	<0.00239	<0.00239	<0.00047	<0.01
Ethylbenzene	0.7	0.7	<0.00011	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00203	<0.00203	<0.00203	0.153	0.12
Methylene chloride	0.005	0.005	<0.00015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00195	<0.00195	<0.00195	<0.00054	<0.013
Toluene	1	1	<0.00015	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00274	<0.00274	<0.00274	0.645	0.51
Vinyl chloride	0.002	0.002	<0.00011		<0.0002					<0.0002					
Xylenes (total)	10	10	<0.00026	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00581	<0.00581	<0.00581	0.386	0.32
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.000107	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.0002	0.00008 J	<0.00008	<0.02	<0.00005
2,4-Dimethylphenol	0.49	1.5	<0.000301	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00057	<0.0003	<0.00029	4.1	2.9
2,4-Dinitrotoluene	0.0013	0.003	<0.000126	<0.000058	<0.000059	<0.000059	<0.000058	<0.000058	<0.000058	<0.000058	<0.00038	<0.0002	<0.00019	<0.038	<0.00005
2,6-Dinitrotoluene	0.0013	0.003	<0.0000777	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.00038	0.00374	<0.00019	<0.038	<0.00006
2-Chloronaphthalene	2	5.8	<0.0000777	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.00076	<0.0004	<0.00038	<0.076	<0.00005
2-Methylnaphthalene	0.098	0.29	<0.000068	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	0.00012	<0.00076	<0.0004	<0.00038	0.573	0.85
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.000806	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00038	<0.0002	<0.00019	<0.038	<0.00008
4-Nitrophenol	0.049	0.15	<0.000544	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.00048	<0.00025	<0.00024	<0.048	<0.00005
Acenaphthene	1.5	4.4	<0.0000777	<0.000027	<0.000027	<0.000027	<0.000027	<0.000027	<0.000027	0.000074 J	<0.00057	<0.0003	<0.00029	0.215	0.31
Acenaphthylene	1.5	4.4	<0.0000583	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.00057	<0.0003	<0.00029	<0.057	0.075
Anthracene	7.3	22	<0.0000485	<0.000014	<0.000014	<0.000014	<0.000014	<0.000014	<0.000014	0.0001	<0.00038	<0.0002	<0.00019	<0.038	0.018
Benzo(a)anthracene	0.0091	0.02	<0.0000777	<0.000005	<0.0000051	<0.0000051	<0.000005	<0.000005	<0.000005	0.00013	<0.00038	<0.0002	<0.00019	<0.038	<0.00005
Benzo(a)pyrene	0.0002	0.0002	<0.0000777	<0.000002	<0.000002	<0.000002	<0.000002	<0.000002	<0.000002	<0.000002	<0.00076	<0.0002	<0.00019	<0.038	<0.00005
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.000126	<0.00003	<0.00003	0.00003 J	<0.00003	<0.00003	<0.00003	<0.00003	<0.00076	<0.0004	<0.00038	<0.076	<0.00005
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	<0.000359	0.000064 J	<0.000037	<0.000037	<0.000037	<0.00013	0.000072 J	0.00064	0.00232 J	0.00037 J	0.00042 J	<0.038	<0.0001
Chrysene	0.91	2	<0.0000777	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	0.00014	<0.00038	<0.0002	<0.00019	<0.038	<0.00005
Dibenzofuran	0.098	0.29	<0.0000777	<0.00002	<0.00002	0.00002 J	<0.00002	<0.00002	<0.00002	0.000086 J	<0.00057	<0.0003	<0.00029	0.156	0.25
Di-n-butylphthalate (DBP)	2.4	7.3	<0.000107	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	0.00025	<0.00038	<0.0002	<0.00019	<0.038	<0.00005
Fluoranthene	0.98	2.9	<0.000068	<0.00001	<0.00001	<0.00001	<0.00001	0.000015 J	<0.00001	0.00063	<0.00038	<0.0002	<0.00019	<0.038	0.0041
Fluorene	0.98	2.9	<0.000068	<0.00003	<0.00003	0.00003 J	<0.00003	<0.00003	<0.00003	0.000091 J	<0.00038	<0.0002	<0.00019	0.109	0.18
Naphthalene	0.49	1.5	<0.0000777	<0.000021	<0.00002	<0.00002	<0.00002	0.000095 J	<0.00016	0.00053	<0.00076	<0.0004	0.00047 J	9.77	15
Nitrobenzene	0.049	0.15	<0.000107	<0.000024	<0.000024	0.000024 J	<0.000024	<0.000024	<0.000024	<0.000024	<0.00076	<0.0004	<0.00038	<0.076	<0.00005
N-Nitrosodiphenylamine	0.19	0.42	<0.0000971	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.00048	<0.00025	<0.00024	<0.048	<0.00005
Pentachlorophenol	0.001	0.001	<0.000592	<0.000079	<0.00008	<0.00008	<0.000079	<0.000079	<0.000079	<0.000079	<0.00038	<0.0002	<0.00019	<0.038	0.00033 J
Phenanthrene	0.73	2.2	<0.0000583	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	0.00056	<0.00038	<0.0002	<0.00019	0.075	0.12
Phenol	7.3	22	<0.0000388	<0.000035	<0.000035	<0.000035	<0.000035	0.0025	0.000086 J	<0.000035	<0.00038	0.00287	<0.00019	0.174	0.14
Pyrene	0.73	2.2	<0.000107	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	0.00044	<0.00038	<0.0002	<0.00019	<0.038	0.0022
Metals															
Arsenic	0.01	0.01		0.00206	0.00184 J	0.00184 J	0.000447 J	0.000456 J	0.000937 J	0.00121 J					

Notes:

- All values in milligrams per liter (mg/L).
- Concentrations > RAL and non-detects are highlighted light gray.
- Concentrations > C/I AL and non-detects are highlighted dark gray
- TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
- RAL = Residential Assessment Level, C/I = Commercial/Industrial
- J = Estimated value, < = not detected at the specified detection limit.
- MW-32A was screened in the B-CZ & replaced with MW-32AR
- Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	<i>Residential Assessment Level</i>	<i>C/I PCL</i>	MW-30A 02/03/2012	MW-30A 07/12/2012	MW-30A 02/01/2013	MW-31A 01/31/2008	MW-31A 07/14/2011	MW-31A 02/03/2012	MW-31A 07/12/2012	MW-31A 02/01/2013	MW-32A ¹ DNAPL 01/28/2008	MW-32A ² DNAPL 07/14/2008	MW-32A ³ DNAPL 02/03/2009	MW-32A ⁴ DNAPL 01/14/2010	MW-32A ⁵ DNAPL 07/01/2010
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.01	<0.0025	<0.0028	<0.00052	<0.01	<0.025	<0.005	<0.0014	<0.00052	<0.00109	<0.0005	<0.0005	<0.0025
Benzene	0.005	0.005	0.13	0.14	0.117	0.178	0.14	0.14	0.11	0.135	0.884	0.884	0.69	0.34	1.5
Chlorobenzene	0.1	0.1	<0.01	<0.0025	<0.0024	<0.00047	<0.01	<0.025	<0.005	<0.0012	<0.00047	<0.0015	<0.0005	<0.0005	<0.0025
Ethylbenzene	0.7	0.7	0.11	0.13	0.119	0.166	0.19	0.17	0.18	0.171	0.373	0.365	0.34	0.076	0.45
Methylene chloride	0.005	0.005	<0.013	<0.005	0.0211	<0.00054	<0.013	<0.032	<0.01	0.00971 J	<0.00054	<0.00122	<0.0005	<0.0005	<0.0032
Toluene	1	1	0.49	0.54	0.443	0.337	0.37	0.36	0.31	0.346	0.95	0.983	0.74	0.36	1.5
Vinyl chloride	0.002	0.002													
Xylenes (total)	10	10	0.32	0.32	0.302	0.562	0.63	0.71	0.63	0.583	1.02	1.03	0.88	0.35	1.3
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.0005	<0.00005	<0.0524	<0.002	<0.00005	<0.0005	<0.00005	<0.055	<0.02	<0.008	<0.0001	<0.0001	<0.001
2,4-Dimethylphenol	0.49	1.5	3	2.7	2.94	4.74	5.3	5.1	3.4	4.45	9.57	12.6	2.2	2.1	15
2,4-Dinitrotoluene	0.0013	0.003	<0.0005	<0.00005	<0.0619	<0.0038	<0.00005	<0.0005	<0.00005	<0.065	<0.044	<0.019	<0.00009	<0.00009	<0.0009
2,6-Dinitrotoluene	0.0013	0.003	<0.0006	<0.00006	<0.0381	<0.0038	<0.00006	<0.0006	<0.00006	<0.04	<0.044	<0.019	<0.00007	<0.00007	<0.0007
2-Chloronaphthalene	2	5.8	<0.0005	<0.00005	<0.0381	<0.0076	<0.00005	<0.0005	<0.00005	<0.04	<0.089	<0.039	<0.00012	<0.0001	<0.001
2-Methylnaphthalene	0.098	0.29	0.42	0.67	1.01	0.887	1	0.65	0.83	1.17	1.13	0.989	1.2	0.3	0.48
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.0008	<0.00008	<0.395	<0.0038	<0.00008	<0.0008	<0.00008	<0.415	<0.044	<0.019	<0.00008	<0.00008	<0.0008
4-Nitrophenol	0.049	0.15	<0.0005	<0.00005	<0.267	<0.0048	<0.00005	<0.0005	<0.00005	<0.28	<0.056	<0.024	<0.00007	<0.00007	<0.0007
Acenaphthene	1.5	4.4	0.23	0.24	0.436	0.206	0.37	0.3	0.28	0.488	0.341	0.294	0.34	0.13	0.19
Acenaphthylene	1.5	4.4	0.0064	0.0074	<0.0286	<0.0057	0.0076	0.0044	0.0032	<0.03	<0.067	<0.029	0.006	0.0019	0.0079
Anthracene	7.3	22	0.13	0.18	0.0391 J	0.0145	0.032	0.026	0.026	0.056 J	<0.044	0.043	0.077	0.051	0.093
Benzo(a)anthracene	0.0091	0.02	<0.0005	<0.00005	<0.0381	<0.0038	0.0038	<0.0005	0.00023	<0.04	<0.044	<0.019	0.0096	0.0067	0.01
Benzo(a)pyrene	0.0002	0.0002	<0.0005	<0.00005	<0.0381	<0.0038	0.00089	<0.0005	<0.00005	<0.04	<0.044	<0.019	0.003	0.0023	0.0067
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.0005	<0.00005	<0.0619	<0.0076	<0.00005	<0.0005	<0.00005	<0.065	<0.089	<0.039	<0.00009	<0.00009	<0.0009
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	<0.001	<0.0001	<0.176	<0.0038	<0.0001	<0.001	<0.0001	<0.185	<0.044	<0.019	0.00042	<0.0018	<0.0041
Chrysene	0.91	2	<0.0005	<0.00005	<0.0381	<0.0038	0.0031	<0.0005	0.00017 J	<0.04	<0.044	<0.019	0.0087	0.0064	0.0099
Dibenzofuran	0.098	0.29	0.21	0.2	0.308	0.169	0.33	0.26	0.26	0.367	0.298	0.26	0.32	0.14	0.21
Di-n-butylphthalate (DBP)	2.4	7.3	<0.0005	0.0002	<0.0524	<0.0038	<0.00005	<0.0005	<0.00005	<0.055	<0.044	<0.019	<0.00007	<0.00007	<0.0007
Fluoranthene	0.98	2.9	0.0031	0.0038	<0.0333	0.006	0.031	0.0029	0.0052	<0.035	<0.044	0.026	0.098	0.07	0.09
Fluorene	0.98	2.9	0.13	0.14	0.247	0.123	0.24	0.17	0.17	0.273	0.163	0.156	0.22	0.087	0.13
Naphthalene	0.49	1.5	7.8	12	16.8 J	13.7	21	18	17	19.3 J	25	16.2	16	3.5	11
Nitrobenzene	0.049	0.15	<0.0005	<0.00005	<0.0524	<0.0076	<0.00005	<0.0005	<0.00005	<0.055	<0.089	<0.039	<0.00009	<0.00009	<0.0009
N-Nitrosodiphenylamine	0.19	0.42	<0.0005	<0.00005	<0.0476	<0.0048	<0.00005	<0.0005	<0.00005	<0.05	<0.056	<0.024	<0.00009	<0.00009	0.014
Pentachlorophenol	0.001	0.001	<0.0005	<0.00005	<0.29	0.0895	0.076 J	0.11	0.094	<0.305	<0.044	<0.019	<0.00008	<0.00008	<0.0008
Phenanthrene	0.73	2.2	0.064	0.1	0.162 J	0.0774	0.24	0.14	0.13	0.268	0.177	0.185	0.45	0.25	0.19
Phenol	7.3	22	0.015	0.02	0.0781 J	1.56	0.6	0.76	0.29	0.579	9.01	8.83	1.4	1.3	14
Pyrene	0.73	2.2	0.0021	0.0018	<0.0524	0.0084	0.018	0.0025	0.002	<0.055	<0.044	<0.019	0.062	0.043	0.047
Metals															
Arsenic	0.01	0.01													

Notes:

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- Concentrations > C/I AL and non-detects are highlighted dark gray
- TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
- RAL = Residential Assessment Level, C/I = Commercial/Industrial
- J = Estimated value, < = not detected at the specified detection limit.
- MW-32A was screened in the B-CZ & replaced with MW-32AR
- Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-32A ⁷ 01/25/2011 DNAPL	MW-32A ⁷ 07/19/2011 DNAPL	MW-32AR 02/09/2012	MW-32AR 07/16/2012	MW-32AR 02/06/2013	MW-32AR 08/07/2013	MW-32AR 01/21/2014	MW-32AR 07/24/2014	MW-32AR 01/28/2018	MW-32AR 03/27/2018	MW-32AR 05/31/2018	MW-32AR 01/23/2019	MW-32AR 07/30/2019
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.0025	0.03	<0.001	<0.0005	<0.00014	<0.00014	<0.0002	<0.00014	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Benzene	0.005	0.005	0.61	1.4	<0.001	<0.0005	0.023	0.000475 J	<0.0002	0.0404	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Chlorobenzene	0.1	0.1	<0.0025	<0.005	<0.001	<0.0005	<0.00012	<0.00012	<0.00018	<0.00012	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Ethylbenzene	0.7	0.7	0.41	0.31	<0.0011	<0.0005	0.0082	0.000296 J	<0.00019	0.0208	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Methylene chloride	0.005	0.005	<0.0025	<0.0065	<0.0013	<0.001	<0.00015	<0.00015	<0.00022	<0.00015	<0.001	<0.001	<0.001	<0.001	<0.001
Toluene	1	1	1	1.2	<0.001	<0.0005	0.00338	0.000234 J	<0.00017	0.000849 J	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Vinyl chloride	0.002	0.002						<0.00011		<0.00011					
Xylenes (total)	10	10	1.1	0.87	<0.0031	<0.0015	0.0176	0.000873 J	<0.00058	0.0336	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.001	<0.0005	<0.00005	<0.00005	<0.00529	<0.000104	<0.000104	<0.000104	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021
2,4-Dimethylphenol	0.49	1.5	2.3	31	0.0012	0.000061 J	0.0172 J	<0.000292	<0.000292	0.0722	<0.00004	<0.00004	<0.00004	0.00013 J	<0.00004
2,4-Dinitrotoluene	0.0013	0.003	<0.0009	<0.0005	<0.00005	<0.00005	<0.00625	<0.000123	<0.000123	<0.000123	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058
2,6-Dinitrotoluene	0.0013	0.003	<0.0007	<0.0006	<0.00006	<0.00006	<0.00385	<0.0000755	<0.0000755	<0.0000755	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042
2-Chloronaphthalene	2	5.8	<0.001	<0.0005	<0.00005	<0.00005	<0.00385	<0.0000755	<0.0000755	<0.0000755	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021
2-Methylnaphthalene	0.098	0.29	6.9	0.95	0.000088 J	0.00019 J	0.011 J	<0.000066	0.00021 J	0.206	0.000079 J	0.0068	<0.000019	<0.000019	<0.000019
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.0008	<0.0008	<0.00008	<0.00008	<0.00399	<0.000783	<0.000783	<0.000783	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
4-Nitrophenol	0.049	0.15	<0.0007	<0.0005	<0.00005	<0.00005	<0.0269	<0.000528	<0.000528	<0.000528	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047
Acenaphthene	1.5	4.4	3.1	0.25	0.0046	0.0029	0.0232 J	0.00625	0.0105	0.111	0.0013	0.0043	0.002	0.0001	<0.000027
Acenaphthylene	1.5	4.4	0.027	0.005	0.00032	<0.00005	<0.00288	0.000258 J	<0.000317	0.00226	0.000054 J	0.000054 J	<0.000015	<0.000015	<0.000015
Anthracene	7.3	22	0.91	0.09	0.00041	0.00026	<0.0024	0.000223 J	0.000444 J	0.00332	0.000082 J	0.00021	0.000064 J	0.00002 J	<0.000014
Benzo(a)anthracene	0.0091	0.02	0.3	0.038	0.00012 J	0.00015 J	<0.00385	<0.0000755	<0.0000755	0.000218 J	0.00006 J	<0.00005	<0.00005	<0.00005	0.000054 J
Benzo(a)pyrene	0.0002	0.0002	0.078	0.019	<0.00005	<0.00005	<0.00385	<0.0000755	<0.0000755	<0.0000755	0.000027 J	<0.00002	<0.00002	<0.00002	<0.00002
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.0009	<0.0005	<0.00005	<0.00005	<0.00625	<0.000123	<0.000123	0.000452 J	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	0.0046	<0.0013	0.00054	0.00014 J	<0.0178	<0.000349	<0.000349	0.000621	0.00011 J	<0.000037	0.00014 J	<0.000044	0.000074 J
Chrysene	0.91	2	0.28	0.033	0.000093 J	0.00023	<0.00385	<0.0000755	0.0000774 J	0.00016 J	0.000058 J	<0.000021	0.000037 J	<0.000021	<0.000021
Dibenzofuran	0.098	0.29	3.2	0.27	0.00096	0.0017	0.00936 J	0.000515	0.000664	0.05	<0.000053	0.0024	0.00007 J	<0.00002	<0.00002
Di-n-butylphthalate (DBP)	2.4	7.3	<0.0007	<0.0005	<0.00005	0.000056 J	<0.00529	<0.000104	<0.000104	<0.000104	<0.00002	<0.00002	<0.00002	0.00002 J	<0.00002
Fluoranthene	0.98	2.9	2.5	0.11	0.002	0.003	0.00508 J	0.00102	0.00124	0.00656	0.00048	0.00023	0.00031	0.000051 J	<0.00001
Fluorene	0.98	2.9	2.5	0.18	0.0017	0.0016	0.00932 J	0.00105	0.00317	0.0516	0.00012	0.00093	0.000058 J	<0.00003	<0.00003
Naphthalene	0.49	1.5	31	21	0.00044	0.0036	0.406	<0.00297	0.0087	3.83	<0.00058	0.026	0.000043 J	0.000067 J	<0.00002
Nitrobenzene	0.049	0.15	<0.0009	<0.0005	<0.00005	<0.00005	<0.00529	<0.000104	<0.000104	<0.000104	0.00035	<0.000024	<0.000024	<0.000024	<0.000024
N-Nitrosodiphenylamine	0.19	0.42	<0.0009	<0.0005	<0.00005	<0.00005	<0.00481	<0.0000943	<0.0000943	<0.0000943	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025
Pentachlorophenol	0.001	0.001	<0.0008	<0.0005	<0.00005	<0.00005	<0.0293	<0.000575	<0.000575	<0.000575	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079
Phenanthrene	0.73	2.2	8.9	0.35	0.00033	0.000055 J	0.00768 J	0.000112 J	0.000101 J	0.0111	0.00022	0.0013	<0.000021	0.000034 J	<0.000021
Phenol	7.3	22	1.2	21	0.00012 J	0.00029	<0.00192	<0.0000377	<0.0000377	<0.0000377	<0.000035	<0.000035	<0.000035	<0.000035	<0.000035
Pyrene	0.73	2.2	1.5	0.072	0.0041	0.0046	<0.00529	0.000617	0.000625	0.00474	0.00031	0.00018	0.00049	0.000036 J	0.00045
Metals															
Arsenic	0.01	0.01									0.00294	0.0228	0.0441	0.0316	0.0628

Notes:

1. All values in milligrams per liter (mg/L).
2. Concentrations > RAL and non-detects are highlighted light gray.
3. Concentrations > C/I AL and non-detects are highlighted dark gray
4. TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
5. RAL = Residential Assessment Level, C/I = Commercial/Industrial
6. J = Estimated value, < = not detected at the specified detection limit.
7. MW-32A was screened in the B-CZ & replaced with MW-32AR
8. Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-32AR 01/20/2020	MW-32AR 07/23/2020	MW-33A 01/29/2008	MW-33A 07/14/2008	MW-33A 02/03/2009	MW-33A 02/03/2009 Duplicate	MW-33A 01/13/2010	MW-33A 01/13/2010 Duplicate	MW-33A 06/29/2010	MW-33A 06/29/2010 Duplicate	MW-33A 01/24/2011	MW-33A 07/19/2011	MW-33A 07/19/2011 Duplicate
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.0002	<0.0002	<0.00052	<0.00109	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001
Benzene	0.005	0.005	<0.0002	<0.0002	<0.00025	0.0062	0.00071 J	0.00074 J	0.0025 J	0.0024 J	0.0018 J	0.0034 J	0.0056	0.009	0.0091
Chlorobenzene	0.1	0.1	<0.0003	<0.0003	<0.00047	<0.0015	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001
Ethylbenzene	0.7	0.7	<0.0003	<0.0003	<0.00025	<0.00142	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0015 J	0.0033 J
Methylene chloride	0.005	0.005	<0.001	<0.001	<0.00054	<0.00122	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0013	<0.0013
Toluene	1	1	<0.0002	<0.0002	<0.00041	<0.00138	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001
Vinyl chloride	0.002	0.002	<0.0002												
Xylenes (total)	10	10	<0.0003	<0.0003	<0.00127	<0.00302	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0016 J	<0.0031	<0.0031
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.000021	<0.000021	<0.0001	<0.00008	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00005	<0.00005
2,4-Dimethylphenol	0.49	1.5	<0.00004	<0.00004	<0.0005	<0.00029	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	0.0027	0.0034	0.0046
2,4-Dinitrotoluene	0.0013	0.003	<0.000058	<0.000058	<0.00033	<0.00019	<0.00009	<0.00009	<0.00009	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005
2,6-Dinitrotoluene	0.0013	0.003	<0.000042	<0.000042	<0.00033	<0.00019	<0.00007	<0.00007	<0.00007	<0.00007	<0.00007	<0.00007	<0.00007	<0.00006	<0.00006
2-Chloronaphthalene	2	5.8	<0.000021	<0.000021	<0.00067	<0.00038	<0.00012	<0.00012	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00005	<0.00005
2-Methylnaphthalene	0.098	0.29	<0.000028	0.000088 J	<0.00067	<0.00038	0.00066	<0.00007	0.0009 J	0.00051 J	0.00092	<0.00007	0.0067	0.022 J	0.031 J
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00002	<0.00002	<0.00033	<0.00019	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
4-Nitrophenol	0.049	0.15	<0.000047	<0.000047	<0.00042	<0.00024	<0.00007	<0.00007	<0.00007	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005
Acenaphthene	1.5	4.4	0.0014	0.00028 J	0.0133	0.0124	0.013	<0.00009	0.028	0.026	0.012	0.0072	0.014	0.037	0.042
Acenaphthylene	1.5	4.4	<0.000015	<0.000015	<0.0005	<0.00029	<0.00006	<0.00006	0.00015 J	0.00014 J	<0.00007	<0.00007	0.00014 J	0.00018 J	0.00021
Anthracene	7.3	22	<0.000014	0.00008 J	<0.00033	0.00024 J	0.0002 J	<0.00007	0.00028	0.00024	0.00021	<0.00007	0.00072	0.0013	0.0016
Benzo(a)anthracene	0.0091	0.02	<0.00005	0.000088 J	<0.00033	<0.00019	0.0002 J	<0.00007	0.00017 J	0.00017 J	0.00014 J	0.00014 J	0.00025	0.00019 J	0.00018 J
Benzo(a)pyrene	0.0002	0.0002	0.000081 J	<0.00002	<0.00067	<0.00019	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00005	<0.00005
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00003	<0.00003	<0.00067	<0.00038	<0.00009	<0.00009	<0.00009	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	0.000043 J	<0.000037	0.00137 J	<0.00019	0.00033	0.00035	<0.0003	<0.00038	<0.00035	<0.0016	0.00031	<0.00056	<0.00068
Chrysene	0.91	2	0.000042 J	0.000026 J	<0.00033	<0.00019	0.00012 J	<0.00007	0.00012 J	0.000089 J	0.00009 J	<0.00007	0.00016 J	0.0001 J	0.00005 J
Dibenzofuran	0.098	0.29	<0.00002	0.00011 J	0.00074	0.000628	0.00078	<0.00008	0.0019	0.0017	0.0014	0.00035	0.0027	0.0088 J	0.014 J
Di-n-butylphthalate (DBP)	2.4	7.3	<0.00002	<0.00002	0.00055 J	<0.00019	<0.00007	<0.00007	<0.00007	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005
Fluoranthene	0.98	2.9	<0.00029	0.00019 J	0.00141	0.00154	0.0022	<0.00007	0.0013	0.0012	0.0012	0.00095	0.003	0.0021	0.0023
Fluorene	0.98	2.9	0.000038 J	0.00011 J	0.0013	0.000939	0.00067	<0.00007	0.0015	0.0013	0.0012	0.00041	0.0027	0.0088 J	0.012 J
Naphthalene	0.49	1.5	<0.00014	0.00026 J	0.00167	0.0047	0.0028	<0.0001	0.02 J	0.009 J	0.0082	0.0013	0.095	0.31 J	0.44 J
Nitrobenzene	0.049	0.15	<0.000024	<0.000024	<0.00067	<0.00038	<0.00009	<0.00009	<0.00009	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005
N-Nitrosodiphenylamine	0.19	0.42	<0.000025	<0.000025	<0.00042	<0.00024	<0.00009	<0.00009	<0.00009	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005
Pentachlorophenol	0.001	0.001	<0.000079	<0.000079	<0.00033	<0.00019	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00005	<0.00005
Phenanthrene	0.73	2.2	<0.000032	0.00023 J	<0.00033	0.00028 J	0.00037	<0.00007	0.00032	0.00024	0.00065	<0.00007	0.0048	0.0046 J	0.0068 J
Phenol	7.3	22	<0.000035	<0.000035	<0.00033	<0.00019	<0.00007	<0.00007	<0.00007	<0.00007	<0.00007	<0.00007	<0.00007	0.00005 J	0.00091 J
Pyrene	0.73	2.2	0.00042	0.00021 J	0.0019	0.00167	0.0024	<0.00007	0.0019	0.0018	0.0016	0.0015	0.0035	0.0025	0.0026
Metals															
Arsenic	0.01	0.01	0.0077	0.104											

Notes:

1. All values in milligrams per liter (mg/L).
2. Concentrations > RAL and non-detects are highlighted light gray.
3. Concentrations > C/I AL and non-detects are highlighted dark gray
4. TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
5. RAL = Residential Assessment Level, C/I = Commercial/Industrial
6. J = Estimated value, < = not detected at the specified detection limit.
7. MW-32A was screened in the B-CZ & replaced with MW-32AR
8. Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-33A 02/15/2012	MW-33A 02/15/2012 Duplicate	MW-33A 07/17/2012	MW-33A 07/17/2012 Duplicate	MW-33A 02/12/2013	MW-33A 02/12/2013 Duplicate	MW-33A 08/07/2013	MW-33A 08/07/2013 Duplicate	MW-33A 01/23/2014	MW-33A 01/23/2014 Duplicate	MW-33A 08/28/2014	MW-33A 08/28/2014 Duplicate	MW-33A 01/30/2018
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.001	<0.005	<0.0005	<0.0005	<0.00014	<0.00014	<0.00014	<0.00014	<0.0002	<0.0002	<0.00014	<0.00014	<0.0002
Benzene	0.005	0.005	0.054	0.051	0.0023 J	0.0022 J	0.00782	0.00782	0.165	0.174	0.223	0.223	0.00236 J	0.00389 J	<0.0002
Chlorobenzene	0.1	0.1	<0.001	<0.005	<0.0005	<0.0005	<0.00012	<0.00012	0.000185 J	0.000189 J	0.000214 J	<0.00018	<0.00012	<0.00012	<0.0003
Ethylbenzene	0.7	0.7	0.075	0.061	<0.0005	<0.0005	0.0022	0.00216	0.109	0.117	0.135	0.134	0.0014 J	0.00224 J	<0.0003
Methylene chloride	0.005	0.005	<0.0013	<0.0065	<0.001	<0.001	<0.00015	<0.00015	<0.00015	<0.00015	<0.00022	<0.00022	<0.00015	<0.00015	<0.001
Toluene	1	1	0.019	0.018 J	<0.0005	<0.0005	<0.00015	<0.00015	0.00639	0.00672	0.23	0.229	<0.00015	<0.00015	<0.0002
Vinyl chloride	0.002	0.002				<0.0005			<0.00011	<0.00011					<0.0002
Xylenes (total)	10	10	0.11	0.092	<0.0015	<0.0015	0.00223 J	0.00229 J	0.172	0.186	0.188	0.19	0.000632 J	0.000872 J	<0.0003
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.00005	<0.00005	<0.00005	<0.00005	<0.000105	<0.000105	<0.00519	<0.00519	<0.104	<0.106	<0.000108	<0.000108	<0.000021
2,4-Dimethylphenol	0.49	1.5	0.029 J	0.019 J	<0.00005	<0.00005	0.00623	0.0199	0.888	0.801	1.44	1.54	0.0212 J	0.0608 J	<0.0002
2,4-Dinitrotoluene	0.0013	0.003	<0.00005	<0.00005	<0.00005	<0.00005	<0.000124	<0.000124	<0.00613	<0.00613	<0.123	<0.125	<0.000127	<0.000127	<0.000058
2,6-Dinitrotoluene	0.0013	0.003	<0.00006	<0.00006	<0.00006	<0.00006	<0.0000762	<0.0000762	<0.00377	<0.00377	<0.0755	<0.0769	<0.0000784	<0.0000784	<0.000042
2-Chloronaphthalene	2	5.8	<0.00005	<0.00005	<0.00005	<0.00005	<0.0000762	<0.0000762	<0.00377	<0.00377	<0.0755	<0.0769	<0.0000784	<0.0000784	<0.000021
2-Methylnaphthalene	0.098	0.29	0.03	0.024	0.0015	0.0011	0.00345	0.0149	0.195	0.16	0.263 J	0.27 J	0.0216 J	0.0524 J	<0.000019
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00008	<0.00008	<0.00008	<0.00008	<0.00079	<0.00079	<0.0392	<0.0392	<0.783	<0.798	<0.000814	<0.000814	<0.00002
4-Nitrophenol	0.049	0.15	<0.00005	<0.00005	<0.00005	<0.00005	<0.000533	<0.000533	<0.0264	<0.0264	<0.528	<0.538	<0.000549	<0.000549	<0.000047
Acenaphthene	1.5	4.4	0.048	0.064	0.019	0.023	0.0279	0.0374 J	0.157	0.151	0.288 J	0.217 J	0.046 J	0.0692 J	0.0005
Acenaphthylene	1.5	4.4	0.0003	0.0004	<0.00005	<0.00005	<0.0000571	0.000358 J	<0.00283	<0.00283	<0.0566	<0.0577	0.00041 J	0.000636 J	0.000022 J
Anthracene	7.3	22	0.00082	0.00078	0.0026 J	0.0015 J	0.000748	0.000801	0.0049 J	0.00487 J	<0.0472	<0.0481	0.00132 J	0.00184 J	<0.000014
Benzo(a)anthracene	0.0091	0.02	0.0001 J	0.00011 J	0.00043 J	0.00026 J	0.000174 J	0.000211 J	<0.00377	<0.00377	<0.0755	<0.0769	0.000288 J	0.000318 J	0.000077 J
Benzo(a)pyrene	0.0002	0.0002	<0.00005	<0.00005	0.00011 J	0.000054 J	<0.0000762	<0.0000762	<0.00377	<0.00377	<0.0755	<0.0769	<0.0000784	<0.0000784	<0.00002
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00005	<0.00005	<0.00005	<0.00005	<0.000124	<0.000124	<0.00613	<0.00613	<0.123	<0.125	<0.000127	0.000476 J	<0.00003
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	0.0013 J	0.00084 J	0.00014 J	0.00022	<0.000352	<0.000352	<0.0175	<0.0175	<0.349	<0.356	0.000363 J	0.000363 J	<0.000037
Chrysene	0.91	2	0.000061 J	<0.00005	0.00033 J	0.00016 J	0.000114 J	0.000106 J	<0.00377	<0.00377	<0.0755	<0.0769	0.000168 J	0.000178 J	<0.000021
Dibenzofuran	0.098	0.29	0.019 J	0.026 J	0.0049	0.0061	0.00262	0.00699	0.0728	0.0717	0.148 J	0.108 J	0.0164 J	0.0334 J	0.000042 J
Di-n-butylphthalate (DBP)	2.4	7.3	<0.00005	<0.00005	<0.00005	<0.00005	<0.000105	<0.000105	<0.00519	<0.00519	<0.104	<0.106	<0.000108	<0.000108	<0.00002
Fluoranthene	0.98	2.9	0.0012	0.0011	0.0036 J	0.0026 J	0.00212	0.0025	0.00385 J	0.00435 J	0.0703 J	<0.0673	0.00395	0.00426	0.0006
Fluorene	0.98	2.9	0.015	0.019	0.0056	0.0073	0.00641	0.00994	0.0668	0.0623	0.145 J	0.0939 J	0.0146 J	0.0224 J	<0.00003
Naphthalene	0.49	1.5	0.96 J	1.6 J	0.017	0.021	0.112	0.382 J	4.98	4.07	5.82	5.3	0.489 J	1.02 J	<0.00033
Nitrobenzene	0.049	0.15	<0.00005	<0.00005	<0.00005	<0.00005	<0.000105	<0.000105	<0.00519	<0.00519	<0.104	<0.106	0.000108 J	0.000936 J	<0.000024
N-Nitrosodiphenylamine	0.19	0.42	<0.00005	<0.00005	<0.00005	<0.00005	<0.0000952	<0.0000952	<0.00472	<0.00472	<0.0943	<0.0962	<0.000098	<0.000098	<0.000025
Pentachlorophenol	0.001	0.001	<0.00005	<0.00005	<0.00005	<0.00005	<0.000581	<0.000581	<0.0288	<0.0288	<0.575	<0.587	<0.000598	<0.000598	<0.000079
Phenanthrene	0.73	2.2	0.0038	0.0032	0.0058 J	0.0026 J	0.000488	0.000987	0.0232 J	0.0236	0.18 J	0.135 J	0.00427 J	0.00736 J	<0.000021
Phenol	7.3	22	<0.00005	<0.00005	<0.00005	<0.00005	<0.0000381	<0.0000381	<0.00189	<0.00189	0.203 J	0.108 J	<0.0000392	<0.0000392	<0.0002
Pyrene	0.73	2.2	0.0021	0.0022	0.0035	0.0032	0.00283	0.00336	<0.00519	<0.00519	<0.104	<0.106	0.0043	0.00471	0.00028
Metals															
Arsenic	0.01	0.01													0.0197

Notes:

- All values in milligrams per liter (mg/L).
- Concentrations > RAL and non-detects are highlighted light gray.
- Concentrations > C/I AL and non-detects are highlighted dark gray
- TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
- RAL = Residential Assessment Level, C/I = Commercial/Industrial
- J = Estimated value, < = not detected at the specified detection limit.
- MW-32A was screened in the B-CZ & replaced with MW-32AR
- Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-33A 01/30/2018	MW-33A 03/27/2018	MW-33A 03/27/2018 Duplicate	MW-33A 06/05/2018	MW-33A 06/05/2018 Duplicate	MW-33A 01/22/2019	MW-33A 01/22/2019 Duplicate	MW-33A 07/17/2019	MW-33A 07/17/2019 Duplicate	MW-33A 01/20/2020	MW-33A 01/20/2020 Duplicate	MW-33A 07/28/2020	MW-33A 07/28/2020 Duplicate
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Benzene	0.005	0.005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Chlorobenzene	0.1	0.1	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Ethylbenzene	0.7	0.7	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Methylene chloride	0.005	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Toluene	1	1	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Vinyl chloride	0.002	0.002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Xylenes (total)	10	10	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021
2,4-Dimethylphenol	0.49	1.5	<0.00021	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004
2,4-Dinitrotoluene	0.0013	0.003	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058
2,6-Dinitrotoluene	0.0013	0.003	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042
2-Chloronaphthalene	2	5.8	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021
2-Methylnaphthalene	0.098	0.29	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000063	<0.000095
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
4-Nitrophenol	0.049	0.15	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047
Acenaphthene	1.5	4.4	0.00016	<0.000027	<0.000027	0.00018 J	0.00097 J	<0.000027	<0.000027	0.00098 J	<0.000027	0.00073 J	0.0011 J		
Acenaphthylene	1.5	4.4	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	0.000049 J	0.000038 J
Anthracene	7.3	22	<0.000014	<0.000014	<0.000014	0.000021 J	<0.000014	<0.000014	<0.000014	<0.000014	<0.000014	<0.000014	<0.000014	0.000057 J	0.000044 J
Benzo(a)anthracene	0.0091	0.02	<0.00005	<0.00005	<0.00005	0.000077 J	0.000091 J	<0.00005	0.000062 J	<0.00005	<0.00005	0.00012	0.00012		
Benzo(a)pyrene	0.0002	0.0002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	0.000066 J	0.000072 J		
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	<0.000044	<0.000037	<0.000037	0.000078 J	0.00014 J	<0.000037	<0.000037	<0.000022	<0.000084	<0.000037	<0.000037		
Chrysene	0.91	2	<0.000021	0.000047 J	<0.000021	0.00005 J	0.000061 J	0.000025 J	0.000034 J	<0.000021	<0.000021	0.000078 J	0.000093 J		
Dibenzofuran	0.098	0.29	<0.00002	<0.00002	0.000036 J	0.00002 J	0.000038 J	<0.00002	<0.00002	<0.00002	<0.00002	0.000096 J	0.000067 J		
Di-n-butylphthalate (DBP)	2.4	7.3	<0.00002	<0.00002	<0.00002	0.000039 J	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
Fluoranthene	0.98	2.9	0.00034	0.00052	0.00052	0.00045 J	0.0006 J	0.00033	0.00044	0.00016	0.00017	0.00035 J	0.00057 J		
Fluorene	0.98	2.9	<0.00003	<0.00003	<0.00003	0.000059 J	0.00017	<0.00003	<0.00003	<0.00003	<0.00003	0.000059 J	0.000072 J		
Naphthalene	0.49	1.5	<0.00035	<0.00002	0.00013	<0.00019	<0.00002	<0.00002	<0.00002	<0.000076	<0.000096	<0.0005	<0.00066		
Nitrobenzene	0.049	0.15	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024
N-Nitrosodiphenylamine	0.19	0.42	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025
Pentachlorophenol	0.001	0.001	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079
Phenanthrene	0.73	2.2	<0.000021	<0.000021	<0.000021	0.000085 J	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000056	<0.000046	
Phenol	7.3	22	<0.00025	<0.000035	<0.000035	<0.000035	<0.000035	<0.000035	<0.000035	0.00011 J	0.000053 J	<0.000035	<0.000035		
Pyrene	0.73	2.2	0.000041 J	0.00057	0.00062	0.00073	0.001	0.00015	0.00034	0.00028	0.00069	<0.00019	0.00052 J		
Metals															
Arsenic	0.01	0.01	0.0202	0.0186	0.0201	0.00573	0.00584	0.01	0.00995	0.0155	0.0147	0.0081	0.00755	0.00119 J	0.00125 J

Notes:

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- Concentrations > C/I AL and non-detects are highlighted dark gray
- TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
- RAL = Residential Assessment Level, C/I = Commercial/Industrial
- J = Estimated value, < = not detected at the specified detection limit.
- MW-32A was screened in the B-CZ & replaced with MW-32AR
- Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-33A 08/18/2020	MW-33A 08/18/2020 Duplicate	MW-34C 01/29/2008 DNAPL	MW-34C 02/08/2012	MW-34CR 07/29/2014	MW-34CR 01/29/2018	MW-34CR 03/27/2018	MW-34CR 06/05/2018	MW-34CR 01/15/2019	MW-34CR 07/28/2020	MW-34CR 08/18/2020	MW-35A 01/29/2008	MW-35A 07/14/2008
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005			<0.00052	0.001 J	<0.00014	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00052	<0.00052
Benzene	0.005	0.005			0.0287	0.0014 J	0.000154 J	<0.0002	<0.0002	<0.0002	<0.0002	0.0013		<0.00025	<0.00025
Chlorobenzene	0.1	0.1			<0.00047	0.001 J	<0.00012	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003		<0.00047	<0.00047
Ethylbenzene	0.7	0.7			0.0903	0.0039 J	<0.00011	<0.0003	<0.0003	<0.0003	<0.0003	0.00098 J		<0.00025	<0.00025
Methylene chloride	0.005	0.005			<0.00054	0.0013 J	<0.00015	<0.001	<0.001	<0.001	<0.001	<0.001		<0.00054	<0.00054
Toluene	1	1			0.0832	0.0041 J	<0.00015	<0.0002	<0.0002	<0.0002	<0.0002	0.00086 J		<0.00041	<0.00041
Vinyl chloride	0.002	0.002													
Xylenes (total)	10	10			0.25	0.0077 J	<0.00026	<0.0003	<0.0003	<0.0003	<0.0003	0.0007 J		<0.00127	<0.00127
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.000021	<0.000022	<0.002	0.00005 J	<0.000108	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.00008	0.00012 J
2,4-Dimethylphenol	0.49	1.5	<0.00004	<0.000041	<0.0059	0.00022 J	<0.000304	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.000041	<0.0003	<0.00028
2,4-Dinitrotoluene	0.0013	0.003	<0.000058	<0.00006	<0.004	0.00005 J	<0.000127	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000059	<0.0002	<0.00019
2,6-Dinitrotoluene	0.0013	0.003	<0.000042	<0.000043	<0.004	0.00006 J	<0.0000784	0.0001 J	<0.000042	<0.000042	<0.000042	<0.000042	<0.000043	<0.0002	<0.00019
2-Chloronaphthalene	2	5.8	<0.000021	<0.000022	<0.0079	0.00005 J	<0.0000784	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.0004	<0.00038
2-Methylnaphthalene	0.098	0.29	<0.000019	<0.00002	0.437	0.00011 J	0.000255 J	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.0004	<0.00038
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00002	<0.000021	<0.004	0.00008 J	<0.0000814	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.0002	<0.00019
4-Nitrophenol	0.049	0.15	<0.000047	<0.000048	<0.005	0.00005 J	<0.000549	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000048	<0.00025	<0.00024
Acenaphthene	1.5	4.4	<0.000027	<0.000028	0.365	0.00005 J	<0.0000784	<0.000027	<0.000027	<0.000027	0.000029 J	<0.000028	0.0176	0.00656	
Acenaphthylene	1.5	4.4	<0.000015	<0.000015	<0.0059	0.00005 J	<0.0000588	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.0003	<0.00028
Anthracene	7.3	22	<0.000014	<0.000014	0.0712	0.00005 J	<0.000049	<0.000014	<0.000014	<0.000014	<0.000014	<0.000014	<0.000014	0.000542	0.00023 J
Benzo(a)anthracene	0.0091	0.02	0.00011	0.00014	0.017	0.00005 J	<0.0000784	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000051	<0.0002	<0.00019
Benzo(a)pyrene	0.0002	0.0002	<0.00002	<0.000021	0.0065	0.00005 J	<0.0000784	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.0002	<0.00019
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00003	<0.000031	<0.0079	0.00005 J	<0.000127	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.000031	<0.0004	<0.00038
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	<0.000037	<0.000038	0.0076	0.00053 J	<0.000799	<0.000037	<0.000037	0.000081 J	<0.000037	<0.000037	<0.000038	0.00453	<0.00019
Chrysene	0.91	2	<0.000021	<0.000022	0.0128	0.00005 J	<0.0000784	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.0002	<0.00019
Dibenzofuran	0.098	0.29	<0.00002	<0.000021	0.412	0.000071 J	<0.0000784	<0.00002	<0.00002	<0.00002	<0.000027 J	<0.00002	<0.00002	0.00819	0.00319
Di-n-butylphthalate (DBP)	2.4	7.3	<0.00002	<0.000021	<0.004	0.00005 J	<0.000108	<0.00002	<0.00002	<0.00002	0.000021 J		0.00027	0.00046 J	<0.00019
Fluoranthene	0.98	2.9	0.00067	0.00097	0.14	0.00017 J	<0.0000686	<0.00001	<0.00001	<0.00001	0.000014 J		<0.00001	0.0014	0.00105
Fluorene	0.98	2.9	<0.00003	<0.000031	0.228	0.00011 J	<0.0000686	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.000031	0.00328	0.00161
Naphthalene	0.49	1.5	<0.00002	<0.000021	5.87	0.00043 J	0.00282	<0.00017	<0.00002	<0.00023	<0.00069		<0.00002	0.0257	0.000704
Nitrobenzene	0.049	0.15	<0.000024	<0.000025	<0.0079	0.00005 J	<0.000108	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.0004	<0.00038
N-Nitrosodiphenylamine	0.19	0.42	<0.000025	<0.000026	<0.005	0.00005 J	<0.000098	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000026	<0.00025	<0.00024
Pentachlorophenol	0.001	0.001	<0.000079	<0.000081	<0.004	0.00005 J	<0.000598	0.00013 J	<0.000079	<0.000079	<0.000079	<0.000079	<0.000081	<0.0002	<0.00019
Phenanthrene	0.73	2.2	<0.000021	<0.000022	0.431	0.0001 J	<0.0000588	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	0.00046 J	<0.00019
Phenol	7.3	22	<0.000035	<0.000036	<0.004	0.000072 J	<0.0000392	<0.000035	<0.000035	<0.000035	<0.000035	<0.000035	<0.000036	<0.0002	<0.00019
Pyrene	0.73	2.2	0.0011	0.0015	0.0853	0.00021 J	<0.000108	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	0.000967	0.000547
Metals															
Arsenic	0.01	0.01						0.00106 J	0.000801 J	0.000689 J	0.00132 J	<0.0004			

Notes:

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- Concentrations > C/I AL and non-detects are highlighted dark gray
- TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
- RAL = Residential Assessment Level, C/I = Commercial/Industrial
- J = Estimated value, < = not detected at the specified detection limit.
- MW-32A was screened in the B-CZ & replaced with MW-32AR
- Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
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CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-35A 02/03/2009	MW-35A 01/14/2010	MW-35A 06/30/2010	MW-35A 01/27/2011	MW-35A 07/20/2011	MW-35A 02/15/2012	MW-35A 07/18/2012	MW-35A 02/07/2013	MW-35A 08/08/2013	MW-35A 01/24/2014	MW-35A 07/24/2014	MW-35A 01/25/2018	MW-35A 03/22/2018
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00014	<0.00014	<0.0002	<0.00014	<0.0002	<0.0002
Benzene	0.005	0.005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00008	<0.00008	0.000367 J	0.00021 J	<0.0002	<0.0002
Chlorobenzene	0.1	0.1	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00012	<0.00012	<0.00018	0.00015 J	<0.0003	0.00042 J
Ethylbenzene	0.7	0.7	<0.0005	0.0015 J	<0.0005	<0.0005	<0.0011	<0.0011	0.0015 J	<0.00011	<0.00011	<0.00019	0.000473 J	<0.0003	<0.0003
Methylene chloride	0.005	0.005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0013	<0.0013	<0.001	<0.00015	<0.00015	<0.00022	<0.00015	<0.001	<0.001
Toluene	1	1	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00015	<0.00015	<0.00017	<0.00015	<0.0002	<0.0002
Vinyl chloride	0.002	0.002									<0.00011		<0.00011		
Xylenes (total)	10	10	<0.001	<0.001	<0.001	<0.001	<0.0031	<0.0031	<0.0015	<0.00026	0.000309 J	<0.00058	<0.00026	<0.0003	<0.0003
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.0001	<0.0001	0.0003	<0.0001	<0.00005	<0.00005	<0.00005	<0.000105	<0.000108	<0.000104	<0.000106	<0.000021	<0.000021
2,4-Dimethylphenol	0.49	1.5	<0.00008	<0.00008	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005	<0.000295	<0.000304	<0.000292	<0.000298	<0.00004	<0.00004
2,4-Dinitrotoluene	0.0013	0.003	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.000124	<0.000127	<0.000123	<0.000125	<0.000058	<0.000058
2,6-Dinitrotoluene	0.0013	0.003	<0.00007	<0.00007	<0.00007	<0.00007	<0.00006	<0.00006	<0.00006	<0.0000762	<0.0000784	<0.0000755	<0.0000769	<0.000042	<0.000042
2-Chloronaphthalene	2	5.8	<0.00012	<0.0001	<0.0001	<0.0001	<0.00005	<0.00005	<0.00005	<0.0000762	<0.0000784	<0.0000755	<0.0000769	<0.000021	<0.000021
2-Methylnaphthalene	0.098	0.29	<0.00007	0.00061	<0.00007	<0.00007	<0.00005	<0.00005	0.0063	0.000239 J	<0.0000686	0.00035 J	0.000151 J	0.0019	0.000092 J
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00079	<0.000814	<0.000798	<0.000798	<0.00002	<0.00002
4-Nitrophenol	0.049	0.15	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.000533	<0.000549	<0.000528	<0.000538	<0.000047	<0.000047
Acenaphthene	1.5	4.4	0.0035	0.017	0.0077	0.0069	0.0091	0.0041	0.0072	0.0196	0.0181 J	0.0551	0.0294	0.0076	0.0064
Acenaphthylene	1.5	4.4	<0.00006	0.00011 J	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000571	<0.0000588	0.000754	<0.0000577	<0.000015	0.000088 J
Anthracene	7.3	22	<0.00007	0.00043	0.00035	<0.00007	<0.00005	<0.00005	0.0013	0.000389 J	<0.000049	0.00111	0.000601	0.00038	0.00028
Benzo(a)anthracene	0.0091	0.02	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	0.0003	<0.0000762	<0.0000784	<0.0000755	<0.0000769	0.000054 J	<0.00005
Benzo(a)pyrene	0.0002	0.0002	<0.00008	<0.00008	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005	<0.0000762	<0.0000784	<0.0000755	<0.0000769	<0.00002	<0.00002
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.000124	<0.000127	<0.000125	<0.000125	<0.00003	<0.00003
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	0.00024	<0.00045	<0.00048	0.0004	<0.00099	<0.00013	0.00014 J	<0.000352	<0.000363	<0.000349	<0.000356	0.00011 J	<0.000037
Chrysene	0.91	2	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	0.00027	<0.0000762	<0.0000784	<0.0000755	<0.0000769	0.00005 J	<0.000021
Dibenzofuran	0.098	0.29	0.0014	0.005	0.0026	0.00011 J	0.00013 J	0.00008 J	0.0043	0.000429 J	0.000141 J	0.00177	0.00115	0.0047	0.0011
Di-n-butylphthalate (DBP)	2.4	7.3	<0.00007	0.000092 J	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.000105	<0.000108	<0.000838	<0.000106	<0.00002	<0.00002
Fluoranthene	0.98	2.9	0.00034	0.0011	0.00048	0.00021	0.00053	0.00007 J	0.0027	0.000109 J	0.000365 J	0.000484	0.000782	0.00065	0.00039
Fluorene	0.98	2.9	0.00062	0.0028	0.0014	0.000095 J	0.00012 J	<0.00005	0.0029	<0.0000667	0.002 J	0.0149	0.0071	0.0024	0.00061
Naphthalene	0.49	1.5	<0.0001	0.19	0.0017	0.00028	<0.00005	0.00027	0.05	0.00286 J	0.000557 J	0.00968	0.00293	0.13	0.013
Nitrobenzene	0.049	0.15	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.000105	<0.000108	<0.000104	<0.000106	<0.000024	<0.000024
N-Nitrosodiphenylamine	0.19	0.42	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.0000952	<0.000098	<0.0000943	<0.0000962	<0.000025	<0.000025
Pentachlorophenol	0.001	0.001	<0.00008	<0.00008	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005	<0.000581	<0.000598	<0.000575	<0.000587	<0.000079	<0.000079
Phenanthrene	0.73	2.2	<0.00007	0.00039	<0.00007	<0.00007	<0.00005	<0.00005	0.0068	0.000104 J	<0.0000588	<0.0000848	0.000449 J	0.0016	0.00028
Phenol	7.3	22	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000381	<0.0000392	<0.0000377	<0.0000385	<0.000035	<0.000035
Pyrene	0.73	2.2	0.00025	0.00092	0.00031	<0.00007	0.00029	<0.00005	0.0016	0.000305 J	0.000252 J	0.000376 J	0.000548	0.00055	0.00026
Metals															
Arsenic	0.01	0.01												0.0166	0.0714

Notes:

- All values in milligrams per liter (mg/L).
- Concentrations > RAL and non-detects are highlighted light gray.
- Concentrations > C/I AL and non-detects are highlighted dark gray
- TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
- RAL = Residential Assessment Level, C/I = Commercial/Industrial
- J = Estimated value, < = not detected at the specified detection limit.
- MW-32A was screened in the B-CZ & replaced with MW-32AR
- Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-35A 06/05/2018	MW-35A 01/15/2019	MW-35A 07/18/2019	MW-35A 01/10/2020	MW-35A 07/22/2020	MW-35B 01/29/2008	MW-35B 07/14/2008	MW-35B 02/03/2009	MW-35B 01/14/2010	MW-35B 07/01/2010	MW-35B 01/27/2011	MW-35B 07/20/2011	MW-35B 02/15/2012
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00052	<0.00109	<0.005	<0.005	<0.0005	<0.0005	<0.005	<0.001
Benzene	0.005	0.005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0648	0.0281	0.062	0.064	0.068	0.064	0.056	0.077
Chlorobenzene	0.1	0.1	<0.0003	<0.0003	<0.0003	<0.0003	0.00058 J	<0.00047	<0.0015	<0.005	<0.005	<0.0005	<0.0005	<0.005	<0.001
Ethylbenzene	0.7	0.7	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.176	0.113	0.2	0.2	0.21	0.22	0.17	0.19
Methylene chloride	0.005	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00054	<0.00122	<0.005	<0.005	<0.0005	<0.0005	<0.0065	<0.0013
Toluene	1	1	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.00494 J	0.00249 J	0.0057 J	<0.005	0.005	0.0045 J	<0.005	0.0042 J
Vinyl chloride	0.002	0.002				<0.0002									
Xylenes (total)	10	10	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.135	0.0787	0.15	0.15 J	0.17	0.16	0.12	0.13
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.00008	<0.00008	<0.0001	<0.0001	0.0012	<0.0001	<0.00005	<0.00005
2,4-Dimethylphenol	0.49	1.5	<0.00004	0.0021	<0.00004	<0.00004	<0.00004	<0.00029	<0.0003	<0.00008	<0.00008	<0.00008	<0.00008	<0.00005	<0.00005
2,4-Dinitrotoluene	0.0013	0.003	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.00019	<0.0002	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005
2,6-Dinitrotoluene	0.0013	0.003	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.00019	<0.0002	<0.00007	<0.00007	<0.00007	<0.00007	<0.00006	<0.00006
2-Chloronaphthalene	2	5.8	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.00038	<0.0004	<0.00012	<0.0001	<0.0001	<0.0001	<0.00005	<0.00005
2-Methylnaphthalene	0.098	0.29	0.00032	0.016	0.00012	<0.000019	0.000092 J	0.464	0.0561	0.4	0.47	0.36	0.41	0.48	0.18
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00019	<0.0002	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
4-Nitrophenol	0.049	0.15	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.00024	<0.00025	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005
Acenaphthene	1.5	4.4	0.006	0.0039	0.0028	<0.000027	0.0031	0.217	0.116	0.17	0.22	0.2	0.19	0.2	0.08
Acenaphthylene	1.5	4.4	0.000066 J	0.000068 J	0.000071 J	<0.000015	<0.000015	<0.00029	<0.0003	0.00088	0.0013	0.0011	0.0012	0.00097	0.00063 J
Anthracene	7.3	22	0.00022	0.00044	0.00011	<0.000014	0.000099 J	0.0129	0.00842	0.0056	0.008	0.015	0.014	0.016	0.0048 J
Benzo(a)anthracene	0.0091	0.02	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	0.00044 J	0.0003 J	0.00017 J	0.00032	0.00022	0.00031	0.00021	0.00011 J
Benzo(a)pyrene	0.0002	0.0002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00019	<0.0002	<0.00008	0.00014 J	0.00012 J	0.00014 J	0.000069 J	<0.00005
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00038	<0.0004	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	0.00018 J	<0.000037	0.000057 J	0.000061 J	0.00014 J	0.0198	<0.0002	0.00052	<0.00029	<0.00097	0.00041	<0.00056	<0.00088
Chrysene	0.91	2	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	0.00033 J	0.00022 J	0.00015 J	0.00028	0.00017 J	0.00037	0.00025	0.0001 J
Dibenzofuran	0.098	0.29	0.00072	0.0041	0.00039	<0.00002	0.00072	0.198	0.104	0.16	0.23	0.22	0.2	0.21	0.097
Di-n-butylphthalate (DBP)	2.4	7.3	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00019	<0.0002	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005
Fluoranthene	0.98	2.9	0.00024	0.00015	0.00015	<0.00001	0.00028	0.00698	0.00624	0.0031	0.0053	0.006	0.0065	0.0056	0.0026 J
Fluorene	0.98	2.9	0.00086	0.0022	0.00036	0.000065 J	0.0006	0.0912	0.0685	0.063	0.092	0.11	0.09	0.097	0.048
Naphthalene	0.49	1.5	0.0075	0.22	0.00083	<0.0002	0.0012	9.3	0.365	12	14	11	4.8	12	7.4
Nitrobenzene	0.049	0.15	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.00038	<0.0004	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005
N-Nitrosodiphenylamine	0.19	0.42	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.00024	<0.00025	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005
Pentachlorophenol	0.001	0.001	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.00019	<0.0002	<0.00008	<0.00008	<0.00008	<0.00008	<0.00005	<0.00005
Phenanthrene	0.73	2.2	<0.000021	0.0025	0.000042 J	<0.000021	<0.000021	0.1	0.0782	0.061	0.086	0.12	0.078	0.12	0.052
Phenol	7.3	22	<0.000035	<0.000035	<0.000035	<0.000035	<0.000035	<0.00019	0.00059	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005
Pyrene	0.73	2.2	0.00027	0.00007 J	0.000096 J	<0.000019	0.00024	0.00411	0.0026	0.0017	0.0027	0.0025	0.0032	0.0027	0.0016 J
Metals															
Arsenic	0.01	0.01	0.0189	0.0198	0.0548	0.0219	0.0302								

Notes:

- All values in milligrams per liter (mg/L).
- Concentrations > RAL and non-detects are highlighted light gray.
- Concentrations > C/I AL and non-detects are highlighted dark gray
- TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
- RAL = Residential Assessment Level, C/I = Commercial/Industrial
- J = Estimated value, < = not detected at the specified detection limit.
- MW-32A was screened in the B-CZ & replaced with MW-32AR
- Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-35B 07/18/2012	MW-35B 02/07/2013	MW-35B 08/08/2013	MW-35B 01/24/2014	MW-35B 07/24/2014	MW-35B 01/25/2018	MW-35B 03/22/2018	MW-35B 06/05/2018	MW-35B 01/15/2019	MW-35B 07/18/2019	MW-35B 01/10/2020	MW-35B 01/10/2020 Duplicate	MW-35B 07/22/2020
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.005	<0.0007	<0.0028	<0.0002	<0.00014	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Benzene	0.005	0.005	0.064	0.0662	0.0855	0.0664	0.0539	0.078	0.088	0.044	0.0033	0.0045	0.025 J	0.016 J	0.045
Chlorobenzene	0.1	0.1	<0.005	<0.0006	<0.0024	0.000241 J	0.000228 J	0.0009 J	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Ethylbenzene	0.7	0.7	0.19	0.225	0.258	0.187	0.176	0.15	0.15	0.12	0.0094	0.014	0.096	0.083	0.056
Methylene chloride	0.005	0.005	0.02 J	<0.00075	0.0234	<0.00022	<0.00015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Toluene	1	1	<0.005	0.00437 J	0.00584 J	0.00429	0.00377	0.0057	0.0041	0.0031	<0.0002	0.00054 J	<0.0002	<0.0002	0.0025
Vinyl chloride	0.002	0.002			<0.0022		<0.00011						<0.0002	<0.0002	
Xylenes (total)	10	10	0.13 J	0.153	0.174	0.132	0.114	0.064	0.066	0.056	0.004	0.0062	0.058 J	0.041 J	0.042
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.00005	<0.105	<0.00539	<0.106	<0.00107	<0.00021	<0.00021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021
2,4-Dimethylphenol	0.49	1.5	<0.00005	<0.295	<0.0152	<0.298	<0.00301	<0.0004	<0.0004	<0.00004	<0.00004	<0.00004	<0.00004	0.00021	<0.00004
2,4-Dinitrotoluene	0.0013	0.003	<0.00005	<0.124	<0.00637	<0.125	<0.00126	<0.00059	<0.00058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058
2,6-Dinitrotoluene	0.0013	0.003	<0.00006	<0.0762	<0.00392	<0.0769	<0.000777	<0.00042	<0.00042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042
2-Chloronaphthalene	2	5.8	<0.00005	<0.0762	<0.00392	<0.0769	<0.000777	<0.00021	<0.00021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021
2-Methylnaphthalene	0.098	0.29	0.26	0.295 J	0.431	0.534	0.376	0.13	0.22	0.25	0.011	0.041	0.14 J	0.062 J	0.068
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00008	<0.79	<0.0407	<0.798	<0.00806	<0.0002	0.00078 J	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
4-Nitrophenol	0.049	0.15	<0.00005	<0.533	<0.0275	<0.538	<0.00544	<0.00047	<0.00047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047
Acenaphthene	1.5	4.4	0.15	0.173 J	0.258	0.305 J	0.139	0.094	0.18	0.17	0.013	0.029	0.059 J	0.033 J	0.044
Acenaphthylene	1.5	4.4	0.00078	<0.0571	<0.00294	<0.0577	0.0015 J	<0.00015	0.0014	0.00076	0.00018	0.00022	0.00038	0.00027	0.00034
Anthracene	7.3	22	0.0064	<0.0476	0.0202 J	<0.0481	0.0111	0.011	0.014	0.0072	0.0011	0.0022	0.0029 J	0.0018 J	0.0044
Benzo(a)anthracene	0.0091	0.02	0.0002	<0.0762	<0.00392	<0.0769	<0.000777	<0.00051	<0.0005	0.000075 J	0.000077 J	0.000083 J	<0.00005	<0.00005	0.00013
Benzo(a)pyrene	0.0002	0.0002	<0.00005	<0.0762	<0.00392	<0.0769	<0.000777	<0.0002	<0.0002	<0.00002	0.000058 J	0.000053 J	<0.00002	<0.00002	0.000058 J
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00005	<0.124	<0.00637	<0.125	<0.00126	<0.0003	<0.0003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	0.00018 J	<0.352	<0.0181	<0.356	<0.00359	<0.00037	<0.00037	<0.000037	<0.000037	<0.000037	<0.000037	<0.000037	<0.000037
Chrysene	0.91	2	0.00023	<0.0762	<0.00392	<0.0769	<0.000777	0.00051 J	<0.00021	0.000086 J	0.000098 J	0.000091 J	<0.000021	<0.000021	0.00013
Dibenzofuran	0.29	0.29	0.14	0.161 J	0.252	0.256 J	0.138	0.13	0.22	0.18	0.015	0.029	0.054 J	0.031 J	0.054
Di-n-butylphthalate (DBP)	2.4	7.3	<0.00005	<0.105	<0.00539	<0.106	<0.00107	<0.0002	<0.0002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
Fluoranthene	0.98	2.9	0.0039	<0.0667	0.00756 J	0.0698 J	0.00692	0.0081	0.0098	0.0031	0.0013	0.0017	0.0015 J	0.00093 J	0.0029
Fluorene	0.98	2.9	0.069	<0.0667	0.138	0.167 J	0.076	0.057	0.092	0.095	0.0066	0.014	0.028 J	0.015 J	0.028
Naphthalene	0.49	1.5	7.6	8.83	14.1	13.1	9.36	5	13	15	0.079	1.1	2 J	0.13 J	2.1
Nitrobenzene	0.049	0.15	<0.00005	<0.105	<0.00539	<0.106	<0.00107	<0.00024	<0.00024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024
N-Nitrosodiphenylamine	0.19	0.42	<0.00005	<0.0952	<0.0049	<0.0962	<0.000971	<0.00025	<0.00025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025
Pentachlorophenol	0.001	0.001	<0.00005	<0.581	<0.0299	<0.587	<0.00592	<0.0008	<0.00079	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079
Phenanthrene	0.73	2.2	0.066	0.0936 J	0.142	0.27 J	0.0891	0.088	0.18	0.11	0.0086	0.019	0.024 J	0.013 J	0.042
Phenol	7.3	22	0.00014 J	<0.0381	<0.00196	0.129 J	<0.000388	<0.00035	<0.00035	<0.000035	<0.000035	0.00017 J	<0.000035	<0.000035	<0.000035
Pyrene	0.73	2.2	0.0019	<0.105	<0.00539	<0.106	0.00327 J	0.0057	0.0053	0.0018	0.00075	0.00079	0.0007 J	0.00045 J	0.0014
Metals															
Arsenic	0.01	0.01						0.00465	0.00595	0.0116	0.00862	0.0012 J	0.012	0.0159	0.00758

- Notes:
- All values in milligrams per liter (mg/L).
 - Concentrations > RAL and non-detects are highlighted light gray.
 - Concentrations > C/I AL and non-detects are highlighted dark gray
 - TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
 - RAL = Residential Assessment Level, C/I = Commercial/Industrial
 - J = Estimated value, < = not detected at the specified detection limit.
 - MW-32A was screened in the B-CZ & replaced with MW-32AR
 - Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-36A 01/29/2008	MW-36A 07/14/2008	MW-36A 02/03/2009	MW-36A 01/13/2010	MW-36A 06/29/2010	MW-36A 01/20/2011	MW-36A 07/19/2011	MW-36A 02/07/2012	MW-36A 07/17/2012	MW-36A 01/31/2013	MW-36A 08/06/2013	MW-36A 01/16/2014	MW-36A 07/28/2014
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.00052	<0.00052	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00014	<0.00014	<0.0002	<0.00014
Benzene	0.005	0.005	<0.00025	<0.00025	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00008	<0.00008	<0.0002	<0.00008
Chlorobenzene	0.1	0.1	<0.00047	<0.00047	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00012	<0.00012	<0.00018	<0.00012
Ethylbenzene	0.7	0.7	<0.00025	<0.00025	<0.0005	<0.0005	<0.0005	<0.0005	<0.0011	<0.0011	<0.0005	<0.00011	<0.00011	<0.00019	<0.00011
Methylene chloride	0.005	0.005	<0.00054	<0.00054	<0.0005	<0.0005	<0.0005	<0.0005	<0.0013	<0.0013	<0.001	<0.00015	<0.00015	<0.00022	<0.00015
Toluene	1	1	<0.00041	<0.00041	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00015	<0.00015	<0.00017	<0.00015
Vinyl chloride	0.002	0.002							<0.001	<0.001	<0.0005	<0.00011	<0.00011	<0.00018	<0.00011
Xylenes (total)	10	10	<0.00127	<0.00127	<0.001	<0.001	<0.001	<0.001	<0.0031	<0.0031	<0.0015	<0.00026	<0.00026	<0.00058	<0.00026
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.00008	<0.00008	<0.0001	<0.0001	<0.0001	<0.0001	<0.00005	<0.00005	<0.00005	<0.000104	<0.000104	<0.000104	<0.000107
2,4-Dimethylphenol	0.49	1.5	<0.0003	<0.00029	<0.00008	<0.00008	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005	<0.000292	<0.000292	<0.000292	<0.000301
2,4-Dinitrotoluene	0.0013	0.003	<0.0002	<0.0002	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.000123	<0.000123	<0.000123	<0.000126
2,6-Dinitrotoluene	0.0013	0.003	<0.0002	<0.0002	<0.00007	<0.00007	<0.00007	<0.00007	<0.00006	<0.00006	<0.00006	<0.0000755	<0.0000755	<0.0000755	<0.0000777
2-Chloronaphthalene	2	5.8	<0.0004	<0.00039	<0.00012	<0.0001	<0.0001	<0.0001	<0.00005	<0.00005	<0.00005	<0.0000755	<0.0000755	<0.0000755	<0.0000777
2-Methylnaphthalene	0.098	0.29	<0.0004	<0.00039	<0.00007	0.0003	0.00023	<0.00007	<0.00005	<0.00005	<0.00005	<0.000066	<0.000066	<0.000066	<0.000177
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.0002	<0.0002	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.000783	<0.000783	<0.000783	<0.000806
4-Nitrophenol	0.049	0.15	<0.00025	<0.00024	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.000528	<0.000528	<0.000528	<0.000544
Acenaphthene	1.5	4.4	<0.0003	<0.00029	<0.00009	0.00036	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.0000755	<0.0000755	<0.0000867	<0.0000777
Acenaphthylene	1.5	4.4	<0.0003	<0.00029	<0.00006	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000566	<0.0000566	<0.0000566	<0.0000583
Anthracene	7.3	22	0.00065	<0.0002	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000472	<0.0000472	<0.0000472	<0.0000485
Benzo(a)anthracene	0.0091	0.02	<0.0002	<0.0002	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000755	<0.0000755	<0.0000755	<0.0000777
Benzo(a)pyrene	0.0002	0.0002	<0.0002	<0.0002	<0.00008	<0.00008	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005	<0.0000755	<0.0000755	<0.0000755	<0.0000777
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.0004	<0.00039	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.000123	<0.000123	<0.000123	<0.000126
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	0.00061 J	<0.0002	0.00045	<0.00033	<0.00061	<0.00048	<0.0004	0.0025	<0.0001	<0.000349	<0.000349	<0.000349	<0.000359
Chrysene	0.91	2	<0.0002	<0.0002	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000755	<0.0000755	<0.0000755	<0.0000777
Dibenzofuran	0.098	0.29	0.00049 J	<0.00029	<0.00008	0.0003	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005	<0.0000755	<0.0000755	<0.0000755	<0.0000777
Di-n-butylphthalate (DBP)	2.4	7.3	<0.0002	<0.0002	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.000104	<0.000391	<0.000104	<0.000107
Fluoranthene	0.98	2.9	0.000526	<0.0002	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.000066	<0.000066	<0.000066	<0.000068
Fluorene	0.98	2.9	0.00028 J	<0.0002	<0.00007	0.00024	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.000066	<0.000066	<0.000066	<0.000068
Naphthalene	0.49	1.5	0.00119	<0.00039	0.0006	0.0013	0.0023	<0.0001	<0.00005	<0.00005	0.0003	<0.000211	<0.0000755	<0.0000755	<0.00101
Nitrobenzene	0.049	0.15	<0.0004	<0.00039	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.000104	<0.000104	<0.000104	<0.000107
N-Nitrosodiphenylamine	0.19	0.42	<0.00025	<0.00024	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.0000943	<0.0000943	<0.0000943	<0.0000971
Pentachlorophenol	0.001	0.001	<0.0002	<0.0002	<0.00008	<0.00008	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005	<0.0000575	<0.0000575	<0.0000575	<0.000592
Phenanthrene	0.73	2.2	0.000727	<0.0002	<0.00007	0.00039	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000566	<0.0000861	<0.000201	<0.0000583
Phenol	7.3	22	<0.0002	<0.0002	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000377	<0.0000377	<0.0000377	<0.0000388
Pyrene	0.73	2.2	0.000531	<0.0002	0.00015 J	0.00021	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.000104	<0.000104	0.000155 J	<0.000107
Metals															
Arsenic	0.01	0.01													

Notes:

- All values in milligrams per liter (mg/L).
- Concentrations > RAL and non-detects are highlighted light gray.
- Concentrations > C/I AL and non-detects are highlighted dark gray
- TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
- RAL = Residential Assessment Level, C/I = Commercial/Industrial
- J = Estimated value, < = not detected at the specified detection limit.
- MW-32A was screened in the B-CZ & replaced with MW-32AR
- Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-36A 01/25/2018	MW-36A 03/21/2018	MW-36A 05/31/2018	MW-36A 01/14/2019	MW-36A 07/16/2019	MW-36A 01/09/2020	MW-36A 07/29/2020	MW-36A 08/18/2020	MW-36D 07/15/2010	MW-36D 01/26/2011	MW-36D 07/27/2011	MW-36D 02/14/2012	MW-36D 07/23/2012
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0005	<0.0005	<0.001	<0.001	<0.0005
Benzene	0.005	0.005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0005	0.0007 J	<0.001	<0.001	<0.0005
Chlorobenzene	0.1	0.1	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0005	<0.0005	<0.001	<0.001	<0.0005
Ethylbenzene	0.7	0.7	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0005	<0.0005	<0.0011	<0.0011	<0.0005
Methylene chloride	0.005	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.0005	<0.0013	<0.0013	<0.001
Toluene	1	1	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0005	<0.0005	<0.001	<0.001	<0.0005
Vinyl chloride	0.002	0.002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Xylenes (total)	10	10	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.001	<0.001	<0.0031	<0.0031	<0.0015
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000022	<0.0001	<0.0001	<0.00005	<0.00005	<0.00005
2,4-Dimethylphenol	0.49	1.5	<0.000041	<0.000041	<0.000041	<0.000041	<0.000041	<0.000041	<0.000042	<0.000042	0.00008 J	<0.00008	<0.00005	<0.00005	<0.00005
2,4-Dinitrotoluene	0.0013	0.003	<0.000059	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.00006	0.00009 J	<0.00009	<0.00005	<0.00005	<0.00005
2,6-Dinitrotoluene	0.0013	0.003	<0.000043	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000044	<0.00007	<0.00007	<0.00006	<0.00006	<0.00006
2-Chloronaphthalene	2	5.8	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000022	<0.0001	<0.0001	<0.00005	<0.00005	<0.00005
2-Methylnaphthalene	0.098	0.29	<0.000019	0.000022 J	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.00002	<0.00007	0.00013 J	<0.00005	<0.00005	<0.00005
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.000021	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
4-Nitrophenol	0.049	0.15	<0.000048	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000049	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005
Acenaphthene	1.5	4.4	<0.000028	0.000059	<0.000027	<0.000027	<0.000027	<0.000027	<0.000027	<0.000028	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005
Acenaphthylene	1.5	4.4	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000016	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005
Anthracene	7.3	22	<0.000014	0.000066 J	<0.000014	<0.000014	<0.000014	<0.000014	<0.000014	<0.000015	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005
Benzo(a)anthracene	0.0091	0.02	<0.000051	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000052	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005
Benzo(a)pyrene	0.0002	0.0002	<0.00002	0.000064 J	0.00003 J	<0.00002	<0.00002	<0.00002	<0.00002	<0.000021	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.000031	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.000031	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	0.000089 J	0.00015 J	0.0001 J	<0.000037	<0.000037	<0.000037	<0.000037	<0.000039	0.005 J	0.00097	0.0012	<0.0012	<0.00035
Chrysene	0.91	2	<0.000021	<0.000021	0.000027 J	<0.000021	<0.000021	<0.000021	<0.000021	<0.000022	<0.00007	<0.00007	<0.00005	0.000078 J	<0.00005
Dibenzofuran	0.098	0.29	<0.00002	0.000061	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.000021	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005
Di-n-butylphthalate (DBP)	2.4	7.3	<0.00002	<0.00002	0.000028 J	<0.00002	<0.00002	<0.00002	<0.00002	<0.000021	<0.00007	<0.00007	0.00032	0.000052 J	<0.00005
Fluoranthene	0.98	2.9	<0.00001	0.00012	0.000033 J	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00007	<0.00007	0.000068 J	0.00013 J	0.000054 J
Fluorene	0.98	2.9	<0.000031	0.00034	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.000031	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005
Naphthalene	0.49	1.5	<0.00002	<0.00002	<0.00002	<0.00002	0.00015	<0.00034	<0.000021	<0.000021	<0.0001	0.00083	0.000061 J	<0.000072	<0.00014
Nitrobenzene	0.049	0.15	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000025	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005
N-Nitrosodiphenylamine	0.19	0.42	<0.000026	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000026	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005
Pentachlorophenol	0.001	0.001	<0.000081	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.000082	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005
Phenanthrene	0.73	2.2	<0.000021	0.00011	0.000026 J	<0.000021	<0.000021	<0.000021	<0.000021	<0.000022	<0.00007	<0.00007	0.000072 J	0.000069 J	<0.00005
Phenol	7.3	22	<0.000036	<0.000035	<0.000035	<0.000035	<0.00014	<0.000035	<0.000035	<0.000036	0.00065	<0.00007	0.000056 J	0.00023	<0.00005
Pyrene	0.73	2.2	<0.000019	0.000076 J	0.000032 J	<0.000019	<0.000019	<0.000019	<0.000019	<0.00002	<0.00007	<0.00007	0.000053 J	0.000087 J	<0.00005
Metals															
Arsenic	0.01	0.01	0.00108 J	0.00753	0.00117 J	0.00107 J	0.00244	0.00354	0.0112						

- Notes:
- All values in milligrams per liter (mg/L).
 - Concentrations > RAL and non-detects are highlighted light gray.
 - Concentrations > C/I AL and non-detects are highlighted dark gray
 - TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
 - RAL = Residential Assessment Level, C/I = Commercial/Industrial
 - J = Estimated value, < = not detected at the specified detection limit.
 - MW-32A was screened in the B-CZ & replaced with MW-32AR
 - Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-36D 07/23/2012 Duplicate	MW-36D 02/11/2013	MW-36D 08/05/2013	MW-36D 01/21/2014	MW-36D 08/28/2014	MW-36D 02/07/2018	MW-36D 03/26/2018	MW-36D 05/31/2018	MW-36D 01/24/2019	MW-36D 07/31/2019	MW-36D 01/16/2020	MW-36D 07/29/2020	MW-38A 01/29/2008
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.0005	<0.00014	<0.00014	<0.0002	<0.00014	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00052
Benzene	0.005	0.005	<0.0005	<0.00008	<0.00008	<0.0002	0.0000895 J	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00025
Chlorobenzene	0.1	0.1	<0.0005	<0.00012	0.00013 J	<0.00018	<0.00012	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00047
Ethylbenzene	0.7	0.7	<0.0005	<0.00011	0.000127 J	<0.00019	<0.00011	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00025
Methylene chloride	0.005	0.005	<0.001	<0.00015	<0.00015	<0.00022	<0.00015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00054
Toluene	1	1	<0.0005	<0.00015	<0.00015	<0.00017	0.00675	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00041
Vinyl chloride	0.002	0.002													
Xylenes (total)	10	10	<0.0015	<0.00026	<0.00026	<0.00058	<0.00026	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00127
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.00005	<0.000105	<0.00011	<0.000104	<0.000109	<0.00021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.00008
2,4-Dimethylphenol	0.49	1.5	<0.00005	<0.000295	<0.00031	<0.000292	<0.000307	<0.0004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00029
2,4-Dinitrotoluene	0.0013	0.003	<0.00005	<0.000124	<0.00013	<0.000123	<0.000129	<0.00058	<0.000059	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.00019
2,6-Dinitrotoluene	0.0013	0.003	<0.00006	<0.0000762	<0.00008	<0.0000755	<0.0000792	<0.00042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.00019
2-Chloronaphthalene	2	5.8	<0.00005	<0.0000762	<0.00008	<0.0000755	<0.0000792	<0.00021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.00039
2-Methylnaphthalene	0.098	0.29	<0.00005	<0.0000667	<0.00007	0.000189 J	<0.0000693	<0.00019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	0.000069 J	<0.00039
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00008	<0.00079	<0.00083	<0.000783	<0.000822	<0.0002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00019
4-Nitrophenol	0.049	0.15	<0.00005	<0.000533	<0.00056	<0.000528	<0.000554	<0.00047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.00024
Acenaphthene	1.5	4.4	<0.00005	<0.0000762	<0.00008	0.00014 J	<0.0000792	0.00056 J	0.002	<0.000027	<0.000027	<0.000027	<0.000027	0.000067 J	<0.00029
Acenaphthylene	1.5	4.4	<0.00005	<0.0000571	<0.00006	<0.0000566	<0.0000594	<0.00015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.00029
Anthracene	7.3	22	<0.00005	<0.0000476	<0.00005	0.000105 J	0.000224 J	<0.00014	0.00016	0.000037 J	<0.000014	0.000017 J	<0.000033	0.000066 J	<0.00019
Benzo(a)anthracene	0.0091	0.02	<0.00005	<0.0000762	<0.00008	<0.0000755	0.000213 J	<0.0005	0.00024	0.00019	<0.00005	0.000053 J	<0.00005	0.000052 J	<0.00019
Benzo(a)pyrene	0.0002	0.0002	<0.00005	<0.0000762	<0.00008	<0.0000755	0.000192 J	<0.0002	0.0003	0.00024	0.000027 J	0.000087 J	<0.00002	0.000056 J	<0.00019
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00005	<0.000124	<0.00013	<0.000123	<0.000129	<0.0003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00039
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	<0.00059	<0.000352	<0.00037	<0.000349	0.00128	<0.00037	0.00054	0.0005	0.000055 J	0.00008 J	<0.000037	0.0001 J	0.00078 J
Chrysene	0.91	2	<0.00005	<0.0000762	<0.00008	<0.0000755	0.000347 J	<0.00021	0.00031	0.00026	0.000031 J	0.000058 J	<0.000021	<0.000062	<0.00019
Dibenzofuran	0.098	0.29	<0.00005	<0.0000762	<0.00008	0.00017 J	<0.0000792	<0.0002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	0.00008 J	<0.00029
Di-n-butylphthalate (DBP)	2.4	7.3	<0.00005	<0.000105	<0.00011	<0.000104	<0.000109	<0.0002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	0.000062 J	<0.00019
Fluoranthene	0.98	2.9	0.000093 J	<0.0000667	<0.00007	0.000216 J	0.00111	<0.0001	0.00094	0.00039	0.000048 J	0.00011	<0.00001	0.00014	<0.00019
Fluorene	0.98	2.9	<0.00005	<0.0000667	<0.00007	0.000147 J	0.0001 J	<0.0003	0.00086	0.00003 J	<0.00003	<0.00003	<0.00003	0.000081 J	<0.00019
Naphthalene	0.49	1.5	<0.00015	<0.0000762	<0.00008	0.0011 J	0.0000923 J	<0.0002	0.00015	0.000045 J	<0.00002	<0.00002	<0.000033	0.00047	<0.00039
Nitrobenzene	0.049	0.15	<0.00005	<0.000105	<0.00011	<0.000104	<0.000109	<0.00024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.00039
N-Nitrosodiphenylamine	0.19	0.42	<0.00005	<0.0000952	<0.0001	<0.0000943	<0.000099	<0.00025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.00024
Pentachlorophenol	0.001	0.001	<0.00005	<0.000581	<0.00061	<0.000575	<0.000604	<0.00079	<0.00008	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.00019
Phenanthrene	0.73	2.2	0.00014 J	<0.0000571	<0.00006	0.000665	0.00102	<0.00021	0.00037	0.00028	<0.000021	0.000066 J	<0.000047	0.00026	<0.00019
Phenol	7.3	22	<0.00005	<0.0000381	<0.00004	<0.0000377	0.00194	<0.00035	<0.000035	<0.000035	<0.000035	<0.000035	<0.000035	<0.000035	<0.00019
Pyrene	0.73	2.2	<0.00005	<0.000105	<0.00011	0.000159 J	0.000881	<0.00019	0.00062	0.00036	0.000042 J	0.000099 J	<0.000019	<0.0001	<0.00019
Metals															
Arsenic	0.01	0.01						0.000773 J	0.00137 J	<0.0004	0.000417 J	<0.0004	0.000533 J	<0.0004	

Notes:

- All values in milligrams per liter (mg/L).
- Concentrations > RAL and non-detects are highlighted light gray.
- Concentrations > C/I AL and non-detects are highlighted dark gray
- TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
- RAL = Residential Assessment Level, C/I = Commercial/Industrial
- J = Estimated value, < = not detected at the specified detection limit.
- MW-32A was screened in the B-CZ & replaced with MW-32AR
- Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-38A 01/29/2008 Duplicate	MW-38A 07/14/2008	MW-38A 07/14/2008 Duplicate	MW-38A 02/03/2009	MW-38A 01/14/2010	MW-38A 06/29/2010	MW-38A 01/25/2011	MW-38A 07/19/2011	MW-38A 08/25/2011	MW-38A 02/15/2012	MW-38A 07/18/2012	MW-38A 02/07/2013	MW-38A 08/08/2013
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.00052	<0.00109	<0.00052	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.0005	<0.00014	<0.00014
Benzene	0.005	0.005	<0.00025	<0.00112	<0.00025	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.0005	<0.00008	<0.00008
Chlorobenzene	0.1	0.1	<0.00047	<0.0015	<0.00047	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.0005	<0.00012	<0.00012
Ethylbenzene	0.7	0.7	<0.00025	<0.00142	<0.00025	<0.0005	<0.0005	<0.0005	<0.0005	<0.0011	<0.0011	<0.0005	<0.0005	<0.00011	<0.00011
Methylene chloride	0.005	0.005	<0.00054	<0.00122	<0.00054	<0.0005	<0.0005	<0.0005	<0.0005	<0.0013	<0.0013	<0.001	<0.001	<0.00015	<0.00015
Toluene	1	1	<0.00041	<0.00138	<0.00041	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.0005	<0.00015	<0.00015
Vinyl chloride	0.002	0.002													<0.00011
Xylenes (total)	10	10	<0.00127	<0.00302	<0.00127	<0.001	<0.001	<0.001	<0.001	<0.0031	<0.0031	<0.0015	<0.0015	<0.00026	<0.00026
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.00008	<0.00008	<0.00008	<0.0001	<0.0001	<0.0001	<0.0001	<0.00005		<0.00005	<0.00005	<0.000105	<0.000104
2,4-Dimethylphenol	0.49	1.5	<0.00029	<0.00029	<0.00028	<0.00008	<0.00008	<0.00008	<0.00008	<0.00005		<0.00005	<0.00005	<0.000295	<0.000292
2,4-Dinitrotoluene	0.0013	0.003	<0.0002	<0.0002	<0.00019	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005		<0.00005	<0.00005	<0.000124	<0.000123
2,6-Dinitrotoluene	0.0013	0.003	<0.0002	<0.0002	<0.00019	<0.00007	<0.00007	<0.00007	<0.00007	<0.00006		<0.00006	<0.00006	<0.0000762	<0.0000755
2-Chloronaphthalene	2	5.8	<0.00039	<0.00039	<0.00038	<0.00012	<0.0001	<0.0001	<0.0001	<0.00005		<0.00005	<0.00005	<0.0000762	<0.0000755
2-Methylnaphthalene	0.098	0.29	<0.00039	<0.00039	<0.00038	0.00044	<0.00007	0.00016 J	0.000085 J	<0.00005		<0.00005	<0.00031	<0.0000667	0.000115 J
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.0002	<0.0002	<0.00019	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008		<0.00008	<0.00008	<0.00079	<0.000783
4-Nitrophenol	0.049	0.15	<0.00024	<0.00024	<0.00024	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005		<0.00005	<0.00005	<0.000533	<0.000528
Acenaphthene	1.5	4.4	<0.00029	<0.00029	<0.00028	<0.00009	0.00024	<0.00009	<0.00009	0.00043		<0.00005	<0.00025	<0.0000762	0.000638
Acenaphthylene	1.5	4.4	<0.00029	<0.00029	<0.00028	<0.00006	<0.00007	<0.00007	<0.00007	<0.00005		<0.00005	<0.00005	<0.0000571	<0.0000566
Anthracene	7.3	22	<0.0002	<0.0002	<0.00019	<0.00007	<0.00007	<0.00007	0.00023	0.0001 J		<0.00005	<0.00013	0.0000712 J	<0.0000472
Benzo(a)anthracene	0.0091	0.02	<0.0002	<0.0002	<0.00019	<0.00007	<0.00007	<0.00007	<0.00007	0.00025		<0.00005	<0.00005	<0.0000762	<0.0000755
Benzo(a)pyrene	0.0002	0.0002	<0.0002	<0.0002	<0.00019	<0.00008	<0.00008	<0.00008	<0.00008	0.00052	<0.00005	<0.00005	<0.00005	<0.0000762	<0.0000755
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00039	<0.00039	<0.00038	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005		<0.00005	<0.00005	<0.000124	<0.000123
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	0.0145	0.00022 J	0.00105 J	0.00042	<0.00049	<0.00044	0.00064	<0.00094		0.0016	0.00023	<0.000352	<0.000349
Chrysene	0.91	2	<0.0002	<0.0002	<0.00019	<0.00007	<0.00007	<0.00007	<0.00007	0.00022		<0.00005	<0.00005	<0.0000762	<0.0000755
Dibenzofuran	0.098	0.29	<0.00029	<0.00029	<0.00028	<0.00008	<0.00008	0.000083 J	<0.00008	<0.00005	0.000055 J	<0.00005	<0.00014	<0.0000762	<0.0000755
Di-n-butylphthalate (DBP)	2.4	7.3	<0.0002	<0.0002	<0.00019	<0.00007	<0.00007	<0.00007	<0.00007	0.00017 J		<0.00005	0.000052 J	<0.000105	0.000145 J
Fluoranthene	0.98	2.9	<0.0002	<0.0002	<0.00019	<0.00007	0.00012 J	<0.00007	0.00034	0.00014 J		<0.00005	<0.00017	<0.0000667	0.000164 J
Fluorene	0.98	2.9	<0.0002	<0.0002	<0.00019	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005		<0.00005	<0.00015	<0.0000667	<0.000066
Naphthalene	0.49	1.5	<0.00039	<0.00039	<0.00038	0.006	<0.0001	<0.0001	0.00059	<0.00026		<0.00005	<0.001	<0.0000762	0.00192 J
Nitrobenzene	0.049	0.15	<0.00039	<0.00039	<0.00038	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005		<0.00005	<0.00005	<0.000105	<0.000104
N-Nitrosodiphenylamine	0.19	0.42	<0.00024	<0.00024	<0.00024	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005		<0.00005	<0.00005	<0.0000952	<0.0000943
Pentachlorophenol	0.001	0.001	<0.0002	<0.0002	<0.00019	<0.00008	<0.00008	<0.00008	<0.00008	0.000067 J		<0.00005	<0.00005	<0.000581	<0.000575
Phenanthrene	0.73	2.2	<0.0002	<0.0002	<0.00019	<0.00007	<0.00007	<0.00007	0.0001 J	<0.00005		0.00011 J	<0.00032	<0.0000571	<0.0000566
Phenol	7.3	22	<0.0002	<0.0002	<0.00019	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005		<0.00005	<0.00005	<0.0000381	<0.0000377
Pyrene	0.73	2.2	<0.0002	<0.0002	<0.00019	<0.00007	0.0001 J	<0.00007	0.00021	0.00018 J		<0.00005	<0.00016	<0.000105	0.000176 J
Metals															
Arsenic	0.01	0.01													

Notes:

1. All values in milligrams per liter (mg/L).
2. Concentrations > RAL and non-detects are highlighted light gray.
3. Concentrations > C/I AL and non-detects are highlighted dark gray
4. TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
5. RAL = Residential Assessment Level, C/I = Commercial/Industrial
6. J = Estimated value, < = not detected at the specified detection limit.
7. MW-32A was screened in the B-CZ & replaced with MW-32AR
8. Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-38A 01/21/2014	MW-38A 07/25/2014	MW-38A 01/26/2018	MW-38A 03/25/2018	MW-38A 06/05/2018	MW-38A 01/22/2019	MW-38A 07/31/2019	MW-38A 01/21/2020	MW-38A 07/20/2020	MW-38B 01/29/2008	MW-38B 07/14/2008	MW-38B 02/03/2009	MW-38B 01/14/2010	
Volatile Organic Compounds																
1,2-Dichloroethane	0.005	0.005	<0.0002	<0.00014	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.00031 J	<0.0002	<0.0002	<0.00052	<0.00109	<0.0005	<0.0005
Benzene	0.005	0.005	<0.0002	<0.00008	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00025	<0.00112	<0.0005	<0.0005	<0.0005
Chlorobenzene	0.1	0.1	<0.00018	<0.00012	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00047	<0.0015	<0.0005	<0.0005	<0.0005
Ethylbenzene	0.7	0.7	<0.00019	<0.00011	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00025	<0.00142	<0.0005	<0.0005	<0.0005
Methylene chloride	0.005	0.005	<0.00022	<0.00015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00054	<0.00122	<0.0005	<0.0005	<0.0005
Toluene	1	1	<0.00017	<0.00015	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00041	<0.00138	<0.0005	<0.0005	<0.0005
Vinyl chloride	0.002	0.002		<0.00011												
Xylenes (total)	10	10	<0.00058	<0.00026	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00127	<0.00302	<0.001	<0.001	<0.001
Semivolatile Organic Compounds																
1,2-Diphenylhydrazine	0.0011	0.0026	<0.000105	<0.000107	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.00008	<0.00008	<0.0001	<0.0001	<0.0001
2,4-Dimethylphenol	0.49	1.5	<0.000295	<0.000301	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.0003	<0.00029	<0.00008	<0.00008	<0.00008
2,4-Dinitrotoluene	0.0013	0.003	<0.000124	<0.000126	<0.000058	<0.000059	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.0002	<0.00019	<0.00009	<0.00009	<0.00009
2,6-Dinitrotoluene	0.0013	0.003	<0.0000762	<0.0000777	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.0002	<0.00019	<0.00007	<0.00007	<0.00007
2-Chloronaphthalene	2	5.8	<0.0000762	<0.0000777	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.0004	<0.00038	<0.00012	<0.0001	<0.0001
2-Methylnaphthalene	0.098	0.29	<0.0000667	<0.000068	<0.000019	0.00014	<0.000019	0.000055 J	<0.000019	0.00017	<0.000019	<0.0004	<0.00038	0.00037	<0.00007	<0.00007
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.000079	<0.0000806	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.0002	<0.00019	<0.00008	<0.00008	<0.00008
4-Nitrophenol	0.049	0.15	<0.000533	<0.000544	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.00025	<0.00024	<0.00007	<0.00007	<0.00007
Acenaphthene	1.5	4.4	<0.0000762	<0.0000777	<0.000027	0.0039	0.0061	0.014	<0.000027	0.0068	0.000089 J	<0.0003	<0.00029	0.0001 J	<0.00009	<0.00009
Acenaphthylene	1.5	4.4	<0.0000571	<0.0000583	<0.000015	0.000053 J	<0.000015	0.0002	<0.000015	<0.000015	<0.000015	<0.0003	<0.00029	<0.00006	<0.00007	<0.00007
Anthracene	7.3	22	0.000103 J	<0.0000816	<0.000014	0.00026	0.00015	0.00017	0.000022 J	0.00015	<0.000014	<0.0002	0.00026 J	0.00013 J	<0.00007	<0.00007
Benzo(a)anthracene	0.0091	0.02	<0.0000762	<0.0000777	<0.00005	<0.000051	<0.00005	<0.00005	0.000087 J	<0.00005	<0.00005	<0.0002	<0.00019	<0.00007	<0.00007	<0.00007
Benzo(a)pyrene	0.0002	0.0002	<0.0000762	<0.0000777	<0.00002	<0.00002	<0.00002	<0.00002	0.00012	0.000032 J	<0.00002	<0.0002	<0.00019	<0.00008	<0.00008	<0.00008
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.000124	<0.000126	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.0004	<0.00038	<0.00009	<0.00009	<0.00009
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	<0.000352	<0.000359	<0.000037	<0.000037	0.0001 J	<0.000037	0.000084 J	0.000063 J	<0.000037	0.00103 J	<0.00019	0.00041	<0.00039	<0.00039
Chrysene	0.91	2	<0.0000762	<0.0000777	<0.000021	<0.000021	<0.000021	<0.000021	0.000092 J	0.00006 J	<0.000021	<0.0002	<0.00019	<0.00007	<0.00007	<0.00007
Dibenzofuran	0.098	0.29	<0.0000762	<0.0000777	<0.00002	<0.00002	0.00006 J	0.00014	<0.00002	0.00036	<0.00002	<0.0003	<0.00029	<0.00008	<0.00008	<0.00008
Di-n-butylphthalate (DBP)	2.4	7.3	<0.000105	<0.000107	<0.00002	<0.00002	0.00017 J	0.000068 J	<0.00002	<0.00002	<0.00002	<0.0002	<0.00019	<0.00007	<0.00007	<0.00007
Fluoranthene	0.98	2.9	<0.0000667	<0.000068	<0.00001	0.00023	0.000032 J	0.0013	0.00018	0.00018	<0.00001	<0.0002	<0.00019	<0.00007	<0.00007	<0.00007
Fluorene	0.98	2.9	<0.0000667	<0.000068	<0.00003	0.0003	0.0016	0.0024	<0.00003	0.00029	<0.00003	<0.0002	<0.00019	<0.00007	<0.00007	<0.00007
Naphthalene	0.49	1.5	<0.000146	<0.0000777	<0.00002	<0.00002	0.00071	0.00015	0.000068 J	0.0011	<0.00002	<0.0004	<0.00038	0.0045	<0.00014	<0.00014
Nitrobenzene	0.049	0.15	<0.000105	<0.000107	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.0004	<0.00038	<0.00009	<0.00009	<0.00009
N-Nitrosodiphenylamine	0.19	0.42	<0.0000952	<0.0000971	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	0.00011 J	<0.000025	<0.00025	<0.00024	<0.00009	<0.00009	<0.00009
Pentachlorophenol	0.001	0.001	<0.000581	<0.000592	<0.000079	<0.00008	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.0002	<0.00019	<0.00008	<0.00008	<0.00008
Phenanthrene	0.73	2.2	<0.0000571	<0.0000583	<0.000021	0.00033	<0.000021	0.00058	0.0001	0.00039	<0.000021	<0.0002	<0.00019	<0.00007	<0.00007	<0.00007
Phenol	7.3	22	<0.0000381	<0.0000388	<0.000035	<0.000035	<0.000035	<0.000035	<0.000035	<0.000035	<0.000035	<0.0002	<0.00019	<0.00007	<0.00007	<0.00007
Pyrene	0.73	2.2	<0.000105	<0.000107	<0.000019	0.00021	0.000056 J	0.0011	0.00014	0.00014	<0.000019	<0.0002	<0.00019	<0.00007	<0.00007	<0.00007
Metals																
Arsenic	0.01	0.01			<0.0004	0.0138	0.0124	0.0186	<0.0004	0.0177	0.00512					

Notes:

1. All values in milligrams per liter (mg/L).
2. Concentrations > RAL and non-detects are highlighted light gray.
3. Concentrations > C/I AL and non-detects are highlighted dark gray
4. TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
5. RAL = Residential Assessment Level, C/I = Commercial/Industrial
6. J = Estimated value, < = not detected at the specified detection limit.
7. MW-32A was screened in the B-CZ & replaced with MW-32AR
8. Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-38B 06/29/2010	MW-38B 01/25/2011	MW-38B 07/18/2011	MW-38B 02/15/2012	MW-38B 07/18/2012	MW-38B 02/07/2013	MW-38B 08/08/2013	MW-38B 01/21/2014	MW-38B 07/25/2014	MW-38B 01/26/2018	MW-38B 03/25/2018	MW-38B 06/05/2018	MW-38B 01/22/2019
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00014	<0.00014	<0.0002	<0.00014	<0.0002	<0.0002	<0.0002	<0.0002
Benzene	0.005	0.005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00008	<0.00008	<0.0002	<0.00008	<0.0002	<0.0002	<0.0002	<0.0002
Chlorobenzene	0.1	0.1	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00012	<0.00012	<0.00018	<0.00012	<0.0003	<0.0003	<0.0003	<0.0003
Ethylbenzene	0.7	0.7	<0.0005	<0.0005	<0.0011	<0.0011	<0.0005	<0.00011	<0.00011	<0.00019	<0.00011	<0.0003	<0.0003	<0.0003	<0.0003
Methylene chloride	0.005	0.005	<0.0005	<0.0005	<0.0013	<0.0013	<0.001	<0.00015	<0.00015	<0.00022	<0.00015	<0.001	<0.001	<0.001	<0.001
Toluene	1	1	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00015	<0.00015	<0.00017	<0.00015	<0.0002	<0.0002	<0.0002	<0.0002
Vinyl chloride	0.002	0.002						<0.00011		<0.00011					
Xylenes (total)	10	10	<0.001	<0.001	<0.0031	<0.0031	<0.0015	<0.00026	<0.00026	<0.00058	<0.00026	<0.0003	<0.0003	<0.0003	<0.0003
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.0001	<0.0001	<0.00005	<0.00005	<0.00005	<0.000105	<0.000104	<0.000105	<0.000109	<0.000021	<0.000021	<0.000021	<0.000021
2,4-Dimethylphenol	0.49	1.5	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005	<0.000295	<0.000292	<0.000295	<0.000307	<0.000041	<0.00004	<0.00004	<0.00004
2,4-Dinitrotoluene	0.0013	0.003	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.000124	<0.000123	<0.000124	<0.000129	<0.000059	<0.000059	<0.000058	<0.000058
2,6-Dinitrotoluene	0.0013	0.003	<0.00007	<0.00007	<0.00006	<0.00006	<0.00006	<0.0000762	<0.0000755	<0.0000762	<0.0000792	<0.000043	<0.000042	<0.000042	<0.000042
2-Chloronaphthalene	2	5.8	<0.0001	<0.0001	<0.00005	<0.00005	<0.00005	<0.0000762	<0.0000755	<0.0000762	<0.0000792	<0.000021	<0.000021	<0.000021	<0.000021
2-Methylnaphthalene	0.098	0.29	<0.00007	<0.00007	<0.00005	<0.00005	<0.0003	<0.0000667	<0.000066	0.000137 J	<0.0000992	0.000096 J	<0.000019	<0.000019	<0.000019
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00008	<0.00008	<0.00008	<0.00008	<0.00079	<0.000783	<0.00079	<0.00079	<0.000822	<0.00002	<0.00002	<0.00002	<0.00002
4-Nitrophenol	0.049	0.15	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.000533	<0.000528	<0.000533	<0.000554	<0.000048	<0.000047	<0.000047	<0.000047
Acenaphthene	1.5	4.4	0.00047	<0.00009	<0.00005	0.0001 J	0.00096	0.000226 J	<0.0000755	0.0000786 J	<0.000342	<0.000028	0.000095 J	0.048	<0.000027
Acenaphthylene	1.5	4.4	<0.00007	<0.00007	<0.00005	<0.00005	<0.0000571	<0.0000566	<0.0000571	<0.0000571	<0.0000594	<0.000015	<0.000015	0.00036	<0.000015
Anthracene	7.3	22	<0.00007	0.00011 J	0.00013 J	0.00021	<0.00023	0.000313 J	<0.0000472	0.000141 J	<0.000398	0.000047 J	<0.000014	0.0018	0.0001
Benzo(a)anthracene	0.0091	0.02	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000762	<0.0000755	<0.0000762	<0.0000792	<0.000051	<0.000051	<0.00005	<0.00005
Benzo(a)pyrene	0.0002	0.0002	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005	<0.0000762	<0.0000755	<0.0000762	<0.0000792	<0.00002	<0.00002	<0.00002	<0.00002
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00009	<0.00009	<0.00005	<0.00005	0.000072 J	<0.000124	<0.000123	<0.000124	<0.000129	<0.000031	<0.00003	<0.00003	<0.00003
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	<0.00074	<0.0002	<0.001	<0.0001	<0.0001	<0.000352	<0.000349	<0.000352	<0.000366	0.000061 J	0.00012 J	<0.000037	<0.000037
Chrysene	0.91	2	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000762	<0.0000755	<0.0000762	<0.0000792	<0.000021	<0.000021	<0.000021	<0.000021
Dibenzofuran	0.098	0.29	<0.00008	<0.00008	<0.00005	<0.00005	<0.00028	<0.0000762	<0.0000755	0.0000923 J	<0.00041	0.000053 J	<0.00002	0.008	<0.00002
Di-n-butylphthalate (DBP)	2.4	7.3	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.000105	<0.000104	<0.000105	<0.000109	<0.00002	0.000027 J	<0.00002	<0.00002
Fluoranthene	0.98	2.9	0.00017 J	<0.00007	<0.00005	<0.00005	<0.00032	<0.0000667	<0.000066	0.000101 J	<0.00058	<0.00001	0.000022 J	0.0014	<0.00001
Fluorene	0.98	2.9	0.00015 J	<0.00007	<0.00005	<0.00005	<0.00027	<0.0000667	<0.000066	0.0000778 J	<0.000219	0.000046 J	<0.00003	0.019	<0.00003
Naphthalene	0.49	1.5	<0.0001	0.00031	<0.00005	0.00037	<0.0015	<0.0000762	<0.0000755	0.000466 J	<0.0016	0.00084	0.00016	0.00099	<0.00002
Nitrobenzene	0.049	0.15	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.000105	<0.000104	<0.000105	<0.000109	<0.000024	<0.000024	<0.000024	<0.000024
N-Nitrosodiphenylamine	0.19	0.42	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.0000952	<0.0000943	<0.0000952	<0.000099	<0.000026	<0.000025	<0.000025	<0.000025
Pentachlorophenol	0.001	0.001	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005	<0.000581	<0.000575	<0.000581	<0.000604	<0.000081	<0.00008	<0.000079	<0.000079
Phenanthrene	0.73	2.2	<0.00007	<0.00007	<0.00005	<0.00005	<0.00037	<0.0000571	<0.0000566	0.000304 J	<0.000164	0.000061 J	0.000052 J	<0.000021	<0.000021
Phenol	7.3	22	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000381	<0.0000377	<0.0000381	<0.0000396	<0.000036	<0.000035	<0.000035	<0.000035
Pyrene	0.73	2.2	0.00027	<0.00007	<0.00005	<0.00005	<0.00037	<0.000105	<0.000104	<0.000105	0.000472 J	<0.000019	0.000035 J	0.00086	<0.000019
Metals															
Arsenic	0.01	0.01										0.000636 J	0.000972 J	0.0386	<0.0004

Notes:

- All values in milligrams per liter (mg/L).
- Concentrations > RAL and non-detects are highlighted light gray.
- Concentrations > C/I AL and non-detects are highlighted dark gray
- TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
- RAL = Residential Assessment Level, C/I = Commercial/Industrial
- J = Estimated value, < = not detected at the specified detection limit.
- MW-32A was screened in the B-CZ & replaced with MW-32AR
- Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-38B 07/18/2019	MW-38B 01/21/2020	MW-38B 07/20/2020	MW-39B 01/30/2008	MW-39B 07/15/2008	MW-39B 02/04/2009	MW-39B 01/19/2010	MW-39B 06/22/2010	MW-39B 01/18/2011	MW-39B 07/26/2011	MW-39B 02/01/2012	MW-39B 07/19/2012	MW-39B 02/05/2013
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.0002	<0.0002	<0.0002	<0.00052	<0.00052	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00014
Benzene	0.005	0.005	<0.0002	<0.0002	<0.0002	<0.00025	<0.00025	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00008
Chlorobenzene	0.1	0.1	<0.0003	<0.0003	<0.0003	<0.00047	<0.00047	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00012
Ethylbenzene	0.7	0.7	<0.0003	<0.0003	<0.0003	<0.00025	<0.00025	<0.0005	<0.0005	<0.0005	<0.0005	<0.0011	<0.0011	<0.0005	<0.00011
Methylene chloride	0.005	0.005	<0.001	<0.001	<0.001	<0.00054	<0.00054	<0.0005	<0.0005	<0.0005	<0.0005	<0.0013	<0.0013	<0.001	<0.00015
Toluene	1	1	<0.0002	<0.0002	<0.0002	<0.00041	<0.00041	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00015
Vinyl chloride	0.002	0.002													<0.00011
Xylenes (total)	10	10	<0.0003	<0.0003	<0.0003	<0.00127	<0.00127	<0.001	<0.001	<0.001	<0.001	<0.0031	<0.0031	<0.0015	<0.00026
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.000021	0.00025	<0.000021	<0.00008	<0.00008	<0.0001	<0.0001	<0.0001	<0.0001	<0.00005	<0.00005	<0.00005	<0.000104
2,4-Dimethylphenol	0.49	1.5	0.000056 J	<0.00004	<0.00004	<0.0003	<0.00029	<0.00008	<0.00008	<0.00008	<0.00008	<0.00005	0.00005 J	<0.00005	<0.000292
2,4-Dinitrotoluene	0.0013	0.003	<0.000058	<0.000058	<0.000058	<0.0002	<0.00019	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	0.00005 J	<0.00005	<0.000123
2,6-Dinitrotoluene	0.0013	0.003	<0.000042	<0.000042	<0.000042	<0.0002	<0.00019	<0.00007	<0.00007	<0.00007	<0.00007	<0.00006	0.00006 J	<0.00006	<0.0000755
2-Chloronaphthalene	2	5.8	<0.000021	<0.000021	<0.000021	<0.0004	<0.00039	<0.00012	<0.0001	<0.0001	<0.0001	<0.00005	0.00005 J	<0.00005	<0.0000755
2-Methylnaphthalene	0.098	0.29	0.0003	0.00017	<0.000019	<0.0004	<0.00039	<0.00007	<0.00007	<0.00007	0.000086 J	<0.00005	0.00005 J	0.000069 J	<0.000066
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00002	<0.00002	<0.00002	<0.0002	<0.00049	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.0000783
4-Nitrophenol	0.049	0.15	<0.000047	<0.000047	<0.000047	<0.00025	<0.00024	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	0.00005 J	<0.00005	<0.000528
Acenaphthene	1.5	4.4	0.00012	0.054	<0.000027	0.000664	<0.00029	0.00022	0.00014 J	0.0034	0.00039	0.00028	0.0011 J	0.0004	0.000756
Acenaphthylene	1.5	4.4	<0.000015	0.00045	<0.000015	<0.0003	<0.00029	<0.00006	<0.00007	<0.00007	<0.00007	0.000053 J	0.00005 J	<0.00005	0.00011 J
Anthracene	7.3	22	0.000037 J	0.0012	<0.000014	0.00106	0.000619	0.00028	<0.00007	<0.00007	<0.00007	0.0004	<0.00005	0.0001 J	0.000901
Benzo(a)anthracene	0.0091	0.02	<0.00005	0.000055 J	<0.00005	<0.0002	<0.00019	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	0.00005 J	<0.00005	<0.0000755
Benzo(a)pyrene	0.0002	0.0002	<0.00002	<0.00002	<0.00002	<0.0002	<0.00019	<0.00008	<0.00008	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005	<0.0000755
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00003	<0.00003	<0.00003	<0.0004	<0.00039	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	0.00005 J	<0.00005	<0.000123
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	0.00031	<0.000037	<0.000037	0.00119 J	<0.00019	0.00046	0.0007	<0.0002	0.00024	0.00092	<0.00015	<0.00015	<0.000349
Chrysene	0.91	2	<0.000021	0.000057 J	<0.000021	<0.0002	<0.00019	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000755
Dibenzofuran	0.098	0.29	0.00014	0.0054	<0.00002	<0.0003	<0.00029	<0.00008	<0.00008	<0.00008	<0.00008	<0.00005	0.0004 J	0.000067 J	<0.0000755
Di-n-butylphthalate (DBP)	2.4	7.3	<0.00002	0.000036 J	<0.00002	<0.0002	<0.00019	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.000104
Fluoranthene	0.98	2.9	<0.00001	0.0025	<0.00001	0.00213	0.000575	0.0014	<0.00007	0.0019	0.00013 J	0.000079 J	0.0011	0.00036	0.000112 J
Fluorene	0.98	2.9	0.00006 J	0.015	<0.00003	<0.0002	<0.00019	0.00025	0.00021	0.00048	0.00013 J	0.00011 J	0.00032 J	0.00019 J	<0.000066
Naphthalene	0.49	1.5	0.0026	0.00098	<0.00002	<0.0004	<0.00039	0.00052	0.00018 J	<0.00015	0.00076	<0.00005	0.00034 J	0.00018 J	0.000428 J
Nitrobenzene	0.049	0.15	<0.000024	<0.000024	<0.000024	<0.0004	<0.00039	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	0.00005 J	<0.00005	<0.000104
N-Nitrosodiphenylamine	0.19	0.42	<0.000025	<0.000025	<0.000025	<0.00025	<0.00024	<0.00009	<0.00009	<0.00009	<0.00009	0.000054 J	<0.00005	<0.00005	<0.0000943
Pentachlorophenol	0.001	0.001	<0.000079	<0.000079	<0.000079	<0.0002	<0.00019	<0.00008	<0.00008	<0.00008	<0.00008	<0.00005	0.00005 J	<0.00005	<0.000575
Phenanthrene	0.73	2.2	0.000079 J	0.00095	<0.000021	0.00045 J	<0.00019	<0.00007	0.00025	<0.00007	0.00018 J	<0.00005	<0.00005	0.00016 J	<0.0000566
Phenol	7.3	22	0.000056 J	<0.000035	<0.000035	<0.0002	<0.00019	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000377
Pyrene	0.73	2.2	<0.000019	0.0015	<0.000019	0.00156	0.000956	0.0013	0.00018 J	0.002	<0.00007	0.00017 J	0.0013	0.00052	0.000131 J
Metals															
Arsenic	0.01	0.01	0.000553 J	0.0173	0.000612 J										

Notes:

1. All values in milligrams per liter (mg/L).
2. Concentrations > RAL and non-detects are highlighted light gray.
3. Concentrations > C/I AL and non-detects are highlighted dark gray
4. TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
5. RAL = Residential Assessment Level, C/I = Commercial/Industrial
6. J = Estimated value, < = not detected at the specified detection limit.
7. MW-32A was screened in the B-CZ & replaced with MW-32AR
8. Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-39B 07/31/2013	MW-39B 01/14/2014	MW-39B 07/25/2014	MW-39B 01/23/2018	MW-39B 03/19/2018	MW-39B 05/16/2018	MW-39B 01/08/2019	MW-39B 07/11/2019	MW-39B 01/13/2020	MW-39B 07/16/2020	MW-40B 01/30/2008	MW-40B 07/15/2008	MW-40B 02/04/2009
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.00014	<0.00014	<0.00014	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00052	<0.00052	<0.0005
Benzene	0.005	0.005	<0.00008	<0.00008	<0.00008	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0348	0.0269	0.026
Chlorobenzene	0.1	0.1	<0.00012	<0.00012	<0.00012	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00047	<0.00047	0.001 J
Ethylbenzene	0.7	0.7	<0.00011	<0.00011	<0.00011	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.00078 J	0.162	0.116	0.1
Methylene chloride	0.005	0.005	<0.00015	<0.00015	<0.00015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00054	<0.00054	<0.0005
Toluene	1	1	<0.00015	<0.00015	<0.00015	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.00038 J	0.0791	0.059	0.05
Vinyl chloride	0.002	0.002			<0.00011										
Xylenes (total)	10	10	<0.00026	<0.00026	<0.00026	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.0031	0.35	0.244	0.2
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.000105	<0.00106	<0.000107	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.0004	<0.0001
2,4-Dimethylphenol	0.49	1.5	<0.000295	<0.00298	<0.000301	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.071	0.0445	0.011
2,4-Dinitrotoluene	0.0013	0.003	<0.000124	<0.00125	<0.000126	<0.000058	<0.000059	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.00058	<0.001	<0.00009
2,6-Dinitrotoluene	0.0013	0.003	<0.0000762	<0.000769	<0.0000777	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.00042	<0.001	<0.00007
2-Chloronaphthalene	2	5.8	<0.0000762	<0.000769	<0.0000777	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	0.00009 J	<0.095	<0.002	<0.00012
2-Methylnaphthalene	0.098	0.29	<0.0000667	<0.000673	<0.0000708	0.000081 J	<0.000019	0.00008 J	<0.000019	<0.00002	0.00021	<0.000067	0.522	4.41	0.58
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00079	<0.00798	<0.000806	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.048	<0.0025	<0.00008
4-Nitrophenol	0.049	0.15	<0.000533	<0.00538	<0.000544	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.06	<0.0012	<0.00007
Acenaphthene	1.5	4.4	0.0007	0.00115 J	<0.0012	0.00093	0.001	0.00054	0.00062	0.00065	0.0012	0.024	0.365	3.17	0.35
Acenaphthylene	1.5	4.4	0.0000676 J	<0.000577	0.0000623 J	<0.000015	<0.000015	<0.000015	<0.000015	0.000021 J	<0.000015	0.00015	<0.071	<0.0015	0.0027
Anthracene	7.3	22	0.000774	<0.00101	<0.000615	0.000053 J	<0.000014	0.0002	0.00016	0.00021	0.00016	0.00063	<0.048	0.0141	0.016
Benzo(a)anthracene	0.0091	0.02	<0.0000762	<0.000769	<0.0000777	<0.00005	<0.000051	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.048	<0.001	0.00028
Benzo(a)pyrene	0.0002	0.0002	<0.0000762	<0.000769	<0.0000777	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.048	<0.001	0.0002 J
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.000124	<0.00125	<0.000126	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.095	<0.002	<0.00009
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	<0.000352	<0.00356	<0.000359	0.0018	0.00013 J	0.00011 J	<0.000037	0.000042 J	<0.000037	<0.000071	<0.048	<0.001	0.00047
Chrysene	0.91	2	<0.0000762	<0.000769	<0.0000777	0.000057 J	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	0.000028 J	<0.048	<0.001	0.00023
Dibenzofuran	0.098	0.29	<0.0000762	<0.000769	<0.0000823	0.0001	<0.00002	0.000054 J	<0.00002	0.000037 J	0.00019	<0.00011	0.239	2.13	0.25
Di-n-butylphthalate (DBP)	2.4	7.3	<0.000122	<0.00106	<0.000107	0.000082 J	<0.00002	0.000035 J	<0.00002	<0.00002	<0.00002	<0.00002	<0.048	<0.001	<0.00007
Fluoranthene	0.98	2.9	0.000418 J	<0.000673	<0.000605	0.00015	0.000075 J	0.000053 J	0.000067 J	0.000048 J	0.00023	0.0013	<0.048	0.0067	0.0082
Fluorene	0.98	2.9	0.000216 J	<0.000673	<0.000311	0.00011	<0.00003	0.000061 J	<0.00003	0.000044 J	0.00032	0.0014	<0.175	0.247	0.2
Naphthalene	0.49	1.5	<0.0000762	<0.000769	<0.0000777	0.00082	<0.00002	<0.0013	<0.000092	<0.00041	0.0023	<0.0011	9.34	94.2	9.7
Nitrobenzene	0.049	0.15	<0.000105	<0.00106	0.000853	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.095	<0.002	<0.00009
N-Nitrosodiphenylamine	0.19	0.42	0.000158 J	<0.000962	<0.0000971	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.06	<0.0012	<0.00009
Pentachlorophenol	0.001	0.001	<0.000581	<0.00587	<0.000592	<0.000079	<0.00008	<0.00008	<0.000079	<0.000079	<0.000079	<0.000079	<0.048	<0.001	<0.00008
Phenanthrene	0.73	2.2	0.0000912 J	<0.000577	<0.0001	<0.000021	<0.000021	0.000056 J	0.000039 J	<0.000021	0.00019	<0.000047	0.173	0.177	0.16
Phenol	7.3	22	<0.0000381	<0.000385	<0.0000388	<0.000035	<0.000035	<0.000035	<0.000035	<0.000035	<0.000035	<0.000035	<0.048	<0.001	<0.00007
Pyrene	0.73	2.2	0.000655	<0.00106	0.000818	0.00015	0.000074 J	0.000064 J	0.000052 J	0.000072 J	0.00022	0.00095	<0.048	0.0029	0.0043
Metals															
Arsenic	0.01	0.01				0.0108	0.00188 J	0.00178 J	0.00365	0.00144 J	0.00248	0.0489			

- Notes:
1. All values in milligrams per liter (mg/L).
 2. Concentrations > RAL and non-detects are highlighted light gray.
 3. Concentrations > C/I AL and non-detects are highlighted dark gray
 4. TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
 5. RAL = Residential Assessment Level, C/I = Commercial/Industrial
 6. J = Estimated value, < = not detected at the specified detection limit.
 7. MW-32A was screened in the B-CZ & replaced with MW-32AR
 8. Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-40B 01/19/2010	MW-40B 06/22/2010	MW-40B 01/18/2011	MW-40B 07/14/2011	MW-40B 02/03/2012	MW-40B 07/19/2012	MW-40B 02/05/2013	MW-40B 07/31/2013	MW-40B 01/14/2014	MW-40B 07/18/2014	MW-40B 01/24/2018	MW-40B 03/19/2018	MW-40B 05/16/2018
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.0005	<0.0005	<0.0005	<0.01	<0.01	<0.005	<0.00014	<0.0014	<0.0007	<0.00014	<0.0002	<0.0002	<0.001
Benzene	0.005	0.005	0.028	0.026	0.019	0.016 J	0.013 J	0.013 J	0.0108	0.0115	0.0109	0.0103	0.0091	0.0066	0.014
Chlorobenzene	0.1	0.1	<0.0005	<0.0005	<0.0005	<0.01	<0.01	<0.005	<0.00012	<0.0012	<0.0006	<0.00012	<0.0003	<0.0003	<0.0015
Ethylbenzene	0.7	0.7	0.12	0.12	0.13	0.081	0.08	0.082	0.0817	0.0798	0.084	0.0825	0.049	0.039	0.08
Methylene chloride	0.005	0.005	<0.0005	<0.0005	<0.0005	<0.013	<0.013	<0.01	<0.00015	<0.0015	<0.00075	<0.00015	<0.001	<0.001	<0.005
Toluene	1	1	0.054	0.05	0.045	0.019 J	0.028 J	0.022 J	0.0118	0.0173	0.0147	0.0154	0.0081	0.0049	0.019
Vinyl chloride	0.002	0.002							<0.00011			<0.00011			
Xylenes (total)	10	10	0.22	0.22	0.21	0.12 J	0.13 J	0.14 J	0.116	0.127	0.12	0.126	0.066	0.044	0.11
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.0001	<0.0001	<0.0001	<0.00005	<0.00005	<0.00005	<0.0104	<0.00524	<0.0212	<0.00109	<0.000021	<0.000021	<0.000021
2,4-Dimethylphenol	0.49	1.5	0.014	0.0044	0.00033 J	0.0034	0.004	0.0039	<0.0292	<0.0148	<0.0596	<0.00307	<0.00004	0.00034	<0.00004
2,4-Dinitrotoluene	0.0013	0.003	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.0123	<0.00619	<0.025	<0.00129	<0.000059	<0.000058	<0.000058
2,6-Dinitrotoluene	0.0013	0.003	<0.00007	<0.00007	<0.00007	<0.00006	<0.00006	<0.00006	<0.00755	<0.00381	<0.0154	<0.000792	<0.000042	<0.000042	<0.000042
2-Chloronaphthalene	2	5.8	<0.0001	<0.0001	<0.0001	<0.00005	<0.00005	<0.00005	<0.00755	<0.00381	<0.0154	<0.000792	<0.000021	<0.000021	<0.000021
2-Methylnaphthalene	0.098	0.29	0.49	0.41	0.27	0.24	0.2	0.28	0.302	0.309	0.35	0.263	0.13	0.056	0.091
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.0783	<0.0395	<0.16	<0.00822	<0.00002	<0.00002	<0.00002
4-Nitrophenol	0.049	0.15	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.0528	<0.0267	<0.108	<0.00554	<0.000047	<0.000047	0.0015
Acenaphthene	1.5	4.4	0.33	0.27	0.25	0.17	0.2	0.23	0.315	0.35	0.402	0.236	0.26	0.16	0.14
Acenaphthylene	1.5	4.4	0.0025	0.0031	0.0025	0.0019	0.0022	0.0021	<0.00566	<0.00286	<0.0115	0.00335 J	<0.000015	<0.000015	0.0014
Anthracene	7.3	22	0.0095	0.017	0.017	0.0097	0.019	0.007	0.0183 J	0.019 J	0.0247 J	0.0142	0.016	0.0082	0.0087
Benzo(a)anthracene	0.0091	0.02	0.0001 J	<0.00007	0.00016 J	<0.00005	0.000095 J	<0.00005	<0.00755	<0.00381	<0.0154	<0.000792	<0.000051	<0.00005	<0.00005
Benzo(a)pyrene	0.0002	0.0002	<0.00008	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005	<0.00755	<0.00381	<0.0154	<0.000792	<0.00002	<0.00002	<0.00002
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.0123	<0.00619	<0.025	<0.00129	<0.00003	<0.00003	<0.00003
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	0.0035	<0.0002	0.00075	<0.00053	0.00033	<0.00016	<0.0349	<0.0176	<0.0712	<0.00366	0.00038	<0.000037	0.00012 J
Chrysene	0.91	2	0.00011 J	<0.00007	0.00013 J	<0.00005	0.00011 J	<0.00005	<0.00755	<0.00381	<0.0154	<0.000792	<0.000021	<0.000021	<0.000021
Dibenzofuran	0.098	0.29	0.17	0.22	0.092	0.13	0.15	0.17	0.206	0.242	0.252	0.178	0.16	0.085	0.086
Di-n-butylphthalate (DBP)	2.4	7.3	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.0104	<0.00524	<0.0212	<0.00109	<0.00002	<0.00002	<0.00002
Fluoranthene	0.98	2.9	0.0067	0.0064	0.0068	0.0049	0.0042	0.0031	<0.0066	0.0104 J	<0.0135	0.00562	0.0081	0.0037	0.0034
Fluorene	0.98	2.9	0.15	0.17	0.093	0.13	0.13	0.15	0.175	0.212	0.217	0.183	0.18	0.096	0.1
Naphthalene	0.49	1.5	8	6.8	6.1	4	4.2	6	6.78	7.73	6.07	4.24	1.5	0.97	1.8
Nitrobenzene	0.049	0.15	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.0104	<0.00524	<0.0212	<0.00109	<0.000024	<0.000024	<0.000024
N-Nitrosodiphenylamine	0.19	0.42	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.00943	<0.00476	<0.0192	<0.00099	<0.000025	<0.000025	<0.000025
Pentachlorophenol	0.001	0.001	<0.00008	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005	<0.0575	<0.029	<0.117	<0.00604	<0.00008	<0.000079	<0.000079
Phenanthrene	0.73	2.2	0.12	0.15	0.083	0.11	0.08	0.1	0.137	0.158	0.197	0.111	0.14	0.078	0.1
Phenol	7.3	22	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.00377	<0.0019	<0.00769	<0.000396	<0.000035	<0.000035	0.00065
Pyrene	0.73	2.2	0.0033	0.0035	0.0039	0.0021	0.0033	0.0019	<0.0104	<0.00524	<0.0212	0.00242 J	0.0036	0.0019	0.0016
Metals															
Arsenic	0.01	0.01											0.0679	0.0606	0.0494

- Notes:
- All values in milligrams per liter (mg/L).
 - Concentrations > RAL and non-detects are highlighted light gray.
 - Concentrations > C/I AL and non-detects are highlighted dark gray
 - TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
 - RAL = Residential Assessment Level, C/I = Commercial/Industrial
 - J = Estimated value, < = not detected at the specified detection limit.
 - MW-32A was screened in the B-CZ & replaced with MW-32AR
 - Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-40B 01/08/2019	MW-40B 07/11/2019	MW-40B 01/13/2020	MW-40B 07/16/2020	MW-41B 01/31/2008 DNAPL	MW-41B 01/23/2020 DNAPL	MW-41B 07/29/2020	MW-42B 01/30/2008	MW-42B 01/19/2010	MW-42B 07/14/2011	MW-42B 02/03/2012	MW-42B 07/19/2012	MW-42B 02/05/2013
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.0002	<0.0002	<0.0002	<0.0002	<0.00052	<0.0002	<0.0002	<0.00052	<0.0005	<0.001	<0.001	<0.0025	<0.00014
Benzene	0.005	0.005	0.0063	0.0088	0.011	0.01	0.0103	0.012	0.016	0.00117 J	<0.0005	<0.001	<0.001	<0.0025	<0.00008
Chlorobenzene	0.1	0.1	<0.0003	<0.0003	<0.0003	<0.0003	<0.00047	<0.0003	<0.0003	<0.00047	<0.0005	<0.001	<0.001	<0.0025	<0.00012
Ethylbenzene	0.7	0.7	0.041	0.082	0.089	0.086	0.0508	0.066	0.052	0.00112 J	<0.0005	<0.0011	<0.0011	<0.0025	<0.000132
Methylene chloride	0.005	0.005	<0.001	<0.001	<0.001	<0.001	<0.00054	<0.001	<0.001	<0.00054	<0.0005	<0.0013	<0.0013	0.0097 J	<0.00015
Toluene	1	1	0.0048	0.014	0.022	0.016	0.0525	0.087	0.059	0.00181 J	<0.0005	<0.001	<0.001	<0.0025	<0.00015
Vinyl chloride	0.002	0.002						<0.0002							<0.00011
Xylenes (total)	10	10	0.052	0.13	0.16	0.12	0.127	0.16	0.12	0.00377 J	<0.001	<0.0031	<0.0031	<0.0075	<0.00026
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.000021	<0.000021	<0.000021	<0.000021	<0.0008	<0.000021	<0.00021	<0.00008	<0.0001	<0.00005	<0.00005	<0.00005	<0.000104
2,4-Dimethylphenol	0.49	1.5	<0.00004	0.0013	0.0013	<0.00004	0.104	0.043	0.021	<0.00029	<0.00008	0.00013 J	<0.00005	<0.00005	<0.000292
2,4-Dinitrotoluene	0.0013	0.003	<0.000058	<0.000058	<0.000058	<0.000058	<0.0019	<0.000058	<0.00058	<0.00019	<0.00009	<0.00005	<0.00005	<0.00005	<0.000123
2,6-Dinitrotoluene	0.0013	0.003	<0.000042	<0.000042	<0.000042	<0.000042	<0.0019	<0.000042	<0.00042	<0.00019	<0.00007	<0.00006	<0.00006	<0.00006	<0.0000755
2-Chloronaphthalene	2	5.8	<0.000021	<0.000021	<0.000021	<0.000021	<0.0038	<0.000021	<0.00021	<0.00039	<0.0001	<0.00005	<0.00005	<0.00005	<0.0000755
2-Methylnaphthalene	0.098	0.29	0.077	0.18	0.34	0.27	0.305	0.67 J	0.092	<0.00039	<0.00007	<0.00005	0.000089 J	0.00015 J	0.000196 J
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00002	<0.00002	<0.00002	<0.00002	<0.0019	<0.00002	<0.0002	<0.00019	<0.00008	<0.00008	<0.00008	<0.00008	<0.000783
4-Nitrophenol	0.049	0.15	<0.000047	<0.000047	<0.000047	<0.000047	<0.0024	<0.000047	<0.00047	<0.00024	<0.00007	<0.00005	<0.00005	<0.00005	<0.000528
Acenaphthene	1.5	4.4	0.12	0.21	0.39	0.27	0.161	0.49	0.062	<0.00029	0.00021	<0.00024	0.0017	0.00081	0.00036 J
Acenaphthylene	1.5	4.4	0.00083	0.0021	0.0021	0.0018	<0.0029	0.0089	0.0017	<0.00029	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000566
Anthracene	7.3	22	0.007	0.011	0.04	0.008	0.0191	0.045	0.013	<0.00019	<0.00007	0.00036	<0.00005	<0.00005	0.000194 J
Benzo(a)anthracene	0.0091	0.02	<0.00005	<0.00005	0.000094 J	0.000069 J	0.0036	0.004	0.0066	<0.00019	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000755
Benzo(a)pyrene	0.0002	0.0002	<0.00002	<0.00002	<0.00002	<0.00002	<0.0019	0.0009	0.0024	<0.00019	<0.00008	<0.00005	<0.00005	<0.00005	<0.0000755
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00003	<0.00003	<0.00003	<0.00003	<0.0038	<0.00003	<0.0003	<0.00039	<0.00009	<0.00005	<0.00005	<0.00005	<0.000123
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	0.000079 J	<0.000037	<0.000037	<0.000061	<0.0019	0.00032	0.00089 J	0.00135 J	0.00028	<0.0008	<0.0001	<0.00022	<0.000349
Chrysene	0.91	2	0.000045 J	<0.000021	0.000051 J	0.000051 J	0.003	0.0033	0.0052	<0.00019	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000755
Dibenzofuran	0.098	0.29	0.069	0.13	0.29	0.081	0.142	0.39	0.033	0.000699	0.00037	<0.00014	0.00016 J	0.000066 J	0.000217 J
Di-n-butylphthalate (DBP)	2.4	7.3	<0.00002	<0.00002	<0.00002	<0.000069	<0.0019	<0.00002	<0.0002	<0.00019	<0.00007	<0.00005	<0.00005	0.000062 J	<0.000104
Fluoranthene	0.98	2.9	0.0041	0.0059	0.017	0.0055	0.027	0.052	0.031	0.000697	0.00059	0.00024	0.00085	0.00041	0.000641
Fluorene	0.98	2.9	0.087	0.13	0.3	0.078	0.148	0.35	0.042	<0.00019	0.00016 J	<0.00026	0.0005	0.00016 J	<0.000066
Naphthalene	0.49	1.5	1.3	3.6	7.9	2.3	4.57	10	2.3	0.000725	0.00035	<0.00048	<0.00063	0.0019	0.000476
Nitrobenzene	0.049	0.15	<0.000024	<0.000024	<0.000024	<0.000024	<0.0038	<0.000024	<0.00024	<0.00039	<0.00009	<0.00005	<0.00005	<0.00005	<0.000104
N-Nitrosodiphenylamine	0.19	0.42	<0.000025	<0.000025	<0.000025	<0.000025	<0.0024	<0.000025	<0.00025	<0.00024	<0.00009	<0.00005	<0.00005	<0.00005	<0.0000943
Pentachlorophenol	0.001	0.001	<0.000079	<0.000079	<0.000079	<0.000079	<0.0019	<0.000079	<0.00079	<0.00019	<0.00008	<0.00005	<0.00005	<0.00005	<0.000575
Phenanthrene	0.73	2.2	0.068	0.093	0.22	0.066	0.161	0.41	0.087	<0.00019	<0.00007	<0.00016	0.00012 J	<0.00005	0.000356 J
Phenol	7.3	22	<0.000035	0.000053 J	<0.000035	<0.000035	0.00576	<0.000035	<0.00035	<0.00019	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000377
Pyrene	0.73	2.2	0.002	0.0024	0.0037	0.0026	0.017	0.029	0.019	0.000624	0.00035	0.00014 J	0.00044	0.00023	0.000369 J
Metals															
Arsenic	0.01	0.01	0.085	0.052	0.0523	0.0442		0.0842 J	0.0801						

Notes:

1. All values in milligrams per liter (mg/L).
2. Concentrations > RAL and non-detects are highlighted light gray.
3. Concentrations > C/I AL and non-detects are highlighted dark gray
4. TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
5. RAL = Residential Assessment Level, C/I = Commercial/Industrial
6. J = Estimated value, < = not detected at the specified detection limit.
7. MW-32A was screened in the B-CZ & replaced with MW-32AR
8. Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-42B 08/01/2013	MW-42B 01/15/2014	MW-42B 07/18/2014	MW-42B 01/24/2018	MW-42B 03/19/2018	MW-42B 05/16/2018	MW-42B 01/08/2019	MW-42B 07/11/2019	MW-42B 01/13/2020	MW-42B 07/16/2020	MW-44A 01/30/2008	MW-44A 07/14/2008	MW-44A 02/03/2009
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.00014	<0.0002	<0.00014	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.00052	<0.00052	<0.0005
Benzene	0.005	0.005	<0.00008	<0.0002	<0.00008	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	0.00751	0.00635	0.003 J
Chlorobenzene	0.1	0.1	<0.00012	<0.00018	<0.00012	<0.0003	<0.0003	<0.0015	<0.0003	<0.0003	<0.0003	<0.0003	<0.00047	<0.00047	<0.0005
Ethylbenzene	0.7	0.7	<0.00011	<0.00019	0.000208 J	<0.0003	<0.0003	<0.0015	<0.0003	<0.0003	<0.0003	<0.0003	0.00363 J	<0.00025	<0.0005
Methylene chloride	0.005	0.005	<0.00015	<0.00022	<0.00015	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.00054	<0.00054	<0.0005
Toluene	1	1	<0.00015	<0.00017	<0.00015	<0.0002	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.0002	0.002 J	<0.00041	<0.0005
Vinyl chloride	0.002	0.002			<0.00011										
Xylenes (total)	10	10	<0.00026	<0.00058	0.000349 J	<0.0003	<0.0003	<0.0015	<0.0003	<0.0003	<0.0003	<0.0003	0.0186	0.006 J	0.0013 J
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.000105	<0.000104	<0.000109	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.00008	<0.00008	<0.0001
2,4-Dimethylphenol	0.49	1.5	<0.000295	0.000916 J	0.000577	<0.00004	<0.00004	<0.00041	<0.00004	<0.00004	<0.00004	<0.00004	<0.0003	<0.00032	<0.00008
2,4-Dinitrotoluene	0.0013	0.003	<0.000124	<0.000123	<0.000129	<0.000059	<0.000058	<0.000059	<0.000058	<0.000058	<0.000058	<0.000058	<0.0002	<0.00021	<0.00009
2,6-Dinitrotoluene	0.0013	0.003	<0.0000762	<0.0000755	<0.0000792	<0.000042	<0.000042	0.012	<0.000042	<0.000042	<0.000042	0.0007	<0.0002	<0.00021	<0.00007
2-Chloronaphthalene	2	5.8	<0.0000762	<0.0000755	<0.0000792	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	0.000025 J	<0.0004	<0.00042	<0.00012
2-Methylnaphthalene	0.098	0.29	0.000141 J	0.000317 J	<0.0000693	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	0.000069 J	<0.000019	0.0244	0.00779	0.00097
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.000079	<0.0000783	<0.0000822	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.0002	<0.00021	<0.00008
4-Nitrophenol	0.049	0.15	<0.000533	<0.000528	<0.000554	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.00025	<0.00026	<0.00007
Acenaphthene	1.5	4.4	<0.0000762	0.000355 J	<0.0000792	<0.000027	<0.000027	0.000067 J	<0.000027	0.000068 J	0.00012	<0.000027	0.127	0.202	0.12
Acenaphthylene	1.5	4.4	<0.0000571	<0.0000566	<0.0000594	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.0003	<0.00032	0.0012
Anthracene	7.3	22	0.000122 J	0.000465 J	<0.0000495	0.000025 J	<0.000014	0.000019 J	<0.000014	0.000064 J	0.000049 J	0.000026 J	0.00195	0.00393	0.0046
Benzo(a)anthracene	0.0091	0.02	<0.0000762	<0.0000755	<0.0000792	<0.000051	<0.00005	<0.000051	<0.00005	<0.00005	<0.00005	<0.00005	<0.0002	<0.00021	<0.00007
Benzo(a)pyrene	0.0002	0.0002	<0.0000762	<0.0000755	<0.0000792	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	0.000027 J	<0.0002	<0.00021	<0.00008
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.000124	<0.000123	<0.000129	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.0004	<0.00042	<0.00009
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	<0.000352	<0.000349	0.000513	0.00025	0.00015 J	0.00021	0.000061 J	0.00015 J	0.00013 J	<0.00015	0.00097 J	<0.00021	0.00043
Chrysene	0.91	2	<0.0000762	<0.0000755	<0.0000792	0.000038 J	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	0.000022 J	<0.0002	<0.00021	<0.00007
Dibenzofuran	0.098	0.29	0.000131 J	0.000205 J	<0.0000792	<0.00002	<0.00002	0.000039 J	<0.00002	0.000038 J	0.000065 J	<0.00002	0.0642	0.125	0.054
Di-n-butylphthalate (DBP)	2.4	7.3	0.000108 J	<0.000104	<0.000109	0.00006 J	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.000026	<0.0002	<0.00021	<0.00007
Fluoranthene	0.98	2.9	0.000294 J	0.000339 J	<0.0000693	0.00024	0.00014	0.000016 J	0.00011	0.00004 J	0.00018	<0.000053	0.00269	0.00367	0.0032
Fluorene	0.98	2.9	0.000134 J	0.000198 J	<0.0000693	<0.00003	<0.00003	0.000047 J	<0.00003	0.000057 J	0.000067 J	<0.00003	0.045	0.0865	0.056
Naphthalene	0.49	1.5	0.00288 J	0.00242 J	0.000426 J	<0.00002	0.00049	<0.00061	<0.00002	<0.00043	<0.00076	<0.000031	0.816	0.287	0.021
Nitrobenzene	0.049	0.15	<0.000105	<0.000104	<0.000109	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.0004	<0.00042	<0.00009
N-Nitrosodiphenylamine	0.19	0.42	<0.0000952	<0.0000943	<0.000099	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.00025	<0.00026	<0.00009
Pentachlorophenol	0.001	0.001	<0.000581	<0.000575	<0.000604	<0.00008	<0.000079	<0.00008	<0.000079	<0.000079	<0.000079	<0.000079	<0.0002	<0.00021	<0.00008
Phenanthrene	0.73	2.2	0.000122 J	0.000501	<0.0000594	0.000077 J	<0.000021	0.000039 J	<0.000021	0.000034 J	0.00012	<0.000021	0.0161	0.0184	0.02
Phenol	7.3	22	<0.0000381	<0.0000377	0.000801	<0.000035	<0.000035	<0.000035	<0.000035	<0.000035	<0.000035	<0.000035	<0.0002	<0.00021	<0.00007
Pyrene	0.73	2.2	0.000127 J	0.000234 J	<0.000109	0.00023	0.00014	<0.000019	0.0001	0.000033 J	0.00013	0.000059 J	0.00159	0.00156	0.0016
Metals															
Arsenic	0.01	0.01				0.00186 J	0.00108 J	0.00112 J	0.00216	0.0022	0.00133 J	0.00127 J			

- Notes:
1. All values in milligrams per liter (mg/L).
 2. Concentrations > RAL and non-detects are highlighted light gray.
 3. Concentrations > C/I AL and non-detects are highlighted dark gray
 4. TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
 5. RAL = Residential Assessment Level, C/I = Commercial/Industrial
 6. J = Estimated value, < = not detected at the specified detection limit.
 7. MW-32A was screened in the B-CZ & replaced with MW-32AR
 8. Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-44A 01/13/2010	MW-44A 06/30/2010	MW-44A 01/26/2011	MW-44A 07/20/2011	MW-44A 02/15/2012	MW-44A 07/25/2012	MW-44A 02/12/2013	MW-44A 08/05/2013	MW-44A 01/17/2014	MW-44A 08/28/2014	MW-44A 01/31/2018	MW-44A 03/26/2018	MW-44A 06/01/2018
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00014	<0.00014	<0.0002	<0.00014	<0.0002	<0.0002	<0.0002
Benzene	0.005	0.005	<0.0005	0.0026 J	<0.0005	0.002 J	0.0042 J	0.0044 J	0.00206	0.00849	0.00727	<0.00014	0.0042	<0.0002	<0.0002
Chlorobenzene	0.1	0.1	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00012	<0.00012	<0.00018	<0.00012	<0.0003	<0.0003	<0.0003
Ethylbenzene	0.7	0.7	<0.0005	<0.0005	<0.0005	<0.0011	<0.0011	<0.0005	0.000624 J	0.00172	0.00067	0.000344 J	<0.0003	<0.0003	<0.0003
Methylene chloride	0.005	0.005	<0.0005	<0.0005	<0.0005	<0.0013	<0.0013	<0.001	<0.00015	<0.00015	<0.00022	<0.00015	<0.001	<0.001	<0.001
Toluene	1	1	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	0.000252 J	<0.000705	0.000418 J	0.000329 J	<0.0002	<0.0002	<0.0002
Vinyl chloride	0.002	0.002	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00011	<0.00018	<0.00011	<0.00011	<0.0002	<0.0002	<0.0002
Xylenes (total)	10	10	<0.001	0.0026 J	<0.001	<0.0031	0.0052 J	0.0033 J	0.00469	0.0207	0.00805	0.00561	<0.0003	<0.0003	<0.0003
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.0001	<0.0001	<0.0001	<0.00005	<0.00005	<0.00005	<0.00105	<0.0011	<0.000106	<0.000108	<0.000021	<0.000021	<0.000021
2,4-Dimethylphenol	0.49	1.5	<0.00008	<0.00008	0.00081	<0.00005	<0.00005	<0.00005	<0.00295	<0.0031	<0.000298	<0.000304	<0.00004	<0.000041	<0.00004
2,4-Dinitrotoluene	0.0013	0.003	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.00124	<0.0013	<0.000125	<0.000127	0.00017 J	<0.000059	<0.000058
2,6-Dinitrotoluene	0.0013	0.003	<0.00007	<0.00007	<0.00007	<0.00006	<0.00006	<0.00006	<0.000762	<0.0008	<0.0000769	<0.0000784	<0.000042	<0.000043	<0.000042
2-Chloronaphthalene	2	5.8	<0.0001	<0.0001	<0.0001	<0.00005	<0.00005	<0.00005	<0.000762	<0.0008	<0.0000769	<0.0000784	<0.000021	<0.000021	<0.000021
2-Methylnaphthalene	0.098	0.29	0.00012 J	0.004 J	<0.00007	0.0023	0.0048	0.0095 J	<0.000667	0.109	0.0106	0.00902	<0.000093	<0.000019	<0.000019
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00079	<0.0083	<0.000798	<0.000814	<0.00002	<0.00002	<0.00002
4-Nitrophenol	0.049	0.15	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.00533	<0.0056	<0.000538	<0.000549	<0.000047	<0.000048	<0.000047
Acenaphthene	1.5	4.4	0.13	0.2	0.23	0.23	0.21	0.22	0.07	0.546	0.394	0.197	0.062	0.064	0.09
Acenaphthylene	1.5	4.4	0.00079	0.00096 J	0.0014	0.0013	0.001	0.0013	0.00276 J	<0.0006	<0.0000577	0.0014	0.00078	0.0006	<0.000015
Anthracene	7.3	22	0.0077	0.0067 J	0.00055	0.0058	0.0068	0.004	<0.000476	0.017	0.017	0.00868	0.00066	0.0024	0.0022
Benzo(a)anthracene	0.0091	0.02	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.000762	<0.0008	<0.0000769	<0.0000784	<0.00005	<0.000051	<0.00005
Benzo(a)pyrene	0.0002	0.0002	<0.00008	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005	<0.000762	<0.0008	<0.0000769	<0.0000784	<0.00002	<0.00002	<0.00002
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00009	0.00009 J	<0.00009	<0.00005	<0.00005	<0.00005	<0.00124	<0.0013	<0.000125	0.00014 J	<0.00003	<0.000031	<0.00003
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	<0.00031	<0.00028	0.00048	<0.00075	<0.00011	<0.0001	<0.00352	<0.0037	<0.000356	<0.000363	<0.0001	<0.000038	0.0001 J
Chrysene	0.91	2	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.000762	<0.0008	<0.0000769	<0.0000784	<0.000021	<0.000021	<0.000021
Dibenzofuran	0.098	0.29	0.0087	0.0043 J	0.00072	0.0014	0.001	0.0031	<0.000762	0.135	0.107	0.0159	0.00019	0.00029	<0.00002
Di-n-butylphthalate (DBP)	2.4	7.3	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.00105	<0.0011	<0.000106	<0.000108	<0.00002	<0.00002	<0.00002
Fluoranthene	0.98	2.9	0.0056	0.006 J	0.0014	0.0095	0.0094	0.0065	0.00257 J	0.0137	0.0154	0.00749	0.0067	0.0095	0.012
Fluorene	0.98	2.9	0.069	0.097	0.00027	0.094	0.11	0.091 J	0.00495	0.172	0.178	0.0987	0.024	0.03	0.039
Naphthalene	0.49	1.5	<0.0011	0.16	0.00035	0.042	0.32	0.39	<0.000941	1.72	0.235 J	0.0163	<0.00028	0.00036	0.00038
Nitrobenzene	0.049	0.15	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.00105	<0.0011	<0.000106	0.0012	<0.000024	<0.000024	<0.000024
N-Nitrosodiphenylamine	0.19	0.42	<0.00009	<0.00009	<0.00009	<0.00005	0.00065	<0.00005	<0.000952	<0.001	<0.0000962	<0.000098	<0.000025	<0.000026	<0.000025
Pentachlorophenol	0.001	0.001	<0.00008	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005	<0.00581	<0.0061	<0.000587	<0.000598	<0.000079	<0.000081	<0.000079
Phenanthrene	0.73	2.2	0.0055	0.0025 J	<0.00007	0.0047	0.0073	0.0064	<0.000571	0.0416	0.0438	0.0217	0.00012	0.00018	0.0002
Phenol	7.3	22	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	0.000062 J	<0.000381	<0.0004	<0.0000385	<0.0000392	<0.000035	<0.000036	<0.000035
Pyrene	0.73	2.2	0.0032	0.003 J	0.001	0.0046	0.0054	0.0038	0.00139 J	0.00732	0.0083	0.0041	0.0037	0.0069	0.0073
Metals															
Arsenic	0.01	0.01											0.0275	0.0169	0.0165

- Notes:
- All values in milligrams per liter (mg/L).
 - Concentrations > RAL and non-detects are highlighted light gray.
 - Concentrations > C/I AL and non-detects are highlighted dark gray
 - TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
 - RAL = Residential Assessment Level, C/I = Commercial/Industrial
 - J = Estimated value, < = not detected at the specified detection limit.
 - MW-32A was screened in the B-CZ & replaced with MW-32AR
 - Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-44A 01/22/2019	MW-44A 07/17/2019	MW-44A 01/09/2020	MW-44A 07/22/2020	MW-44C 01/29/2008 DNAPL	MW-44C 07/20/2011 DNAPL	MW-44C 07/18/2012 DNAPL	MW-44C 02/06/2013 DNAPL	MW-44C 01/15/2020	MW-44C 07/28/2020	MW-44C 08/18/2020	MW-45C 01/29/2008 DNAPL	MW-45C 01/20/2020
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.0002	<0.0002	<0.0002	<0.0002	<0.00052	<0.001	<0.005	<0.0014	<0.0002	<0.0002	<0.0002	<0.00052	<0.0002
Benzene	0.005	0.005	<0.0002	<0.0002	<0.0002	<0.0002	<0.00025	<0.001	<0.005	0.000964 J	<0.0002	<0.0002	<0.0002	0.0448	0.0005 J
Chlorobenzene	0.1	0.1	<0.0003	<0.0003	<0.0003	<0.0003	<0.00047	<0.001	<0.005	0.00293 J	<0.0003	<0.0003	<0.0003	<0.00047	<0.0003
Ethylbenzene	0.7	0.7	<0.0003	<0.0003	<0.0003	<0.0003	0.0204	<0.0011	0.32	0.233	<0.0003	0.024	0.111	0.00044 J	
Methylene chloride	0.005	0.005	<0.001	<0.001	<0.001	<0.001	<0.00054	<0.0013	<0.01	<0.0015	<0.001	<0.001	<0.00054	<0.001	
Toluene	1	1	<0.0002	<0.0002	<0.0002	<0.0002	0.0117	<0.001	0.16	0.0895	<0.0002	0.0099	0.112	<0.0002	
Vinyl chloride	0.002	0.002	<0.0002	<0.0002	<0.0002	<0.0002								<0.0002	
Xylenes (total)	10	10	<0.0003	<0.0003	<0.0003	<0.0003	0.0487	<0.0031	0.84	0.688	<0.0003	0.055	0.298	0.0051	
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.000021	<0.000021	<0.000021	0.00034 J	<0.0002	<0.00005	<0.00075	<0.529	<0.000021	<0.000021	<0.000021	<0.0002	<0.000085
2,4-Dimethylphenol	0.49	1.5	<0.00004	<0.00004	<0.00042	<0.00004	0.00219 J	<0.00005	<0.00075	<1.49	0.00011 J	<0.00004	<0.00004	0.0104	<0.00004
2,4-Dinitrotoluene	0.0013	0.003	<0.000058	<0.000058	<0.000058	<0.000058	<0.00039	<0.00005	<0.00075	<0.625	<0.000058	<0.000058	<0.000058	<0.0004	<0.000058
2,6-Dinitrotoluene	0.0013	0.003	<0.000042	<0.000042	<0.000042	<0.000042	<0.00039	<0.00006	<0.0009	<0.385	<0.000042	<0.000042	<0.000042	<0.0004	0.0022 J
2-Chloronaphthalene	2	5.8	<0.000021	<0.000021	<0.000021	<0.000021	<0.00078	<0.00005	<0.00075	<0.385	<0.000021	<0.000021	<0.000021	<0.0008	<0.000021
2-Methylnaphthalene	0.098	0.29	<0.000019	<0.000019	<0.00035	<0.000019	0.00551	<0.00005	62	1.15 J	0.00012	<0.000019	<0.000019	1.01	<0.00013
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00002	<0.00002	<0.00002	0.00011 J	<0.00039	<0.00008	<0.0012	<3.99	<0.00002	<0.00002	<0.00002	<0.0004	<0.00002
4-Nitrophenol	0.049	0.15	<0.000047	<0.000047	<0.000047	<0.000047	<0.00049	<0.00005	<0.00075	<2.69	<0.000047	<0.000047	<0.000047	<0.0005	0.000067 J
Acenaphthene	1.5	4.4	0.037	0.056	0.064	0.075 J	0.0531	0.00012 J	31	0.632 J	0.00045	<0.000027	0.472	0.000084 J	
Acenaphthylene	1.5	4.4	0.00036	0.00028	0.00097	<0.000015	0.00083	0.00097 J	0.29	<0.288	0.00065	<0.000015	0.0085	0.00037 J	
Anthracene	7.3	22	0.00044	0.00089	0.00027	0.00022 J	0.0131	0.00014 J	19	<0.24	0.0086	0.00015	0.18	0.009	
Benzo(a)anthracene	0.0091	0.02	<0.00005	0.000085 J	0.000054 J	<0.00005	0.00327	0.00017 J	3.5	<0.385	0.0018	0.00034	0.0416	0.00039	
Benzo(a)pyrene	0.0002	0.0002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00039	0.00022	0.87	<0.385	0.00065	0.00029	<0.0004	0.00042	
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00003	<0.00003	<0.00003	<0.00003	<0.00078	<0.00005	<0.00075	<0.625	<0.00003	<0.00003	<0.00003	<0.0008	<0.00003
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	<0.000037	<0.000025	<0.000037	<0.000037	0.00235 J	<0.00087	0.013	<1.78	0.0012	0.0002	<0.0004	0.00067 J	
Chrysene	0.91	2	0.000026 J	0.000052 J	<0.000021	<0.000021	0.00278	0.00032	3.3	<0.385	0.0022	0.0003	0.0347	0.00062	
Dibenzofuran	0.098	0.29	<0.00002	<0.00002	<0.00033	<0.00002	0.046	<0.00005	38	0.453 J	0.00034	<0.00002	0.488	0.00075 J	
Di-n-butylphthalate (DBP)	2.4	7.3	<0.00002	<0.00002	<0.00002	<0.00002	<0.00039	<0.00005	<0.00075	<0.529	0.0016	<0.00002	<0.0004	<0.00002	
Fluoranthene	0.98	2.9	0.0058	0.0091	0.0059	0.0025 J	0.0264	0.00016 J	28	<0.337	0.0095	0.00077	0.384	0.00062	
Fluorene	0.98	2.9	0.0097	0.014	0.0078	0.02 J	0.0346	<0.00005	26	<0.337	0.00067	<0.00003	0.357	0.00023	
Naphthalene	0.49	1.5	0.00011	<0.00019	<0.003	<0.00016	<0.00078	<0.00016	230	18 J	0.000097 J	<0.00002	6.05	<0.00061	
Nitrobenzene	0.049	0.15	<0.000024	<0.000024	<0.000024	<0.000024	<0.00078	<0.00005	<0.00075	<0.529	<0.000024	<0.000024	<0.0008	<0.000024	
N-Nitrosodiphenylamine	0.19	0.42	<0.000025	<0.000025	<0.000025	<0.000025	<0.00049	<0.00005	<0.00075	<0.481	<0.000025	<0.000025	<0.0005	<0.000025	
Pentachlorophenol	0.001	0.001	<0.000079	<0.000079	<0.000079	<0.000079	<0.00039	<0.00005	<0.00075	<2.93	<0.000079	<0.000079	<0.00008	<0.00079	
Phenanthrene	0.73	2.2	<0.000021	0.00012	<0.00022	<0.000021	0.0668	0.000081 J	88	0.498 J	0.0077	0.0003	0.903	<0.00027	
Phenol	7.3	22	<0.000035	<0.000035	<0.00013	<0.000035	<0.00039	<0.00005	<0.00075	<0.192	<0.000035	<0.000035	<0.0004	<0.000035	
Pyrene	0.73	2.2	0.0033	0.0057	0.0045	0.0022 J	0.0159	0.00013 J	19	<0.529	0.006	0.00057	0.234	0.00068	
Metals															
Arsenic	0.01	0.01	0.0101	0.0303	0.00966	0.0321					0.00314	0.00752			0.00073 J

Notes:

- All values in milligrams per liter (mg/L).
- Concentrations > RAL and non-detects are highlighted light gray.
- Concentrations > C/I AL and non-detects are highlighted dark gray
- TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
- RAL = Residential Assessment Level, C/I = Commercial/Industrial
- J = Estimated value, < = not detected at the specified detection limit.
- MW-32A was screened in the B-CZ & replaced with MW-32AR
- Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
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CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-45C 07/22/2020	MW-46C 01/30/2008 DNAPL	MW-46C 01/15/2020	MW-46C 07/22/2020	MW-47A 03/20/2020	MW-47A 06/01/2020	MW-47A 07/21/2020	MW-47C 07/14/2008	MW-47C 02/04/2009	MW-47C 01/20/2010	MW-47C 06/24/2010	MW-47C 01/19/2011	MW-47C 07/21/2011
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.0002	<0.00052	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00109	<0.0005	<0.0005	<0.0005	<0.0005	<0.001
Benzene	0.005	0.005	0.0026	0.0222	0.028	0.0037	<0.0002	<0.0002	<0.0002	<0.00112	<0.0005	<0.0005	<0.0005	<0.0005	<0.001
Chlorobenzene	0.1	0.1	<0.0003	<0.00047	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0015	<0.0005	<0.0005	<0.0005	<0.0005	<0.001
Ethylbenzene	0.7	0.7	0.011	0.0249	0.051	0.018	<0.0003	<0.0003	<0.0003	<0.00142	<0.0005	<0.0005	<0.0005	<0.0005	<0.0011
Methylene chloride	0.005	0.005	<0.001	<0.00054	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00122	<0.0005	<0.0005	<0.0005	<0.0005	<0.0013
Toluene	1	1	0.0094	0.0167	0.0047	<0.0014	<0.0002	<0.0002	<0.0002	<0.00138	<0.0005	<0.0005	<0.0005	<0.0005	<0.001
Vinyl chloride	0.002	0.002													
Xylenes (total)	10	10	0.029	0.0377	0.11	0.047	<0.0003	<0.0003	<0.0003	<0.00302	<0.001	<0.001	<0.001	<0.001	<0.0031
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.000021	<0.0004	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.00008	<0.0001	<0.0001	<0.0001	<0.0001	<0.00005
2,4-Dimethylphenol	0.49	1.5	<0.00004	<0.0014	0.00016 J	<0.00004	<0.00004	<0.00004	0.0002 J	<0.00032	<0.00008	<0.00008	0.00011 J	<0.00008	<0.00005
2,4-Dinitrotoluene	0.0013	0.003	<0.000058	<0.00096	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.00021	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005
2,6-Dinitrotoluene	0.0013	0.003	<0.000042	<0.00096	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.00021	<0.00007	<0.00007	<0.00007	<0.00007	<0.00006
2-Chloronaphthalene	2	5.8	<0.000021	<0.0019	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.00042	<0.00012	<0.0001	<0.0001	<0.0001	<0.00005
2-Methylnaphthalene	0.098	0.29	0.044 J	0.0825	0.2	0.059 J	<0.000019	<0.000019	<0.000019	<0.00042	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00002	<0.00096	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00021	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008
4-Nitrophenol	0.049	0.15	<0.000047	<0.0012	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.00026	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005
Acenaphthene	1.5	4.4	0.035 J	0.0635	0.16	0.054 J	<0.000027	<0.000027	<0.000027	<0.00032	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005
Acenaphthylene	1.5	4.4	<0.000015	<0.0014	0.0016	<0.000015	<0.000015	<0.000015	<0.000015	<0.00032	<0.00006	<0.00007	<0.00007	<0.00007	<0.00005
Anthracene	7.3	22	0.025 J	0.0222	0.073	0.026 J	<0.000014	<0.000014	<0.000014	<0.00021	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005
Benzo(a)anthracene	0.0091	0.02	0.0048 J	0.00597	0.0071	0.0051 J	<0.00005	<0.00005	<0.00005	<0.00021	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005
Benzo(a)pyrene	0.0002	0.0002	0.0016 J	0.00215	0.0021	0.0019 J	<0.00002	<0.00002	<0.00002	<0.00021	<0.00008	0.000099 J	<0.00008	<0.00008	<0.00005
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00003	<0.0019	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00042	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	<0.000037	<0.00096	0.0011	0.00032 J	0.00011 J	0.000086 J	0.00025	<0.00021	0.0036	<0.00065	<0.00021	<0.0002	0.0001 J
Chrysene	0.91	2	0.0041 J	0.00521	0.0068	0.004 J	<0.000021	<0.000021	<0.000021	<0.00021	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005
Dibenzofuran	0.098	0.29	0.033 J	0.0636	0.16	0.05 J	<0.00002	<0.00002	<0.00002	<0.00032	<0.00008	<0.00008	<0.00008	<0.00008	<0.00005
Di-n-butylphthalate (DBP)	2.4	7.3	<0.00002	<0.00096	<0.00002	<0.00002	0.000076 J	<0.00002	0.000046 J	<0.00021	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005
Fluoranthene	0.98	2.9	0.042 J	0.0426	0.084	0.049 J	<0.00001	<0.00001	0.000067 J	<0.00021	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005
Fluorene	0.98	2.9	0.031 J	0.048	0.12	0.042 J	<0.00003	<0.00003	<0.00003	<0.00021	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005
Naphthalene	0.49	1.5	0.27 J	1.1	1.8	0.29 J	<0.00002	<0.00002	0.00025	<0.00042	0.00019 J	<0.0001	0.00046	0.00021	<0.00005
Nitrobenzene	0.049	0.15	<0.000024	<0.0019	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.00042	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005
N-Nitrosodiphenylamine	0.19	0.42	<0.000025	<0.0012	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.00026	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005
Pentachlorophenol	0.001	0.001	<0.000079	<0.00096	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.00021	<0.00008	0.0004	<0.00008	<0.00008	<0.00005
Phenanthrene	0.73	2.2	0.14 J	0.119	0.24	0.14 J	<0.000021	<0.000021	0.00011	<0.00021	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005
Phenol	7.3	22	<0.000035	0.0133	<0.000035	<0.000035	<0.000035	<0.000035	0.000093 J	<0.00021	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005
Pyrene	0.73	2.2	0.026 J	0.0252	0.053	0.028 J	<0.000019	<0.000019	0.000042 J	<0.00021	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005
Metals															
Arsenic	0.01	0.01	<0.0004		0.00272	0.000899 J	0.000566 J	0.000699 J	<0.0004						

- Notes:
- All values in milligrams per liter (mg/L).
 - Concentrations > RAL and non-detects are highlighted light gray.
 - Concentrations > C/I AL and non-detects are highlighted dark gray
 - TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
 - RAL = Residential Assessment Level, C/I = Commercial/Industrial
 - J = Estimated value, < = not detected at the specified detection limit.
 - MW-32A was screened in the B-CZ & replaced with MW-32AR
 - Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-47C 02/07/2012	MW-47C 07/27/2012	MW-47C 02/07/2013	MW-47C 08/06/2013	MW-47C 01/17/2014	MW-47C 07/30/2014	MW-47C 01/23/2019	MW-47C 07/17/2019	MW-47C 01/16/2020	MW-47C 07/16/2020	MW-48C 01/29/2008	MW-48C 01/29/2008	MW-48C 07/14/2008
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.001	<0.0005	<0.00014	<0.00014	<0.0002	<0.00014	<0.0002	<0.0002	<0.0002	<0.0002	<0.00052	<0.00052	<0.00109
Benzene	0.005	0.005	<0.001	<0.0005	<0.00008	<0.00008	<0.0002	<0.00008	<0.0002	<0.0002	<0.0002	<0.0002	<0.00025	<0.00025	<0.00112
Chlorobenzene	0.1	0.1	<0.001	<0.0005	<0.00012	<0.00012	<0.00018	<0.00012	<0.0003	<0.0003	<0.0003	<0.0003	<0.00047	<0.00047	<0.0015
Ethylbenzene	0.7	0.7	<0.0011	<0.0005	<0.00011	<0.00011	<0.00019	<0.00011	<0.0003	<0.0003	<0.0003	<0.0003	<0.00025	<0.00025	<0.00142
Methylene chloride	0.005	0.005	<0.0013	<0.001	<0.00015	<0.00015	<0.00022	<0.00015	<0.001	<0.001	<0.001	<0.001	<0.00054	<0.00054	<0.00122
Toluene	1	1	<0.001	<0.0005	<0.00015	<0.00015	<0.00017	<0.00015	<0.0002	<0.0002	<0.0002	<0.0002	<0.00041	<0.00041	<0.00138
Vinyl chloride	0.002	0.002													
Xylenes (total)	10	10	<0.0031	<0.0015	<0.00026	<0.00026	<0.00058	<0.00026	<0.0003	<0.0003	<0.0003	<0.0003	<0.00127	<0.00127	<0.00302
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.00005	<0.00005	<0.000105	<0.00011	R	<0.000104	<0.000021	<0.000021	<0.000021	<0.000021	<0.00008	<0.00008	<0.00009
2,4-Dimethylphenol	0.49	1.5	<0.00005	0.00042	R	<0.00031	R	<0.000292	0.000095 J	<0.00004	0.0002	<0.00004	<0.00029	<0.00029	<0.00033
2,4-Dinitrotoluene	0.0013	0.003	<0.00005	<0.00005	<0.000124	<0.00013	R	<0.000123	<0.000058	<0.000058	<0.000058	<0.000058	<0.00019	<0.00019	<0.00022
2,6-Dinitrotoluene	0.0013	0.003	<0.00006	<0.00006	<0.0000762	<0.00008	R	<0.0000755	<0.000042	<0.000042	<0.000042	<0.000042	<0.00019	<0.00019	<0.00022
2-Chloronaphthalene	2	5.8	<0.00005	<0.00005	<0.0000762	<0.00008	R	<0.0000755	<0.000021	<0.000021	<0.000021	<0.000021	<0.00038	<0.00038	<0.00044
2-Methylnaphthalene	0.098	0.29	0.0044	<0.00005	0.000098 J	<0.00007	R	<0.000066	<0.000019	<0.000019	<0.0001	<0.000019	<0.00038	<0.00038	<0.00044
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00008	<0.00008	R	<0.00083	R	<0.000783	<0.00002	<0.00002	<0.00002	<0.00002	<0.00019	<0.00019	<0.00022
4-Nitrophenol	0.049	0.15	<0.00005	<0.00005	<0.000533	<0.00056	R	<0.000528	<0.000047	<0.000047	<0.000047	<0.000047	<0.00024	<0.00024	<0.00028
Acenaphthene	1.5	4.4	0.00017 J	0.000058 J	<0.0000762	<0.00008	R	<0.0000755	<0.000027	<0.000027	<0.000057	<0.000027	<0.00029	<0.00029	<0.00033
Acenaphthylene	1.5	4.4	<0.00005	<0.00005	<0.0000571	<0.00006	R	<0.0000566	<0.000015	<0.000015	<0.000015	<0.000015	<0.00029	<0.00029	<0.00033
Anthracene	7.3	22	0.000074 J	<0.00005	0.000107 J	<0.00005	R	<0.0000472	<0.000014	<0.000014	<0.000014	<0.000014	0.000584	0.000589	<0.00022
Benzo(a)anthracene	0.0091	0.02	<0.00005	<0.00005	0.000137 J	<0.00008	R	<0.0000755	<0.00005	<0.00005	<0.00005	<0.00005	<0.00019	<0.00019	<0.00022
Benzo(a)pyrene	0.0002	0.0002	<0.00005	<0.00005	0.000306 J	<0.00008	R	<0.0000755	<0.00002	<0.00002	0.00004 J	<0.00002	<0.00019	<0.00019	<0.00022
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00005	<0.00005	<0.000124	<0.00013	R	<0.000123	<0.00003	<0.00003	<0.00003	<0.00003	<0.00038	<0.00038	<0.00044
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	0.011	<0.0001	0.000594	<0.00037	R	<0.000349	<0.000056	<0.00027	0.00079	<0.0002	0.00045 J	<0.00019	0.00028 J
Chrysene	0.91	2	<0.00005	<0.00005	0.000127 J	<0.00008	R	<0.0000755	<0.000021	<0.000021	0.00006 J	<0.000021	<0.00019	<0.00019	<0.00022
Dibenzofuran	0.098	0.29	<0.00005	<0.00005	0.000104 J	<0.00008	R	<0.0000755	0.000034 J	<0.00002	<0.000049	<0.00002	0.00031 J	<0.00029	<0.00033
Di-n-butylphthalate (DBP)	2.4	7.3	0.00015 J	<0.00005	<0.000105	<0.00011	R	<0.000104	<0.00002	<0.00002	0.0014	0.00089	<0.00019	<0.00019	<0.00022
Fluoranthene	0.98	2.9	<0.00005	<0.00005	0.000289 J	0.000186 J	0.0000718 J	<0.000066	0.000028 J	<0.00001	<0.000037	<0.000037	0.00047 J	0.000687	0.00033 J
Fluorene	0.98	2.9	0.00025	<0.00005	0.000116 J	<0.00007	R	<0.000066	<0.00003	<0.00003	<0.000042	<0.00003	<0.00019	<0.00019	<0.00022
Naphthalene	0.49	1.5	0.0041	0.00046	<0.000401	<0.00008	0.000297 J	<0.0000755	0.00083	<0.00002	<0.00056	<0.00002	0.00119	0.00062	<0.00044
Nitrobenzene	0.049	0.15	<0.00005	<0.00005	<0.000105	<0.00011	R	<0.000104	<0.000024	<0.000024	<0.000024	<0.000024	<0.00038	<0.00038	<0.00044
N-Nitrosodiphenylamine	0.19	0.42	<0.00005	<0.00005	<0.0000952	<0.0001	R	<0.0000943	<0.000025	<0.000025	<0.000025	<0.000025	<0.00024	<0.00024	<0.00028
Pentachlorophenol	0.001	0.001	<0.00005	<0.00005	R	<0.00061	R	<0.000575	<0.000079	<0.000079	<0.000079	<0.000079	<0.00019	<0.00019	<0.00022
Phenanthrene	0.73	2.2	0.0003	<0.00005	0.000406 J	<0.00006	0.000185 J	<0.0000566	0.000052 J	<0.000021	<0.000088	<0.000022	0.00046 J	0.00043 J	<0.00022
Phenol	7.3	22	0.00044	0.00056	R	<0.00004	R	<0.0000377	<0.000035	<0.000035	<0.000035	<0.000035	<0.00019	<0.00019	<0.00022
Pyrene	0.73	2.2	0.00015 J	<0.00005	0.000388 J	0.000131 J	R	<0.000104	0.000021 J	<0.000019	<0.0001	0.000022 J	0.00039 J	0.000528	<0.00022
Metals															
Arsenic	0.01	0.01							<0.0004	0.00044 J	0.00234	0.00142 J			

Notes:

- All values in milligrams per liter (mg/L).
- Concentrations > RAL and non-detects are highlighted light gray.
- Concentrations > C/I AL and non-detects are highlighted dark gray
- TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
- RAL = Residential Assessment Level, C/I = Commercial/Industrial
- J = Estimated value, < = not detected at the specified detection limit.
- MW-32A was screened in the B-CZ & replaced with MW-32AR
- Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-48C 02/04/2009	MW-48C 01/21/2010	MW-48C 06/24/2010	MW-48C 07/15/2010	MW-48C 01/19/2011	MW-48C 07/18/2011	MW-48C 02/06/2012	MW-48C 07/24/2012	MW-48C 01/31/2013	MW-48C 08/01/2013	MW-48C 01/16/2014	MW-48C 07/16/2014	MW-48C 01/28/2018
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00014	<0.00014	<0.0002	<0.00014	<0.0002
Benzene	0.005	0.005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00008	<0.00008	<0.0002	<0.00008	<0.0002
Chlorobenzene	0.1	0.1	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00012	<0.00012	<0.00018	<0.00012	<0.0003
Ethylbenzene	0.7	0.7	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0011	<0.0011	<0.0005	<0.00011	<0.00011	<0.00019	<0.00011	<0.0003
Methylene chloride	0.005	0.005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0013	<0.0013	<0.001	<0.00015	<0.00015	<0.00022	<0.00015	<0.001
Toluene	1	1	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00015	<0.00015	<0.00017	<0.00015	<0.0002
Vinyl chloride	0.002	0.002											<0.00018		
Xylenes (total)	10	10	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0031	<0.0031	<0.0015	<0.00026	<0.00026	<0.00058	<0.00026	<0.0003
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.0001	<0.0001	<0.0005	<0.0001	<0.0001	<0.00005	<0.00005	<0.00005	<0.000104	<0.000105	<0.000104	<0.000104	<0.000021
2,4-Dimethylphenol	0.49	1.5	<0.00008	<0.00008	0.0073	<0.00008	<0.00008	<0.00005	<0.00005	0.00014 J	<0.000292	<0.000295	<0.000292	<0.000292	<0.00004
2,4-Dinitrotoluene	0.0013	0.003	<0.00009	<0.00009	<0.00045	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.000123	<0.000124	<0.000123	<0.000123	<0.000058
2,6-Dinitrotoluene	0.0013	0.003	<0.00007	<0.00007	<0.00035	<0.00007	<0.00007	<0.00006	<0.00006	<0.00006	<0.0000755	<0.0000762	<0.0000755	<0.0000755	<0.000042
2-Chloronaphthalene	2	5.8	<0.00012	<0.0001	<0.0005	<0.0001	<0.0001	<0.00005	<0.00005	<0.00005	<0.0000755	<0.0000762	<0.0000755	<0.0000755	<0.000021
2-Methylnaphthalene	0.098	0.29	<0.00007	<0.00007	0.18	<0.00007	<0.00007	<0.00005	<0.00005	0.0013	<0.000066	<0.0000667	<0.000066	<0.000066	<0.000019
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00008	<0.00008	<0.0004	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.000783	<0.00079	<0.000783	<0.000783	<0.00002
4-Nitrophenol	0.049	0.15	<0.00007	<0.00007	<0.00035	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.000528	<0.000533	<0.000528	<0.000528	<0.000047
Acenaphthene	1.5	4.4	<0.00009	<0.00009	0.073	<0.00009	<0.00009	<0.00005	<0.00005	0.0011	<0.0000755	<0.0000762	<0.0000755	<0.0000755	<0.000027
Acenaphthylene	1.5	4.4	<0.00006	<0.00007	0.014	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000566	<0.0000571	<0.0000566	<0.0000566	<0.000015
Anthracene	7.3	22	0.00012 J	<0.00007	0.007	<0.00007	<0.00007	<0.00005	<0.00005	0.00077	<0.0000472	<0.0000476	<0.0000472	<0.0000472	0.000025 J
Benzo(a)anthracene	0.0091	0.02	<0.00007	<0.00007	<0.00035	<0.00007	<0.00007	<0.00005	<0.00005	0.00066 J	<0.0000755	<0.0000762	<0.0000755	<0.0000755	<0.00005
Benzo(a)pyrene	0.0002	0.0002	<0.00008	<0.00008	<0.0004	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005	<0.0000755	<0.0000762	<0.0000755	<0.0000755	<0.00002
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00009	<0.00009	<0.00045	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.000123	<0.000124	<0.000123	<0.000123	<0.00003
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	0.00034	<0.0018	<0.001	0.0013	0.001	<0.00043	<0.0001	<0.00024	<0.000349	<0.000352	<0.000349	<0.000349	0.000079 J
Chrysene	0.91	2	<0.00007	<0.00007	<0.00035	<0.00007	<0.00007	<0.00005	<0.00005	0.000073 J	<0.0000755	<0.0000762	<0.0000755	<0.0000755	<0.000021
Dibenzofuran	0.098	0.29	0.00025	<0.00008	0.065	<0.00008	<0.00008	<0.00005	<0.00005	0.00096	<0.0000755	<0.0000762	<0.0000755	<0.0000755	<0.00002
Di-n-butylphthalate (DBP)	2.4	7.3	<0.00007	<0.00007	<0.00035	<0.00007	<0.00007	<0.00005	<0.00005	0.000053 J	<0.000104	<0.000105	<0.000104	<0.000104	<0.00002
Fluoranthene	0.98	2.9	<0.00007	0.00013 J	0.0021	0.00019 J	0.00019 J	<0.00013	<0.00005	0.00095	<0.000066	0.000134 J	0.000153 J	<0.000066	0.000049 J
Fluorene	0.98	2.9	<0.00007	<0.00007	0.032	<0.00007	<0.00007	<0.00005	<0.00005	0.0011	<0.000066	<0.0000667	<0.000066	<0.000066	<0.00003
Naphthalene	0.49	1.5	0.00052	0.0002 J	5	<0.0001	<0.0001	<0.00005	<0.00005	0.0071	<0.000495	<0.000158	<0.0000755	<0.0000755	<0.00002
Nitrobenzene	0.049	0.15	<0.00009	<0.00009	<0.00045	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.000104	<0.000105	<0.000104	<0.000104	<0.000024
N-Nitrosodiphenylamine	0.19	0.42	<0.00009	<0.00009	<0.00045	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.0000943	<0.0000952	<0.0000943	<0.0000943	<0.000025
Pentachlorophenol	0.001	0.001	<0.00008	<0.00008	0.019	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005	<0.0000575	<0.0000581	<0.0000575	<0.0000575	<0.000079
Phenanthrene	0.73	2.2	0.00032	<0.00007	0.03	<0.00007	<0.00007	<0.00005	<0.00005	0.0034	<0.0000566	<0.0000571	<0.0000566	<0.0000566	<0.000022
Phenol	7.3	22	<0.00007	<0.00007	0.024	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000377	<0.0000381	<0.0000377	<0.0000377	<0.000035
Pyrene	0.73	2.2	<0.00007	0.0001 J	0.001	0.00015 J	0.00012 J	<0.0001	<0.00005	0.00052	<0.000104	<0.000105	<0.000104	<0.000104	0.000052 J
Metals															
Arsenic	0.01	0.01													0.000831 J

Notes:

- All values in milligrams per liter (mg/L).
- Concentrations > RAL and non-detects are highlighted light gray.
- Concentrations > C/I AL and non-detects are highlighted dark gray
- TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
- RAL = Residential Assessment Level, C/I = Commercial/Industrial
- J = Estimated value, < = not detected at the specified detection limit.
- MW-32A was screened in the B-CZ & replaced with MW-32AR
- Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	<i>Residential Assessment Level</i>	<i>C/I PCL</i>	MW-48C 03/20/2018	MW-48C 05/24/2018	MW-48C 01/10/2019	MW-48C 07/17/2019	MW-48C 01/16/2020	MW-48C 07/16/2020	MW-49A 01/31/2008	MW-49A 07/15/2008	MW-49A 02/04/2009	MW-49A 01/21/2010	MW-49A 06/25/2010	MW-49A 01/20/2011	MW-49A 07/22/2011
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00052	<0.00052	<0.0005	<0.0005	<0.005	<0.005	<0.01
Benzene	0.005	0.005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0108	0.165	0.24	0.2	0.29	0.057	0.2
Chlorobenzene	0.1	0.1	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.00865	0.00702	0.0053	0.0024 J	<0.005	0.0084 J	<0.01
Ethylbenzene	0.7	0.7	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.0238	0.0837	0.084	0.085	0.14	0.04 J	0.094
Methylene chloride	0.005	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00054	<0.00054	<0.0005	<0.0005	<0.005	<0.005	<0.013
Toluene	1	1	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.00805	0.0415	0.077	0.083	0.13	0.021 J	0.11
Vinyl chloride	0.002	0.002												<0.005	<0.01
Xylenes (total)	10	10	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.0352	0.187	0.2	0.21	0.34	0.079 J	0.2
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.004	<0.002	<0.0001	<0.0001	<0.0005	<0.0001	<0.00005
2,4-Dimethylphenol	0.49	1.5	<0.00004	<0.00004	0.001	<0.00004	<0.00004	<0.00004	0.025	6.08	6.8	0.86	3.7	0.18	3
2,4-Dinitrotoluene	0.0013	0.003	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.0095	<0.004	<0.00009	<0.00009	<0.00045	<0.00009	<0.00005
2,6-Dinitrotoluene	0.0013	0.003	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	0.00031	<0.0095	<0.004	<0.00007	<0.00007	<0.00035	<0.00007	<0.00006
2-Chloronaphthalene	2	5.8	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.019	<0.008	<0.00012	<0.0001	<0.0005	<0.0001	<0.00005
2-Methylnaphthalene	0.098	0.29	<0.000019	<0.000019	0.00038	<0.000019	<0.000076	<0.000019	0.0693	0.492	0.6	0.35	0.44	0.13	0.27
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.0095	<0.01	<0.00008	<0.00008	<0.0004	<0.00008	<0.00008
4-Nitrophenol	0.049	0.15	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.012	<0.005	<0.00007	<0.00007	<0.00035	<0.00007	<0.00005
Acenaphthene	1.5	4.4	<0.000027	<0.000027	0.000098 J	<0.000027	<0.000073	<0.000027	0.215	0.468	0.32	0.2	0.21	0.13	0.13
Acenaphthylene	1.5	4.4	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.014	<0.006	0.0039	0.0032	0.0052	0.0018	0.0029
Anthracene	7.3	22	<0.000014	<0.000014	<0.000014	<0.000014	<0.000014	<0.000014	<0.0095	0.0164	0.01	0.0071	0.0099	0.0096	0.011
Benzo(a)anthracene	0.0091	0.02	0.000057 J	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.0095	<0.004	0.00066	<0.00007	<0.00035	<0.00007	<0.00005
Benzo(a)pyrene	0.0002	0.0002	<0.00002	<0.00002	<0.00002	<0.00002	0.000021 J	<0.00002	<0.0095	<0.004	0.00024	<0.00008	<0.0004	<0.00008	<0.00005
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.019	<0.008	<0.00009	<0.00009	<0.00045	<0.00009	<0.00005
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	0.00011 J	0.000063 J	<0.000037	<0.00003	0.000039 J	<0.000057	<0.0095	<0.004	0.0009	<0.0015	<0.001	<0.00029	<0.0001
Chrysene	0.91	2	0.000044 J	<0.000021	<0.000021	<0.000021	0.000029 J	<0.000021	<0.0095	<0.004	0.0006	<0.00007	<0.00035	<0.00007	<0.00005
Dibenzofuran	0.098	0.29	<0.00002	<0.00002	<0.00002	<0.00002	<0.000054	<0.00002	0.148	0.293	0.21	0.14	0.16	0.075	0.09
Di-n-butylphthalate (DBP)	2.4	7.3	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.000026	<0.0095	<0.004	<0.00007	<0.00007	<0.00035	<0.00007	<0.00005
Fluoranthene	0.98	2.9	0.000099 J	<0.00001	<0.00001	0.000035 J	<0.000061	<0.000052	<0.0095	0.0063	0.0058	0.0025	0.0034	0.0038	0.0033
Fluorene	0.98	2.9	<0.00003	<0.00003	<0.00003	<0.00003	<0.00005	<0.00003	0.102	0.205	0.15	0.11	0.13	0.073	0.092
Naphthalene	0.49	1.5	<0.00002	<0.00002	0.0085	<0.00002	<0.00052	<0.000071	2.13	11	9	5.1	10	1.8	7.4
Nitrobenzene	0.049	0.15	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.019	<0.008	<0.00009	<0.00009	<0.00045	<0.00009	<0.00005
N-Nitrosodiphenylamine	0.19	0.42	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.012	<0.005	<0.00009	<0.00009	<0.00045	<0.00009	<0.00005
Pentachlorophenol	0.001	0.001	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.0095	<0.004	<0.00008	<0.00008	<0.0004	<0.00008	<0.00005
Phenanthrene	0.73	2.2	<0.000021	<0.000021	<0.000021	<0.000021	<0.000052	<0.000021	0.0939	0.147	0.096	0.072	0.086	0.062	0.07
Phenol	7.3	22	<0.000035	<0.000035	0.002	0.000074 J	<0.000035	<0.000035	<0.0095	0.0111	<0.00007	0.00077	0.0011	0.0058	0.0095
Pyrene	0.73	2.2	0.000087 J	<0.000019	<0.000019	0.000036 J	<0.000065	0.000043 J	<0.0095	<0.004	0.0046	0.0017	0.0018	0.002	0.0016
Metals															
Arsenic	0.01	0.01	0.000581 J	0.000562 J	0.000924 J	0.00167 J	0.00126 J	0.00102 J							

- Notes:
- All values in milligrams per liter (mg/L).
 - Concentrations > RAL and non-detects are highlighted light gray.
 - Concentrations > C/I AL and non-detects are highlighted dark gray
 - TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
 - RAL = Residential Assessment Level, C/I = Commercial/Industrial
 - J = Estimated value, < = not detected at the specified detection limit.
 - MW-32A was screened in the B-CZ & replaced with MW-32AR
 - Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	<i>Residential Assessment Level</i>	<i>C/I PCL</i>	MW-49A 02/07/2012	MW-49A 07/26/2012	MW-49A 02/07/2013	MW-49A 08/01/2013	MW-49A 01/16/2014	MW-49A 07/16/2014	MW-49A 01/29/2018	MW-49A 04/01/2018	MW-49A 05/31/2018	MW-49A 01/23/2019	MW-49A 07/31/2019	MW-49A 01/07/2020	MW-49A 07/16/2020
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.05	<0.0005	<0.00014	<0.0014	<0.0002	<0.0028	<0.0002	<0.001	<0.0002	<0.0002	<0.0002	<0.002	<0.0002
Benzene	0.005	0.005	<0.05	0.042	0.114	0.094	0.0565	0.108	0.013	0.016	0.01	0.004	<0.0002	0.3	0.13
Chlorobenzene	0.1	0.1	<0.05	0.0037 J	0.299	0.476	0.304	0.211	<0.0003	<0.0015	<0.0003	<0.0003	<0.0003	0.0063 J	0.0027
Ethylbenzene	0.7	0.7	<0.055	0.037	0.0321	0.0499	0.0331	0.0701	0.01	0.01	0.0067	0.0031	<0.0003	0.1	0.077
Methylene chloride	0.005	0.005	<0.065	<0.001	<0.00015	<0.0015	<0.00022	0.0212	<0.001	<0.005	<0.001	<0.001	<0.001	<0.01	<0.001
Toluene	1	1	<0.05	0.031	0.0343	0.0347	0.0296	0.0593	0.003	0.0075	0.0065	0.0023	<0.0002	0.19	0.13
Vinyl chloride	0.002	0.002	<0.05	<0.0005	<0.00011	<0.0011	<0.00018	<0.0022	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.002	<0.0002
Xylenes (total)	10	10	<0.16	0.082	0.0777	0.106	0.0699	0.157	0.023	0.023	0.015	0.0087	<0.0003	0.24	0.18
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.00005	<0.00005	<0.00524	<0.0105	<0.00519	<0.0104	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021
2,4-Dimethylphenol	0.49	1.5	<0.00005	0.037	1.42	0.903	2.1 J	1.23	0.097	0.033	0.097	<0.00004	<0.00004	5.7	0.58
2,4-Dinitrotoluene	0.0013	0.003	<0.00005	<0.00005	<0.00619	<0.0124	<0.00613	<0.0123	<0.000058	<0.000059	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058
2,6-Dinitrotoluene	0.0013	0.003	<0.00006	<0.00006	<0.00381	<0.00762	<0.00377	<0.00755	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042
2-Chloronaphthalene	2	5.8	<0.00005	<0.00005	<0.00381	<0.00762	<0.00377	<0.00755	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021
2-Methylnaphthalene	0.098	0.29	<0.00005	<0.00005	0.218	0.216	0.267	0.293	0.000078 J	0.000067 J	0.0079	<0.000019	<0.000019	0.13	0.095
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00008	<0.00008	<0.0395	<0.079	<0.0392	<0.0783	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
4-Nitrophenol	0.049	0.15	<0.00005	<0.00005	<0.0267	<0.0533	<0.0264	<0.0528	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047
Acenaphthene	1.5	4.4	<0.00005	0.033	0.134	0.126	0.18	0.126	0.0036	0.0049	0.007	<0.000027	<0.000027	0.057	0.057
Acenaphthylene	1.5	4.4	<0.00005	0.0062	<0.00286	<0.00571	0.00528 J	<0.00566	0.00012	0.00012	0.00015	<0.000015	<0.000015	0.00097	0.0019
Anthracene	7.3	22	<0.00005	0.00076	0.00824 J	0.0119 J	0.0132 J	<0.00472	0.00028	0.00035	0.00062	<0.000014	<0.000014	0.0028	0.024
Benzo(a)anthracene	0.0091	0.02	<0.00005	<0.00005	<0.00381	<0.00762	<0.00377	<0.00755	<0.00005	<0.000051	<0.00005	<0.00005	<0.00005	<0.00005	0.0094
Benzo(a)pyrene	0.0002	0.0002	<0.00005	<0.00005	<0.00381	<0.00762	<0.00377	<0.00755	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	0.0045
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00005	<0.00005	<0.00619	<0.0124	<0.00613	<0.0123	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	<0.0001	0.0001 J	<0.0176	<0.0352	<0.0175	<0.0349	0.00013 J	0.00014 J	0.0002 J	<0.000055	<0.000037	<0.00011	<0.00018
Chrysene	0.91	2	<0.00005	<0.00005	<0.00381	<0.00762	<0.00377	<0.00755	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	0.0086
Dibenzofuran	0.098	0.29	<0.00005	0.0099	0.0851	0.0812	0.0902	0.0941	0.0021	0.0029	0.0049	<0.00002	<0.00002	0.037	0.044
Di-n-butylphthalate (DBP)	2.4	7.3	<0.00005	<0.00005	<0.00524	<0.0105	<0.00519	<0.0104	0.000069 J	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
Fluoranthene	0.98	2.9	<0.00005	0.0018	<0.00333	<0.00667	0.00521 J	<0.0066	0.00035	0.00039	0.00049	<0.00001	<0.00001	0.00056	0.046
Fluorene	0.98	2.9	<0.00005	0.015 J	0.0717	0.0662	0.0864	0.0651	0.0025	0.0027	0.0039	<0.00003	<0.00003	0.0027	0.046
Naphthalene	0.49	1.5	<0.00005	<0.00005	2.88	3.3	5.86	5.13	<0.00016	0.0002	0.046	0.000089 J	<0.00002	4.5	2
Nitrobenzene	0.049	0.15	<0.00005	<0.00005	<0.00524	<0.0105	<0.00519	<0.0104	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.00024	<0.000024
N-Nitrosodiphenylamine	0.19	0.42	<0.00005	<0.00005	<0.00476	<0.00952	<0.00472	<0.00943	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025
Pentachlorophenol	0.001	0.001	<0.00005	<0.00005	<0.029	<0.0581	<0.0288	<0.0575	<0.000079	<0.00008	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079
Phenanthrene	0.73	2.2	<0.00005	0.002	0.0455	0.0684	0.0564	0.0519	0.00066	0.00055	0.0034	<0.000021	<0.000021	0.016	0.22
Phenol	7.3	22	<0.00005	<0.00023	<0.0019	<0.00381	<0.00189	<0.00377	<0.000035	<0.000035	0.0001 J	<0.000035	0.00064	0.17	0.017
Pyrene	0.73	2.2	<0.00005	0.00095	<0.00524	<0.0105	<0.00519	<0.0104	0.00018	0.00029	0.00034	<0.000019	<0.000019	0.00052	0.03
Metals															
Arsenic	0.01	0.01							0.00163 J	0.00233	0.000922 J	0.0012 J	0.000658 J	0.00463	0.00113 J

Notes:

- All values in milligrams per liter (mg/L).
- Concentrations > RAL and non-detects are highlighted light gray.
- Concentrations > C/I AL and non-detects are highlighted dark gray
- TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
- RAL = Residential Assessment Level, C/I = Commercial/Industrial
- J = Estimated value, < = not detected at the specified detection limit.
- MW-32A was screened in the B-CZ & replaced with MW-32AR
- Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-50A 01/31/2008	MW-50A 07/16/2008	MW-50A 02/04/2009	MW-50A 01/20/2010	MW-50A 06/25/2010	MW-50A 01/27/2011	MW-50A 07/28/2011	MW-50A 02/09/2012	MW-50A 07/24/2012	MW-50A 04/02/2013	MW-50A 08/09/2013	MW-50A 01/29/2014	MW-50A 08/28/2014			
Volatile Organic Compounds																		
1,2-Dichloroethane	0.005	0.005	<0.00052	<0.00109	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005			
Benzene	0.005	0.005	<0.00025	<0.00112	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005			
Chlorobenzene	0.1	0.1	<0.00047	<0.0015	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005			
Ethylbenzene	0.7	0.7	<0.00025	<0.00142	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0011	<0.0011	<0.0005	<0.0005	<0.0005	<0.0005			
Methylene chloride	0.005	0.005	<0.00054	<0.00122	<0.0005	<0.0005	<0.0005	<0.0005	<0.0013	<0.0013	<0.0013	<0.0015	<0.0015	<0.0015	<0.0015			
Toluene	1	1	<0.00041	<0.00138	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005			
Vinyl chloride	0.002	0.002												<0.00011				
Xylenes (total)	10	10	<0.00127	<0.00302	<0.001	<0.001	<0.001	<0.001	<0.0031	<0.0031	<0.0031	<0.0015	<0.00026	<0.00026	<0.00026			
Semivolatile Organic Compounds																		
1,2-Diphenylhydrazine	0.0011	0.0026	<0.00008	<0.00009	<0.0001	<0.0001	<0.0001	<0.0001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.000106	<0.000108	<0.000104	<0.000109	
2,4-Dimethylphenol	0.49	1.5	<0.00029	<0.00033	<0.00008	<0.00008	<0.00008	<0.00008	<0.00005	<0.00005	0.000083 J	<0.000298	<0.000304	<0.000292	<0.000307	<0.000292	<0.000307	
2,4-Dinitrotoluene	0.0013	0.003	<0.00019	<0.00022	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.00005	<0.000125	<0.000127	<0.000123	<0.000129	<0.000129	
2,6-Dinitrotoluene	0.0013	0.003	<0.00019	<0.00022	<0.00007	<0.00007	<0.00007	<0.00007	<0.00006	<0.00006	<0.00006	<0.00006	<0.0000769	<0.0000784	<0.0000755	<0.0000792	<0.0000792	
2-Chloronaphthalene	2	5.8	<0.00038	<0.00044	<0.00012	<0.0001	<0.0001	<0.0001	<0.00005	<0.00005	<0.00005	<0.00005	<0.0000769	<0.0000784	<0.0000755	<0.0000792	<0.0000792	
2-Methylnaphthalene	0.098	0.29	<0.00038	<0.00044	<0.00007	<0.00007	<0.00007	0.00019 J	<0.00005	<0.00005	0.0039	0.000107 J	<0.0000686	0.000264 J	<0.0000693	<0.0000693	<0.0000693	
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00019	<0.00056	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.000798	<0.000814	<0.000783	<0.000822	<0.000822	
4-Nitrophenol	0.049	0.15	<0.00024	<0.00028	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.00005	<0.000538	<0.000549	<0.000528	<0.000554	<0.000554	
Acenaphthene	1.5	4.4	<0.00029	<0.00033	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	0.0029	<0.0000769	<0.0000784	<0.0000755	<0.0000792	<0.0000792	<0.0000792	
Acenaphthylene	1.5	4.4	<0.00029	<0.00033	<0.00006	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000577	<0.0000588	<0.0000566	<0.0000594	<0.0000594	<0.0000594	
Anthracene	7.3	22	<0.00019	<0.00022	0.00011 J	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	0.0006	<0.0000481	<0.000049	<0.0000472	<0.0000495	<0.0000495	<0.0000495	
Benzo(a)anthracene	0.0091	0.02	<0.00019	<0.00022	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	0.0000972 J	<0.0000784	<0.0000755	<0.0000792	<0.0000792	<0.0000792	
Benzo(a)pyrene	0.0002	0.0002	<0.00019	<0.00044	<0.00008	<0.00008	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005	0.00015 J	<0.0000784	<0.0000755	<0.0000792	<0.0000792	<0.0000792	
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00038	<0.00044	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.000125	<0.000127	<0.000123	<0.000129	<0.000129	<0.000129	
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	<0.00019	<0.00022	0.0035	<0.0002	<0.0003	0.00029	<0.00077	0.00032	<0.00012	0.000512	0.000409 J	<0.000349	<0.000366	<0.000366	<0.000366	
Chrysene	0.91	2	<0.00019	<0.00022	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	0.000157 J	<0.0000784	<0.0000755	<0.0000792	<0.0000792	<0.0000792	
Dibenzofuran	0.098	0.29	<0.00029	<0.00033	0.00025	<0.00008	<0.00008	0.00011 J	<0.00005	<0.00005	0.0024	<0.0000769	<0.0000784	0.000134 J	<0.0000792	<0.0000792	<0.0000792	
Di-n-butylphthalate (DBP)	2.4	7.3	<0.00019	<0.00022	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	0.000086 J	0.000194 J	0.000147 J	<0.000104	<0.000109	<0.000109	<0.000109	
Fluoranthene	0.98	2.9	<0.00019	<0.00022	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	0.00061	<0.0000673	<0.0000686	<0.000066	<0.0000693	<0.0000693	<0.0000693	
Fluorene	0.98	2.9	<0.00019	<0.00022	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	0.0022	<0.0000673	<0.0000686	<0.000066	<0.0000693	<0.0000693	<0.0000693	
Naphthalene	0.49	1.5	<0.00038	<0.00044	0.0003	<0.0001	<0.0004	0.0026 J	<0.00005	<0.00005	0.02	<0.0000769	0.000265 J	0.00129	0.00071	<0.00071	<0.00071	
Nitrobenzene	0.049	0.15	<0.00038	<0.00044	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.000106	<0.000108	<0.000104	<0.000109	<0.000109	<0.000109	
N-Nitrosodiphenylamine	0.19	0.42	<0.00024	<0.00028	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.0000962	<0.000098	<0.0000943	<0.000099	<0.000099	<0.000099	
Pentachlorophenol	0.001	0.001	<0.00019	<0.00022	<0.00008	<0.00008	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005	0.000921 J	<0.000598	<0.000575	<0.000604	<0.000604	<0.000604	
Phenanthrene	0.73	2.2	0.00026 J	<0.00022	0.00031	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	0.0045	0.000164 J	<0.0000588	0.0000703 J	<0.0000594	<0.0000594	<0.0000594	
Phenol	7.3	22	<0.00019	<0.00022	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	0.00038	<0.00005	<0.0000385	<0.0000392	<0.0000377	<0.0000396	<0.0000396	
Pyrene	0.73	2.2	<0.00019	<0.00022	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	0.00031	0.000138 J	<0.000108	<0.000104	<0.000109	<0.000109	<0.000109	
Metals																		
Arsenic	0.01	0.01																

- Notes:
- All values in milligrams per liter (mg/L).
 - Concentrations > RAL and non-detects are highlighted light gray.
 - Concentrations > C/I AL and non-detects are highlighted dark gray
 - TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
 - RAL = Residential Assessment Level, C/I = Commercial/Industrial
 - J = Estimated value, < = not detected at the specified detection limit.
 - MW-32A was screened in the B-CZ & replaced with MW-32AR
 - Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-50A	MW-50A	MW-50A	MW-50A	MW-50A	MW-50A	MW-50A	MW-50A	MW-50B	MW-50B	MW-50B	MW-50B	MW-51A
			01/30/2018	03/28/2018	04/01/2018	05/25/2018	01/10/2019	07/19/2019	01/09/2020	07/20/2020	03/12/2020	05/26/2020	05/26/2020	07/16/2020	01/31/2008
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Benzene	0.005	0.005	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Chlorobenzene	0.1	0.1	<0.0003		<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Ethylbenzene	0.7	0.7	<0.0003		<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Methylene chloride	0.005	0.005	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Toluene	1	1	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0033	0.001	<0.001	0.00048 J	<0.00041
Vinyl chloride	0.002	0.002													
Xylenes (total)	10	10	<0.0003		<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.0056	<0.0003	<0.0003	<0.0003	<0.00127
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.000021	<0.000021		<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000022	<0.000021	<0.000021	<0.000021	<0.00008
2,4-Dimethylphenol	0.49	1.5	<0.00004	<0.00004		<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.000042	<0.00004	<0.00004	<0.00004	<0.00029
2,4-Dinitrotoluene	0.0013	0.003	<0.000058	<0.000058		<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.00006	<0.000058	<0.000058	<0.000058	<0.00019
2,6-Dinitrotoluene	0.0013	0.003	<0.000042	<0.000042		<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000044	<0.000042	<0.000042	<0.000042	<0.00019
2-Chloronaphthalene	2	5.8	<0.000021	<0.000021		<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000022	<0.000021	<0.000021	<0.000021	<0.00038
2-Methylnaphthalene	0.098	0.29	<0.000019	<0.000019		<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	0.016	0.000036 J	0.000035 J	<0.00004	<0.00038
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00002	<0.00002		<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.000021	<0.00002	<0.00002	<0.00002	<0.00019
4-Nitrophenol	0.049	0.15	<0.000047	<0.000047		<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000049	<0.000047	<0.000047	<0.000047	<0.00024
Acenaphthene	1.5	4.4	<0.000027	<0.000027		<0.000027	<0.000027	<0.000027	<0.000027	<0.000027	0.02	0.0012	0.0012	0.00091	<0.00029
Acenaphthylene	1.5	4.4	<0.000015	<0.000015		<0.000015	<0.000015	<0.000015	0.000022 J	<0.000015	0.00028	0.00039	0.000029 J	<0.000015	<0.00029
Anthracene	7.3	22	<0.000014	<0.000014		<0.000014	<0.000014	<0.000014	<0.000014	<0.000014	0.0016	0.00038	0.00024	0.000078 J	<0.00019
Benzo(a)anthracene	0.0091	0.02	<0.00005	<0.00005		<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000052	<0.00005	<0.00005	<0.00005	<0.00019
Benzo(a)pyrene	0.0002	0.0002	<0.00002	<0.00002		<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.000021	<0.00002	<0.00002	<0.00002	<0.00019
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00003	<0.00003		<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.000031	<0.00003	<0.00003	<0.00003	<0.00038
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	<0.000037	<0.000037		0.0001 J	<0.000037	<0.000037	<0.000037	<0.000037	<0.000039	<0.000037	<0.000037	<0.000037	<0.00019
Chrysene	0.91	2	<0.000021	<0.000021		<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000022	<0.000021	<0.000021	<0.000021	<0.00019
Dibenzofuran	0.098	0.29	<0.00002	<0.00002		<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	0.015	0.00078	0.00082	0.00058	0.000566
Di-n-butylphthalate (DBP)	2.4	7.3	<0.00002	<0.00002		<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	0.000038 J	0.00016 J	0.00026	<0.000053	<0.00019
Fluoranthene	0.98	2.9	<0.00001	<0.00001		<0.00001	<0.00001	<0.00001	0.000052 J	<0.00001	0.0011	0.00033 J	0.00032 J	0.00011	<0.00019
Fluorene	0.98	2.9	<0.00003	<0.00003		<0.00003	<0.00003	<0.00003	<0.00011	<0.00003	0.011	0.00042	0.0004	<0.00026	0.000602
Naphthalene	0.49	1.5	<0.000046	<0.00002		0.00018	<0.00002	0.00027	<0.002	<0.00014	0.31	0.000037 J	0.000062 J	<0.000064	0.00182
Nitrobenzene	0.049	0.15	<0.000024	<0.000024		<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000025	<0.000024	<0.000024	<0.000024	<0.00038
N-Nitrosodiphenylamine	0.19	0.42	<0.000025	<0.000025		<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000026	<0.000025	<0.000025	<0.000025	<0.00024
Pentachlorophenol	0.001	0.001	<0.000079	<0.000079		<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.000082	<0.000079	<0.000079	<0.000079	<0.00019
Phenanthrene	0.73	2.2	<0.000021	<0.000021		<0.000021	<0.000021	<0.000021	<0.00007	0.000081 J	0.016	0.00096	0.00073	<0.00034	0.00097
Phenol	7.3	22	<0.000035	<0.000035		<0.000035	<0.000035	0.00016 J	<0.000066	<0.000035	<0.000036	<0.000035	<0.000035	<0.000035	0.00044 J
Pyrene	0.73	2.2	<0.000019	<0.000019		<0.000019	<0.000019	<0.000019	<0.000034	<0.000019	0.00059	0.00024	0.00021	0.000064 J	<0.00019
Metals															
Arsenic	0.01	0.01	0.00205		<0.0004	0.00857	0.00134 J	0.000642 J	0.000718 J	<0.0004	0.00372	0.00656	0.00657	0.00707	

Notes:

- All values in milligrams per liter (mg/L).
- Concentrations > RAL and non-detects are highlighted light gray.
- Concentrations > C/I AL and non-detects are highlighted dark gray
- TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
- RAL = Residential Assessment Level, C/I = Commercial/Industrial
- J = Estimated value, < = not detected at the specified detection limit.
- MW-32A was screened in the B-CZ & replaced with MW-32AR
- Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

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ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS

	<i>Residential Assessment Level</i>	<i>C/I PCL</i>	MW-51A 01/31/2008	MW-51A 02/04/2009	MW-51A 01/20/2010	MW-51A 06/24/2010	MW-51A 01/20/2011	MW-51A 07/28/2011	MW-51A 02/15/2012	MW-51A 07/24/2012	MW-51A 04/02/2013	MW-51A 08/09/2013	MW-51A 01/29/2014	MW-51A 07/24/2014	MW-51A 01/29/2018	
			Duplicate													
<i>Volatile Organic Compounds</i>																
1,2-Dichloroethane	0.005	0.005	<0.00052	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00014	<0.00014	<0.00014	<0.00014	<0.0002	
Benzene	0.005	0.005	<0.00025	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00008	<0.00008	<0.00008	<0.00008	<0.0002	
Chlorobenzene	0.1	0.1	<0.00047	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00012	<0.00012	<0.00012	<0.00012	<0.0003	
Ethylbenzene	0.7	0.7	<0.00025	<0.0005	<0.0005	<0.0005	<0.0005	<0.0011	<0.0011	<0.0005	<0.00011	<0.00011	<0.00011	<0.00011	<0.0003	
Methylene chloride	0.005	0.005	<0.00054	<0.0005	<0.0005	<0.0005	<0.0005	<0.0013	<0.0013	<0.001	<0.00015	<0.00015	<0.00015	<0.00015	<0.001	
Toluene	1	1	<0.00041	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00015	<0.00015	<0.00015	<0.00015	<0.0002	
Vinyl chloride	0.002	0.002								<0.0005	<0.00011	<0.00011	<0.00011	<0.00011		
Xylenes (total)	10	10	<0.00127	<0.001	<0.001	<0.001	<0.001	<0.0031	<0.0031	<0.0015	<0.00026	<0.00026	<0.00026	<0.00026	<0.0003	
<i>Semivolatile Organic Compounds</i>																
1,2-Diphenylhydrazine	0.0011	0.0026	<0.0002	<0.0001	<0.0001	<0.0001	<0.0001	<0.00005	<0.00005	<0.00005	<0.000106	<0.000108	<0.000104	<0.000104	<0.000021	
2,4-Dimethylphenol	0.49	1.5	<0.00057	<0.00008	<0.00008	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005	<0.000298	<0.000304	<0.000292	<0.000292	<0.00004	
2,4-Dinitrotoluene	0.0013	0.003	<0.00038	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.000125	<0.000127	<0.000123	<0.000123	<0.000058	
2,6-Dinitrotoluene	0.0013	0.003	<0.00038	<0.00007	<0.00007	<0.00007	<0.00007	<0.00006	<0.00006	<0.00006	<0.0000769	<0.0000784	0.00292	<0.0000755	<0.000042	
2-Chloronaphthalene	2	5.8	<0.00076	<0.00012	<0.0001	<0.0001	<0.0001	<0.00005	<0.00005	<0.00005	<0.0000769	<0.0000784	<0.0000755	<0.0000755	<0.000021	
2-Methylnaphthalene	0.098	0.29	<0.00076	<0.00007	<0.00007	0.00013 J	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000673	<0.0000686	<0.000066	<0.000066	0.000069 J	
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00038	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.0000798	<0.0000814	<0.0000783	<0.0000783	<0.00002	
4-Nitrophenol	0.049	0.15	<0.00048	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.000538	<0.000549	<0.000528	<0.000528	<0.000047	
Acenaphthene	1.5	4.4	<0.00057	<0.00009	<0.00009	0.00013 J	<0.00009	<0.00005	<0.00005	<0.00005	<0.0000769	<0.0000784	<0.0000755	<0.0000755	<0.000027	
Acenaphthylene	1.5	4.4	<0.00057	<0.00006	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000577	<0.0000588	<0.0000566	<0.0000566	<0.000015	
Anthracene	7.3	22	<0.00038	<0.00007	<0.00007	0.00017 J	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000481	<0.000049	<0.0000472	<0.0000472	<0.000014	
Benzo(a)anthracene	0.0091	0.02	<0.00038	<0.00007	<0.00007	0.00014 J	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000769	<0.0000784	<0.0000755	<0.0000755	<0.00005	
Benzo(a)pyrene	0.0002	0.0002	<0.00038	<0.00008	<0.00008	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005	<0.0000769	<0.0000784	<0.0000755	<0.0000755	<0.00002	
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00076	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.000125	<0.000127	<0.000123	<0.000123	<0.00003	
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	<0.00038	0.00034	<0.0019	<0.00035	<0.00029	<0.0018	<0.0001	<0.00033	<0.000356	<0.000363	0.00121	0.000804	<0.000037	
Chrysene	0.91	2	<0.00038	<0.00007	<0.00007	0.00013 J	<0.00007	<0.00005	<0.00005	0.00011 J	<0.0000769	<0.0000784	<0.0000755	<0.0000755	<0.000021	
Dibenzofuran	0.098	0.29	<0.00057	<0.00008	<0.00008	0.00012 J	<0.00008	<0.00005	<0.00005	<0.00005	<0.0000769	<0.0000784	<0.0000755	<0.0000755	<0.00002	
Di-n-butylphthalate (DBP)	2.4	7.3	<0.00038	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	0.00005 J	<0.000106	0.00011 J	<0.000104	<0.000104	<0.00002	
Fluoranthene	0.98	2.9	<0.00038	<0.00007	<0.00007	0.00072	<0.00007	<0.00005	<0.00005	0.00012 J	<0.0000673	<0.0000686	<0.000066	<0.000066	<0.00001	
Fluorene	0.98	2.9	0.00042 J	<0.00007	<0.00007	0.00011 J	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000673	<0.0000686	<0.000066	<0.000066	<0.00003	
Naphthalene	0.49	1.5	0.00131	0.00029	<0.0001	0.00087	<0.00011	<0.00005	<0.00005	<0.00005	<0.0000769	<0.0000784	0.000118 J	0.000162 J	<0.00018	
Nitrobenzene	0.049	0.15	<0.00076	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.000106	<0.000108	<0.000104	<0.000104	<0.000024	
N-Nitrosodiphenylamine	0.19	0.42	<0.00048	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.0000962	<0.000098	<0.0000943	<0.0000943	<0.000025	
Pentachlorophenol	0.001	0.001	<0.00038	<0.00008	<0.00008	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005	<0.000587	<0.000598	<0.000575	<0.000575	<0.000079	
Phenanthrene	0.73	2.2	0.00075	<0.00007	<0.00007	0.00068	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000577	0.0000699 J	<0.0000566	<0.0000566	<0.000021	
Phenol	7.3	22	<0.00038	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000385	<0.0000392	<0.0000377	<0.0000377	<0.000035	
Pyrene	0.73	2.2	<0.00038	<0.00007	<0.00007	0.00037	<0.00007	<0.00005	<0.00005	0.000088 J	<0.000106	<0.000108	<0.000104	<0.000104	<0.000019	
<i>Metals</i>																
Arsenic	0.01	0.01														<0.0004

Notes:

- All values in milligrams per liter (mg/L).
- Concentrations > RAL and non-detects are highlighted light gray.
- Concentrations > C/I AL and non-detects are highlighted dark gray
- TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
- RAL = Residential Assessment Level, C/I = Commercial/Industrial
- J = Estimated value, < = not detected at the specified detection limit.
- MW-32A was screened in the B-CZ & replaced with MW-32AR
- Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS

	Residential Assessment Level	C/I PCL	MW-51A 03/28/2018	MW-51A 05/24/2018	MW-51A 01/10/2019	MW-51A 07/19/2019	MW-51A 01/09/2020	MW-51A 07/16/2020	MW-51C 07/24/2014	MW-51C 01/29/2018	MW-51C 03/28/2018	MW-51C 05/24/2018	MW-51C 01/10/2019	MW-51C 07/19/2019	MW-51C 01/09/2020
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00014	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Benzene	0.005	0.005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.000104 J	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Chlorobenzene	0.1	0.1	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00012	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Ethylbenzene	0.7	0.7	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00011	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Methylene chloride	0.005	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Toluene	1	1	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00015	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Vinyl chloride	0.002	0.002	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00011	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Xylenes (total)	10	10	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00026	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000104	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021
2,4-Dimethylphenol	0.49	1.5	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.000292	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004
2,4-Dinitrotoluene	0.0013	0.003	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000123	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058
2,6-Dinitrotoluene	0.0013	0.003	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.0000755	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042
2-Chloronaphthalene	2	5.8	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.0000755	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021
2-Methylnaphthalene	0.098	0.29	<0.000019	<0.000019	<0.000019	0.000067 J	<0.000044	<0.000019	<0.000066	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.000783	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
4-Nitrophenol	0.049	0.15	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000528	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047
Acenaphthene	1.5	4.4	<0.000027	<0.000027	<0.000027	<0.000027	<0.000027	<0.000027	<0.0000755	<0.000027	<0.000027	<0.000027	<0.000027	<0.000027	<0.000027
Acenaphthylene	1.5	4.4	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.0000566	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015
Anthracene	7.3	22	<0.000014	<0.000014	<0.000014	<0.000014	<0.000063	0.000015 J	<0.0000472	<0.000014	<0.000014	<0.000014	<0.000014	<0.000014	<0.000014
Benzo(a)anthracene	0.0091	0.02	<0.000051	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.0000755	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Benzo(a)pyrene	0.0002	0.0002	<0.00002	0.000022 J	<0.00002	<0.00002	0.000027 J	<0.00002	<0.0000755	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.000123	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	0.000069 J	0.000069 J	0.000078 J	0.00013 J	<0.00014	<0.000042	0.00111	<0.000037	<0.000037	0.000073 J	0.00013 J	0.000079 J	<0.000085
Chrysene	0.91	2	<0.000021	<0.000021	<0.000021	<0.000021	0.000005 J	<0.000021	<0.0000755	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021
Dibenzofuran	0.098	0.29	<0.00002	<0.00002	<0.00002	0.00003 J	<0.000049	<0.00002	<0.0000755	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.000011
Di-n-butylphthalate (DBP)	2.4	7.3	<0.00002	0.000025 J	<0.00002	<0.00002	0.000034 J	<0.000036	<0.000104	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
Fluoranthene	0.98	2.9	<0.00001	<0.00001	<0.00001	<0.00001	0.00013	<0.000028	<0.000066	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.00018
Fluorene	0.98	2.9	<0.00003	<0.00003	<0.00003	<0.00003	<0.000043	<0.00003	<0.000066	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00011
Naphthalene	0.49	1.5	<0.00023	0.000087 J	0.00012	0.00055	<0.00032	<0.00002	0.000553	<0.0002	<0.00021	0.00029	0.00017	0.00023	<0.0003
Nitrobenzene	0.049	0.15	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000104	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024
N-Nitrosodiphenylamine	0.19	0.42	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.0000943	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025
Pentachlorophenol	0.001	0.001	<0.00008	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.0000575	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079
Phenanthrene	0.73	2.2	<0.000021	<0.000021	<0.000021	0.000026 J	<0.00021	<0.000021	<0.0000566	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.00056
Phenol	7.3	22	<0.000035	<0.000035	<0.000035	0.00019 J	<0.000035	<0.000035	0.000628	<0.000035	<0.000035	<0.000035	<0.000035	0.00027	<0.000035
Pyrene	0.73	2.2	<0.000019	<0.000019	<0.000019	<0.000019	<0.000083	0.000043 J	<0.000104	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.00011
Metals															
Arsenic	0.01	0.01	<0.0004	<0.0004	<0.0004	<0.0004	0.00188 J	0.000588 J		0.000614 J	0.0004 J	<0.0004	<0.0004	<0.0004	0.000452 J

Notes:

- All values in milligrams per liter (mg/L).
- Concentrations > RAL and non-detects are highlighted light gray.
- Concentrations > C/I AL and non-detects are highlighted dark gray
- TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
- RAL = Residential Assessment Level, C/I = Commercial/Industrial
- J = Estimated value, < = not detected at the specified detection limit.
- MW-32A was screened in the B-CZ & replaced with MW-32AR
- Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-51C 07/16/2020	MW-52A 01/31/2008	MW-52A 01/18/2010	MW-52A 07/14/2011	MW-52A 02/03/2012	MW-52A 07/12/2012	MW-52A 02/01/2013	MW-53C 01/29/2008	MW-53C 07/14/2008	MW-53C 02/03/2009	MW-53C 01/13/2010	MW-53C 06/30/2010	MW-53C 01/26/2011
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.0002	<0.00052	<0.0025	<0.001	<0.001	<0.0005	<0.00014	<0.00052	<0.00052	<0.0005	<0.0005	<0.0005	<0.0005
Benzene	0.005	0.005	<0.0002	0.0576	0.0047 J	0.0025 J	0.0017 J	0.0053	0.00461	<0.00025	<0.00025	<0.0005	<0.0005	<0.0005	<0.0005
Chlorobenzene	0.1	0.1	<0.0003	<0.00047		<0.001	<0.001	<0.0005	<0.00012	<0.00047	<0.00047	<0.0005	<0.0005	<0.0005	<0.0005
Ethylbenzene	0.7	0.7	<0.0003	0.0892	0.014 J	0.011	0.0053	0.0099	0.00677	<0.00025	<0.00025	<0.0005	<0.0005	<0.0005	<0.0005
Methylene chloride	0.005	0.005	<0.001	<0.00054	<0.0025	<0.0013	<0.0013	<0.001	<0.00015	<0.00054	<0.00054	<0.0005	<0.0005	<0.0005	<0.0005
Toluene	1	1	<0.0002	0.103	0.012 J	0.0089	0.0034 J	0.0084	0.00679	<0.00041	<0.00041	<0.0005	<0.0005	<0.0005	<0.0005
Vinyl chloride	0.002	0.002				<0.001		<0.0005	0.000661 J						
Xylenes (total)	10	10	<0.0003	0.24	0.044 J	0.025	0.011 J	0.021	0.0147	<0.00127	<0.00127	<0.001	<0.001	<0.001	<0.001
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	0.000032 J	<0.008	<0.0001	<0.00005	<0.00005	<0.00005	<0.00524	<0.00008	<0.00009	<0.0001	<0.0001	<0.0001	<0.0001
2,4-Dimethylphenol	0.49	1.5	0.00007 J	1.54	0.0046	0.0045	0.0034	0.029	0.0479	<0.00029	<0.00033	<0.00008	<0.00008	<0.00008	<0.00008
2,4-Dinitrotoluene	0.0013	0.003	<0.000058	<0.019	<0.00009	<0.00005	<0.00005	<0.00005	<0.00619	<0.00019	<0.00022	<0.00009	<0.00009	<0.00009	<0.00009
2,6-Dinitrotoluene	0.0013	0.003	<0.000042	<0.019	<0.00007	<0.00006	<0.00006	<0.00006	<0.00381	<0.00019	<0.00022	<0.00007	<0.00007	<0.00007	<0.00007
2-Chloronaphthalene	2	5.8	<0.000021	<0.038	<0.0001	<0.00005	<0.00005	<0.00005	<0.00381	<0.00038	<0.00044	<0.00012	<0.0001	<0.0001	<0.0001
2-Methylnaphthalene	0.098	0.29	<0.00015	0.929	0.54	0.33	0.096	0.16	0.165	<0.00038	<0.00044	<0.00007	0.000071 J	<0.00007	<0.00007
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00002	<0.019	<0.00008	<0.00008	<0.00008	<0.00008	<0.0395	<0.00019	<0.00022	<0.00008	<0.00008	<0.00008	<0.00008
4-Nitrophenol	0.049	0.15	<0.000047	<0.024	<0.00007	<0.00005	<0.00005	<0.00005	<0.0267	<0.00024	<0.00028	<0.00007	<0.00007	<0.00007	<0.00007
Acenaphthene	1.5	4.4	0.00033	0.494	0.36	0.26	0.19	0.15	0.271	<0.00029	<0.00033	<0.00009	0.0002	0.00032	<0.00009
Acenaphthylene	1.5	4.4	<0.000015	<0.029	0.0045	0.004	0.0024	0.0025	<0.00286	<0.00029	<0.00033	<0.00006	<0.00007	<0.00007	<0.00007
Anthracene	7.3	22	0.00045	0.046	0.022	0.041	0.036	0.021	0.0231 J	0.000569	<0.00022	<0.00007	<0.00007	<0.00007	<0.00007
Benzo(a)anthracene	0.0091	0.02	<0.00005	<0.019	0.00047	0.00063	0.00031	0.00022	<0.00381	<0.00019	<0.00022	<0.00007	<0.00007	<0.00007	<0.00007
Benzo(a)pyrene	0.0002	0.0002	<0.00002	<0.019	0.00013 J	0.00017 J	0.000066 J	<0.00005	<0.00381	<0.00019	<0.00022	<0.00008	<0.00008	<0.00008	<0.00008
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00003	<0.038	<0.00009	<0.00005	<0.00005	<0.00005	<0.00619	<0.00038	<0.00044	<0.00009	<0.00009	<0.00009	<0.00009
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	<0.000051	<0.019	<0.00032	<0.00042	0.00043	<0.0001	<0.0176	<0.00019	0.00026 J	0.00072	<0.00024	<0.00032	0.00037
Chrysene	0.91	2	0.00005 J	<0.019	0.00041	0.0006	0.00033	0.00028	<0.00381	<0.00019	<0.00022	<0.00007	<0.00007	<0.00007	<0.00007
Dibenzofuran	0.098	0.29	0.00032	0.373	0.28	0.2	0.14	0.13	0.178	<0.00029	<0.00033	<0.00008	<0.00008	<0.00008	<0.00008
Di-n-butylphthalate (DBP)	2.4	7.3	<0.00002	<0.019	<0.00007	<0.00005	<0.00005	<0.00005	<0.00524	<0.00019	<0.00022	<0.00007	<0.00007	<0.00007	<0.00007
Fluoranthene	0.98	2.9	0.0011	0.027	0.015	0.024	0.013	0.017	0.0245	<0.00019	<0.00022	<0.00007	<0.00007	<0.00007	<0.00007
Fluorene	0.98	2.9	0.00049	0.263	0.23	0.18	0.12	0.11	0.167	<0.00019	<0.00022	<0.00007	<0.00007	<0.00007	<0.00007
Naphthalene	0.49	1.5	<0.00061	10.3	3.9	1.9	0.77	0.83	0.878	0.00075	0.00161	0.012	<0.00027	<0.0001	0.00015 J
Nitrobenzene	0.049	0.15	<0.000024	<0.038	<0.00009	<0.00005	<0.00005	<0.00005	<0.00524	<0.00038	<0.00044	<0.00009	<0.00009	<0.00009	<0.00009
N-Nitrosodiphenylamine	0.19	0.42	<0.000025	<0.024	<0.00009	<0.00005	<0.00005	<0.00005	<0.00476	<0.00024	<0.00028	<0.00009	<0.00009	<0.00009	<0.00009
Pentachlorophenol	0.001	0.001	<0.000079	<0.019	<0.00008	<0.00005	<0.00005	<0.00005	<0.029	<0.00019	<0.00022	<0.00008	<0.00008	<0.00008	<0.00008
Phenanthrene	0.73	2.2	0.0027	0.24	0.24	0.22	0.081	0.12	0.226	0.00043 J	<0.00022	<0.00007	<0.00007	<0.00007	<0.00007
Phenol	7.3	22	<0.000035	0.038	<0.00007	0.000066 J	0.000052 J	<0.00015	<0.0019	<0.00019	0.00027 J	<0.00007	<0.00007	<0.00007	<0.00007
Pyrene	0.73	2.2	0.00062	0.039	0.0066	0.011	0.0054	0.0071	0.0124 J	0.00039 J	<0.00022	<0.00007	<0.00007	<0.00007	<0.00007
Metals															
Arsenic	0.01	0.01	<0.0004												

Notes:

- All values in milligrams per liter (mg/L).
- Concentrations > RAL and non-detects are highlighted light gray.
- Concentrations > C/I AL and non-detects are highlighted dark gray
- TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
- RAL = Residential Assessment Level, C/I = Commercial/Industrial
- J = Estimated value, < = not detected at the specified detection limit.
- MW-32A was screened in the B-CZ & replaced with MW-32AR
- Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-53C 07/20/2011	MW-53C 02/09/2012	MW-53C 07/18/2012	MW-53C 02/06/2013	MW-53C 08/06/2013	MW-53C 01/22/2014	MW-53C 07/25/2014	MW-53C 01/28/2018	MW-53C 03/21/2018	MW-53C 05/31/2018	MW-53C 01/14/2019	MW-53C 07/16/2019	MW-53C 01/09/2020
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.001	<0.001	<0.0005	0.000644 J	<0.00014	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Benzene	0.005	0.005	<0.001	<0.001	<0.0005	<0.00008	<0.00008	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Chlorobenzene	0.1	0.1	<0.001	<0.001	<0.0005	<0.00012	<0.00012	<0.00018	<0.00012	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Ethylbenzene	0.7	0.7	<0.0011	<0.0011	<0.0005	<0.00011	<0.00011	<0.00019	<0.00011	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Methylene chloride	0.005	0.005	<0.0013	<0.0013	<0.001	<0.00015	<0.00015	<0.00022	<0.00015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Toluene	1	1	<0.001	<0.001	<0.0005	<0.00015	<0.00015	<0.00017	<0.00015	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Vinyl chloride	0.002	0.002						<0.00011							
Xylenes (total)	10	10	<0.0031	<0.0031	<0.0015	<0.00026	<0.00026	<0.00058	<0.00026	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.00005	<0.00005	<0.00005	<0.000106	<0.00011	<0.000524	<0.000107	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021
2,4-Dimethylphenol	0.49	1.5	<0.00005	<0.00005	<0.00005	<0.000298	<0.00031	<0.00148	<0.000301	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.0011
2,4-Dinitrotoluene	0.0013	0.003	<0.00005	<0.00005	<0.00005	<0.000125	<0.00013	<0.000619	<0.000126	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058
2,6-Dinitrotoluene	0.0013	0.003	<0.00006	<0.00006	<0.00006	<0.0000769	<0.00008	<0.000381	<0.0000777	<0.000042	<0.000042	0.0016	<0.000042	0.0028	<0.000042
2-Chloronaphthalene	2	5.8	<0.00005	<0.00005	<0.00005	<0.0000769	<0.00008	<0.000381	<0.0000777	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021
2-Methylnaphthalene	0.098	0.29	<0.00005	0.00008 J	<0.000091	<0.0000673	<0.00007	0.000358 J	<0.0000826	<0.000019	<0.000019	<0.000019	<0.000019	0.000071 J	<0.000025
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00008	<0.00008	<0.00008	<0.0000798	<0.00083	<0.00395	<0.000806	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
4-Nitrophenol	0.049	0.15	<0.00005	<0.00005	<0.00005	<0.000538	<0.00056	<0.00267	<0.000544	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047
Acenaphthene	1.5	4.4	0.00032	0.0002 J	<0.00005	<0.0000769	<0.00008	0.000856 J	<0.0000777	<0.000027	<0.000027	0.000044 J	<0.000027	<0.000027	<0.00032
Acenaphthylene	1.5	4.4	<0.00005	<0.00005	<0.00005	<0.0000577	<0.00006	<0.000286	<0.0000583	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015
Anthracene	7.3	22	<0.00005	<0.00005	<0.00005	<0.0000481	<0.00005	<0.000238	<0.0000485	<0.000014	<0.000014	<0.000014	<0.000014	<0.000014	<0.000028
Benzo(a)anthracene	0.0091	0.02	<0.00005	<0.00005	<0.00005	<0.0000769	<0.00008	<0.000381	<0.0000777	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Benzo(a)pyrene	0.0002	0.0002	<0.00005	<0.00005	<0.00005	<0.0000769	<0.00008	<0.000619	<0.0000777	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00005	<0.00005	<0.00005	<0.000125	<0.00013	<0.000619	<0.000126	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	<0.00014	<0.0001	<0.0001	<0.000356	<0.00037	<0.00176	<0.000359	0.00012 J	<0.000037	0.0001 J	<0.000037	<0.000037	<0.000037
Chrysene	0.91	2	<0.00005	<0.00005	<0.00005	<0.0000769	<0.00008	<0.000381	<0.0000777	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021
Dibenzofuran	0.098	0.29	<0.00005	<0.00005	<0.00005	<0.0000769	<0.00008	<0.000381	<0.0000777	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.000027
Di-n-butylphthalate (DBP)	2.4	7.3	<0.00005	<0.00005	<0.00005	<0.000106	<0.00011	<0.000524	<0.000107	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
Fluoranthene	0.98	2.9	<0.00005	<0.00005	<0.00005	<0.0000673	<0.00007	<0.000333	<0.000068	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.000071 J
Fluorene	0.98	2.9	<0.00005	<0.00005	<0.00005	<0.0000673	<0.00007	0.000355 J	<0.000068	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.0002
Naphthalene	0.49	1.5	<0.00005	0.00066	<0.00048	<0.000183	<0.00008	<0.00212	<0.00194	<0.00002	<0.000034	0.00023	<0.00025	0.00013	<0.0012
Nitrobenzene	0.049	0.15	<0.00005	<0.00005	<0.00005	<0.000106	<0.00011	<0.000524	<0.000107	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024
N-Nitrosodiphenylamine	0.19	0.42	<0.00005	<0.00005	<0.00005	<0.0000962	<0.0001	<0.000476	<0.0000971	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	0.000056 J
Pentachlorophenol	0.001	0.001	<0.00005	<0.00005	<0.00005	<0.000587	<0.00061	<0.0029	<0.000592	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079
Phenanthrene	0.73	2.2	<0.00005	<0.00005	<0.00005	<0.0000577	<0.00006	0.000939 J	<0.0000665	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.00025
Phenol	7.3	22	<0.00005	<0.00005	<0.00005	<0.0000385	<0.00004	<0.00019	<0.0000388	<0.000035	<0.000035	<0.000035	<0.000035	<0.00016	0.0005
Pyrene	0.73	2.2	<0.00005	<0.00005	<0.00005	<0.000106	<0.00011	<0.000524	<0.000107	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000061
Metals															
Arsenic	0.01	0.01								0.000502 J	0.000443 J	0.000694 J	<0.0004	0.000569 J	0.000728 J

Notes:

1. All values in milligrams per liter (mg/L).
2. Concentrations > RAL and non-detects are highlighted light gray.
3. Concentrations > C/I AL and non-detects are highlighted dark gray
4. TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
5. RAL = Residential Assessment Level, C/I = Commercial/Industrial
6. J = Estimated value, < = not detected at the specified detection limit.
7. MW-32A was screened in the B-CZ & replaced with MW-32AR
8. Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS

	<i>Residential Assessment Level</i>	<i>C/I PCL</i>	MW-53C 07/23/2020	MW-54C 01/28/2008	MW-54C 07/14/2008	MW-54C 02/03/2009	MW-54C 01/21/2010	MW-54C 06/30/2010	MW-54C 01/26/2011	MW-54C 07/20/2011	MW-54C 02/08/2012	MW-54C 07/25/2012	MW-54C 02/12/2013	MW-54C 08/06/2013	MW-54C 01/23/2014
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.0002	<0.00245	<0.00052	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00014	<0.00014	<0.0002
Benzene	0.005	0.005	<0.0002	<0.00257	<0.00025	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00008	<0.00008	<0.0002
Chlorobenzene	0.1	0.1	<0.0003	<0.00239	<0.00047	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00012	0.000128 J	<0.00018
Ethylbenzene	0.7	0.7	<0.0003	0.00584	0.00391 J	0.0029 J	<0.0005	0.0024 J	<0.0005	0.0018 J	0.0011 J	0.0011 J	0.000187 J	0.00062 J	0.000527
Methylene chloride	0.005	0.005	<0.001	<0.00195	<0.00054	<0.0005	<0.0005	<0.0005	<0.0005	<0.0013	<0.0013	<0.001	<0.00015	<0.00015	<0.00022
Toluene	1	1	<0.0002	<0.00274	<0.00041	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00015	<0.00015	<0.00017
Vinyl chloride	0.002	0.002													
Xylenes (total)	10	10	<0.0003	<0.00581	<0.00127	0.0027 J	<0.001	0.0011 J	<0.001	<0.0031	<0.0031	<0.0015	<0.00026	0.00076 J	0.00062 J
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.000021	<0.00008	<0.00008	<0.0001	<0.0001	<0.0001	<0.0001	<0.00005	<0.00005	<0.00005	<0.000105	<0.00011	<0.000104
2,4-Dimethylphenol	0.49	1.5	<0.00004	<0.00029	<0.00029	<0.00008	<0.00008	<0.00008	<0.00008	<0.00005	0.000098 J	<0.00005	<0.000295	<0.00031	<0.000292
2,4-Dinitrotoluene	0.0013	0.003	<0.000058	<0.00019	<0.0002	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.000124	<0.00013	<0.000123
2,6-Dinitrotoluene	0.0013	0.003	<0.000042	<0.00019	<0.0002	<0.00007	<0.00007	<0.00007	<0.00007	<0.00006	<0.00006	<0.00006	<0.0000762	<0.00008	<0.0000755
2-Chloronaphthalene	2	5.8	<0.000021	<0.00038	<0.00039	<0.00012	<0.0001	<0.0001	<0.0001	<0.00005	<0.00005	<0.00005	<0.0000762	<0.00008	<0.0000755
2-Methylnaphthalene	0.098	0.29	0.00013 J	0.109	0.14	0.13	<0.00007	0.0096	0.00025	0.022	0.0065	0.0054 J	0.00392	0.0173	0.0176
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00002	<0.00019	<0.0002	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00079	<0.00083	<0.000783
4-Nitrophenol	0.049	0.15	<0.000047	<0.00024	<0.00024	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.000533	<0.00056	<0.000528
Acenaphthene	1.5	4.4	0.00012 J	0.074	0.0738	0.067	0.00016 J	0.024	0.0023	0.039	0.035	0.022	0.0219	0.0749	0.062
Acenaphthylene	1.5	4.4	<0.000015	<0.00029	<0.00029	0.00072	<0.00007	0.00042	<0.00007	0.00045	0.00051	0.00039	<0.0000571	<0.00006	0.00105
Anthracene	7.3	22	<0.000014	0.00268	0.00293	0.003	<0.00007	0.005	0.00027	0.0029	0.0024	0.0019	0.00183	0.00389	0.00445
Benzo(a)anthracene	0.0091	0.02	<0.00005	0.00024 J	<0.0002	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000762	<0.00008	0.0000993 J
Benzo(a)pyrene	0.0002	0.0002	<0.00002	<0.00019	<0.0002	<0.00008	<0.00008	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005	<0.0000762	<0.00008	<0.0000755
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00003	<0.00038	<0.00039	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.000124	<0.00013	<0.000123
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	<0.000037	0.00105 J	0.00029 J	0.00072	<0.00077	<0.00037	0.0016	<0.00015	<0.0001	0.00017 J	<0.000352	<0.00037	<0.000349
Chrysene	0.91	2	<0.000021	0.00021 J	<0.0002	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000762	<0.00008	0.0000758 J
Dibenzofuran	0.098	0.29	0.000095 J	0.0611	0.0739	0.064	<0.00008	0.028	0.0018	0.046	0.047	0.029	0.0223	0.0878	0.0695
Di-n-butylphthalate (DBP)	2.4	7.3	<0.00002	0.00069 J	<0.0002	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	0.000064 J	<0.000105	<0.00011	<0.000824
Fluoranthene	0.98	2.9	0.000072 J	0.00426	0.00349	0.0032	<0.00007	0.0032	0.00016 J	0.0034	0.0026	0.002	0.00246	0.00474	0.00575
Fluorene	0.98	2.9	0.000061 J	0.0323	0.0351	0.03	<0.00007	0.015	0.001	0.022	0.021	0.011	0.0092	0.0409	0.0321
Naphthalene	0.49	1.5	0.0042 J	0.892	0.912	1.1	<0.0001	0.21	0.0055	0.47	0.35	0.15	0.0681	0.383 J	0.315 J
Nitrobenzene	0.049	0.15	<0.000024	<0.00038	<0.00039	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.000105	<0.00011	<0.000104
N-Nitrosodiphenylamine	0.19	0.42	<0.000025	<0.00024	<0.00024	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	0.00014 J	<0.0000952	<0.0001	<0.0000943
Pentachlorophenol	0.001	0.001	<0.000079	0.00025 J	<0.0002	<0.00008	<0.00008	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005	<0.000581	<0.00061	<0.000575
Phenanthrene	0.73	2.2	0.0001 J	0.0389	0.0495	0.042	<0.00007	0.024	0.0011	0.04	0.034	0.019	0.0128	0.04	0.042
Phenol	7.3	22	<0.000035	<0.00019	<0.0002	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	0.00011 J	<0.00005	<0.0000381	<0.00004	<0.0000377
Pyrene	0.73	2.2	0.000047 J	0.00227	0.00163	0.0018	<0.00007	0.0016	<0.00007	0.0017	0.0015	0.0013	0.00138	0.00248	0.00373
Metals															
Arsenic	0.01	0.01	<0.0004												

Notes:

- All values in milligrams per liter (mg/L).
- Concentrations > RAL and non-detects are highlighted light gray.
- Concentrations > C/I AL and non-detects are highlighted dark gray
- TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
- RAL = Residential Assessment Level, C/I = Commercial/Industrial
- J = Estimated value, < = not detected at the specified detection limit.
- MW-32A was screened in the B-CZ & replaced with MW-32AR
- Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-54C 07/25/2014	MW-54C 01/28/2018	MW-54C 03/20/2018	MW-54C 05/31/2018	MW-54C 01/14/2019	MW-54C 07/16/2019	MW-54C 01/09/2020	MW-54C 07/22/2020	MW-54C 07/22/2020 Duplicate	MW-55A 02/04/2009	MW-55A 01/18/2010	MW-55A 07/14/2011	MW-55A 02/03/2012
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.00014	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0005	<0.0025	<0.005	<0.01
Benzene	0.005	0.005	<0.00008	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.19	0.072	0.07	0.15
Chlorobenzene	0.1	0.1	<0.00012	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0005		<0.005	<0.01
Ethylbenzene	0.7	0.7	0.000282 J	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.15	0.2	0.17	0.2
Methylene chloride	0.005	0.005	<0.00015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.0025	<0.0065	<0.013
Toluene	1	1	<0.00015	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.44	0.29	0.24	0.41
Vinyl chloride	0.002	0.002	<0.00011												
Xylenes (total)	10	10	<0.00026	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.35	0.47	0.42	0.48
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.000109	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.0001	<0.0001	<0.00005	<0.0005
2,4-Dimethylphenol	0.49	1.5	<0.000307	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	1.2	0.28	0.48	1.8
2,4-Dinitrotoluene	0.0013	0.003	<0.000129	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.00009	<0.00009	<0.00005	<0.0005
2,6-Dinitrotoluene	0.0013	0.003	<0.0000792	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.00007	<0.00007	<0.00006	<0.0006
2-Chloronaphthalene	2	5.8	<0.0000792	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.00012	<0.0001	<0.00005	<0.0005
2-Methylnaphthalene	0.098	0.29	0.00834	0.00048	0.00075	0.0059	0.0014	0.0021	0.002	0.000095 J	0.00021 J	0.63	0.39	0.33	0.25
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.000822	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00008	<0.00008	<0.00008	<0.0008
4-Nitrophenol	0.049	0.15	<0.000554	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.00007	<0.00007	<0.00005	<0.0005
Acenaphthene	1.5	4.4	0.0367	0.023	0.03	0.04	0.014	0.041	0.021	0.0075 J	0.0072 J	0.28	0.19	0.16	0.14
Acenaphthylene	1.5	4.4	0.000526	0.00034	0.00036	0.00054	<0.0002	0.00037	0.00023	0.00011 J	0.00011 J	0.0037	0.0028	0.003	0.0019 J
Anthracene	7.3	22	0.00261	0.0015	0.0027	0.0041	0.0013	0.0023	0.0015	0.00019 J	0.00061 J	0.047	0.021	0.016	0.016
Benzo(a)anthracene	0.0091	0.02	<0.0000792	<0.00005	<0.00005	0.000065 J	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	0.01	0.0018	0.0014	<0.0005
Benzo(a)pyrene	0.0002	0.0002	<0.0000792	<0.00002	<0.00002	<0.00002	0.000039 J	<0.00002	<0.00002	<0.00002	<0.00002	0.0069	0.00081	0.00062	<0.0005
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.000129	<0.00003	<0.00003	<0.00003	0.000056 J	<0.00003	<0.00003	<0.00003	<0.00003	<0.00009	0.00009 J	<0.00005	<0.0005
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	<0.000366	0.000055 J	<0.000037	0.00011 J	0.000096 J	<0.000037	<0.00018	<0.000037	<0.000037	0.00073	<0.0031	<0.0001	<0.001
Chrysene	0.91	2	<0.0000792	<0.000021	0.000059 J	0.000053 J	0.000038 J	<0.000021	0.000054 J	<0.000021	<0.000021	0.0099	0.0017	0.0014	<0.0005
Dibenzofuran	0.098	0.29	0.0471	0.025	0.029	0.045	0.015	0.032	0.02	0.0018 J	0.004 J	0.2	0.13	0.12	0.084
Di-n-butylphthalate (DBP)	2.4	7.3	<0.000109	<0.00002	<0.00002	0.000029 J	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00007	<0.00007	<0.00005	<0.0005
Fluoranthene	0.98	2.9	0.00302	0.0023	0.004	0.0049	0.002	0.0033	0.0026	0.00097 J	0.00097 J	0.052	0.0081	0.009	0.0044
Fluorene	0.98	2.9	<0.0208	0.011	0.014	0.022	0.0085	0.018	0.0095	0.0029 J	0.0038 J	0.16	0.083	0.08	0.057
Naphthalene	0.49	1.5	0.18	0.022	0.029	0.068	0.019	0.032	<0.035	0.0011 J	<0.0005	17	11	8.6	9.9
Nitrobenzene	0.049	0.15	<0.000109	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.00009	0.00009 J	<0.00005	<0.0005
N-Nitrosodiphenylamine	0.19	0.42	<0.000099	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.00009	<0.00009	<0.00005	<0.0005
Pentachlorophenol	0.001	0.001	<0.000604	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	0.00053	<0.00008	<0.00005	<0.0005
Phenanthrene	0.73	2.2	0.0148	0.0023	0.0041	0.023	0.0052	0.0065	0.0056	<0.000021	0.00086 J	0.2	0.084	0.083	0.047
Phenol	7.3	22	<0.0000396	<0.000035	<0.000035	<0.000035	<0.000035	0.00044	<0.000064	<0.000035	<0.000035	0.15	0.025 J	0.0038	0.079
Pyrene	0.73	2.2	0.00169	0.0012	0.0018	0.0028	0.001	0.0016	0.0014	0.00056 J	0.00055 J	0.032	0.0052	0.0061	0.0041
Metals															
Arsenic	0.01	0.01		0.00128 J	0.00133 J	0.0012 J	0.00123 J	0.00103 J	0.00122 J	0.00157 J	0.00126 J				

- Notes:
1. All values in milligrams per liter (mg/L).
 2. Concentrations > RAL and non-detects are highlighted light gray.
 3. Concentrations > C/I AL and non-detects are highlighted dark gray
 4. TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
 5. RAL = Residential Assessment Level, C/I = Commercial/Industrial
 6. J = Estimated value, < = not detected at the specified detection limit.
 7. MW-32A was screened in the B-CZ & replaced with MW-32AR
 8. Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-55A 07/12/2012	MW-55A 01/30/2013	MW-55A 07/30/2013	MW-55A 01/14/2014	MW-55A 07/17/2014	MW-55B 02/02/2012	MW-55B 07/12/2012	MW-55B 01/30/2013	MW-55B 07/30/2013	MW-55B 01/14/2014	MW-55B 07/17/2014	MW-57A 02/05/2009	MW-57A 01/20/2010
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.005	<0.0028	<0.014	<0.007	<0.0028	<0.01	<0.005	<0.007	<0.014	<0.007	<0.0028	<0.0005	<0.0025
Benzene	0.005	0.005	0.17	0.133	0.145	0.0715	0.0881	0.78	0.89	0.881	0.809	0.648	0.846	0.26	0.17
Chlorobenzene	0.1	0.1	<0.005	<0.0024	<0.012	<0.006	<0.0024	<0.01	<0.005	<0.006	<0.012	<0.006	<0.0024	<0.0005	<0.0025
Ethylbenzene	0.7	0.7	0.24	0.228	0.26	0.2	0.368	0.13	0.21	0.162	0.173	0.134	0.126	0.34	0.32
Methylene chloride	0.005	0.005	<0.01	<0.003	0.0894 J	<0.0075	0.0179 J	<0.013	<0.01	0.0213 J	0.0517 J	<0.0075	0.0155 J	<0.0005	<0.0025
Toluene	1	1	0.39	0.385	0.431	0.311	0.409	0.65	0.9	0.76	0.782	0.597	0.591	0.63	0.13
Vinyl chloride	0.002	0.002			<0.011						<0.011				<0.0025
Xylenes (total)	10	10	0.62	0.575	0.584	0.486	0.869	0.39	0.68	0.623	0.624	0.481	0.443	0.92	0.6
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.00005	<0.000104	<0.00534	<0.0529	<0.00519	<0.0005	<0.0005	<0.0208	<0.0534	<0.529	<0.013	<0.0001	<0.0001
2,4-Dimethylphenol	0.49	1.5	0.96	<0.000292	0.956	0.519	0.463	35	30	2.06	25.2	44.2	35.6	1.8	3
2,4-Dinitrotoluene	0.0013	0.003	<0.00005	<0.000123	<0.00631	<0.0625	<0.00613	<0.0005	<0.0005	<0.0245	<0.0631	<0.625	<0.0153	<0.00009	<0.00009
2,6-Dinitrotoluene	0.0013	0.003	<0.00006	<0.0000755	<0.00388	<0.0385	<0.00377	<0.0006	<0.0006	<0.0151	<0.0388	<0.385	<0.00943	<0.00007	<0.00007
2-Chloronaphthalene	2	5.8	<0.00005	<0.0000755	<0.00388	<0.0385	<0.00377	<0.0005	<0.0005	<0.0151	<0.0388	<0.385	<0.00943	<0.00012	<0.0001
2-Methylnaphthalene	0.098	0.29	0.31	<0.000066	0.468	0.463	0.486	0.28	0.64	0.757	0.868	0.901 J	0.512	0.73	0.89
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00008	<0.000783	<0.0403	<0.399	<0.0392	<0.0008	<0.0008	<0.157	<0.403	<3.99	<0.0979	<0.00008	<0.00008
4-Nitrophenol	0.049	0.15	<0.00005	<0.000528	<0.0272	<0.269	<0.0264	<0.0005	<0.0005	<0.106	<0.272	<2.69	<0.066	<0.00007	<0.00007
Acenaphthene	1.5	4.4	0.11	0.0573	0.207	0.251	0.219	0.19	0.26	0.347	<0.0388	<0.385	0.19	0.24	0.31
Acenaphthylene	1.5	4.4	0.0017	0.0021	<0.00291	<0.0288	<0.00283	0.0057	0.01	<0.0113	<0.0291	<0.288	<0.00708	0.0056	0.0061
Anthracene	7.3	22	0.0075	0.00062	0.0336	0.083 J	0.032	0.016	0.03	0.0492 J	0.0437 J	<0.24	0.027 J	0.044	0.022
Benzo(a)anthracene	0.0091	0.02	0.00034	<0.0000755	<0.00388	<0.0385	<0.00377	0.0011 J	0.0012 J	<0.0151	<0.0388	<0.385	<0.00943	0.011	0.00051
Benzo(a)pyrene	0.0002	0.0002	0.000081 J	<0.0000755	<0.00388	<0.0385	<0.00377	<0.0005	<0.0005	<0.0151	<0.0388	<0.385	<0.00943	0.0045	0.00012 J
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00005	<0.000123	<0.00631	<0.0625	<0.00613	<0.0005	<0.0005	<0.0245	<0.0631	<0.625	<0.0153	<0.00009	<0.00009
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	<0.0001	<0.000349	<0.018	<0.178	<0.0175	<0.001	<0.001	<0.0698	<0.18	<1.78	<0.0436	0.002	<0.0004
Chrysene	0.91	2	0.00025	<0.0000755	<0.00388	<0.0385	<0.00377	<0.0005	0.0009 J	<0.0151	<0.0388	<0.385	<0.00943	0.0094	0.00034
Dibenzofuran	0.098	0.29	0.078	0.0265	<0.00388	0.15 J	0.14	0.15	0.23	<0.0151	0.309	<0.385	0.138	0.21	0.17
Di-n-butylphthalate (DBP)	2.4	7.3	<0.00005	<0.000104	<0.00534	<0.0529	<0.00519	<0.0005	<0.0005	<0.0208	<0.0534	<0.529	<0.013	<0.00007	<0.00007
Fluoranthene	0.98	2.9	0.0042	0.000459 J	0.0148 J	0.0595 J	0.0175 J	0.0047	0.014	0.0153 J	<0.034	<0.337	0.0119 J	0.054	0.0063
Fluorene	0.98	2.9	0.048	0.00213	0.0996	0.172 J	0.1	0.09	0.15	0.166	0.195 J	<0.337	0.0816	0.083	0.11
Naphthalene	0.49	1.5	9.7	<0.00227	13.8	11.7	11.6	21	24	2.3	21.9	24.3	13.5	16	7.4
Nitrobenzene	0.049	0.15	<0.00005	<0.000104	<0.00534	<0.0529	<0.00519	<0.0005	<0.0005	<0.0208	<0.0534	<0.529	<0.013	<0.00009	<0.00009
N-Nitrosodiphenylamine	0.19	0.42	<0.00005	<0.0000943	<0.00485	<0.0481	<0.00472	<0.0005	<0.0005	<0.0189	<0.0485	<0.481	<0.0118	<0.00009	<0.00009
Pentachlorophenol	0.001	0.001	<0.00005	<0.000575	<0.0296	<0.293	<0.0288	<0.0005	0.00069 J	<0.115	<0.296	<2.93	<0.0719	<0.00008	<0.00008
Phenanthrene	0.73	2.2	0.045	<0.0000566	0.078	0.174 J	0.0893	0.057	0.13	0.13	0.228 J	<0.288	0.1	0.22	0.088
Phenol	7.3	22	0.046	<0.0000377	<0.00194	<0.0192	<0.00189	150	130	0.0999	103	454	127	0.052	0.0099
Pyrene	0.73	2.2	0.0021	0.000223 J	0.00729 J	<0.0529	0.0101 J	0.0042	0.0076	<0.0208	<0.0534	<0.529	<0.013	0.038	0.0037
Metals															
Arsenic	0.01	0.01													

Notes:

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2. Concentrations > RAL and non-detects are highlighted light gray.
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5. RAL = Residential Assessment Level, C/I = Commercial/Industrial
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CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-57A 06/23/2010	MW-57A 01/18/2011	MW-57A 07/22/2011	MW-57A 02/02/2012	MW-57A 07/24/2012	MW-57A 02/11/2013	MW-57A 07/31/2013	MW-57A 01/15/2014	MW-57A 07/29/2014	MW-57A 07/10/2019	MW-57A 01/08/2020	MW-57A 07/15/2020	MW-58A 02/05/2009
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.0014	<0.007	<0.002	<0.00014	<0.0002	<0.0002	<0.0002	<0.0025
Chlorobenzene	0.005	0.005	0.47	0.23	0.084	0.14	0.064	0.138	0.137	0.109	0.0412	0.00057 J	0.038	0.0019	0.052
Ethylbenzene	0.1	0.1	<0.005	<0.005	<0.01	<0.01	<0.0005	<0.0012	<0.006	0.000465 J	0.000625 J	<0.0003	0.00046 J	0.00045 J	<0.0025
Methylene chloride	0.005	0.005	0.014 J	<0.005	<0.013	<0.013	<0.001	0.00367 J	<0.0075	<0.00022	<0.00015	<0.001	<0.001	<0.001	<0.0025
Toluene	1	1	0.86	0.38	0.055	0.23	0.1	0.244	0.308	0.198	0.0355	<0.0002	0.01	0.00033 J	0.022 J
Vinyl chloride	0.002	0.002		<0.005	<0.01	<0.01	0.0016 J	<0.0011	<0.0055	0.00154		<0.0002	<0.0002	<0.0002	
Xylenes (total)	10	10	1.2	0.68	0.19	0.4	0.33	0.591	0.572	0.454	0.455	<0.0003	0.026	0.0021	0.1
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	0.0005 J	<0.0001	<0.0005	<0.0005	<0.0005	<0.075	<0.0267	<0.0259	<0.000109	<0.000021	<0.000021	<0.000021	<0.0001
2,4-Dimethylphenol	0.49	1.5	2.7 J	2	1	1.7	0.2	1.62	0.994	7.91 J	0.0443 J	<0.00059	0.41	<0.00004	0.047
2,4-Dinitrotoluene	0.0013	0.003	0.00045 J	<0.00009	<0.0005	<0.0005	<0.0005	<0.0886	<0.0316	<0.0307	<0.000129	<0.000058	<0.000058	<0.000058	<0.00009
2,6-Dinitrotoluene	0.0013	0.003	0.00035 J	<0.00007	<0.0006	<0.0006	<0.0006	<0.0545	<0.0194	<0.0189	<0.0000792	<0.000042	<0.000042	<0.000042	<0.00007
2-Chloronaphthalene	2	5.8	0.0005 J	<0.0001	<0.0005	<0.0005	<0.0005	<0.0545	<0.0194	<0.0189	<0.0000792	<0.000021	<0.000021	<0.000021	<0.00012
2-Methylnaphthalene	0.098	0.29	3.5 J	3.5	13	1.9	3.1	13.9	1.5	8.24	0.616	0.19	0.18	0.15	0.22
4,6-Dinitro-2-methylphenol	0.0024	0.0073	0.0004 J	<0.00008	<0.0008	<0.0008	<0.0008	<0.566	<0.201	<0.196	<0.000822	<0.00002	<0.00002	<0.00002	<0.00008
4-Nitrophenol	0.049	0.15	0.00035 J	<0.00007	<0.0005	<0.0005	<0.0005	<0.382	<0.136	<0.132	<0.000554	<0.000047	<0.000047	<0.000047	<0.00007
Acenaphthene	1.5	4.4	2 J	1.9	8.6	1.2	1.8	8.56	0.997	5.69	0.335	0.099	0.19	0.084	0.31
Acenaphthylene	1.5	4.4	0.02 J	0.022	0.091	0.014	0.024	<0.0409	<0.0146	<0.0142	0.00779	0.0019	0.0025	0.0011	0.0012
Anthracene	7.3	22	0.9 J	0.62	8.4	0.34	0.55	3.09	0.337	2.02	0.0557	0.0084	0.048	0.013	0.0045
Benzo(a)anthracene	0.0091	0.02	0.15 J	0.12	0.45	0.047	0.074	0.605	0.0521 J	0.361	0.0072	0.001	0.0036	0.00079	<0.00007
Benzo(a)pyrene	0.0002	0.0002	0.037 J	0.028	0.16	0.014	0.024	0.165 J	<0.0194	0.0962 J	0.00385	0.00054	0.0011	0.00033	<0.00008
bis(2-Chloroethoxy)methane	0.00083	0.0019	0.00045 J	<0.00009	<0.0005	<0.0005	<0.0005	<0.0886	<0.0316	<0.0307	0.0021	<0.00003	<0.00003	<0.00003	<0.00009
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	0.001 J	<0.0002	<0.001	0.0016 J	<0.001	<0.252	<0.0898	<0.0873	<0.000808	0.00021	<0.00037	<0.000037	0.0003
Chrysene	0.91	2	0.14 J	0.11	0.53	0.046	0.089	0.602	0.0482 J	0.36	0.00625	0.001	0.003	0.00073	<0.00007
Dibenzofuran	0.098	0.29	1.9 J	1.7	8.6	0.86	1.7	7.28	0.799	4.69	0.257	0.076	0.15	0.067	0.23
Di-n-butylphthalate (DBP)	2.4	7.3	0.00035 J	<0.00007	<0.0005	<0.0005	<0.0005	<0.075	<0.0267	<0.0259	<0.000109	<0.00002	<0.00002	<0.00002	0.0012
Fluoranthene	0.98	2.9	1.4 J	0.99	6	0.48	0.74	4.98	0.412	3.19	0.0561	0.0091	0.038	0.0075	0.0025
Fluorene	0.98	2.9	1.6 J	1.4	7.9	0.72	1.4	6.54	0.713	4.16	0.21	0.059	0.13	0.056	0.15
Naphthalene	0.49	1.5	20 J	18	71	9.2	22	60.7	13.5	56.9	7.27	0.61	1	0.2	2.4
Nitrobenzene	0.049	0.15	0.00045 J	<0.00009	<0.0005	<0.0005	<0.0005	<0.075	<0.0267	<0.0259	<0.000109	<0.000024	<0.000024	<0.000024	<0.00009
N-Nitrosodiphenylamine	0.19	0.42	0.00045 J	<0.00009	<0.0005	<0.0005	<0.0005	<0.0682	<0.0243	<0.0236	<0.000099	<0.000025	<0.000025	<0.000025	<0.00009
Pentachlorophenol	0.001	0.001	0.0004 J	<0.00008	<0.0005	<0.0005	<0.0005	<0.416	<0.148	<0.144	<0.000604	0.00059	<0.000079	<0.000079	<0.00008
Phenanthrene	0.73	2.2	4 J	3.5	13	2	3	17	1.61	13.1	0.271	0.059	0.17	0.065	0.041
Phenol	7.3	22	0.042 J	0.02	<0.0005	0.0089	<0.0005	<0.0273	<0.00971	<0.00943	<0.0000396	<0.00016	0.0049	<0.000035	0.00029
Pyrene	0.73	2.2	0.84 J	0.67	3.3	0.34	0.42	3.12	0.264	2.29	0.0308 J	0.0055	0.025	0.0047	0.0012
Metals															
Arsenic	0.01	0.01										0.00447	0.0545	0.0488	

- Notes:
1. All values in milligrams per liter (mg/L).
 2. Concentrations > RAL and non-detects are highlighted light gray.
 3. Concentrations > C/I AL and non-detects are highlighted dark gray
 4. TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
 5. RAL = Residential Assessment Level, C/I = Commercial/Industrial
 6. J = Estimated value, < = not detected at the specified detection limit.
 7. MW-32A was screened in the B-CZ & replaced with MW-32AR
 8. Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-58A 01/20/2010	MW-58A 06/23/2010	MW-58A 01/19/2011	MW-58A 07/27/2011	MW-58A 02/03/2012	MW-58A 07/24/2012	MW-58A 02/11/2013	MW-58A 08/06/2013	MW-58A 01/29/2014	MW-58A 08/28/2014	MW-58A 01/31/2018	MW-58A 03/19/2018	MW-58A 05/16/2018
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.0025	<0.0025	<0.0025	<0.005	<0.01	<0.0005	<0.00014	<0.00014	<0.00014	<0.0014	<0.0002	<0.0002	<0.001
Benzene	0.005	0.005	0.038	0.075	0.034	<0.005	0.12	0.16	0.0943	0.000807 J	<0.00008	0.259	0.0048	0.012	0.012
Chlorobenzene	0.1	0.1	0.0093 J	0.01 J	0.0029 J	<0.005	<0.01	0.0018 J	0.00295	<0.00012	<0.00012	<0.0012	<0.0003	0.00054 J	<0.0015
Ethylbenzene	0.7	0.7	0.063	0.11	0.03	<0.0055	0.085	0.099	0.0648	<0.00011	<0.00011	0.167	0.0066	0.038	0.035
Methylene chloride	0.005	0.005	<0.0025	<0.0048	<0.0025	<0.0065	<0.013	<0.001	<0.00015	<0.00015	<0.00015	<0.0015	<0.001	<0.001	<0.005
Toluene	1	1	0.02 J	0.045	0.0059 J	<0.005	0.043 J	0.041	0.0176	<0.00015	<0.00015	0.135	0.00091 J	0.00063 J	0.0027 J
Vinyl chloride	0.002	0.002	<0.0025		<0.0025	<0.005		0.011	0.00281	<0.00011	<0.00011	0.0101 J	<0.0002	<0.0002	<0.001
Xylenes (total)	10	10	0.04 J	0.15	0.029 J	<0.016	0.23	0.31	0.122	<0.00026	<0.00026	0.352	0.012	0.068	0.015
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.0001	0.0001 J	<0.0001	<0.00005	<0.00005	<0.00005	<0.01	<0.00011	<0.000104	<0.00539	<0.00021	<0.000021	<0.000021
2,4-Dimethylphenol	0.49	1.5	0.097	0.61	0.68	<0.00005	1.1	2.4	0.95	<0.00031	<0.000292	9.19	0.0015 J	0.00053	<0.00004
2,4-Dinitrotoluene	0.0013	0.003	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.0118	<0.00013	<0.000123	<0.00637	<0.00058	<0.000058	<0.000058
2,6-Dinitrotoluene	0.0013	0.003	<0.00007	<0.00007	<0.00007	<0.00006	<0.00006	<0.00006	<0.00727	<0.00008	<0.0000755	<0.00392	<0.00042	<0.000042	<0.000042
2-Chloronaphthalene	2	5.8	<0.0001	<0.0001	<0.0001	<0.00005	<0.00005	<0.00005	<0.00727	<0.00008	<0.0000755	<0.00392	<0.00021	<0.000021	<0.000021
2-Methylnaphthalene	0.098	0.29	0.1	0.21	0.057	<0.00005	0.082	0.0076	0.243	<0.00007	<0.000066	0.373	0.038	0.045	0.14
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00008	0.00008 J	<0.00008	<0.00008	<0.00008	<0.00008	<0.0755	<0.00083	<0.000783	<0.0407	<0.0002	<0.00002	<0.00002
4-Nitrophenol	0.049	0.15	<0.00007	0.00007 J	<0.00007	<0.00005	<0.00005	<0.00005	<0.0509	<0.00056	<0.000528	<0.0275	<0.00047	<0.000047	<0.000047
Acenaphthene	1.5	4.4	0.18	0.28	0.12	<0.00005	0.16	0.057	0.205	<0.00008	<0.0000755	0.221	0.1	0.17	0.19
Acenaphthylene	1.5	4.4	0.0013	0.0015	0.00072	<0.00005	0.0011	0.0011	<0.00545	<0.00006	<0.0000566	0.00996 J	0.0012	0.001	0.0017
Anthracene	7.3	22	0.0098	0.017 J	0.0051	0.00039	0.0055	0.0069	0.0245 J	<0.00005	<0.0000472	0.0126 J	0.0055	0.008	0.011
Benzo(a)anthracene	0.0091	0.02	<0.00007	0.00007 J	<0.00007	<0.00005	<0.00005	0.00072	<0.00727	<0.00008	<0.0000755	<0.00392	<0.0005	0.000083 J	0.000083 J
Benzo(a)pyrene	0.0002	0.0002	<0.00008	0.00008 J	<0.00008	<0.00005	<0.00005	0.00027	<0.00727	<0.00008	<0.0000755	<0.00392	<0.0002	<0.00002	<0.00002
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	0.0321 J	<0.00013	<0.000123	<0.00637	<0.0003	<0.00003	<0.00003
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	<0.0002	0.00046 J	0.00035	0.00071	<0.0001	<0.00094	<0.0336	<0.00037	<0.000349	<0.0181	<0.00037	<0.000037	0.000098 J
Chrysene	0.91	2	<0.00007	0.00007 J	<0.00007	<0.00005	<0.00005	0.0011	<0.00727	<0.00008	<0.0000755	<0.00392	<0.00021	0.000083 J	0.000082 J
Dibenzofuran	0.098	0.29	0.14	0.23	0.079	0.0017	0.13	0.0088	0.128	<0.00008	<0.0000755	0.136	0.036	0.08	0.091
Di-n-butylphthalate (DBP)	2.4	7.3	<0.00007	0.00007 J	<0.00007	<0.00005	<0.00005	<0.00005	<0.01	<0.00011	<0.000104	<0.00539	<0.0002	<0.00002	<0.00002
Fluoranthene	0.98	2.9	0.0058	0.009 J	0.0049	0.001	0.0036	0.0099	0.0102 J	<0.00007	<0.000066	<0.00343	0.0065	0.0074	0.0067
Fluorene	0.98	2.9	0.12	0.16	0.065	<0.00005	0.08	0.027	0.12	<0.00007	<0.000066	0.109	0.084	0.096	0.12
Naphthalene	0.49	1.5	0.67	1.5	0.45	<0.00005	2.2	0.068	2.96 J	0.00036 J	<0.0000755	4.05	0.0037	0.95	0.32
Nitrobenzene	0.049	0.15	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.01	<0.00011	<0.000104	<0.00539	<0.00024	<0.000024	<0.000024
N-Nitrosodiphenylamine	0.19	0.42	<0.00009	0.00009 J	<0.00009	<0.00005	<0.00005	<0.00005	<0.00909	<0.0001	<0.0000943	<0.0049	<0.00025	<0.000025	<0.000025
Pentachlorophenol	0.001	0.001	<0.00008	0.00008 J	<0.00008	<0.00005	<0.00005	0.00017 J	<0.0555	<0.00061	<0.000575	<0.0299	<0.00079	<0.000079	<0.000079
Phenanthrene	0.73	2.2	0.049	0.061 J	0.037	<0.00005	0.039	0.036	0.0563	<0.00006	<0.0000566	0.0702	0.024	0.042	0.038
Phenol	7.3	22	0.0074	0.0065 J	0.00037	0.000077 J	0.0038	0.00074	<0.00364	<0.00004	<0.0000377	<0.00196	0.00054 J	<0.000035	<0.000035
Pyrene	0.73	2.2	0.0034	0.0042 J	0.0022	0.00073	0.0022	0.0069	<0.01	<0.00011	<0.000104	<0.00539	0.0031	0.0039	0.0036
Metals															
Arsenic	0.01	0.01											0.000713 J	0.00106 J	0.00143 J

Notes:

- All values in milligrams per liter (mg/L).
- Concentrations > RAL and non-detects are highlighted light gray.
- Concentrations > C/I AL and non-detects are highlighted dark gray
- TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
- RAL = Residential Assessment Level, C/I = Commercial/Industrial
- J = Estimated value, < = not detected at the specified detection limit.
- MW-32A was screened in the B-CZ & replaced with MW-32AR
- Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
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HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-58A 01/23/2019	MW-58A 07/10/2019	MW-58A 01/08/2020	MW-58A 07/15/2020	MW-59A 02/05/2009	MW-59A 01/20/2010	MW-59A 06/24/2010	MW-59A 01/20/2011	MW-59A 07/18/2011	MW-59A 02/06/2012	MW-59A 07/27/2012	MW-59A 01/31/2013	MW-59A 08/01/2013
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00014	<0.00014
Benzene	0.005	0.005	0.0011	0.0049	0.0053	0.003	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00008	<0.00008
Chlorobenzene	0.1	0.1	0.00046 J	0.0008 J	0.00072 J	0.00035 J	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00012	<0.00012
Ethylbenzene	0.7	0.7	0.0032	0.017	0.0098	0.0029	<0.0005	<0.0005	<0.0005	<0.0005	<0.0011	<0.0011	<0.0005	<0.00011	<0.00011
Methylene chloride	0.005	0.005	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0013	<0.0013	<0.001	<0.00015	<0.00015
Toluene	1	1	0.0014	<0.0002	<0.0002	0.00045 J	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00015	<0.00015
Vinyl chloride	0.002	0.002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00011	<0.00011
Xylenes (total)	10	10	0.005	0.028	0.028	0.011	<0.001	<0.001	<0.001	<0.001	<0.0031	<0.0031	<0.0015	<0.00026	<0.00026
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.000021	<0.000021	<0.000021	<0.000021	<0.0001	<0.0001	<0.0001	<0.0001	<0.00005	<0.00005	<0.00005	<0.000104	<0.000108
2,4-Dimethylphenol	0.49	1.5	0.0001 J	<0.00004	<0.00004	0.00067	<0.00008	<0.00008	<0.00008	<0.00008	0.000066 J	<0.00005	<0.00005	<0.000292	<0.000304
2,4-Dinitrotoluene	0.0013	0.003	<0.000058	<0.000058	<0.000058	<0.000058	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.000123	<0.000127
2,6-Dinitrotoluene	0.0013	0.003	<0.000042	<0.000042	<0.000042	<0.000042	<0.00007	<0.00007	<0.00007	<0.00007	<0.00006	<0.00006	<0.00006	<0.0000755	<0.0000784
2-Chloronaphthalene	2	5.8	<0.000021	<0.000021	<0.000021	<0.000021	<0.00012	<0.0001	<0.0001	<0.0001	<0.00005	<0.00005	<0.00005	<0.0000755	<0.0000784
2-Methylnaphthalene	0.098	0.29	0.000072 J	0.015	0.08	0.048	<0.00007	<0.00007	0.0002	0.0018	<0.00005	<0.00005	<0.00005	<0.000066	<0.0000686
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00002	<0.00002	<0.00002	<0.00002	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.0000783	<0.0000814
4-Nitrophenol	0.049	0.15	<0.000047	<0.000047	<0.000047	<0.000047	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.000528	<0.000549
Acenaphthene	1.5	4.4	0.023	0.11	0.27	0.082	<0.00009	<0.00009	0.0003	0.00079	<0.00005	<0.00005	<0.00005	<0.0000755	<0.0000784
Acenaphthylene	1.5	4.4	0.00038	0.00087	0.0015	0.0009	<0.00006	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000566	<0.0000588
Anthracene	7.3	22	0.002	0.062	0.018	0.0069	<0.00007	<0.00007	0.00026	0.0004	<0.00005	<0.00005	<0.00005	<0.0000472	0.0000519 J
Benzo(a)anthracene	0.0091	0.02	<0.00005	0.00082	0.000091 J	0.00015	<0.00007	<0.00007	<0.00007	0.00015 J	<0.00005	<0.00005	<0.00005	<0.0000755	<0.0000784
Benzo(a)pyrene	0.0002	0.0002	<0.00002	<0.00002	<0.00002	0.000053 J	<0.00008	<0.00008	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005	<0.0000755	<0.0000784
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00003	<0.00003	<0.00003	<0.00003	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.000123	<0.000127
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	<0.00007	<0.000037	<0.00011	<0.000037	0.0006	<0.00065	<0.00023	<0.00031	<0.00054	0.00015 J	<0.0001	<0.000349	<0.000363
Chrysene	0.91	2	0.00003 J	0.00084	0.000071 J	0.00012	<0.00007	<0.00007	<0.00007	0.00014 J	<0.00005	<0.00005	<0.00005	<0.0000755	<0.0000784
Dibenzofuran	0.098	0.29	0.013	0.059	0.13	0.047	<0.00008	<0.00008	0.0007	0.00099	<0.00005	<0.00005	<0.00005	<0.0000755	<0.0000784
Di-n-butylphthalate (DBP)	2.4	7.3	0.000032 J	<0.00002	<0.00002	0.00017 J	0.00077	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.000075	<0.000104	0.000169 J
Fluoranthene	0.98	2.9	0.002	0.02	0.0099	0.0076	<0.00007	<0.00007	0.0005	0.0012	<0.00012	<0.00005	<0.00005	<0.000066	<0.0000686
Fluorene	0.98	2.9	0.015	0.15	0.19	0.083	<0.00007	<0.00007	0.00045	0.00084	<0.00005	<0.00005	<0.00005	<0.000066	<0.0000686
Naphthalene	0.49	1.5	0.00042	0.46	1.2	0.35	<0.0001	<0.0001	0.00047	0.0066	<0.00005	<0.00005	0.000051 J	<0.0000755	<0.0000784
Nitrobenzene	0.049	0.15	<0.000024	<0.000024	<0.000024	<0.000024	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.000104	<0.000108
N-Nitrosodiphenylamine	0.19	0.42	<0.000025	<0.000025	<0.000025	<0.000025	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.0000943	<0.000098
Pentachlorophenol	0.001	0.001	<0.000079	<0.000079	<0.000079	<0.000079	<0.00008	<0.00008	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005	<0.000575	<0.000598
Phenanthrene	0.73	2.2	0.0038	0.036	0.062	0.037	<0.00007	<0.00007	0.0017	0.0024	<0.00018	<0.00005	<0.00005	<0.0000566	0.000075 J
Phenol	7.3	22	0.000074 J	<0.000035	<0.000035	0.00023	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	0.000065 J	<0.0000377	<0.0000392
Pyrene	0.73	2.2	0.00088	0.0099	0.005	0.0034	<0.00007	<0.00007	0.00029	0.00059	<0.00005	<0.00005	<0.00005	<0.000104	<0.000108
Metals															
Arsenic	0.01	0.01	0.00232	0.00748	0.000906 J	0.00204									

Notes:

- All values in milligrams per liter (mg/L).
- Concentrations > RAL and non-detects are highlighted light gray.
- Concentrations > C/I AL and non-detects are highlighted dark gray
- TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
- RAL = Residential Assessment Level, C/I = Commercial/Industrial
- J = Estimated value, < = not detected at the specified detection limit.
- MW-32A was screened in the B-CZ & replaced with MW-32AR
- Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-59A 01/16/2014	MW-59A 07/30/2014	MW-59A 01/29/2018	MW-59A 03/20/2018	MW-59A 05/24/2018	MW-59A 01/23/2019	MW-59A 07/17/2019	MW-59A 01/16/2020	MW-59A 07/21/2020	MW-59D 02/05/2009	MW-59D 02/05/2009 Duplicate	MW-59D 01/20/2010	MW-59D 01/20/2010 Duplicate
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.0002	<0.00014	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005
Benzene	0.005	0.005	<0.0002	<0.00008	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005
Chlorobenzene	0.1	0.1	<0.00018	<0.00012	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0005	<0.0005	<0.0005	<0.0005
Ethylbenzene	0.7	0.7	<0.00019	<0.00011	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0005	<0.0005	<0.0005	<0.0005
Methylene chloride	0.005	0.005	<0.00022	<0.00015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0011 J	0.0014 J	<0.0005	<0.0005
Toluene	1	1	<0.00017	<0.00015	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.00064 J	0.0007 J	<0.0005	<0.0005
Vinyl chloride	0.002	0.002	<0.00018	<0.00011	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005
Xylenes (total)	10	10	<0.00058	<0.00026	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.001	<0.001	<0.001	<0.001
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.000104	<0.000109	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.0001	<0.0001	<0.0001	<0.0001
2,4-Dimethylphenol	0.49	1.5	<0.000292	<0.000307	<0.00004	<0.000041	<0.00004	<0.00004	<0.00004	<0.00004	0.00016 J	<0.00008	<0.00008	<0.00008	<0.00008
2,4-Dinitrotoluene	0.0013	0.003	<0.000123	<0.000129	<0.000058	<0.000059	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.00009	<0.00009	<0.00009	<0.00009
2,6-Dinitrotoluene	0.0013	0.003	<0.0000755	<0.0000792	<0.000042	<0.000043	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.00007	<0.00007	<0.00007	<0.00007
2-Chloronaphthalene	2	5.8	<0.0000755	<0.0000792	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.00012	<0.00012	<0.0001	<0.0001
2-Methylnaphthalene	0.098	0.29	<0.0000902	<0.0000693	0.00011	<0.000019	<0.000019	<0.000019	0.000036 J	<0.00016	<0.000019	0.00015 J	0.0003	<0.00007	<0.00007
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.000783	<0.000822	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00008	<0.00008	<0.00008	<0.00008
4-Nitrophenol	0.049	0.15	<0.000528	<0.000554	<0.000047	<0.000048	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.00007	<0.00007	<0.00007	<0.00007
Acenaphthene	1.5	4.4	<0.0000831	<0.0000792	0.0001	<0.000028	<0.000027	<0.000027	<0.000027	<0.00029	<0.000027	0.00015 J	0.00014 J	<0.00009	<0.00009
Acenaphthylene	1.5	4.4	<0.0000566	<0.0000594	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.00006	<0.00006	<0.00007	<0.00007
Anthracene	7.3	22	0.000119 J	<0.0000495	<0.000014	<0.000014	<0.000014	<0.000014	<0.000014	<0.000014	<0.000027	<0.000014	<0.000014	<0.00007	<0.00007
Benzo(a)anthracene	0.0091	0.02	<0.0000755	<0.0000792	<0.00005	<0.000051	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00007	<0.00007	<0.00007	<0.00007
Benzo(a)pyrene	0.0002	0.0002	<0.0000755	<0.0000792	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00008	<0.00008	<0.00008	<0.00008
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.000123	<0.000129	<0.00003	<0.000031	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00009	<0.00009	<0.00009	<0.00009
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	<0.000349	<0.000366	0.000094 J	<0.000038	<0.000037	<0.000037	<0.00005	<0.000037	<0.000037	0.006	0.0055	<0.00023	<0.00087
Chrysene	0.91	2	<0.0000755	<0.0000792	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.00007	<0.00007	<0.00007	<0.00007
Dibenzofuran	0.098	0.29	<0.000136	<0.0000792	0.00017	<0.00002	<0.00002	<0.00002	<0.00002	<0.00016	<0.00002	0.00014 J	<0.00008	<0.00008	<0.00008
Di-n-butylphthalate (DBP)	2.4	7.3	0.000178 J	<0.000109	<0.00002	<0.00002	<0.00002	<0.00002	0.000064 J	<0.00002	<0.00002	0.0029	0.0023	<0.00007	<0.00007
Fluoranthene	0.98	2.9	0.000199 J	<0.0000693	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.000032	<0.00001	<0.00007	<0.00007	<0.00007	<0.00007
Fluorene	0.98	2.9	0.000176 J	<0.0000693	0.00011	<0.000031	<0.00003	<0.00003	<0.00003	<0.00011	<0.00003	0.00013 J	0.00012 J	<0.00007	<0.00007
Naphthalene	0.49	1.5	<0.000381	0.000219 J	0.00068	<0.00002	<0.00002	<0.00002	<0.00012	<0.00012	0.00017	0.0019	0.0029	<0.0001	<0.0001
Nitrobenzene	0.049	0.15	<0.000104	<0.000109	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.00009	<0.00009	<0.00009	<0.00009
N-Nitrosodiphenylamine	0.19	0.42	<0.0000943	<0.000099	<0.000025	<0.000026	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.00009	<0.00009	<0.00009	<0.00009
Pentachlorophenol	0.001	0.001	<0.000575	<0.000604	<0.000079	<0.000081	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.00008	<0.00008	<0.00008	<0.00008
Phenanthrene	0.73	2.2	<0.000587	<0.000594	0.00018	<0.000021	<0.000021	<0.000021	<0.000021	<0.00012	0.00007 J	0.0002	0.00025	<0.00007	<0.00007
Phenol	7.3	22	<0.0000377	<0.0000396	<0.000035	<0.000036	0.000089 J	<0.000035	0.000058 J	<0.000035	0.000097 J	<0.00007	<0.00007	<0.00007	<0.00007
Pyrene	0.73	2.2	0.00012 J	<0.000109	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000023	<0.000019	<0.00007	<0.00007	<0.00007	<0.00007
Metals															
Arsenic	0.01	0.01			0.00181 J	0.00131 J	0.0101	0.00243	0.00455	0.00368	0.00172 J				

Notes:

1. All values in milligrams per liter (mg/L).
2. Concentrations > RAL and non-detects are highlighted light gray.
3. Concentrations > C/I AL and non-detects are highlighted dark gray
4. TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
5. RAL = Residential Assessment Level, C/I = Commercial/Industrial
6. J = Estimated value, < = not detected at the specified detection limit.
7. MW-32A was screened in the B-CZ & replaced with MW-32AR
8. Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-59D 07/01/2010	MW-59D 07/01/2010 Duplicate	MW-59D 01/20/2011	MW-59D 07/27/2011	MW-59D 07/27/2011 Duplicate	MW-59D 02/14/2012	MW-59D 02/14/2012 Duplicate	MW-59D 07/23/2012	MW-59D 02/11/2013	MW-59D 02/11/2013 Duplicate	MW-59D 08/05/2013	MW-59D 08/05/2013 Duplicate	MW-59D 01/23/2014
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.00014	<0.00014	<0.00014	<0.00014	<0.0002
Benzene	0.005	0.005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.00008	<0.00008	<0.00008	<0.00008	<0.0002
Chlorobenzene	0.1	0.1	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.00012	<0.00012	<0.00012	<0.00012	<0.00018
Ethylbenzene	0.7	0.7	<0.0005	<0.0005	<0.0005	<0.0011	<0.0011	<0.0011	<0.0011	<0.0005	<0.00011	<0.00011	<0.00011	<0.00011	<0.00019
Methylene chloride	0.005	0.005	<0.0005	<0.0005	<0.0005	<0.0013	<0.0013	<0.0013	<0.0013	<0.001	<0.00015	<0.00015	<0.00015	<0.00015	<0.00022
Toluene	1	1	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.00015	<0.00015	<0.00015	<0.00015	<0.00017
Vinyl chloride	0.002	0.002							<0.001						
Xylenes (total)	10	10	<0.001	<0.001	<0.001	<0.0031	<0.0031	<0.0031	<0.0031	<0.0015	<0.00026	<0.00026	<0.00026	<0.00026	<0.00058
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.0001	<0.0001	<0.0001	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000105	<0.000105	<0.00011	<0.00011	<0.000104
2,4-Dimethylphenol	0.49	1.5	<0.00008	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000295	<0.000295	<0.00031	<0.00031	<0.000292
2,4-Dinitrotoluene	0.0013	0.003	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000124	<0.000124	<0.00013	<0.00013	<0.000123
2,6-Dinitrotoluene	0.0013	0.003	<0.00007	<0.00007	<0.00007	<0.00006	<0.00006	<0.00006	<0.00006	<0.00006	<0.0000762	<0.0000762	<0.00008	<0.00008	<0.0000755
2-Chloronaphthalene	2	5.8	<0.0001	<0.0001	<0.0001	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.0000762	<0.0000762	<0.00008	<0.00008	<0.0000755
2-Methylnaphthalene	0.098	0.29	<0.00007	<0.00007	0.00046	<0.00005	<0.00005	<0.00005	<0.00005	0.000071 J	<0.0000667	<0.0000667	0.00016 J	0.00007 J	<0.000066
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00079	<0.00079	<0.00083	<0.00083	<0.000783
4-Nitrophenol	0.049	0.15	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000533	<0.000533	<0.00056	<0.00056	<0.000528
Acenaphthene	1.5	4.4	<0.00009	<0.00009	0.00095	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.0000762	<0.0000762	<0.00008	<0.00008	<0.0000755
Acenaphthylene	1.5	4.4	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.0000571	<0.0000571	<0.00006	<0.00006	<0.0000566
Anthracene	7.3	22	<0.00007	<0.00007	0.00069	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.0000476	<0.0000476	<0.00005	<0.00005	<0.0000425
Benzo(a)anthracene	0.0091	0.02	<0.00007	<0.00007	0.00027	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.0000762	<0.0000762	<0.00008	<0.00008	<0.0000755
Benzo(a)pyrene	0.0002	0.0002	<0.00008	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.0000762	<0.0000762	<0.00008	<0.00008	<0.0000755
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000124	<0.000124	<0.00013	<0.00013	<0.000123
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	<0.00031	<0.00049	<0.0015	0.0011	0.0018	<0.00094	<0.00068	<0.00014	<0.000352	0.000538	0.000805 J	0.000812 J	0.000425 J
Chrysene	0.91	2	<0.00007	<0.00007	0.00024	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.0000762	<0.0000762	<0.00008	<0.00008	<0.0000755
Dibenzofuran	0.098	0.29	<0.00008	<0.00008	0.0011	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.0000762	<0.0000762	<0.00008	<0.00008	<0.0000755
Di-n-butylphthalate (DBP)	2.4	7.3	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000105	<0.000105	<0.00011	<0.00011	<0.000825
Fluoranthene	0.98	2.9	<0.00007	<0.00007	0.0018	<0.00005	<0.00005	<0.00005	0.000075 J	<0.00005	<0.0000667	<0.0000667	<0.00007	<0.00007	0.0000789 J
Fluorene	0.98	2.9	<0.00007	<0.00007	0.00079	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.0000667	<0.0000667	<0.00007	<0.00007	<0.000066
Naphthalene	0.49	1.5	<0.00022	<0.0001	0.0034	<0.00005	<0.00005	<0.00005	<0.000064	<0.00036	<0.0000762	<0.0000762	0.00226 J	0.00008 J	<0.000727
Nitrobenzene	0.049	0.15	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000105	<0.000105	<0.00011	<0.00011	<0.000104
N-Nitrosodiphenylamine	0.19	0.42	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.0000952	<0.0000952	<0.0001	<0.0001	<0.0000943
Pentachlorophenol	0.001	0.001	<0.00008	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000581	<0.000581	<0.00061	<0.00061	<0.000575
Phenanthrene	0.73	2.2	<0.00007	<0.00007	0.0037	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.0000571	<0.0000571	<0.00006	<0.00006	<0.000455
Phenol	7.3	22	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	0.00014 J	0.000087 J	<0.00005	<0.0000381	<0.0000381	<0.00004	<0.00004	<0.0000377
Pyrene	0.73	2.2	<0.00007	<0.00007	0.0011	<0.00005	<0.00005	<0.00005	0.000054 J	<0.00005	<0.000105	<0.000105	<0.00011	<0.00011	<0.000104
Metals															
Arsenic	0.01	0.01													

Notes:

- All values in milligrams per liter (mg/L).
- Concentrations > RAL and non-detects are highlighted light gray.
- Concentrations > C/I AL and non-detects are highlighted dark gray
- TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
- RAL = Residential Assessment Level, C/I = Commercial/Industrial
- J = Estimated value, < = not detected at the specified detection limit.
- MW-32A was screened in the B-CZ & replaced with MW-32AR
- Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-59D 01/23/2014 Duplicate	MW-59D 08/28/2014	MW-59D 08/28/2014 Duplicate	MW-59D 02/07/2018	MW-59D 02/07/2018 Duplicate	MW-59D 03/26/2018	MW-59D 03/26/2018 Duplicate	MW-59D 06/01/2018	MW-59D 06/01/2018 Duplicate	MW-59D 01/24/2019	MW-59D 01/24/2019 Duplicate	MW-59D 07/31/2019	MW-59D 07/31/2019 Duplicate
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.0002	<0.00014	<0.00014	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Benzene	0.005	0.005	<0.0002	0.000135 J	0.000114 J	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Chlorobenzene	0.1	0.1	<0.00018	<0.00012	<0.00012	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Ethylbenzene	0.7	0.7	<0.00019	<0.00011	<0.00011	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Methylene chloride	0.005	0.005	<0.00022	<0.00015	<0.00015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Toluene	1	1	<0.00017	0.000258 J	0.000249 J	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Vinyl chloride	0.002	0.002													
Xylenes (total)	10	10	<0.00058	<0.00026	<0.00026	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.000104	<0.00011	<0.00011	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021
2,4-Dimethylphenol	0.49	1.5	<0.000292	<0.00031	<0.00031	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004
2,4-Dinitrotoluene	0.0013	0.003	<0.000123	<0.00013	<0.00013	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058
2,6-Dinitrotoluene	0.0013	0.003	<0.0000755	<0.00008	<0.00008	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042
2-Chloronaphthalene	2	5.8	<0.0000755	<0.00008	<0.00008	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021
2-Methylnaphthalene	0.098	0.29	<0.000066	0.000334 J	0.00007 J	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	0.000083 J	<0.000019	<0.000019	<0.000019
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.000783	<0.00083	<0.00083	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
4-Nitrophenol	0.049	0.15	<0.000528	<0.00056	<0.00056	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047
Acenaphthene	1.5	4.4	<0.0000755	<0.00008	<0.00008	<0.000027	<0.000027	<0.000027	<0.000027	<0.000027	0.00012	<0.000027	<0.000027	<0.000027	<0.000027
Acenaphthylene	1.5	4.4	<0.0000566	<0.00006	<0.00006	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015
Anthracene	7.3	22	<0.0000472	<0.00005	<0.00005	<0.000014	<0.000014	<0.000014	<0.000014	<0.000014	0.000024 J	<0.000014	<0.000014	<0.000014	<0.000014
Benzo(a)anthracene	0.0091	0.02	<0.0000755	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Benzo(a)pyrene	0.0002	0.0002	<0.0000755	<0.00008	<0.00008	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.000123	<0.00013	<0.00013	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	0.000364 J	0.00306 J	0.00598 J	0.000063 J	0.000054 J	<0.000037	0.000095 J	0.00024	0.00026	<0.000037	<0.000037	<0.000037	<0.000037
Chrysene	0.91	2	<0.0000755	<0.00008	<0.00008	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021
Dibenzofuran	0.098	0.29	<0.0000755	<0.00008	<0.00008	<0.00002	<0.00002	<0.00002	<0.00002	0.000092 J	0.00024 J	<0.00002	<0.00002	<0.00002	<0.00002
Di-n-butylphthalate (DBP)	2.4	7.3	<0.000827	<0.00011	<0.00011	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
Fluoranthene	0.98	2.9	0.0000746 J	0.00018 J	0.00007 J	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Fluorene	0.98	2.9	0.0000688 J	<0.00007	<0.00007	<0.00003	<0.00003	<0.00003	<0.00003	0.000064 J	0.00017 J	<0.00003	<0.00003	<0.00003	<0.00003
Naphthalene	0.49	1.5	<0.000796	0.00576 J	0.00008 J	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	0.0002	<0.00002	<0.00002	<0.00002	<0.00002
Nitrobenzene	0.049	0.15	<0.000104	<0.00011	<0.00011	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024
N-Nitrosodiphenylamine	0.19	0.42	<0.0000943	<0.0001	<0.0001	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025
Pentachlorophenol	0.001	0.001	<0.000575	<0.00061	<0.00061	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079
Phenanthrene	0.73	2.2	<0.000464	0.00018 J	0.0000608 J	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	0.00018	<0.000021	<0.000021	<0.000021	<0.000021
Phenol	7.3	22	<0.0000377	<0.00004	<0.00004	<0.000035	<0.000035	<0.000035	<0.000035	0.00063 J	0.00097 J	<0.000035	<0.000035	0.00011 J	<0.000035
Pyrene	0.73	2.2	<0.000104	0.000131 J	<0.00011	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019
Metals															
Arsenic	0.01	0.01				<0.0004	<0.0004	<0.0004	<0.0004	0.00111 J	0.00101 J	0.000765 J	0.000637 J	<0.0004	0.000502 J

Notes:

- All values in milligrams per liter (mg/L).
- Concentrations > RAL and non-detects are highlighted light gray.
- Concentrations > C/I AL and non-detects are highlighted dark gray
- TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
- RAL = Residential Assessment Level, C/I = Commercial/Industrial
- J = Estimated value, < = not detected at the specified detection limit.
- MW-32A was screened in the B-CZ & replaced with MW-32AR
- Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-59D 01/16/2020	MW-59D 01/16/2020 Duplicate	MW-59D 08/03/2020	MW-59D 08/03/2020 Duplicate	MW-60A 02/04/2009	MW-60A 01/20/2010	MW-60A 06/24/2010	MW-60A 01/19/2011	MW-60A 07/18/2011	MW-60A 02/07/2012	MW-60A 07/23/2012	MW-60A 02/14/2013	MW-60A 04/02/2013
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.0005	<0.00014
Benzene	0.005	0.005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.0005	<0.00008
Chlorobenzene	0.1	0.1	<0.0003	<0.0003	<0.0003	<0.0003	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.0005	<0.00012
Ethylbenzene	0.7	0.7	<0.0003	<0.0003	<0.0003	<0.0003	<0.0005	<0.0005	<0.0005	<0.0005	<0.0011	<0.0011	<0.0005	<0.0005	<0.00011
Methylene chloride	0.005	0.005	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0013	<0.0013	<0.001	<0.001	<0.00015
Toluene	1	1	<0.0002	<0.0002	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.0005	<0.00015
Vinyl chloride	0.002	0.002								<0.0005	<0.001	<0.001	<0.0005	<0.0005	<0.00011
Xylenes (total)	10	10	<0.0003	<0.0003	<0.0003	<0.0003	<0.001	<0.001	<0.001	<0.001	<0.0031	<0.0031	<0.0015	<0.0015	<0.00026
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.000021	<0.000021	<0.000021	<0.000021	<0.0001	<0.0001	<0.0001	<0.0001	<0.00005	<0.00005	<0.00005	<0.00038	<0.000106
2,4-Dimethylphenol	0.49	1.5	<0.00004	<0.00004	<0.00004	<0.00004	<0.00008	<0.00008	<0.00008	<0.00008	<0.00005	<0.00005	0.001	<0.00018	<0.000298
2,4-Dinitrotoluene	0.0013	0.003	<0.000058	<0.000058	<0.000058	<0.000058	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.00032	<0.000125
2,6-Dinitrotoluene	0.0013	0.003	<0.000042	<0.000042	<0.000042	<0.000042	<0.00007	<0.00007	<0.00007	<0.00007	<0.00006	<0.00006	<0.00006	<0.00029	<0.0000769
2-Chloronaphthalene	2	5.8	<0.000021	<0.000021	<0.000021	<0.000021	<0.00012	<0.0001	<0.0001	<0.0001	<0.00005	<0.00005	<0.00005	<0.00019	<0.0000769
2-Methylnaphthalene	0.098	0.29	<0.000019	<0.000019	<0.000019	<0.000019	0.00028	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	0.0021	0.000146 J	<0.0000673
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00002	<0.00002	<0.00002	<0.00002	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00016	<0.0000798
4-Nitrophenol	0.049	0.15	<0.000047	<0.000047	<0.000047	<0.000047	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.00033	<0.0000538
Acenaphthene	1.5	4.4	<0.000036	<0.000027	<0.000027	<0.000027	0.00045	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	0.0012	<0.00016	<0.0000769
Acenaphthylene	1.5	4.4	<0.000015	<0.000015	<0.000015	<0.000015	<0.00006	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.00016	<0.0000577
Anthracene	7.3	22	<0.000014	<0.000014	<0.000014	<0.000014	0.00034	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	0.00027	<0.00044	<0.0000481
Benzo(a)anthracene	0.0091	0.02	<0.00005	<0.00005	<0.00005	<0.00005	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.00025	<0.0000769
Benzo(a)pyrene	0.0002	0.0002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00008	<0.00008	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005	<0.00013	<0.0000769
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00003	<0.00003	<0.00003	<0.00003	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.00019	<0.000125
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	<0.000037	<0.000037	0.00025	0.00025	0.002	<0.00025	<0.0002	0.0031	<0.00017	0.00023	<0.0001	<0.00059	<0.000356
Chrysene	0.91	2	<0.000021	<0.000021	<0.000021	<0.000021	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.00024	<0.0000769
Dibenzofuran	0.098	0.29	<0.000028	<0.00002	<0.00002	<0.00002	0.00035	<0.00008	<0.00008	<0.00008	<0.00005	<0.00005	0.00099	<0.00016	<0.0000769
Di-n-butylphthalate (DBP)	2.4	7.3	<0.00002	<0.00002	<0.00002	<0.00002	0.0023	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.000076	<0.00187	<0.000106
Fluoranthene	0.98	2.9	<0.00001	<0.00001	<0.00001	<0.00001	0.00039	<0.00007	0.0003	0.00029	<0.00005	0.00028	0.0003	<0.00031	<0.0000673
Fluorene	0.98	2.9	<0.000031	<0.00003	<0.00003	<0.00003	0.00044	<0.00007	<0.00007	<0.00007	<0.00005	0.00016 J	0.00089	<0.00012	<0.0000673
Naphthalene	0.49	1.5	<0.00013	<0.00002	<0.000099	<0.000049	0.0095	<0.0001	0.0015	<0.0001	<0.00005	<0.00005	0.025	0.00043 J	<0.0000769
Nitrobenzene	0.049	0.15	<0.000024	<0.000024	<0.000024	<0.000024	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.0002	<0.000106
N-Nitrosodiphenylamine	0.19	0.42	<0.000025	<0.000025	<0.000025	<0.000025	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.00033	<0.0000962
Pentachlorophenol	0.001	0.001	<0.000079	<0.000079	<0.000079	<0.000079	<0.00008	<0.00008	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005	<0.00096	<0.000587
Phenanthrene	0.73	2.2	<0.000043	<0.000021	<0.000021	<0.000021	0.0011	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	0.0015	<0.00029	<0.0000577
Phenol	7.3	22	<0.000035	<0.000035	<0.000035	<0.000035	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	0.000275 J	<0.0000385
Pyrene	0.73	2.2	<0.000019	<0.000019	<0.000019	<0.000019	0.00029	<0.00007	0.0002 J	0.00079	<0.00005	0.0013	0.00033	<0.00033	<0.000106
Metals															
Arsenic	0.01	0.01	0.000508 J	0.000478 J	0.00111 J	0.00113 J									

Notes:

- All values in milligrams per liter (mg/L).
- Concentrations > RAL and non-detects are highlighted light gray.
- Concentrations > C/I AL and non-detects are highlighted dark gray
- TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
- RAL = Residential Assessment Level, C/I = Commercial/Industrial
- J = Estimated value, < = not detected at the specified detection limit.
- MW-32A was screened in the B-CZ & replaced with MW-32AR
- Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS

	Residential Assessment Level	C/I PCL	MW-60A 08/02/2013	MW-60A 01/15/2014	MW-60A 07/16/2014	MW-60A 02/08/2018	MW-60A 03/20/2018	MW-60A 05/25/2018	MW-60A 01/11/2019	MW-60A 07/17/2019	MW-60A 03/20/2020	MW-60AR 06/01/2020	MW-60AR 07/20/2020	MW-61A 02/03/2009	MW-61A 01/20/2010
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.00014	<0.0002	<0.00014	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0005	<0.0005
Benzene	0.005	0.005	<0.00008	<0.0002	<0.00008	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0005	<0.0005
Chlorobenzene	0.1	0.1	<0.00012	<0.00018	<0.00012	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0005	<0.0005
Ethylbenzene	0.7	0.7	<0.00011	<0.00019	<0.00011	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0005	<0.0005
Methylene chloride	0.005	0.005	<0.00015	<0.00022	<0.00015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.0005
Toluene	1	1	<0.00015	<0.00017	<0.00015	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0005	<0.0005
Vinyl chloride	0.002	0.002	<0.00011	<0.00018	<0.00011	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0005	<0.0005
Xylenes (total)	10	10	<0.00026	<0.00058	<0.00026	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.001	<0.001
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.000105	<0.000104	<0.000104	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.0001	<0.0001
2,4-Dimethylphenol	0.49	1.5	<0.000295	<0.000292	<0.000292	<0.00004	<0.000041	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00008	<0.00008
2,4-Dinitrotoluene	0.0013	0.003	<0.000124	<0.000123	<0.000123	<0.000058	<0.000059	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.00009	<0.00009
2,6-Dinitrotoluene	0.0013	0.003	<0.0000762	<0.0000755	<0.0000755	<0.000042	<0.000043	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.00007	<0.00007
2-Chloronaphthalene	2	5.8	<0.0000762	<0.0000755	<0.0000755	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.00012	<0.0001
2-Methylnaphthalene	0.098	0.29	<0.0000667	0.000143 J	0.000516	<0.000019	<0.000019	<0.000019	<0.000019	0.000072 J	<0.000019	<0.000019	<0.000019	0.00041	<0.00007
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.000079	<0.0000783	<0.0000783	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00008	<0.00008
4-Nitrophenol	0.049	0.15	<0.000533	<0.000528	<0.000528	<0.000047	<0.000048	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.00007	<0.00007
Acenaphthene	1.5	4.4	<0.0000762	0.000157 J	0.000167 J	<0.000027	<0.000028	<0.000027	<0.000027	<0.000027	<0.000027	<0.000027	<0.000027	0.00017 J	<0.00009
Acenaphthylene	1.5	4.4	<0.0000571	<0.0000566	<0.0000566	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.00006	<0.00007
Anthracene	7.3	22	0.0000883 J	0.000158 J	<0.0000472	<0.000014	<0.000014	<0.000014	<0.000014	<0.000014	<0.000014	<0.000014	0.000095 J	0.000019 J	<0.00007
Benzo(a)anthracene	0.0091	0.02	<0.0000762	<0.0000755	<0.0000755	<0.00005	<0.000051	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00007	<0.00007
Benzo(a)pyrene	0.0002	0.0002	<0.0000762	<0.0000755	<0.0000755	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00008	<0.00008
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.000124	<0.000123	<0.000123	<0.00003	<0.000031	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00009	<0.00009
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	<0.000352	<0.000349	<0.000349	<0.000037	<0.000038	0.000076 J	<0.000092	<0.000055	0.000063 J	0.000077 J	<0.000037	0.0017	<0.002
Chrysene	0.91	2	<0.0000762	<0.0000755	<0.0000755	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.00007	<0.00007
Dibenzofuran	0.098	0.29	<0.0000762	0.000145 J	0.000116 J	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00008	<0.00008
Di-n-butylphthalate (DBP)	2.4	7.3	<0.000105	<0.000104	<0.000104	<0.00002	<0.00002	<0.00002	0.000064 J	0.000075 J	<0.00002	0.0002	<0.00002	0.011	<0.00007
Fluoranthene	0.98	2.9	<0.0000667	0.0000894 J	<0.000066	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.000013 J	<0.00007	<0.00007
Fluorene	0.98	2.9	<0.0000667	0.000162 J	<0.000066	<0.00003	0.000054 J	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	0.00011 J	<0.00007
Naphthalene	0.49	1.5	<0.0000762	0.000668 J	0.00653	<0.00002	<0.00002	<0.00002	<0.00002	<0.00013	<0.00002	<0.00002	<0.00002	0.0066	<0.0001
Nitrobenzene	0.049	0.15	<0.000105	<0.000104	<0.000104	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.00009	<0.00009
N-Nitrosodiphenylamine	0.19	0.42	<0.0000952	<0.0000943	<0.0000943	<0.000025	<0.000026	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.00009	<0.00009
Pentachlorophenol	0.001	0.001	<0.000581	<0.000575	<0.000575	<0.000079	<0.000081	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.00008	<0.00008
Phenanthrene	0.73	2.2	<0.0000571	0.000345 J	<0.0000566	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	0.00021	<0.00007
Phenol	7.3	22	<0.0000381	<0.0000377	<0.0000377	<0.000035	<0.000036	<0.000035	<0.000035	<0.000035	<0.000035	<0.000035	<0.000035	<0.00007	<0.00007
Pyrene	0.73	2.2	<0.000105	<0.000104	<0.000104	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.00007	<0.00007
Metals															
Arsenic	0.01	0.01				0.000649 J	0.000706 J	0.000636 J	0.00453	0.00044 J	0.00189 J	0.00369	0.0037		

- Notes:
1. All values in milligrams per liter (mg/L).
 2. Concentrations > RAL and non-detects are highlighted light gray.
 3. Concentrations > C/I AL and non-detects are highlighted dark gray
 4. TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
 5. RAL = Residential Assessment Level, C/I = Commercial/Industrial
 6. J = Estimated value, < = not detected at the specified detection limit.
 7. MW-32A was screened in the B-CZ & replaced with MW-32AR
 8. Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-61A 07/01/2010	MW-61A 01/27/2011	MW-61A 07/21/2011	MW-61A 02/07/2012	MW-61A 07/27/2012	MW-61A 04/02/2013	MW-61A 08/01/2013	MW-61A 01/23/2014	MW-61A 08/28/2014	MW-61A 02/08/2018	MW-61A 03/20/2018	MW-61A 05/25/2018	MW-61A 01/23/2019
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00014	<0.00014	<0.0002	<0.00014	<0.0002	<0.0002	<0.0002	<0.0002
Benzene	0.005	0.005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00008	<0.00008	<0.0002	<0.00008	<0.0002	<0.0002	<0.0002	<0.0002
Chlorobenzene	0.1	0.1	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00012	<0.00012	<0.00018	<0.00012	<0.0003	<0.0003	<0.0003	<0.0003
Ethylbenzene	0.7	0.7	<0.0005	<0.0005	<0.0011	<0.0011	<0.0005	<0.00011	<0.00011	<0.00019	<0.00011	<0.0003	<0.0003	<0.0003	<0.0003
Methylene chloride	0.005	0.005	<0.0005	<0.0005	<0.0013	<0.0013	<0.001	<0.00015	<0.00015	<0.00022	<0.00015	<0.001	<0.001	<0.001	<0.001
Toluene	1	1	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00015	<0.00015	<0.00017	<0.00015	<0.0002	<0.0002	<0.0002	<0.0002
Vinyl chloride	0.002	0.002	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.00011	<0.00011	<0.00018	<0.00011	<0.0002	<0.0002	<0.0002	<0.0002
Xylenes (total)	10	10	<0.001	<0.001	<0.0031	<0.0031	<0.0015	<0.00026	<0.00026	<0.00058	<0.00026	<0.0003	<0.0003	<0.0003	<0.0003
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.0001	<0.0001	<0.00005	<0.00005	<0.00005	<0.000106	<0.000105	<0.000104	<0.00011	<0.000021	<0.000021	<0.000021	<0.000021
2,4-Dimethylphenol	0.49	1.5	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005	<0.000298	<0.000295	<0.000292	<0.00031	<0.00004	<0.00004	<0.00004	<0.00004
2,4-Dinitrotoluene	0.0013	0.003	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.000125	<0.000124	<0.000123	<0.00013	<0.000058	<0.000059	<0.000058	<0.000058
2,6-Dinitrotoluene	0.0013	0.003	<0.00007	<0.00007	<0.00006	<0.00006	<0.00006	<0.0000769	<0.0000762	<0.0000755	<0.00008	<0.000042	<0.000042	<0.000042	<0.000042
2-Chloronaphthalene	2	5.8	<0.0001	<0.0001	<0.00005	<0.00005	<0.00005	<0.0000769	<0.0000762	<0.0000755	<0.00008	<0.000021	<0.000021	0.000021 J	<0.000021
2-Methylnaphthalene	0.098	0.29	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000673	<0.0000667	<0.000066	<0.00007	<0.000019	<0.000019	0.000019 J	<0.000019
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.000798	<0.00079	<0.000783	<0.00083	<0.00002	<0.00002	<0.00002	<0.00002
4-Nitrophenol	0.049	0.15	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.000538	<0.000533	<0.000528	<0.00056	<0.000047	<0.000047	<0.000047	<0.000047
Acenaphthene	1.5	4.4	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.0000769	<0.0000762	<0.0000755	<0.00008	<0.000027	<0.000027	0.000027 J	<0.000027
Acenaphthylene	1.5	4.4	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000577	<0.0000571	<0.0000566	<0.00006	<0.000015	<0.000015	0.000015 J	<0.000015
Anthracene	7.3	22	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000481	<0.0000476	<0.0000476	<0.00005	<0.000014	<0.000014	<0.000014	<0.000014
Benzo(a)anthracene	0.0091	0.02	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000769	<0.0000762	<0.0000755	<0.00008	<0.00005	<0.000051	<0.00005	<0.00005
Benzo(a)pyrene	0.0002	0.0002	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005	<0.0000769	<0.0000762	<0.0000755	<0.00008	<0.00002	<0.00002	<0.00002	<0.00002
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.000125	<0.000124	<0.000123	<0.00013	<0.00003	<0.00003	<0.00003	<0.00003
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	<0.00021	<0.0002	0.00023	0.00038	0.00027	<0.000356	<0.000352	0.00163 J	0.000536 J	<0.000037	<0.000037	0.000054 J	<0.000037
Chrysene	0.91	2	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000769	<0.0000762	<0.0000755	<0.00008	<0.000021	<0.000021	<0.000021	<0.000021
Dibenzofuran	0.098	0.29	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005	<0.0000769	<0.0000762	<0.0000755	<0.00008	<0.00002	<0.00002	0.00002 J	<0.00002
Di-n-butylphthalate (DBP)	2.4	7.3	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.000106	<0.000105	<0.0000827	<0.00011	<0.00002	<0.00002	<0.00002	<0.00002
Fluoranthene	0.98	2.9	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000673	<0.0000667	0.0000806 J	<0.00007	<0.00001	<0.00001	<0.00001	<0.00001
Fluorene	0.98	2.9	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000673	<0.0000667	<0.000066	<0.00007	<0.00003	<0.00003	0.00003 J	<0.00003
Naphthalene	0.49	1.5	<0.00018	<0.0001	<0.00005	<0.00005	<0.00005	<0.0000769	<0.00012	<0.0000668	<0.00008	<0.00002	<0.00002	<0.00002	<0.00002
Nitrobenzene	0.049	0.15	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.000106	<0.000105	<0.000104	<0.00011	<0.000024	<0.000024	<0.000024	<0.000024
N-Nitrosodiphenylamine	0.19	0.42	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.0000962	<0.0000952	<0.0000943	<0.0001	<0.000025	<0.000025	0.00015 J	<0.000025
Pentachlorophenol	0.001	0.001	<0.00032	<0.00008	<0.00005	<0.00005	<0.00005	<0.000587	<0.000581	<0.000575	<0.00061	<0.000079	<0.00008	<0.000079	<0.000079
Phenanthrene	0.73	2.2	<0.00007	<0.00007	<0.00005	<0.00005	0.00016 J	<0.0000577	0.0000586 J	<0.00046	<0.00006	<0.000021	<0.000021	<0.000021	<0.000021
Phenol	7.3	22	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000385	<0.0000381	<0.0000377	<0.00004	<0.000035	<0.000035	<0.000035	<0.000035
Pyrene	0.73	2.2	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.000106	<0.000105	<0.000104	<0.00011	<0.000019	<0.000019	<0.000019	<0.000019
Metals															
Arsenic	0.01	0.01										0.000743 J	0.00116 J	0.00172 J	0.00069 J

Notes:

- All values in milligrams per liter (mg/L).
- Concentrations > RAL and non-detects are highlighted light gray.
- Concentrations > C/I AL and non-detects are highlighted dark gray
- TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
- RAL = Residential Assessment Level, C/I = Commercial/Industrial
- J = Estimated value, < = not detected at the specified detection limit.
- MW-32A was screened in the B-CZ & replaced with MW-32AR
- Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-61A 07/17/2019	MW-61A 01/16/2020	MW-61A 07/20/2020	MW-62B 02/04/2009	MW-62B 01/21/2010	MW-62B 07/14/2010	MW-62B 01/27/2011	MW-62B 07/27/2011	MW-62B 08/25/2011	MW-62B 02/08/2012	MW-62B 07/26/2012	MW-62B 02/11/2013	MW-62B 08/02/2013
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.0002	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	<0.001	<0.0005	<0.00014	<0.00014
Benzene	0.005	0.005	<0.0002	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0043 J	<0.001	0.002 J	<0.00008	<0.00008	<0.00008
Chlorobenzene	0.1	0.1	<0.0003	<0.0003	<0.0003	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00012	<0.00012	<0.00012
Ethylbenzene	0.7	0.7	<0.0003	<0.0003	<0.0003	0.00071 J	<0.0005	<0.0005	<0.0005	0.041	<0.0011	0.0021 J	<0.00011	<0.00011	<0.00011
Methylene chloride	0.005	0.005	<0.001	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0013	<0.0013	<0.001	<0.00015	<0.00015	<0.00015
Toluene	1	1	<0.0002	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0095	<0.001	0.0012 J	<0.00015	<0.00015	<0.00015
Vinyl chloride	0.002	0.002	<0.0002	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Xylenes (total)	10	10	<0.0003	<0.0003	<0.0003	<0.001	<0.001	<0.001	<0.001	0.025	<0.0031	0.0053 J	<0.00026	<0.00026	<0.00026
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.000021	<0.000021	<0.000021	<0.0001	<0.0001	<0.0001	<0.0001	<0.00005	<0.00005	<0.00005	<0.00005	<0.0001	<0.000105
2,4-Dimethylphenol	0.49	1.5	<0.00004	<0.00004	<0.00004	<0.00008	<0.00008	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005	<0.00005	<0.000282	<0.000295
2,4-Dinitrotoluene	0.0013	0.003	<0.000058	<0.000058	<0.000058	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.000118	<0.000124	<0.000124
2,6-Dinitrotoluene	0.0013	0.003	<0.000042	<0.000042	<0.000042	<0.00007	<0.00007	<0.00007	<0.00007	<0.00006	<0.00006	<0.00006	<0.0000727	<0.0000762	<0.0000762
2-Chloronaphthalene	2	5.8	<0.000021	<0.000021	<0.000021	<0.00012	<0.0001	<0.0001	<0.0001	<0.00005	<0.00005	<0.00005	<0.0000727	<0.0000762	<0.0000762
2-Methylnaphthalene	0.098	0.29	<0.000019	<0.000019	<0.000019	0.00012 J	0.0016	0.00064	<0.00007	<0.00005	<0.00005	<0.00005	<0.000174	<0.0000667	<0.0000667
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00002	<0.00002	<0.00002	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.000755	<0.00079
4-Nitrophenol	0.049	0.15	<0.000047	<0.000047	<0.000047	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.000509	<0.000533	<0.000533
Acenaphthene	1.5	4.4	<0.000027	<0.000052	<0.000027	0.0078	0.039	0.00041	<0.00009	0.21	0.026	0.085	0.000242 J	<0.0000762	<0.0000762
Acenaphthylene	1.5	4.4	<0.000015	<0.000015	<0.000015	<0.00006	0.00066	<0.00007	<0.00007	0.0026	0.0013	0.00084	0.000112 J	<0.0000571	<0.0000571
Anthracene	7.3	22	<0.000014	<0.000014	0.000024 J	0.00024	0.0011	<0.00007	<0.00007	0.013	<0.00005	0.0032	0.000723	<0.0000476	<0.0000476
Benzo(a)anthracene	0.0091	0.02	<0.00005	<0.00005	<0.00005	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000727	<0.0000762	<0.0000762
Benzo(a)pyrene	0.0002	0.0002	<0.00002	<0.00002	<0.00002	<0.00008	<0.00008	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005	<0.0000727	<0.0000762	<0.0000762
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00003	<0.00003	<0.00003	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.000118	<0.000124	<0.000124
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	<0.00037	0.000081 J	0.0003	0.00041	<0.00098	0.0016	0.00022	0.00042	<0.00029	0.00013 J	<0.000336	<0.000352	<0.000352
Chrysene	0.91	2	<0.000021	<0.000021	<0.000021	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000727	<0.0000762	<0.0000762
Dibenzofuran	0.098	0.29	<0.00002	<0.00002	<0.00002	0.0024	0.013	0.00034	<0.00008	0.15	0.23	0.00012 J	0.038	0.000174 J	<0.0000762
Di-n-butylphthalate (DBP)	2.4	7.3	0.000056 J	<0.00002	<0.00002	0.00065	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.000078	<0.0001	0.000107 J
Fluoranthene	0.98	2.9	<0.00001	<0.00006	0.00004 J	0.00012 J	0.0011	<0.00007	0.00014 J	0.0079	0.00053	0.004	0.00033 J	<0.0000667	<0.0000667
Fluorene	0.98	2.9	<0.00003	<0.00003	<0.00003	0.0012	0.015	0.00016 J	<0.00007	0.058	0.002	0.0087 J	<0.0000636	<0.0000667	<0.0000667
Naphthalene	0.49	1.5	<0.00002	<0.00021	<0.000073	0.0027	0.00028	0.0096	<0.0001	0.035	<0.00021	0.0056	<0.00129	<0.0000762	<0.0000762
Nitrobenzene	0.049	0.15	<0.000024	<0.000024	<0.000024	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.0001	<0.000105	<0.000105
N-Nitrosodiphenylamine	0.19	0.42	<0.000025	<0.000025	<0.000025	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.0000909	<0.0000952	<0.0000952
Pentachlorophenol	0.001	0.001	<0.000079	<0.000079	<0.000079	<0.00008	<0.00008	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005	<0.000555	<0.000581	<0.000581
Phenanthrene	0.73	2.2	<0.000021	<0.0001	0.000069 J	0.00087	0.0025	0.00025	<0.00007	0.035	0.00014 J	0.0026	<0.000472	<0.0000571	<0.0000571
Phenol	7.3	22	0.00011 J	<0.000035	<0.000035	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	0.000053 J	<0.00005	<0.0000364	<0.0000381	<0.0000381
Pyrene	0.73	2.2	<0.000019	<0.000059	0.000028 J	<0.00007	0.00047	<0.00007	0.000077 J	0.0033	0.00037	0.0021	0.000387 J	<0.000105	<0.000105
Metals															
Arsenic	0.01	0.01	0.00117 J	0.00107 J	0.000524 J										

Notes:

- All values in milligrams per liter (mg/L).
- Concentrations > RAL and non-detects are highlighted light gray.
- Concentrations > C/I AL and non-detects are highlighted dark gray
- TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
- RAL = Residential Assessment Level, C/I = Commercial/Industrial
- J = Estimated value, < = not detected at the specified detection limit.
- MW-32A was screened in the B-CZ & replaced with MW-32AR
- Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-62B 01/29/2014	MW-62B 07/29/2014	MW-62B 01/24/2018	MW-62B 03/20/2018	MW-62B 05/24/2018	MW-62B 01/23/2019	MW-62B 07/16/2019	MW-62B 01/27/2020	MW-62B 07/16/2020	MW-64A 02/04/2009	MW-64A 01/21/2010	MW-64A 07/14/2010	MW-64A 01/27/2011
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.00014	<0.00014	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005
Benzene	0.005	0.005	<0.00008	<0.00008	<0.0002	<0.0002	0.0021	<0.0002	<0.0002	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005
Chlorobenzene	0.1	0.1	<0.00012	<0.00012	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0005	<0.0005	<0.0005	<0.0005
Ethylbenzene	0.7	0.7	<0.00011	<0.00011	<0.0003	<0.0003	0.013	<0.0003	<0.0003	<0.0003	0.018	<0.0005	<0.0005	<0.0005	<0.0005
Methylene chloride	0.005	0.005	<0.00015	<0.00015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005
Toluene	1	1	<0.00015	<0.00015	<0.0002	<0.0002	0.003	<0.0002	<0.0002	<0.0002	0.0052	<0.0005	<0.0005	<0.0005	<0.0005
Vinyl chloride	0.002	0.002													
Xylenes (total)	10	10	<0.00026	<0.00026	<0.0003	<0.0003	0.014	<0.0003	<0.0003	<0.0003	0.023	<0.001	<0.001	<0.001	<0.001
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.000104	<0.000109	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.0001	<0.0001	<0.0001	<0.0001
2,4-Dimethylphenol	0.49	1.5	<0.000292	<0.000307	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00008	<0.00008	<0.00008	<0.00008
2,4-Dinitrotoluene	0.0013	0.003	<0.000123	<0.000129	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.00009	<0.00009	<0.00009	<0.00009
2,6-Dinitrotoluene	0.0013	0.003	<0.0000755	<0.0000792	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.00007	<0.00007	<0.00007	<0.00007
2-Chloronaphthalene	2	5.8	<0.0000755	<0.0000792	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	0.00016 J	<0.000021	<0.00012	<0.0001	<0.0001	<0.0001
2-Methylnaphthalene	0.098	0.29	<0.000066	<0.0000693	<0.000019	<0.000019	0.00011	<0.000019	0.000096 J	0.00011	0.00058	0.00014 J	<0.00007	<0.00007	<0.00007
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.000783	<0.000822	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00008	<0.00008	<0.00008	<0.00008
4-Nitrophenol	0.049	0.15	<0.000528	<0.000554	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.00007	<0.00007	<0.00007	<0.00007
Acenaphthene	1.5	4.4	<0.0000755	0.000235 J	0.00006 J	0.023	0.11	<0.000027	0.000099 J	0.04	0.064	0.00029	<0.00009	<0.00009	<0.00009
Acenaphthylene	1.5	4.4	<0.0000566	<0.0000594	0.000061 J	0.00063	0.0013	<0.000015	<0.000015	0.00029	0.00086	<0.00006	<0.00007	<0.00007	<0.00007
Anthracene	7.3	22	<0.0000472	0.0000699 J	0.00036	0.00051	0.0044	<0.000014	<0.000014	0.00096	0.0034	0.00016 J	<0.00007	<0.00007	<0.00007
Benzo(a)anthracene	0.0091	0.02	<0.0000755	<0.0000792	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00007	<0.00007	<0.00007	<0.00007
Benzo(a)pyrene	0.0002	0.0002	<0.0000755	<0.0000792	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	0.000024 J	<0.00008	<0.00008	<0.00008	<0.00008
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.000123	<0.000129	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00009	<0.00009	<0.00009	<0.00009
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	<0.000349	<0.000366	0.00026	0.00018 J	0.00013 J	<0.000037	<0.000037	0.000095 J	<0.00011	0.0004	<0.0016	0.002	0.00049
Chrysene	0.91	2	<0.0000755	<0.0000792	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	0.000027 J	<0.000021	<0.00007	<0.00007	<0.00007	<0.00007
Dibenzofuran	0.098	0.29	<0.0000755	0.0000916 J	<0.00002	0.0031	0.048	<0.00002	0.000048 J	0.0042	0.038	0.00012 J	<0.00008	<0.00008	<0.00008
Di-n-butylphthalate (DBP)	2.4	7.3	<0.000104	<0.000109	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	0.00014 J	<0.00002	0.02	<0.00007	<0.00007	<0.00007
Fluoranthene	0.98	2.9	<0.000066	<0.0000693	0.00052	0.0015	0.0041	<0.00001	0.000017 J	0.002	0.0035	0.00076	<0.00007	<0.00007	<0.00007
Fluorene	0.98	2.9	<0.000066	0.000126 J	0.00015	0.0047	0.034	<0.00003	0.000036 J	0.011	0.03	0.00018 J	<0.00007	<0.00007	<0.00007
Naphthalene	0.49	1.5	<0.0000755	<0.0000792	<0.00002	<0.00002	0.038	<0.00002	0.00028	0.001	0.092	0.00092	<0.0001	<0.0001	<0.0001
Nitrobenzene	0.049	0.15	<0.000104	<0.000109	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.00009	<0.00009	<0.00009	<0.00009
N-Nitrosodiphenylamine	0.19	0.42	<0.0000943	<0.000099	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.00009	<0.00009	<0.00009	<0.00009
Pentachlorophenol	0.001	0.001	<0.000575	<0.000604	<0.000079	0.00033	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.00008	<0.00008	<0.00008	<0.00008
Phenanthrene	0.73	2.2	<0.0000566	<0.000144	<0.000021	0.00023	0.0083	<0.000021	0.000021 J	0.00087	0.0089	0.00055	<0.00007	<0.00007	<0.00007
Phenol	7.3	22	<0.0000377	<0.0000396	<0.000035	<0.000035	<0.000035	<0.000035	0.00056	<0.000035	<0.000035	<0.00007	<0.00007	<0.00007	<0.00007
Pyrene	0.73	2.2	<0.000104	<0.000109	0.00039	0.00077	0.002	<0.000019	<0.000019	0.0013	0.0016	0.00063	<0.00007	<0.00007	<0.00007
Metals															
Arsenic	0.01	0.01			0.00842	0.0173	0.028	<0.0004	0.00194 J	0.0161	0.0285				

Notes:

- All values in milligrams per liter (mg/L).
- Concentrations > RAL and non-detects are highlighted light gray.
- Concentrations > C/I AL and non-detects are highlighted dark gray
- TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
- RAL = Residential Assessment Level, C/I = Commercial/Industrial
- J = Estimated value, < = not detected at the specified detection limit.
- MW-32A was screened in the B-CZ & replaced with MW-32AR
- Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-64A 07/27/2011	MW-64A 02/08/2012	MW-64A 07/25/2012	MW-64A 04/01/2013	MW-64A 08/06/2013	MW-64A 01/29/2014	MW-64A 07/29/2014	MW-64A 01/31/2018	MW-64A 03/25/2018	MW-64A 05/31/2018	MW-64A 01/23/2019	MW-64A 07/11/2019	MW-64A 01/27/2020
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.001	<0.001	<0.0005	<0.00014	<0.00014	<0.00014	<0.00014	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Benzene	0.005	0.005	<0.001	<0.001	<0.0005	<0.00008	<0.00008	0.000154 J	<0.00008	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Chlorobenzene	0.1	0.1	<0.001	<0.001	<0.0005	<0.00012	<0.00012	<0.00012	<0.00012	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Ethylbenzene	0.7	0.7	<0.0011	<0.0011	<0.0005	<0.00011	<0.00011	<0.00011	<0.00011	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Methylene chloride	0.005	0.005	<0.0013	<0.0013	<0.001	<0.00015	<0.00015	<0.00015	<0.00015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Toluene	1	1	<0.001	<0.001	<0.0005	<0.00015	<0.00015	<0.00015	<0.00015	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Vinyl chloride	0.002	0.002													
Xylenes (total)	10	10	<0.0031	<0.0031	<0.0015	<0.00026	<0.00026	<0.00026	<0.00026	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.00005	<0.00005	<0.00005	<0.000106	<0.00011	<0.000104	<0.000108	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021
2,4-Dimethylphenol	0.49	1.5	<0.00005	<0.00005	<0.00005	<0.000298	<0.00031	<0.000292	<0.000304	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004
2,4-Dinitrotoluene	0.0013	0.003	<0.00005	<0.00005	<0.00005	<0.000125	<0.00013	<0.000123	<0.000127	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058
2,6-Dinitrotoluene	0.0013	0.003	<0.00006	<0.00006	<0.00006	<0.0000769	<0.00008	<0.0000755	<0.0000784	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042
2-Chloronaphthalene	2	5.8	<0.00005	<0.00005	<0.00005	<0.0000769	<0.00008	<0.0000755	<0.0000784	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021
2-Methylnaphthalene	0.098	0.29	<0.00005	0.000053 J	<0.00005	<0.0000673	<0.00007	<0.000066	<0.0000686	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	0.00037
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00008	<0.00008	<0.00008	<0.0000798	<0.00083	<0.000783	<0.000814	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
4-Nitrophenol	0.049	0.15	<0.00005	<0.00005	<0.00005	<0.000538	<0.00056	<0.000528	<0.000549	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047
Acenaphthene	1.5	4.4	<0.00005	0.0096	<0.00005	<0.0000769	<0.00008	<0.0000755	<0.0000784	<0.000027	0.035	<0.000027	<0.000027	0.0003	0.00016
Acenaphthylene	1.5	4.4	<0.00005	0.0005	<0.00005	<0.0000577	<0.00006	<0.0000566	<0.0000588	<0.000015	0.00086	<0.000015	<0.000015	<0.000015	<0.000015
Anthracene	7.3	22	0.00036	<0.00005	<0.00005	0.000158 J	<0.00005	<0.0000472	0.000127 J	<0.000014	0.00056	<0.000014	<0.000014	<0.000014	0.000096 J
Benzo(a)anthracene	0.0091	0.02	<0.00005	<0.00005	<0.00005	<0.0000769	<0.00008	<0.0000755	<0.0000784	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Benzo(a)pyrene	0.0002	0.0002	<0.00005	<0.00005	<0.00005	<0.0000769	<0.00008	<0.0000755	<0.0000784	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00005	<0.00005	<0.00005	<0.000125	<0.00013	<0.000123	<0.000127	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	0.00076	<0.00013	0.00021	<0.000356	<0.00037	<0.000349	<0.000363	<0.0001	<0.000037	0.00023	<0.000037	<0.000037	0.00031
Chrysene	0.91	2	<0.00005	<0.00005	<0.00005	<0.0000769	<0.00008	<0.0000755	<0.0000784	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021
Dibenzofuran	0.098	0.29	0.0013	<0.00005	<0.00005	<0.0000769	<0.00008	<0.0000755	<0.0000784	0.00003 J	0.00038	<0.00002	<0.00002	<0.00002	0.0001 J
Di-n-butylphthalate (DBP)	2.4	7.3	0.000079 J	<0.00005	0.000084 J	<0.000106	<0.00011	0.000117 J	<0.000108	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	0.000079 J
Fluoranthene	0.98	2.9	0.00057	0.00021	<0.00005	<0.0000673	<0.00007	<0.000066	<0.0000686	<0.00001	0.00095	<0.00001	<0.00001	<0.00001	0.00028
Fluorene	0.98	2.9	<0.00005	0.00012 J	<0.00005	<0.0000673	<0.00007	<0.000066	<0.0000686	<0.00003	0.0013	<0.00003	<0.00003	0.000031 J	0.000082 J
Naphthalene	0.49	1.5	<0.00005	<0.00063	<0.00005	<0.0000769	<0.00008	<0.0000755	<0.000317	<0.000094	0.00058	<0.00002	<0.00002	<0.00033	0.002
Nitrobenzene	0.049	0.15	<0.00005	<0.00005	<0.00005	<0.000106	<0.00011	<0.000104	<0.000108	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024
N-Nitrosodiphenylamine	0.19	0.42	<0.00005	<0.00005	<0.00005	<0.0000962	<0.0001	<0.0000943	<0.000098	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025
Pentachlorophenol	0.001	0.001	<0.00005	<0.00005	<0.00005	<0.000587	<0.00061	<0.000575	<0.000598	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079
Phenanthrene	0.73	2.2	<0.00005	<0.00005	<0.00005	<0.0000577	<0.00006	<0.0000566	<0.0000588	0.000032 J	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021
Phenol	7.3	22	0.000077 J	<0.00005	<0.00005	<0.0000385	<0.00004	<0.0000377	<0.0000392	<0.000035	<0.000035	0.00051	<0.000035	<0.000035	<0.000035
Pyrene	0.73	2.2	0.00042	0.00013 J	<0.00005	<0.000106	<0.00011	<0.000104	<0.000108	<0.000019	0.00059	<0.000019	<0.000019	0.00015	0.00015
Metals															
Arsenic	0.01	0.01								0.000419 J	0.0117	0.00111 J	<0.0004	0.00939	0.00126 J

Notes:

- All values in milligrams per liter (mg/L).
- Concentrations > RAL and non-detects are highlighted light gray.
- Concentrations > C/I AL and non-detects are highlighted dark gray
- TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
- RAL = Residential Assessment Level, C/I = Commercial/Industrial
- J = Estimated value, < = not detected at the specified detection limit.
- MW-32A was screened in the B-CZ & replaced with MW-32AR
- Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-64A 07/15/2020	MW-65D 02/05/2009	MW-65D 01/21/2010	MW-65D 07/01/2010	MW-65D 01/26/2011	MW-65D 07/27/2011	MW-65D 02/14/2012	MW-65D 07/23/2012	MW-65D 02/11/2013	MW-65D 08/05/2013	MW-65D 01/21/2014	MW-65D 08/28/2014	MW-65D 02/07/2018
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00014	<0.00014	<0.0002	<0.00014	<0.0002
Benzene	0.005	0.005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0013 J	<0.001	<0.0005	<0.00008	<0.00008	<0.0002	<0.00008	<0.0002
Chlorobenzene	0.1	0.1	<0.0003	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00012	<0.00012	<0.00018	<0.00012	<0.0003
Ethylbenzene	0.7	0.7	<0.0003	<0.0005	<0.0005	<0.0005	<0.0005	<0.0011	<0.0011	<0.0005	<0.00011	<0.00011	<0.00019	<0.00011	<0.0003
Methylene chloride	0.005	0.005	<0.001	0.00095 J	<0.0005	<0.0005	<0.0005	<0.0013	<0.0013	<0.001	<0.00015	<0.00015	<0.00022	<0.00015	<0.001
Toluene	1	1	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00015	<0.00015	<0.00017	<0.00015	<0.0002
Vinyl chloride	0.002	0.002													
Xylenes (total)	10	10	<0.0003	<0.001	<0.001	<0.001	<0.001	<0.0031	<0.0031	<0.0015	<0.00026	<0.00026	<0.00058	<0.00026	<0.0003
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.000021	<0.0001	<0.0001	<0.0001	<0.0001	<0.00005	<0.00005	<0.00005	<0.000105	<0.000108	<0.000104	<0.00011	<0.000021
2,4-Dimethylphenol	0.49	1.5	<0.00004	<0.00008	<0.00008	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005	<0.000295	<0.000304	<0.000292	<0.00031	<0.00004
2,4-Dinitrotoluene	0.0013	0.003	<0.000058	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.000124	<0.000127	<0.000123	<0.00013	<0.000058
2,6-Dinitrotoluene	0.0013	0.003	<0.000042	<0.00007	<0.00007	<0.00007	<0.00007	<0.00006	<0.00006	<0.00006	<0.0000762	<0.0000784	<0.0000755	<0.00008	<0.000042
2-Chloronaphthalene	2	5.8	<0.000021	<0.00012	<0.0001	<0.0001	<0.0001	<0.00005	<0.00005	<0.00005	<0.0000762	<0.0000784	<0.0000755	<0.00008	<0.000021
2-Methylnaphthalene	0.098	0.29	<0.000019	0.00012 J	<0.00007	0.00014 J	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000667	<0.0000686	0.0000808 J	<0.00007	<0.000019
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00002	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.000079	<0.0000814	<0.0000783	<0.000083	<0.00002
4-Nitrophenol	0.049	0.15	<0.000047	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.000533	<0.000549	<0.000528	<0.00056	<0.000047
Acenaphthene	1.5	4.4	<0.000027	0.00019 J	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.0000762	<0.0000784	<0.0000755	<0.00008	<0.000027
Acenaphthylene	1.5	4.4	<0.000015	<0.00006	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000571	<0.0000588	<0.0000566	<0.00006	<0.000015
Anthracene	7.3	22	0.000082 J	0.000078 J	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000476	<0.000049	0.0000574 J	<0.00005	<0.000082
Benzo(a)anthracene	0.0091	0.02	<0.00005	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000762	<0.0000784	<0.0000755	<0.00008	<0.00005
Benzo(a)pyrene	0.0002	0.0002	<0.00002	<0.00008	<0.00008	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005	<0.0000762	<0.0000784	<0.0000755	<0.00008	<0.00002
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00003	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.000124	<0.000127	<0.000123	<0.00013	<0.00003
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	0.0006	0.0019	<0.0027	<0.001	0.001	0.001	<0.0013	<0.00025	0.000593	<0.000363	<0.000349	0.00244	<0.000037
Chrysene	0.91	2	0.000023 J	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000762	<0.0000784	<0.0000755	<0.00008	<0.000023
Dibenzofuran	0.098	0.29	<0.00002	0.00016 J	0.00012 J	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005	<0.0000762	<0.0000784	<0.0000755	<0.00008	<0.00002
Di-n-butylphthalate (DBP)	2.4	7.3	<0.000075	0.00029	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	0.000135 J	0.000148 J	<0.000104	<0.00011	<0.000075
Fluoranthene	0.98	2.9	0.0004	0.000097 J	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000667	<0.0000686	0.000117 J	<0.00007	<0.000098
Fluorene	0.98	2.9	0.00005 J	0.00016 J	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000667	<0.0000686	<0.000066	<0.00007	<0.00005
Naphthalene	0.49	1.5	0.000083 J	0.00051	0.00026	<0.00059	0.00019 J	<0.00005	<0.00005	<0.000094	<0.0000762	<0.0000784	0.000529 J	0.00071	<0.000083
Nitrobenzene	0.049	0.15	<0.000024	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.000105	<0.000108	<0.000104	<0.00011	<0.000024
N-Nitrosodiphenylamine	0.19	0.42	<0.000025	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.0000952	<0.000098	<0.0000943	<0.0001	<0.000025
Pentachlorophenol	0.001	0.001	<0.000079	<0.00008	<0.00008	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005	<0.000581	<0.000598	<0.000575	<0.00061	<0.000079
Phenanthrene	0.73	2.2	0.000086 J	0.00014 J	<0.00007	<0.00007	<0.00007	0.000065 J	<0.00005	<0.00005	<0.0000571	0.000093 J	0.000294 J	<0.00006	<0.000086
Phenol	7.3	22	0.000073 J	<0.00007	0.0015	<0.00007	<0.00007	0.000051 J	<0.00005	<0.00005	<0.0000381	<0.0000392	<0.0000377	<0.00004	<0.000073
Pyrene	0.73	2.2	0.00022	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.000105	<0.000108	<0.000104	<0.00011	<0.00022
Metals															
Arsenic	0.01	0.01	0.0049												<0.0004

Notes:

- All values in milligrams per liter (mg/L).
- Concentrations > RAL and non-detects are highlighted light gray.
- Concentrations > C/I AL and non-detects are highlighted dark gray
- TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
- RAL = Residential Assessment Level, C/I = Commercial/Industrial
- J = Estimated value, < = not detected at the specified detection limit.
- MW-32A was screened in the B-CZ & replaced with MW-32AR
- Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-65D 03/26/2018	MW-65D 06/01/2018	MW-65D 01/24/2019	MW-65D 07/31/2019	MW-65D 01/16/2020	MW-65D 07/29/2020	MW-66D 02/05/2009	MW-66D 01/20/2010	MW-66D 07/01/2010	MW-66D 07/27/2011	MW-66D 02/14/2012	MW-66D 07/23/2012	MW-66D 04/02/2013
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00014
Benzene	0.005	0.005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00008
Chlorobenzene	0.1	0.1	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00012
Ethylbenzene	0.7	0.7	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0005	<0.0005	<0.0005	<0.0011	<0.0011	<0.0005	<0.00011
Methylene chloride	0.005	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0013	<0.0013	<0.001	<0.00015
Toluene	1	1	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00015
Vinyl chloride	0.002	0.002						<0.0002							
Xylenes (total)	10	10	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.001	<0.001	<0.001	<0.0031	<0.0031	<0.0015	<0.00026
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.0001	<0.0001	<0.0001	<0.00005	<0.00005	<0.00005	<0.000106
2,4-Dimethylphenol	0.49	1.5	<0.00004	<0.00004	<0.00009	<0.00004	<0.00004	<0.00004	<0.00008	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005	<0.000298
2,4-Dinitrotoluene	0.0013	0.003	<0.000059	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.000125
2,6-Dinitrotoluene	0.0013	0.003	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.00007	<0.00007	<0.00007	<0.00006	<0.00006	<0.00006	<0.0000769
2-Chloronaphthalene	2	5.8	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.00012	<0.0001	<0.0001	<0.00005	<0.00005	<0.00005	<0.0000769
2-Methylnaphthalene	0.098	0.29	<0.000019	0.000089 J	0.00016	<0.000019	<0.000019	0.000051 J	0.00062	<0.00007	<0.00007	<0.00005	<0.00005	0.000085 J	<0.0000673
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.0000798
4-Nitrophenol	0.049	0.15	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.000538
Acenaphthene	1.5	4.4	<0.000027	<0.000027	<0.000027	<0.000027	<0.000027	0.000041 J	0.0004	<0.00009	<0.00009	<0.00005	<0.00005	0.000054 J	<0.0000769
Acenaphthylene	1.5	4.4	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.00006	<0.00007	<0.00007	<0.00005	<0.00005	0.000081 J	<0.0000577
Anthracene	7.3	22	<0.000014	<0.000014	<0.000014	<0.000014	<0.000014	0.000022 J	0.00015 J	<0.00007	<0.00007	0.00022	0.00027	0.00059	<0.0000481
Benzo(a)anthracene	0.0091	0.02	<0.000051	<0.00005	<0.00005	<0.00005	<0.00005	0.000058 J	<0.00007	<0.00007	<0.00007	0.00011 J	0.00012 J	0.00036	<0.0000769
Benzo(a)pyrene	0.0002	0.0002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	0.000034 J	<0.00008	<0.00008	<0.00008	0.00016 J	0.00013 J	0.00067	<0.0000769
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.000125
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	<0.000037	0.0002 J	0.00006 J	0.00016 J	0.00026	0.000073 J	0.0064	<0.0028	<0.00096	0.0019	<0.0002	0.0032	<0.000356
Chrysene	0.91	2	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.00004	<0.00007	<0.00007	<0.00007	0.00046	0.00052	0.0018	<0.0000769
Dibenzofuran	0.098	0.29	<0.00002	0.000061 J	0.000039 J	<0.00002	<0.00002	0.000029 J	0.00036	<0.00008	0.000083 J	<0.00005	<0.00005	0.000066 J	<0.0000769
Di-n-butylphthalate (DBP)	2.4	7.3	<0.00002	0.000022 J	<0.00002	<0.00002	<0.00002	0.000025 J	0.00044	0.000086 J	<0.00007	0.000056 J	<0.00005	<0.000078	<0.000106
Fluoranthene	0.98	2.9	<0.00001	0.000013 J	0.000027 J	<0.00001	<0.00001	<0.000048	0.00026	<0.00007	<0.00007	0.00035	0.00057	0.0019	<0.0000673
Fluorene	0.98	2.9	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	0.00033	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000673
Naphthalene	0.49	1.5	<0.00002	0.00029	<0.0026	<0.00002	<0.00002	0.00057	0.0058	<0.0001	<0.0002	<0.00005	<0.00005	<0.0004	<0.0000769
Nitrobenzene	0.049	0.15	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.000106
N-Nitrosodiphenylamine	0.19	0.42	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.0000962
Pentachlorophenol	0.001	0.001	<0.00008	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.00008	<0.00008	<0.00008	0.000084 J	<0.00005	<0.00005	<0.000587
Phenanthrene	0.73	2.2	<0.000021	0.000035 J	<0.000021	<0.000021	<0.000021	<0.000067	0.00073	0.00012 J	<0.00007	0.00011 J	0.00011 J	0.00058	<0.0000577
Phenol	7.3	22	<0.000035	<0.000035	<0.000019	<0.000035	<0.000035	<0.000035	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000385
Pyrene	0.73	2.2	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000039	0.00017 J	<0.00007	<0.00007	0.00036	0.00051	0.0019	<0.000106
Metals															
Arsenic	0.01	0.01	0.00761	0.00292	0.00202	0.00135 J	0.000507 J	0.00142 J							

- Notes:
- All values in milligrams per liter (mg/L).
 - Concentrations > RAL and non-detects are highlighted light gray.
 - Concentrations > C/I AL and non-detects are highlighted dark gray
 - TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
 - RAL = Residential Assessment Level, C/I = Commercial/Industrial
 - J = Estimated value, < = not detected at the specified detection limit.
 - MW-32A was screened in the B-CZ & replaced with MW-32AR
 - Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS

	<i>Residential Assessment Level</i>	<i>C/I PCL</i>	MW-66D 08/05/2013	MW-66D 01/29/2014	MW-66D 08/28/2014	MW-66D 10/03/2014	MW-66D 02/07/2018	MW-66D 03/26/2018	MW-66D 06/01/2018	MW-66D 01/24/2019	MW-66D 07/31/2019	MW-66D 01/16/2020	MW-66D 08/03/2020	MW-68A 05/29/2019	MW-68A 05/29/2019 Duplicate
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.00014	<0.00014	<0.00014		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Benzene	0.005	0.005	<0.00008	<0.00008	<0.00008		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Chlorobenzene	0.1	0.1	<0.00012	<0.00012	<0.00012		<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Ethylbenzene	0.7	0.7	<0.00011	<0.00011	<0.00011		<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Methylene chloride	0.005	0.005	<0.00015	<0.00015	<0.00015		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Toluene	1	1	<0.00015	<0.00015	<0.00015		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Vinyl chloride	0.002	0.002													
Xylenes (total)	10	10	<0.00026	<0.00026	<0.00026		<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.00011	<0.000104	<0.000109	<0.000107	<0.00021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021
2,4-Dimethylphenol	0.49	1.5	<0.00031	<0.000292	<0.000307	<0.000301	<0.0004	<0.000041	<0.000041	<0.000041	<0.000041	<0.000041	<0.000041	<0.000041	<0.000041
2,4-Dinitrotoluene	0.0013	0.003	<0.00013	<0.000123	<0.000129	<0.000126	<0.00058	<0.000059	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000059
2,6-Dinitrotoluene	0.0013	0.003	<0.00008	<0.0000755	<0.0000792	<0.0000777	<0.00042	<0.000043	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042
2-Chloronaphthalene	2	5.8	<0.00008	<0.0000755	<0.0000792	<0.0000777	<0.00021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021
2-Methylnaphthalene	0.098	0.29	<0.00007	<0.000066	0.000211 J	<0.000068	<0.00019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	0.000026 J
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00083	<0.000783	<0.000822	<0.000806	<0.0002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
4-Nitrophenol	0.049	0.15	<0.00056	<0.000528	<0.000554	<0.000544	<0.00047	<0.000048	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047
Acenaphthene	1.5	4.4	<0.00008	0.000145 J	0.000141 J	<0.0000777	<0.00027	<0.000028	<0.000027	<0.000027	<0.000027	<0.000027	<0.000027	0.0012	0.011
Acenaphthylene	1.5	4.4	<0.00006	<0.0000566	0.000411 J	0.000206 J	<0.00015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015
Anthracene	7.3	22	<0.00005	<0.0000472	0.00304	0.00256	<0.00014	<0.000014	<0.000014	<0.000014	<0.000014	<0.000014	0.000028 J	<0.000014	<0.000014
Benzo(a)anthracene	0.0091	0.02	<0.00008	<0.0000755	0.00041 J	0.000245 J	<0.0005	<0.000051	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000051
Benzo(a)pyrene	0.0002	0.0002	<0.00008	<0.0000755	0.000436 J	0.000439 J	<0.0002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	0.000025 J	<0.00002	<0.00002
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00013	<0.000123	<0.000129	<0.000126	<0.0003	<0.000031	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	<0.00037	<0.000349	0.000585	0.000415 J	<0.00037	<0.000038	0.00019 J	0.00017 J	0.00022	0.000046 J	0.000058 J	0.00015 J	0.000074 J
Chrysene	0.91	2	<0.00008	<0.0000755	0.00104	0.000582	<0.00021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	0.000034 J	<0.000021	<0.000021
Dibenzofuran	0.098	0.29	<0.00008	<0.0000755	0.000133 J	<0.0000777	<0.0002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	0.000025 J	<0.00002	<0.00002
Di-n-butylphthalate (DBP)	2.4	7.3	<0.00011	<0.000104	0.000121 J	<0.000107	<0.0002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	0.00087	0.00064
Fluoranthene	0.98	2.9	<0.00007	<0.000066	0.00116	0.000346 J	<0.0001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.000029 J	<0.00001	<0.00001
Fluorene	0.98	2.9	<0.00007	<0.000066	0.000143 J	<0.000068	<0.0003	<0.000031	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	0.000044 J	0.000042 J
Naphthalene	0.49	1.5	0.0000999 J	0.000367 J	0.00118	<0.0000777	<0.0002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	0.0019	0.00025
Nitrobenzene	0.049	0.15	<0.00011	<0.000104	<0.000109	<0.000107	<0.00024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024
N-Nitrosodiphenylamine	0.19	0.42	<0.0001	<0.0000943	<0.000099	<0.0000971	<0.00025	<0.000026	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025
Pentachlorophenol	0.001	0.001	<0.00061	<0.000575	<0.000604	<0.000592	<0.00079	<0.000081	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079
Phenanthrene	0.73	2.2	<0.00006	0.000132 J	0.000295 J	0.0000729 J	<0.00021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021
Phenol	7.3	22	<0.00004	<0.0000377	<0.0000396	<0.0000388	<0.00035	<0.000036	<0.000035	<0.000035	<0.000035	<0.000035	<0.000035	0.000041 J	<0.000035
Pyrene	0.73	2.2	<0.00011	<0.000104	0.00118	0.000388 J	<0.00019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	0.00003 J	<0.000019	<0.000019
Metals															
Arsenic	0.01	0.01					0.000711 J	0.00663	0.00223	0.00204	0.00124 J	0.00138 J	0.0188	0.00966	0.00894

Notes:
1. All values in milligrams per liter (mg/L).
2. Concentrations > RAL and non-detects are highlighted light gray.
3. Concentrations > C/I AL and non-detects are highlighted dark gray
4. TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
5. RAL = Residential Assessment Level, C/I = Commercial/Industrial
6. J = Estimated value, < = not detected at the specified detection limit.
7. MW-32A was screened in the B-CZ & replaced with MW-32AR
8. Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-68A 07/18/2019	MW-68A 01/17/2020	MW-68A 07/27/2020	MW-68B 02/16/2012	MW-68B 07/16/2012	MW-68B 02/06/2013	MW-68B 08/08/2013	MW-68B 01/22/2014	MW-68B 01/22/2014 Duplicate	MW-68B 07/24/2014	MW-68B 07/24/2014 Duplicate	MW-68B 01/29/2018	MW-68B 01/29/2018 Duplicate
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.0002	<0.0002	<0.0002	<0.005	<0.005	<0.014	<0.014	<0.0002	<0.0002	<0.0028	<0.0028	<0.001	<0.001
Benzene	0.005	0.005	<0.0002	<0.0002	<0.0002	2.7	2.4	2.35	2.88	1.5	1.5	2.18	2.18	2.1	2.2
Chlorobenzene	0.1	0.1	<0.0003	<0.0003	<0.0003	<0.005	<0.005	0.0273 J	<0.012	0.000454 J	0.000468 J	<0.0024	<0.0024	<0.0015	<0.0015
Ethylbenzene	0.7	0.7	<0.0003	<0.0003	<0.0003	0.45	0.49	0.449	0.55	0.364	0.363	0.403	0.453	0.61	0.56
Methylene chloride	0.005	0.005	<0.001	<0.001	<0.001	<0.0065	<0.01	<0.015	0.101	<0.00022	<0.00022	<0.003	<0.003	<0.005	<0.005
Toluene	1	1	<0.0002	<0.0002	<0.0002	0.91	0.93	0.701	0.625	0.329	0.329	0.538	0.57	0.45	0.42
Vinyl chloride	0.002	0.002							<0.011			0.007 J	0.0022 J		
Xylenes (total)	10	10	<0.0003	<0.0003	<0.0003	1.2	1.3	1.04	1.28	0.857	0.862	1.08	1.22	1.6	1.5
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.000021	<0.000021	<0.000021	<0.00005	<0.00025	<0.00524	<0.00519	<0.0105	<0.0105	<0.0055	<0.00529	<0.00021	<0.00021
2,4-Dimethylphenol	0.49	1.5	<0.00004	<0.00004	0.00023	0.19	0.27	0.273	<0.0146	0.536	0.457 J	0.445	0.451	0.051 J	0.071 J
2,4-Dinitrotoluene	0.0013	0.003	<0.000058	<0.000058	<0.000058	<0.00005	<0.00025	<0.00619	<0.00613	<0.0124	<0.0124	<0.0065	<0.00625	<0.00058	<0.00058
2,6-Dinitrotoluene	0.0013	0.003	<0.000042	<0.000042	<0.000042	<0.00006	<0.0003	<0.00381	<0.00377	<0.00762	<0.00762	<0.004	<0.00385	<0.00042	<0.00042
2-Chloronaphthalene	2	5.8	<0.000021	<0.000021	<0.000021	<0.00005	<0.00025	<0.00381	<0.00377	<0.00762	<0.00762	<0.004	<0.00385	<0.00021	<0.00021
2-Methylnaphthalene	0.098	0.29	0.00012	0.000048 J	<0.000019	0.66	1.3	0.952	1.41	1.1	1.19	0.852	0.906	0.6	0.6
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00002	<0.00002	<0.00002	<0.00008	<0.0004	<0.0395	<0.0392	<0.079	<0.079	<0.0415	<0.0399	<0.0002	<0.0002
4-Nitrophenol	0.049	0.15	<0.000047	<0.000047	<0.000047	<0.00005	<0.00025	<0.0267	<0.0264	<0.0533	<0.0533	<0.028	<0.0269	<0.00047	<0.00047
Acenaphthene	1.5	4.4	0.0019	0.0003	0.00032	0.15	0.23	0.261	0.304	0.263	0.26	0.178	0.181	0.13	0.15
Acenaphthylene	1.5	4.4	<0.000015	0.000054 J	<0.000015	0.0023	0.003	<0.00286	<0.00283	<0.00571	<0.00571	<0.003	<0.00288	0.002	0.024
Anthracene	7.3	22	0.000028 J	0.000059 J	<0.000024	0.046	0.034	0.0194 J	0.023 J	0.0428 J	0.0292 J	0.0169 J	0.0162 J	0.014	0.014
Benzo(a)anthracene	0.0091	0.02	<0.00005	<0.00005	<0.00005	0.006	0.0054	<0.00381	<0.00377	0.0123 J	0.00762 J	<0.004	<0.00385	<0.0005	<0.0005
Benzo(a)pyrene	0.0002	0.0002	<0.00002	<0.00002	<0.00002	0.0017	0.0016	<0.00381	<0.00377	<0.00762	<0.00762	<0.004	<0.00385	<0.0002	<0.0002
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00003	<0.00003	<0.00003	<0.00005	<0.00025	<0.00619	<0.00613	<0.0124	<0.0124	<0.0065	<0.00625	<0.0003	<0.0003
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	0.00024	<0.000061	0.000077 J	<0.0001	<0.0005	<0.0176	<0.0175	<0.0352	<0.0352	<0.0185	<0.0178	<0.00037	<0.00037
Chrysene	0.91	2	<0.000021	<0.000021	<0.000029	0.0052	0.005	<0.00381	<0.00377	0.00806 J	0.00976 J	<0.004	<0.00385	<0.00021	<0.00021
Dibenzofuran	0.098	0.29	0.000082 J	<0.00002	<0.000027	0.19	0.3	0.26	0.325	0.284	0.276	0.198	0.196	0.16	0.16
Di-n-butylphthalate (DBP)	2.4	7.3	0.00015 J	0.000034 J	<0.000046	<0.00005	<0.00025	<0.00524	<0.00519	<0.0105	<0.0105	<0.0055	<0.00529	<0.0002	<0.0002
Fluoranthene	0.98	2.9	<0.00001	0.00013	<0.00014	0.05	0.044	<0.00333	0.00764 J	0.052	0.0357 J	0.00825 J	0.00751 J	0.0052	0.0049
Fluorene	0.98	2.9	0.00012	0.000069 J	<0.000041	0.096	0.13	0.118	0.154	0.149	0.143	0.0966	0.0953	0.082	0.086
Naphthalene	0.49	1.5	0.00035	<0.00022	<0.00029	14	26	11.8	31.2	17	17.6	10.5	12.6	9.2	10
Nitrobenzene	0.049	0.15	<0.000024	<0.000024	<0.000024	<0.00005	<0.00025	<0.00524	<0.00519	<0.0105	<0.0105	<0.0055	<0.00529	<0.00024	<0.00024
N-Nitrosodiphenylamine	0.19	0.42	<0.000025	<0.000025	<0.000025	0.0011	<0.00025	<0.00476	<0.00472	<0.00952	<0.00952	<0.005	<0.00481	<0.00025	<0.00025
Pentachlorophenol	0.001	0.001	<0.000079	<0.000079	<0.000079	<0.00005	<0.00025	<0.029	<0.0288	<0.0581	<0.0581	<0.0305	<0.0293	<0.00079	<0.00079
Phenanthrene	0.73	2.2	0.000062 J	0.00016	<0.00011	0.19	0.24	0.12	0.136	0.263	0.196	0.106	0.103	0.099	0.098
Phenol	7.3	22	<0.000035	<0.000035	<0.000035	0.035	0.058	0.0421	0.0795	0.0862	0.0929	0.00988 J	0.00192 J	<0.00035	<0.00035
Pyrene	0.73	2.2	<0.000019	0.000068 J	<0.000072	0.031	0.024	<0.00524	<0.00519	0.0341 J	0.0227 J	<0.0055	<0.00529	0.0025	0.0024
Metals															
Arsenic	0.01	0.01	0.0353	0.0423	0.0825									0.0114	0.0117

Notes:

1. All values in milligrams per liter (mg/L).
2. Concentrations > RAL and non-detects are highlighted light gray.
3. Concentrations > C/I AL and non-detects are highlighted dark gray
4. TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
5. RAL = Residential Assessment Level, C/I = Commercial/Industrial
6. J = Estimated value, < = not detected at the specified detection limit.
7. MW-32A was screened in the B-CZ & replaced with MW-32AR
8. Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-68B 03/21/2018	MW-68B 03/21/2018 Duplicate	MW-68B 06/06/2018	MW-68B 06/06/2018 Duplicate	MW-68B 01/15/2019	MW-68B 01/15/2019 Duplicate	MW-68B 07/18/2019	MW-68B 07/18/2019 Duplicate	MW-68B 01/23/2020 DNAPL	MW-68B 07/27/2020	MW-68B 07/27/2020 Duplicate	MW-68C 07/15/2010	MW-68C 01/25/2011
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.002	<0.002	<0.005	<0.001	<0.001	<0.0005	<0.0005
Benzene	0.005	0.005	1.4	1.4	1.9	2	2	1.9	1.4	1.4	<0.005	2.3	2.3	0.00081 J	0.0021 J
Chlorobenzene	0.1	0.1	<0.0003	<0.0003	<0.0003	<0.0003	0.00056 J	0.00056 J	<0.003	<0.003	<0.0075	<0.0015	<0.0015	<0.0005	<0.0005
Ethylbenzene	0.7	0.7	0.29	0.28	0.5	0.5	0.5	0.49	0.52	0.51	0.39	0.55	0.57	<0.0005	<0.0005
Methylene chloride	0.005	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.01	<0.01	<0.025	<0.005	<0.005	<0.0005	<0.0005
Toluene	1	1	0.2	0.19	0.45	0.44	0.086	0.084	0.37	0.37		0.23	0.7	<0.0005	0.00067 J
Vinyl chloride	0.002	0.002									<0.005				
Xylenes (total)	10	10	0.83	0.84	1.4	1.4	1.2	1.2	1.5	1.4	1.1	1.5	1.5	<0.001	<0.001
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021	<0.0001	<0.0001
2,4-Dimethylphenol	0.49	1.5	0.07	0.065	0.075 J	0.23 J	0.05	0.058	0.076	0.076	0.075	0.018 J	0.025 J	<0.00008	0.00012 J
2,4-Dinitrotoluene	0.0013	0.003	<0.00059	<0.00059	<0.00058	<0.00058	<0.00058	0.0013 J	<0.00058	<0.00058	<0.00058	<0.00058	<0.00058	<0.00009	<0.00009
2,6-Dinitrotoluene	0.0013	0.003	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00007	<0.00007
2-Chloronaphthalene	2	5.8	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021	<0.0001	<0.0001
2-Methylnaphthalene	0.098	0.29	0.67	0.67	1.4	1.3	0.33	0.31	0.72	0.66	1.1 J	2.9 J	0.63 J	<0.00007	0.00016 J
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0011 J	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00008	<0.00008
4-Nitrophenol	0.049	0.15	<0.00047	<0.00047	<0.00047	<0.00047	<0.00047	0.0074 J	<0.00047	<0.00047	<0.00047	<0.00047	<0.00047	<0.00007	<0.00007
Acenaphthene	1.5	4.4	0.21	0.22	0.34	0.36	0.1	0.13	0.2	0.17	0.44	1	0.23	<0.00009	<0.00009
Acenaphthylene	1.5	4.4	0.0021	0.0016	0.0022	0.0029	0.0012	0.0014	0.0027	0.0022	0.0037	<0.00015	0.0025 J	<0.00007	<0.00007
Anthracene	7.3	22	0.14	0.12	0.15	0.021	0.008	0.0098	0.03 J	0.022 J	0.15	0.5 J	0.061 J	<0.00007	<0.00007
Benzo(a)anthracene	0.0091	0.02	<0.00051	<0.00051	<0.0005	<0.0005	<0.0005	<0.0005	0.0051 J	0.003 J	0.047	0.14 J	0.015 J	<0.00007	<0.00007
Benzo(a)pyrene	0.0002	0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0018	0.0012	0.0089	0.039 J	0.0046 J	<0.00008	<0.00008
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.0036	<0.0003	<0.0003	<0.00003	<0.0003	<0.0003	<0.00009	<0.00009
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	<0.00037	<0.00037	<0.00037	<0.00037	<0.00037	<0.00037	<0.00037	<0.00037	0.0011	<0.00037	<0.00037	0.00098	0.006
Chrysene	0.91	2	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021	0.005 J	0.0029 J	0.04	0.099 J	0.012 J	<0.00007	<0.00007
Dibenzofuran	0.098	0.29	0.24	0.25	0.38	0.38	0.1	0.12	0.21	0.18	0.5	1.3 J	0.27 J	<0.00008	<0.00008
Di-n-butylphthalate (DBP)	2.4	7.3	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.00018 J	<0.0002	<0.0002	<0.00007	<0.00007
Fluoranthene	0.98	2.9	0.006	0.005	0.0063	0.0088	0.0031	0.0039	0.043 J	0.027 J	0.31	1 J	0.11 J	<0.00007	<0.00007
Fluorene	0.98	2.9	0.092	0.078	0.082 J	0.18 J	0.057	0.065	0.11	0.083	0.32	0.8 J	0.17 J	<0.00007	<0.00007
Naphthalene	0.49	1.5	12	13	23	23	5	3.8	9.6	9.9	12	29 J	13 J	0.00083	0.0014
Nitrobenzene	0.049	0.15	<0.00024	<0.00024	<0.00024	<0.00024	<0.00024	<0.00024	<0.00024	<0.00024	<0.00024	<0.00024	<0.00024	<0.00009	<0.00009
N-Nitrosodiphenylamine	0.19	0.42	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	0.0051	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00009	<0.00009
Pentachlorophenol	0.001	0.001	<0.00008	<0.00008	<0.00079	<0.00079	<0.00079	<0.00079	<0.00079	<0.00079	<0.00079	<0.00079	<0.00079	<0.00008	<0.00008
Phenanthrene	0.73	2.2	0.15	0.088	0.096 J	0.22 J	0.065	0.073	0.21	0.16	0.95	3.1 J	0.39 J	<0.00007	<0.00007
Phenol	7.3	22	<0.00035	<0.00035	<0.00035	<0.00035	0.0019 J	0.0015 J	<0.00035	<0.00035	<0.00035	<0.00035	<0.00035	0.0005	0.0039
Pyrene	0.73	2.2	0.0032	0.0029	0.0045 J	0.0058 J	0.0015	0.0018	0.025 J	0.015 J	0.19	0.61 J	0.065 J	<0.00007	<0.00007
Metals															
Arsenic	0.01	0.01	0.014	0.0151	0.0112	0.0107	0.0123	0.0125	0.0134	0.0129	0.00944 J	0.0113	0.0119		

Notes:

- All values in milligrams per liter (mg/L).
- Concentrations > RAL and non-detects are highlighted light gray.
- Concentrations > C/I AL and non-detects are highlighted dark gray
- TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
- RAL = Residential Assessment Level, C/I = Commercial/Industrial
- J = Estimated value, < = not detected at the specified detection limit.
- MW-32A was screened in the B-CZ & replaced with MW-32AR
- Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-68C 07/21/2011	MW-68C 02/16/2012	MW-68C 07/17/2012	MW-68C 02/06/2013	MW-68C 08/07/2013	MW-68C 01/22/2014	MW-68C 07/24/2014	MW-68C 08/28/2014	MW-68C 01/29/2018	MW-68C 03/21/2018	MW-68C 06/06/2018	MW-68C 01/15/2019	MW-68C 07/18/2019
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.001	<0.001	<0.0005	<0.00014	<0.00014	<0.0002	<0.00014	<0.00014	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Benzene	0.005	0.005	0.0032 J	0.0069	0.0079	0.00134	0.00364	0.00225	0.0073	0.00118	0.0028	0.0049	<0.0002	<0.0002	<0.0002
Chlorobenzene	0.1	0.1	<0.001	<0.001	<0.0005	<0.000352	<0.00012	<0.00018	<0.00012	<0.00012	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Ethylbenzene	0.7	0.7	<0.0011	<0.0011	<0.0005	0.000363 J	0.000517 J	0.00024 J	0.000419 J	0.00014 J	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Methylene chloride	0.005	0.005	<0.0013	<0.0013	<0.001	<0.00015	<0.00015	<0.00022	<0.00015	<0.00015	<0.001	<0.001	<0.001	<0.001	<0.001
Toluene	1	1	0.0011 J	0.0019 J	0.0023 J	0.000632 J	<0.0016	0.00059	0.00138	0.000442 J	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Vinyl chloride	0.002	0.002							<0.00011	<0.00011					
Xylenes (total)	10	10	<0.0031	<0.0031	<0.0015	0.000873 J	0.000879 J	<0.00058	0.000649 J	<0.00026	<0.0003	0.00046 J	<0.0003	0.0011	<0.0003
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.00005	<0.00005	<0.00005	<0.000105	<0.000104	<0.000105	<0.000104		<0.000021	<0.000021	<0.000021	<0.000021	<0.000021
2,4-Dimethylphenol	0.49	1.5	0.00031	0.00095	0.0014	R	<0.000292	0.000454 J	<0.000292		<0.00004	0.0015	<0.00004	<0.00004	<0.00004
2,4-Dinitrotoluene	0.0013	0.003	<0.00005	<0.00005	<0.00005	<0.000124	<0.000123	<0.000124	<0.000123		<0.000058	<0.000058	<0.000058	<0.000058	<0.000058
2,6-Dinitrotoluene	0.0013	0.003	<0.00006	<0.00006	<0.00006	<0.0000762	<0.0000755	<0.0000762	<0.0000755		<0.000042	<0.000042	<0.000042	<0.000042	<0.000042
2-Chloronaphthalene	2	5.8	<0.00005	<0.00005	<0.00005	<0.0000762	<0.0000755	<0.0000762	<0.0000755		<0.000021	<0.000021	<0.000021	<0.000021	<0.000021
2-Methylnaphthalene	0.098	0.29	0.00024	<0.00011	0.0025	0.00132	0.000301 J	0.00331	0.000188 J		<0.000019	0.00014	<0.000019	<0.000077	0.000072 J
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00008	<0.00008	<0.00008	<0.00079	<0.000783	<0.00079	<0.000783		<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
4-Nitrophenol	0.049	0.15	<0.00005	<0.00005	<0.00005	R	<0.000528	<0.000533	<0.000528		<0.000047	<0.000047	<0.000047	<0.000047	<0.000047
Acenaphthene	1.5	4.4	0.00013 J	<0.00005	0.0013	0.000647	<0.000755	0.00183	0.000235 J		<0.000027	0.00017	<0.000027	<0.000027	0.00012
Acenaphthylene	1.5	4.4	<0.00005	<0.00005	<0.00005	<0.0000571	<0.0000566	<0.0000571	<0.0000566		<0.000015	<0.000015	<0.000015	<0.000015	0.000053 J
Anthracene	7.3	22	<0.00005	<0.00005	0.00089	<0.0000476	<0.0000472	0.00106	<0.0000472		<0.000014	<0.000014	<0.000014	<0.000014	<0.000014
Benzo(a)anthracene	0.0091	0.02	<0.00005	<0.00005	0.00018 J	<0.0000762	<0.0000755	0.000276 J	<0.0000755		<0.00005	<0.00005	<0.00005	<0.000051	<0.00005
Benzo(a)pyrene	0.0002	0.0002	<0.00005	<0.00005	<0.00005	<0.0000762	<0.0000755	0.000171 J	<0.0000755		<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00005	<0.00005	<0.00005	<0.000124	<0.000123	<0.000124	<0.000123		<0.00003	<0.00003	<0.00003	<0.00003	<0.00003
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	0.001	<0.0015	0.0018	0.000637	0.00157 J	<0.000352	<0.000349		0.00015 J	<0.000037	<0.000056	<0.000044	0.00032
Chrysene	0.91	2	<0.00005	<0.00005	0.00016 J	<0.0000762	<0.0000755	0.000301 J	<0.0000755		<0.000021	<0.000021	<0.000021	<0.000021	<0.000021
Dibenzofuran	0.098	0.29	0.0002 J	<0.000078	0.0018	0.000168 J	<0.0000755	0.00192	0.0000942 J		<0.00002	<0.00002	<0.00002	0.000066 J	0.000064 J
Di-n-butylphthalate (DBP)	2.4	7.3	<0.00005	<0.00005	0.00011 J	<0.000105	<0.000104	<0.000105	<0.000104		<0.00002	<0.00002	0.0001 J	<0.00002	0.000067 J
Fluoranthene	0.98	2.9	<0.00005	<0.00005	0.0016	<0.0000667	<0.000066	0.00233	<0.000066		<0.00001	<0.00001	0.00021	<0.00001	<0.00001
Fluorene	0.98	2.9	0.0001 J	<0.00005	0.0012	0.00034 J	0.000135 J	0.00167	0.000155 J		<0.00003	0.00012	<0.00003	0.000057 J	0.000051 J
Naphthalene	0.49	1.5	0.0027	<0.0015	0.015	0.0129	0.00643 J	0.0112	0.00274		0.00088	0.0032	0.00035	<0.00079	0.011
Nitrobenzene	0.049	0.15	<0.00005	<0.00005	<0.00005	<0.000105	<0.000104	<0.000105	<0.000104		<0.000024	<0.000024	<0.000024	<0.000024	<0.000024
N-Nitrosodiphenylamine	0.19	0.42	<0.00005	<0.00005	<0.00005	<0.0000952	<0.0000943	<0.0000952	<0.0000943		<0.000025	<0.000025	<0.000025	<0.000025	<0.000025
Pentachlorophenol	0.001	0.001	<0.00005	<0.00005	<0.00005	R	<0.000575	<0.000581	<0.000575		<0.000079	<0.000079	<0.000079	<0.000079	<0.000079
Phenanthrene	0.73	2.2	0.00016 J	<0.00005	0.005	0.000499	<0.000566	0.00585	<0.000566		<0.000021	0.0001	<0.000021	0.000062 J	<0.000021
Phenol	7.3	22	0.0049	0.0074	0.000062 J	R	<0.000377	<0.000381	<0.000377		<0.000035	<0.000035	<0.000035	<0.000035	0.00026
Pyrene	0.73	2.2	<0.00005	<0.00005	0.00086	<0.000105	<0.000104	0.0014	<0.000104		<0.000019	<0.000019	0.00015	<0.000019	<0.000019
Metals															
Arsenic	0.01	0.01									<0.0004	0.000618 J	<0.0004	<0.0004	<0.0004

Notes:

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- Concentrations > C/I AL and non-detects are highlighted dark gray
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- RAL = Residential Assessment Level, C/I = Commercial/Industrial
- J = Estimated value, < = not detected at the specified detection limit.
- MW-32A was screened in the B-CZ & replaced with MW-32AR
- Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

TABLE 2
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CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS

	Residential Assessment Level	C/I PCL	MW-68C 01/17/2020	MW-68C 07/27/2020	MW-69A 07/15/2010	MW-69A 01/19/2011	MW-69A 07/21/2011	MW-69A 02/08/2012	MW-69A 07/24/2012	MW-69A 02/07/2013	MW-69A 08/06/2013	MW-69A 01/24/2014	MW-69A 07/16/2014	MW-69A 01/28/2018	MW-69A 03/20/2018
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.0002	<0.0002	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00014	<0.00014	<0.0002	<0.00014	<0.0002	<0.0002
Benzene	0.005	0.005	0.00056 J	<0.0002	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00008	<0.00008	<0.0002	<0.00008	<0.0002	<0.0002
Chlorobenzene	0.1	0.1	<0.0003	<0.0003	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00012	<0.00012	<0.00018	<0.00012	<0.0003	<0.0003
Ethylbenzene	0.7	0.7	0.00047 J	<0.0003	<0.0005	<0.0005	<0.0011	<0.0011	<0.0005	<0.00011	<0.00011	<0.00019	<0.00011	<0.0003	<0.0003
Methylene chloride	0.005	0.005	<0.001	<0.001	<0.0005	<0.0005	<0.0013	<0.0013	<0.001	<0.00015	<0.00015	<0.00022	<0.00015	<0.001	<0.001
Toluene	1	1	<0.0002	<0.0002	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00015	<0.00015	<0.00017	<0.00015	<0.0002	<0.0002
Vinyl chloride	0.002	0.002					<0.001	<0.001	<0.0005	<0.00011	<0.00011	<0.00018	<0.00011	<0.0002	<0.0002
Xylenes (total)	10	10	0.00062 J	<0.0003	<0.001	<0.001	<0.0031	<0.0031	<0.0015	<0.00026	<0.00026	<0.00058	<0.00026	<0.0003	<0.0003
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.000021	<0.000021	<0.0001	<0.0001	<0.00005	<0.00005	<0.00005	<0.000105	<0.00011	<0.000106	<0.000104	<0.000021	<0.000021
2,4-Dimethylphenol	0.49	1.5	<0.00004	<0.00004	0.0036	<0.00008	<0.00005	<0.00005	0.000078 J	<0.000295	<0.00031	<0.000298	<0.000292	<0.00004	<0.00004
2,4-Dinitrotoluene	0.0013	0.003	<0.000058	<0.000058	<0.00009	<0.00009	<0.00005	<0.00005	<0.000124	<0.00013	<0.000125	<0.000123	<0.000058	<0.000058	<0.000058
2,6-Dinitrotoluene	0.0013	0.003	<0.000042	<0.000042	<0.00007	<0.00007	<0.00006	<0.00006	<0.0000762	<0.00008	<0.0000769	<0.0000755	<0.000042	<0.000042	<0.000042
2-Chloronaphthalene	2	5.8	<0.000021	<0.000021	<0.0001	<0.0001	<0.00005	<0.00005	<0.00005	<0.0000762	<0.00008	<0.0000769	<0.0000755	<0.000021	<0.000021
2-Methylnaphthalene	0.098	0.29	0.00033	<0.00013	0.0038	0.000074 J	<0.00005	<0.00005	0.0009	<0.0000667	<0.00007	<0.0000673	<0.000066	<0.000019	<0.000019
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00002	<0.00002	<0.00008	<0.00008	<0.00008	<0.00008	<0.00079	<0.00083	<0.000798	<0.000783	<0.00002	<0.00002	<0.00002
4-Nitrophenol	0.049	0.15	<0.000047	<0.000047	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.000533	<0.00056	<0.000538	<0.000528	<0.000047	<0.000047
Acenaphthene	1.5	4.4	0.000036 J	0.00038	0.0037	0.00025	<0.00005	<0.00005	0.00082	<0.0000762	<0.00008	<0.0000769	<0.0000755	<0.000027	<0.000027
Acenaphthylene	1.5	4.4	0.000023 J	0.000074 J	<0.00007	<0.00007	<0.00005	<0.00005	<0.0000571	<0.00006	<0.0000577	<0.0000566	<0.000015	<0.000015	<0.000015
Anthracene	7.3	22	0.000036 J	0.00071	0.0039	0.00024	<0.00005	<0.00005	0.00047	<0.0000476	<0.00005	0.000497	<0.0000472	<0.000014	<0.000014
Benzo(a)anthracene	0.0091	0.02	0.000055 J	<0.00039	0.0049	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000762	<0.00008	<0.0000769	<0.0000755	<0.00005	<0.00005
Benzo(a)pyrene	0.0002	0.0002	0.000063 J	<0.00014	0.00013 J	<0.00008	<0.00005	<0.00005	<0.00005	<0.0000762	<0.00008	<0.0000769	<0.0000755	<0.00002	<0.00002
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00003	<0.00003	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.000124	<0.00013	<0.000125	<0.000123	<0.00003	<0.00003
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	0.00029	0.00016 J	0.0059	0.00081	0.00086	<0.00018	<0.0003	<0.000352	<0.00037	<0.000356	<0.000349	0.00028	0.00038
Chrysene	0.91	2	0.000054 J	<0.0003	0.0032	0.00011 J	<0.00005	<0.00005	<0.00005	<0.0000762	<0.00008	<0.0000769	<0.0000755	<0.000021	<0.000021
Dibenzofuran	0.098	0.29	0.00003 J	0.00042	0.003	0.00022	<0.00005	<0.00005	0.00071	<0.0000762	<0.00008	<0.0000769	<0.0000755	<0.00002	<0.00002
Di-n-butylphthalate (DBP)	2.4	7.3	<0.00002	<0.000021	<0.00007	<0.00007	0.000069 J	<0.00005	<0.00005	<0.000105	<0.00011	<0.000855	<0.000104	<0.00002	<0.00002
Fluoranthene	0.98	2.9	0.000074 J	0.0019	0.0025	0.00057	0.000059 J	<0.00005	0.00045	<0.0000667	<0.00007	<0.0000673	<0.000066	<0.00001	<0.00001
Fluorene	0.98	2.9	0.000036 J	0.00047	0.0033	0.00036	<0.00005	<0.00005	0.00085	<0.0000667	<0.00007	<0.0000673	<0.000066	<0.00003	<0.00003
Naphthalene	0.49	1.5	<0.00052	<0.00066	0.026	0.00011 J	<0.00005	<0.00029	<0.004	<0.000142	<0.00008	<0.000713	<0.000155	<0.00019	<0.00002
Nitrobenzene	0.049	0.15	<0.000024	<0.000024	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.000105	<0.00011	<0.000106	<0.000104	<0.000024	<0.000024
N-Nitrosodiphenylamine	0.19	0.42	<0.000025	<0.000025	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.0000952	<0.0001	<0.0000962	<0.0000943	<0.000025	<0.000025
Pentachlorophenol	0.001	0.001	<0.000079	<0.000079	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005	<0.000581	<0.00061	<0.000587	<0.000575	<0.000079	<0.000079
Phenanthrene	0.73	2.2	0.000042 J	0.0024	0.0083	0.0012	<0.00005	<0.00005	0.0022	<0.0000571	<0.00006	<0.00039	<0.0000566	<0.000021	<0.000021
Phenol	7.3	22	<0.000035	<0.000035	0.0069	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000381	<0.00004	<0.0000385	<0.0000377	<0.000035	<0.000035
Pyrene	0.73	2.2	0.000092 J	0.0013	0.0022	0.00037	<0.00005	<0.00005	0.00033	<0.000105	<0.00011	<0.000106	<0.000104	<0.000019	0.000055 J
Metals															
Arsenic	0.01	0.01	<0.0004	<0.0004										0.00916	0.0017 J

Notes:

- All values in milligrams per liter (mg/L).
- Concentrations > RAL and non-detects are highlighted light gray.
- Concentrations > C/I AL and non-detects are highlighted dark gray
- TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
- RAL = Residential Assessment Level, C/I = Commercial/Industrial
- J = Estimated value, < = not detected at the specified detection limit.
- MW-32A was screened in the B-CZ & replaced with MW-32AR
- Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-69A 05/24/2018	MW-69A 01/10/2019	MW-69A 07/17/2019	MW-69A 07/21/2020	MW-70C 03/12/2020	MW-70C 03/12/2020 Duplicate	MW-70C 05/21/2020	MW-70C 05/21/2020 Duplicate	MW-70C 07/28/2020	MW-70C 08/18/2020	MW-73B 02/02/2012	MW-73B 07/16/2012	MW-73B 01/30/2013
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.001	<0.0005	<0.00014
Benzene	0.005	0.005	<0.0002	<0.0002	<0.0002	<0.0002	0.01	0.0089	0.019	0.018	0.021		0.0097	<0.0005	0.000218 J
Chlorobenzene	0.1	0.1	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.001	<0.0005	<0.00012
Ethylbenzene	0.7	0.7	<0.0003	<0.0003	<0.0003	<0.0003	0.057	0.052	0.11	0.12	0.11		0.0059	<0.0005	<0.00011
Methylene chloride	0.005	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0013	<0.001	<0.00015
Toluene	1	1	<0.0002	<0.0002	<0.0002	<0.0002	0.034	0.032	0.056	0.06	0.056		0.015	<0.0005	0.000336 J
Vinyl chloride	0.002	0.002	<0.0002	<0.0002	<0.0002	<0.0002									
Xylenes (total)	10	10	<0.0003	<0.0003	<0.0003	<0.0003	0.064	0.061	0.13	0.14	0.11		0.0059 J	<0.0015	<0.00026
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.000021	<0.000021	<0.000021	<0.000021	<0.000022	<0.000022	<0.000021	<0.000021		<0.000021	<0.0005	<0.00005	<0.000104
2,4-Dimethylphenol	0.49	1.5	<0.00004	<0.00004	<0.00004	0.00018 J	0.00041	<0.000041	<0.00004	<0.00004		<0.00004	0.007	0.0028	<0.000292
2,4-Dinitrotoluene	0.0013	0.003	<0.000058	<0.000058	<0.000058	<0.000058	<0.00006	<0.00006	<0.000058	<0.000058		<0.000058	<0.0005	<0.00005	<0.000123
2,6-Dinitrotoluene	0.0013	0.003	<0.000042	<0.000042	<0.000042	<0.000042	<0.000044	<0.000043	<0.000042	<0.000042		<0.000042	<0.0006	<0.00006	<0.0000755
2-Chloronaphthalene	2	5.8	<0.000021	<0.000021	<0.000021	<0.000021	<0.000022	<0.000022	<0.000021	<0.000021		<0.000021	<0.0005	<0.00005	<0.0000755
2-Methylnaphthalene	0.098	0.29	<0.000019	<0.000019	<0.000019	<0.000019	0.067 J	0.098 J	0.05	0.047		<0.000019	0.00055 J	0.00011 J	<0.000066
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00002	<0.00002	<0.00002	<0.00002	<0.000021	<0.000021	<0.00002	<0.00002		<0.00002	<0.0008	<0.00008	<0.000783
4-Nitrophenol	0.049	0.15	<0.000047	<0.000047	<0.000047	<0.000047	<0.000049	<0.000048	<0.000047	<0.000047		<0.000047	<0.0005	<0.00005	<0.000528
Acenaphthene	1.5	4.4	<0.000027	<0.000027	<0.000027	<0.000027	0.059 J	0.087 J	0.068	0.053		0.00023	0.012	0.00016 J	<0.000185
Acenaphthylene	1.5	4.4	<0.000015	<0.000015	<0.000015	<0.000015	<0.000016	0.0074	0.0066	0.0048		<0.000015	0.0013 J	<0.00005	0.0000696 J
Anthracene	7.3	22	<0.000014	<0.000014	<0.000014	<0.000014	0.0049 J	0.0082 J	0.0035	0.0029		<0.000014	<0.0005	0.00012 J	0.000186 J
Benzo(a)anthracene	0.0091	0.02	<0.00005	<0.00005	<0.00005	<0.00005	<0.000052	0.000079 J	<0.00005	<0.00005		<0.00005	<0.0005	0.000057 J	<0.0000755
Benzo(a)pyrene	0.0002	0.0002	<0.00002	<0.00002	<0.00002	<0.00002	<0.000021	<0.000021	<0.00002	<0.00002		<0.00002	<0.0005	<0.00005	<0.0000755
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00003	<0.00003	<0.00003	<0.00003	<0.000031	<0.000031	<0.00003	<0.00003		<0.00003	<0.0005	<0.00005	<0.000123
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	0.00025	<0.000037	<0.000034	0.000063 J	<0.000039	0.000052 J	<0.000037	<0.000037		<0.000037	<0.001	0.00012 J	<0.000349
Chrysene	0.91	2	<0.000021	<0.000021	<0.000021	<0.000021	<0.000022	0.000061 J	<0.000021	<0.000021		<0.000021	<0.0005	0.000096 J	<0.0000755
Dibenzofuran	0.098	0.29	<0.00002	<0.00002	<0.00002	<0.00002	0.055 J	0.078 J	0.053	0.046		<0.00002	0.00078 J	0.000067 J	<0.0000755
Di-n-butylphthalate (DBP)	2.4	7.3	<0.00002	<0.00002	<0.00002	<0.00002	0.000061 J	0.0001 J	0.00016 J	0.0001 J		<0.00002	<0.0005	<0.00005	<0.000104
Fluoranthene	0.98	2.9	<0.00001	<0.00001	<0.00001	<0.00001	0.003 J	0.0053 J	0.0027	0.002		<0.00001	0.01	0.000059 J	0.000138 J
Fluorene	0.98	2.9	<0.00003	<0.00003	<0.00003	<0.00003	0.028 J	0.038 J	0.034	0.027		0.00013	0.0041	0.00021	<0.000066
Naphthalene	0.49	1.5	0.00008 J	<0.00002	<0.000078	0.00019	1.6 J	2.5 J	1.1	1.2		<0.00002	0.0014 J	<0.00064	<0.000436
Nitrobenzene	0.049	0.15	<0.000024	<0.000024	<0.000024	<0.000024	<0.000025	<0.000025	<0.000024	<0.000024		<0.000024	<0.0005	<0.00005	<0.000104
N-Nitrosodiphenylamine	0.19	0.42	<0.000025	<0.000025	<0.000025	<0.000025	<0.000026	<0.000026	<0.000025	<0.000025		<0.000025	<0.0005	<0.00005	<0.0000943
Pentachlorophenol	0.001	0.001	<0.000079	<0.000079	<0.000079	<0.000079	<0.000082	<0.000081	<0.000079	<0.000079		<0.000079	<0.0005	<0.00005	<0.000575
Phenanthrene	0.73	2.2	<0.000021	<0.000021	<0.000021	<0.000021	0.04	0.054	0.03	0.026		0.00012	0.00087 J	0.000089 J	<0.0000566
Phenol	7.3	22	<0.000035	<0.000035	<0.000035	0.000099 J	<0.000036	<0.000036	<0.000035	<0.000035		<0.000035	0.0053	0.00015 J	<0.0000377
Pyrene	0.73	2.2	<0.000019	<0.000019	<0.000019	<0.000019	0.0017 J	0.0029 J	0.0011	0.00082		<0.000019	0.0077	<0.00005	<0.000104
Metals															
Arsenic	0.01	0.01	0.0142	0.000717 J	0.000642 J	0.0278	0.00598	0.0047	0.00663	0.00606	0.00579				

Notes:

- All values in milligrams per liter (mg/L).
- Concentrations > RAL and non-detects are highlighted light gray.
- Concentrations > C/I AL and non-detects are highlighted dark gray
- TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
- RAL = Residential Assessment Level, C/I = Commercial/Industrial
- J = Estimated value, < = not detected at the specified detection limit.
- MW-32A was screened in the B-CZ & replaced with MW-32AR
- Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-73B 07/30/2013	MW-73B 01/15/2014	MW-73B 07/18/2014	MW-74B 02/09/2012	MW-74B 07/26/2012	MW-74B 04/02/2013	MW-74B 01/29/2014	MW-74B 08/28/2014	MW-74B 01/30/2018	MW-74B 03/28/2018	MW-74B 06/07/2018	MW-74B 01/23/2019	MW-74B 07/30/2019
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	0.000678 J	<0.0002	<0.00014	<0.01	<0.005	<0.0028	<0.0007	<0.0028	<0.0002	<0.0002	<0.0002	<0.002	<0.001
Benzene	0.005	0.005	0.000156 J	<0.0002	0.00309	0.35	0.71	0.552	0.795	0.652	0.47	0.58	0.71	0.83	0.59
Chlorobenzene	0.1	0.1	<0.00012	<0.00018	<0.00012	<0.01	<0.005	<0.0024	<0.0006	<0.0024	<0.0003	<0.0003	<0.0003	<0.003	<0.0015
Ethylbenzene	0.7	0.7	<0.00011	0.000437 J	<0.00011	0.086	0.14	0.147	0.203	0.2	0.25	0.12	0.17 J	0.22	0.15
Methylene chloride	0.005	0.005	<0.00015	<0.00022	<0.00015	<0.013	<0.01	<0.003	<0.00075	<0.003	<0.001	<0.001	<0.001	<0.01	<0.005
Toluene	1	1	<0.00015	0.000575	<0.00015	0.32	0.56	0.533	0.774	0.741	0.75	0.56	0.74	0.69	0.52
Vinyl chloride	0.002	0.002			<0.00011										
Xylenes (total)	10	10	<0.00026	0.00133 J	<0.00026	0.25	0.38	0.427	0.553	0.558	0.53	0.33	0.51 J	0.63	0.42
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.000107	<0.000104	<0.000109	<0.0005	<0.0005	<0.106	<0.208	<0.216	<0.0021	<0.00021	<0.0021	<0.00021	<0.000021
2,4-Dimethylphenol	0.49	1.5	<0.000301	0.000946 J	<0.000307	55	41	56.9	525	70.6	59	30	57	9	37
2,4-Dinitrotoluene	0.0013	0.003	<0.000126	<0.000123	<0.000129	<0.0005	<0.0005	<0.125	<0.245	<0.255	<0.0058	<0.00058	<0.0058	<0.00058	<0.000058
2,6-Dinitrotoluene	0.0013	0.003	<0.0000777	<0.0000755	<0.0000792	<0.0006	<0.0006	<0.0769	<0.151	<0.157	<0.0042	<0.00042	<0.0042	<0.00042	<0.000042
2-Chloronaphthalene	2	5.8	<0.0000777	<0.0000755	<0.0000792	<0.0005	<0.0005	<0.0769	<0.151	<0.157	<0.0021	<0.00021	<0.0021	<0.00021	<0.000021
2-Methylnaphthalene	0.098	0.29	0.0000878 J	0.0161	<0.0000693	0.39	0.43 J	0.673	5.52	0.95 J	0.3	2.4	0.99	0.22	0.48
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.000806	<0.000783	<0.000822	<0.0008	<0.0008	<0.798	<1.57	<1.63	<0.002	<0.0002	<0.002	<0.0002	<0.00002
4-Nitrophenol	0.049	0.15	<0.000544	<0.000528	<0.000554	<0.0005	<0.0005	<0.538	<1.06	<1.1	0.033 J	<0.00047	<0.0047	<0.00047	<0.000047
Acenaphthene	1.5	4.4	0.000118 J	0.0112	<0.0000792	0.29	0.21	0.31 J	2.4	0.413 J	0.31	1.4	0.33	0.98	0.24
Acenaphthylene	1.5	4.4	<0.0000583	<0.0000566	<0.0000594	0.0058	0.0062	<0.0577	<0.113	<0.118	0.012	0.019	0.0098 J	0.0032	0.0037
Anthracene	7.3	22	0.000245 J	0.00462	0.00015 J	0.037	0.024	<0.0481	0.282 J	<0.098	0.027	0.58	0.034	0.0074	0.0071
Benzo(a)anthracene	0.0091	0.02	<0.0000777	0.00131	<0.0000792	<0.0005	0.0022	<0.0769	<0.151	<0.157	<0.005	0.22	<0.005	<0.0005	0.00022
Benzo(a)pyrene	0.0002	0.0002	<0.0000777	0.00039 J	<0.0000792	<0.0005	0.00085 J	<0.0769	<0.151	<0.157	<0.002	0.064	<0.002	<0.0002	<0.00002
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.000126	<0.000123	<0.000129	<0.0005	<0.0005	<0.125	<0.245	<0.255	<0.003	<0.0003	<0.003	<0.0003	<0.00003
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	<0.000359	0.0015 J	0.000603	<0.001	<0.001	<0.356	<0.698	<0.725	<0.0037	<0.00037	<0.0037	<0.00037	<0.000037
Chrysene	0.91	2	<0.0000777	0.00119	<0.0000792	<0.0005	0.0018 J	<0.0769	<0.151	<0.157	<0.0021	0.23	<0.0021	<0.00021	0.00016
Dibenzofuran	0.098	0.29	<0.0000777	0.0102	<0.0000792	0.25	0.19	0.252 J	1.84	<0.157	0.24	1.4	0.24	0.079	0.19
Di-n-butylphthalate (DBP)	2.4	7.3	0.000133 J	0.000169 J	<0.000109	<0.0005	<0.0005	<0.106	<0.208	<0.216	<0.002	<0.0002	<0.002	<0.0002	<0.00002
Fluoranthene	0.98	2.9	<0.000068	0.00937	<0.0000693	0.0044	0.018	<0.0673	<0.132	<0.137	0.015	1.4	0.017	0.0038	0.0035
Fluorene	0.98	2.9	0.0000805 J	0.00951	<0.0000693	0.17	0.14 J	0.196 J	1.34	0.263 J	0.19	1.4	0.19	0.056	0.14
Naphthalene	0.49	1.5	<0.000674	0.0906	<0.0000792	16	10	13.9	139	17.9	18	21	19	4	13 J
Nitrobenzene	0.049	0.15	<0.000107	<0.000104	<0.000109	<0.0005	<0.0005	<0.106	<0.208	<0.216	<0.0024	<0.00024	<0.0024	<0.00024	<0.000024
N-Nitrosodiphenylamine	0.19	0.42	<0.0000971	<0.0000943	<0.000099	<0.0005	<0.0005	<0.0962	<0.189	<0.196	<0.0025	<0.00025	<0.0025	<0.00025	<0.000025
Pentachlorophenol	0.001	0.001	<0.000592	<0.000575	<0.000604	<0.0005	<0.0005	<0.587	<1.15	<1.2	<0.0079	<0.00079	<0.0079	<0.00079	<0.000079
Phenanthrene	0.73	2.2	0.000228 J	0.0348	<0.0000594	0.15	0.15	0.169 J	1.28	0.307 J	0.16	3.7	0.17	0.046	0.087
Phenol	7.3	22	<0.0000388	0.000522	<0.0000396	43	38	63.2	420	53.3	56	25	39	5	33
Pyrene	0.73	2.2	<0.000107	0.00725	<0.000109	0.005	0.01	<0.106	<0.208	<0.216	0.0079 J	0.83	0.0077 J	0.002	0.0023
Metals															
Arsenic	0.01	0.01									0.00162 J	0.00142 J	0.00131 J	0.0014 J	0.00128 J

Notes:

1. All values in milligrams per liter (mg/L).
2. Concentrations > RAL and non-detects are highlighted light gray.
3. Concentrations > C/I AL and non-detects are highlighted dark gray
4. TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
5. RAL = Residential Assessment Level, C/I = Commercial/Industrial
6. J = Estimated value, < = not detected at the specified detection limit.
7. MW-32A was screened in the B-CZ & replaced with MW-32AR
8. Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-74B 01/17/2020	MW-74B 07/21/2020	MW-75B 02/08/2012 DNAPL	MW-75B 07/26/2012 DNAPL	MW-75B 04/02/2013 DNAPL	MW-75B 01/29/2014 DNAPL	MW-75B 07/24/2014 DNAPL	MW-75B 01/17/2020	MW-75B 07/21/2020	MW-76B 03/12/2020	MW-76B 05/26/2020	MW-76B 07/20/2020	MW-76C 07/24/2014
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.0002	<0.0002	<0.01	<0.0025	<0.0028	<0.0007	<0.00014	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0014
Benzene	0.005	0.005	0.12	0.78	0.61	0.85	0.369	0.502	0.298	0.12	0.0072	<0.0002	<0.0002	<0.0002	0.000149 J
Chlorobenzene	0.1	0.1	<0.0003	<0.0003	<0.01	<0.0025	<0.0024	<0.0006	<0.00012	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00012
Ethylbenzene	0.7	0.7	0.076	0.16	0.13	0.1	0.069	0.0773	0.0737	0.037	0.04	<0.0003	<0.0003	<0.0003	<0.00011
Methylene chloride	0.005	0.005	<0.001	<0.001	<0.013	<0.005	<0.003	<0.00075	<0.00015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00015
Toluene	1	1	0.29	0.69	0.51	0.5	0.282	0.328	0.273	0.13	0.05	<0.0002	<0.0002	<0.0002	0.000156 J
Vinyl chloride	0.002	0.002							<0.00011						<0.00011
Xylenes (total)	10	10	0.2	0.41	0.41	0.33	0.247	0.276	0.255	0.11	0.13	<0.0003	<0.0003	<0.0003	<0.00026
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.000021	<0.000021	<0.0005	<0.0005	<0.00212	<0.0519	<0.00214	<0.000021	<0.000021	<0.000022	<0.000021	<0.000021	<0.000104
2,4-Dimethylphenol	0.49	1.5	0.21	8.3	0.18	6.4	0.0695	6.35	<0.00602	0.86	0.0046	<0.000042	<0.00004	0.00021	<0.000292
2,4-Dinitrotoluene	0.0013	0.003	<0.000058	<0.000058	<0.0005	<0.0005	<0.0025	<0.0613	<0.00252	<0.000058	<0.000058	<0.00006	<0.000058	<0.000058	<0.000123
2,6-Dinitrotoluene	0.0013	0.003	<0.000042	<0.000042	<0.0006	<0.0006	<0.00154	<0.0377	<0.00155	<0.000042	<0.000042	<0.000044	<0.000042	<0.000042	<0.0000755
2-Chloronaphthalene	2	5.8	<0.000021	<0.000021	<0.0005	<0.0005	<0.00154	<0.0377	<0.00155	<0.000021	<0.000021	<0.000022	<0.000021	<0.000021	<0.0000755
2-Methylnaphthalene	0.098	0.29	1.3	0.6	0.62	0.6 J	0.101	3.18	0.546	0.81	0.11	<0.00002	<0.000019	0.0002	0.000392 J
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00002	<0.00002	<0.0008	<0.0008	<0.016	<0.392	<0.0161	<0.00002	<0.00002	<0.000021	<0.00002	<0.00002	<0.000783
4-Nitrophenol	0.049	0.15	<0.000047	<0.000047	<0.0005	<0.0005	<0.0108	<0.264	<0.0109	<0.000047	<0.000047	<0.000049	<0.000047	<0.000047	<0.000528
Acenaphthene	1.5	4.4	0.98	0.32	0.34	0.26	0.0697	2.57	0.429	0.67	0.057	<0.000028	<0.000027	0.00017	0.000696
Acenaphthylene	1.5	4.4	0.018	0.0083	0.013	0.0058	<0.00115	0.0672 J	0.0121	0.0086	0.0013	<0.000016	<0.000015	<0.000015	<0.0000566
Anthracene	7.3	22	0.42	0.083	0.035	0.045	0.00948 J	0.605	0.0626	0.39	0.009	<0.000015	<0.000014	0.000076 J	0.000234 J
Benzo(a)anthracene	0.0091	0.02	0.13	0.037	0.00064 J	0.0047	<0.00154	0.0667 J	0.00748 J	0.12	0.0019	<0.000052	<0.00005	0.00011	<0.0000755
Benzo(a)pyrene	0.0002	0.0002	0.034	0.012	<0.0005	0.0013 J	<0.00154	<0.0377	<0.00155	0.035	0.00064 J	<0.000021	<0.00002	0.000066 J	<0.0000755
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00003	<0.00003	<0.0005	<0.0005	<0.0025	<0.0613	<0.00252	<0.00003	<0.00003	<0.000031	<0.00003	<0.00003	<0.000123
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	0.0014	<0.00037	<0.001	<0.001	<0.00712	<0.175	<0.00718	0.0021	<0.00037	<0.000039	0.000039 J	0.000046 J	0.000803
Chrysene	0.91	2	0.082	0.03	0.00062 J	0.0042	<0.00154	0.0704 J	0.00677 J	0.095	0.0015	<0.000022	<0.000021	0.00011	<0.0000755
Dibenzofuran	0.098	0.29	0.72	0.27	0.29	0.23	0.0533	1.56	0.214	0.54		<0.000021	<0.00002	0.00013	0.000507
Di-n-butylphthalate (DBP)	2.4	7.3	0.0022	<0.0002	<0.0005	<0.0005	<0.00212	<0.0519	<0.00214	0.0016	<0.0002	0.000025 J	<0.00002	0.000027 J	<0.000104
Fluoranthene	0.98	2.9	0.67	0.2	0.016	0.04	0.0103	0.708	0.0914	0.75	0.0098	<0.00001	<0.00001	0.00025	0.000322 J
Fluorene	0.98	2.9	0.88	0.29	0.19	0.17 J	0.0425	1.59	0.218	0.61	0.041	<0.000031	<0.00003	0.00013	0.000778
Naphthalene	0.49	1.5	8.5	5.9	8.9	9.3	0.211	27.1	5.7	7.5	1.4	0.000096 J	<0.00002	0.0002	0.00176
Nitrobenzene	0.049	0.15	<0.000024	<0.000024	<0.0005	<0.0005	<0.00212	<0.0519	<0.00214	<0.000024	<0.000024	<0.000025	<0.000024	<0.000024	<0.000104
N-Nitrosodiphenylamine	0.19	0.42	<0.000025	<0.000025	<0.0005	<0.0005	<0.00192	<0.0472	<0.00194	<0.000025	<0.000025	<0.000026	<0.000025	<0.000025	<0.0000943
Pentachlorophenol	0.001	0.001	<0.000079	<0.000079	<0.0005	<0.0005	<0.0117	<0.288	<0.0118	<0.000079	<0.000079	<0.000082	<0.000079	<0.000079	0.00272
Phenanthrene	0.73	2.2	2.3	0.58	0.24	0.27	0.0606	2.13	0.238	1.9	0.052	<0.000022	<0.000021	0.00023	0.00183
Phenol	7.3	22	0.048	5.5	0.0066	0.0027	0.0069 J	0.108 J	<0.000777	0.0029	<0.00035	<0.000036	<0.000035	<0.000035	0.00284
Pyrene	0.73	2.2	0.44	0.15	0.0098	0.026	0.00617 J	0.416	0.0537	0.51	0.0063	<0.00002	<0.000019	0.00015	0.000194 J
Metals															
Arsenic	0.01	0.01	0.000443 J	0.00137 J						0.00167 J	<0.0004	0.00115 J	0.00404	0.00383	

Notes:

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- TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
- RAL = Residential Assessment Level, C/I = Commercial/Industrial
- J = Estimated value, < = not detected at the specified detection limit.
- MW-32A was screened in the B-CZ & replaced with MW-32AR
- Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-76C 10/03/2014	MW-76C 01/30/2018	MW-76C 03/28/2018	MW-76C 05/25/2018	MW-76C 01/23/2019	MW-76C 07/30/2019	MW-76C 01/09/2020	MW-76C 07/20/2020	MW-77A 07/24/2014	MW-77A 01/30/2018	MW-77A 03/28/2018	MW-77A 05/24/2018	MW-77A 02/01/2019
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00014	<0.0002	<0.0002	<0.0002	<0.0002
Benzene	0.005	0.005		<0.0002	<0.0002	0.00021 J	<0.0002	<0.0002	<0.0002	<0.0002	<0.00008	0.054	0.063	0.053	<0.0002
Chlorobenzene	0.1	0.1		<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00012	<0.0003	<0.0003	<0.0003	<0.0003
Ethylbenzene	0.7	0.7		<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00011	0.059	0.063	0.044	<0.0003
Methylene chloride	0.005	0.005		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00015	<0.001	<0.001	<0.001	<0.001
Toluene	1	1		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00015	0.011	0.011	0.006	<0.0002
Vinyl chloride	0.002	0.002									<0.00011				
Xylenes (total)	10	10		<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00026	0.1	0.11	0.058	<0.0003
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.000107	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.00519	<0.00021	<0.00021	<0.00021	<0.000022
2,4-Dimethylphenol	0.49	1.5	<0.000301	0.0018	<0.00004	<0.00004	0.0041	<0.00004	<0.00038	0.00012 J	<0.0146	0.014	0.015	0.007	<0.000042
2,4-Dinitrotoluene	0.0013	0.003	<0.000126	<0.000058	<0.000058	<0.000059	<0.000058	<0.000058	<0.000058	<0.000058	<0.00613	<0.00058	<0.00058	<0.00058	<0.00006
2,6-Dinitrotoluene	0.0013	0.003	<0.0000777	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.00377	<0.00042	<0.00042	<0.00042	<0.000044
2-Chloronaphthalene	2	5.8	<0.0000777	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.00377	<0.00021	<0.00021	<0.00021	<0.000022
2-Methylnaphthalene	0.098	0.29	0.0000976 J	0.0001	0.00012	0.000032 J	0.00031	<0.000019	<0.00045	<0.000019	0.0571	0.2	0.28	0.085	<0.00002
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.000806	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.0392	<0.0002	<0.0002	<0.0002	<0.000021
4-Nitrophenol	0.049	0.15	<0.000544	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.0264	0.0044 J	<0.00047	<0.00047	<0.000049
Acenaphthene	1.5	4.4	0.00024 J	0.00015	0.00023	0.000071 J	0.00011	<0.000027	<0.00041	0.000049 J	0.0456	0.2	0.23	0.079	<0.000028
Acenaphthylene	1.5	4.4	<0.0000583	0.0002	<0.000015	<0.000015	<0.000015	<0.000015	0.000035 J	<0.000015	<0.00283	0.0032	0.0035	0.0012	<0.000016
Anthracene	7.3	22	0.00011 J	0.00006 J	0.000055 J	0.000048 J	0.000041 J	<0.000014	<0.00017	<0.000014	<0.00236	0.0034	0.0052	0.0025	<0.000015
Benzo(a)anthracene	0.0091	0.02	<0.0000777	<0.00005	<0.00005	<0.000051	<0.00005	<0.00005	0.00014	0.000069 J	<0.00377	<0.0005	<0.0005	<0.0005	<0.000052
Benzo(a)pyrene	0.0002	0.0002	0.000276 J	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	0.000037 J	0.000058 J	<0.00377	<0.0002	<0.0002	<0.0002	<0.000021
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.000126	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00613	<0.0003	<0.0003	<0.0003	<0.000031
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	0.000714	<0.00024	0.00015 J	0.000096 J	<0.000091	<0.000037	<0.00016	<0.000037	<0.0175	<0.00037	<0.00037	<0.00037	0.0001 J
Chrysene	0.91	2	<0.0000777	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	0.00013	0.000039 J	<0.00377	<0.00021	<0.00021	<0.00021	<0.000022
Dibenzofuran	0.098	0.29	0.000159 J	0.00012	0.00012	0.000056 J	0.00011	<0.00002	<0.00029	<0.00002	0.0229 J	0.086	0.09	0.04	<0.000021
Di-n-butylphthalate (DBP)	2.4	7.3	0.000124 J	<0.00002	<0.00002	0.00004 J	0.000027 J	0.000054 J	<0.00002	<0.00002	<0.00519	<0.0002	<0.0002	<0.0002	0.000081 J
Fluoranthene	0.98	2.9	0.000188 J	0.00019	0.00018	0.00007 J	<0.00001	<0.00001	0.001	0.000092 J	<0.0033	0.0014	0.0013	0.00067 J	<0.00001
Fluorene	0.98	2.9	0.000264 J	0.00016	0.00014	0.000076 J	0.000076 J	<0.00003	<0.00032	<0.00003	0.024	0.076	0.083	0.037	<0.000031
Naphthalene	0.49	1.5	0.000506	<0.0028	0.0019	0.00036	0.007	0.00018 J	<0.0038	<0.00002	0.884	7.8	6	1.5	<0.000021
Nitrobenzene	0.049	0.15	0.000124 J	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.00519	<0.00024	<0.00024	<0.00024	<0.000025
N-Nitrosodiphenylamine	0.19	0.42	<0.0000971	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.00472	<0.00025	<0.00025	<0.00025	<0.000026
Pentachlorophenol	0.001	0.001	<0.000592	<0.000079	<0.000079	<0.00008	<0.000079	<0.000079	<0.000079	<0.000079	<0.0288	<0.00079	<0.00079	<0.00079	<0.000082
Phenanthrene	0.73	2.2	0.000611	0.00051	0.00044	0.00023	0.000086 J	<0.000021	<0.00069	<0.000021	0.0262	0.026	0.035	0.019	<0.000022
Phenol	7.3	22	0.00163	0.0032	<0.000035	<0.000035	0.0012	<0.000035	<0.000035	<0.000035	<0.00189	<0.00035	<0.00035	<0.00035	<0.000036
Pyrene	0.73	2.2	0.000161 J	0.00016	0.00012	0.000048 J	<0.000019	<0.000019	0.0007	0.000069 J	<0.00519	0.00068 J	0.001	0.00037 J	<0.00002
Metals															
Arsenic	0.01	0.01		0.00157 J	0.000631 J	0.000527 J	0.000579 J	0.00216	0.00299	0.000427 J		0.0263	0.0187	0.019	0.00207

- Notes:
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 - RAL = Residential Assessment Level, C/I = Commercial/Industrial
 - J = Estimated value, < = not detected at the specified detection limit.
 - MW-32A was screened in the B-CZ & replaced with MW-32AR
 - Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-77A 07/30/2019	MW-77A 01/09/2020	MW-77A 07/20/2020	MW-78A 07/24/2014 DNAPL	MW-78A 01/17/2020 DNAPL	MW-78A 07/20/2020	MW-79A 08/28/2014	MW-79A 01/30/2018	MW-79A 03/28/2018	MW-79A 05/25/2018	MW-79A 01/23/2019	MW-79A 07/30/2019	MW-79A 01/17/2020
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.0002	<0.0002	<0.0002	<0.0007	<0.0002	<0.0002	<0.0007	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Benzene	0.005	0.005	0.063	0.058	0.021	0.0571	0.018	0.15	0.0485	1	0.3	0.36	0.45	0.013	0.12
Chlorobenzene	0.1	0.1	<0.0003	<0.0003	<0.0003	<0.0006	<0.0003	<0.0003	<0.0006	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Ethylbenzene	0.7	0.7	0.072	0.063	0.022	0.0637	0.011	0.13	0.0215	0.18	0.12	0.14	0.19	0.0067	0.075
Methylene chloride	0.005	0.005	<0.001	<0.001	<0.001	<0.00075	<0.001	<0.001	<0.00075	<0.001	<0.001	<0.001	<0.01	<0.001	<0.001
Toluene	1	1	0.012	0.0069	0.0024	0.1	0.033	0.27	0.076	0.99	0.44	0.48	0.55	0.018	0.26
Vinyl chloride	0.002	0.002				<0.00055									
Xylenes (total)	10	10	0.097	0.065	0.026	0.158	0.028	0.4	0.0763	0.48	0.31	0.41	0.54	0.023	0.2
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.000021	<0.000021	<0.000021	<0.0259	<0.000021	<0.00021	<0.00539	<0.00021	<0.00021	<0.00021	<0.00021	<0.000021	<0.000021
2,4-Dimethylphenol	0.49	1.5	0.062	0.055	0.0013	6.66	2.5	0.93	6.11	11	11	20	2.5	0.33	6.7
2,4-Dinitrotoluene	0.0013	0.003	<0.000058	<0.000058	<0.000058	<0.0307	<0.000058	<0.00058	<0.00637	<0.00058	<0.00058	<0.00058	<0.00058	<0.000058	<0.000058
2,6-Dinitrotoluene	0.0013	0.003	<0.000042	<0.000042	<0.000042	<0.0189	<0.000042	<0.00042	<0.00392	<0.00042	<0.00042	<0.00042	<0.00042	<0.000042	<0.000042
2-Chloronaphthalene	2	5.8	<0.000021	<0.000021	<0.000021	<0.0189	<0.000021	<0.00021	<0.00392	<0.00021	<0.00021	<0.00021	<0.00021	<0.000021	<0.000021
2-Methylnaphthalene	0.098	0.29	0.2	0.22	0.0023	0.879	0.13	0.44	0.654	0.17	0.42	0.44	0.1	0.051	0.43
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00002	<0.00002	<0.00002	<0.196	<0.00002	<0.0002	<0.0407	<0.0002	<0.0002	<0.0002	<0.0002	<0.00002	<0.00002
4-Nitrophenol	0.049	0.15	<0.000047	<0.000047	<0.000047	<0.132	<0.000047	<0.00047	<0.0275	<0.00047	<0.00047	0.016 J	<0.00047	<0.000047	<0.000047
Acenaphthene	1.5	4.4	0.16	0.13	0.009	0.497	0.071	0.3	0.427	0.13	0.17	0.16	0.039	0.034	0.19
Acenaphthylene	1.5	4.4	0.0013	0.0013	<0.000015	<0.0142	0.0015	<0.00015	0.0112 J	0.0045	<0.00015	0.0056	0.0015	0.0076	0.0036
Anthracene	7.3	22	0.0028	0.0036	0.00033	0.105 J	0.004	0.1	0.0673	0.0057	0.0092	0.0084	0.0021	0.002	0.0094
Benzo(a)anthracene	0.0091	0.02	<0.00005	<0.00005	<0.00005	0.0336 J	0.00043	0.042	0.00985 J	<0.0005	<0.0005	<0.0005	<0.0005	0.00023	0.00081
Benzo(a)pyrene	0.0002	0.0002	<0.00002	<0.00002	<0.00002	<0.0189	0.00014	0.015	<0.00392	<0.0002	<0.0002	<0.0002	<0.0002	<0.00002	0.00029
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00003	<0.00003	<0.00003	<0.0307	<0.00003	<0.0003	<0.00637	<0.0003	<0.0003	<0.0003	<0.0003	<0.00003	<0.00003
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	<0.000037	<0.000077	<0.000037	<0.0873	0.00092	0.00054 J	<0.0181	<0.00037	<0.00037	<0.00037	<0.00037	0.00055	<0.000037
Chrysene	0.91	2	<0.000021	0.000041 J	<0.000021	0.0248 J	0.00039	0.038	0.00948 J	<0.00021	<0.00021	<0.00021	<0.00021	0.00027	0.00072
Dibenzofuran	0.098	0.29	0.096	0.079	0.004	0.411	0.055	0.26	0.342	0.097	0.14	0.092	0.037	0.026	0.14
Di-n-butylphthalate (DBP)	2.4	7.3	<0.00002	<0.00002	<0.00002	<0.0259	0.0016	0.00059 J	<0.00539	<0.0002	<0.0002	<0.0002	<0.0002	<0.00002	0.00098
Fluoranthene	0.98	2.9	0.00052	0.00071	0.00012	0.165	0.0029	0.29	0.0713	0.0036	0.0051	0.0023	0.001	0.0012	0.0076
Fluorene	0.98	2.9	0.078	0.067	0.0042	0.382	0.04	0.28	0.291	0.063	0.081	0.056	0.022	0.017	0.094
Naphthalene	0.49	1.5	4.9 J	4.7	0.01	7.18	3.1	2.5	6.89	7.9	8.5	15	1.9	0.74 J	9
Nitrobenzene	0.049	0.15	<0.000024	<0.000024	<0.000024	<0.0259	<0.000024	<0.00024	<0.00539	<0.00024	<0.00024	<0.00024	<0.00024	<0.000024	<0.000024
N-Nitrosodiphenylamine	0.19	0.42	<0.000025	<0.000025	<0.000025	<0.0236	<0.000025	<0.00025	<0.0049	<0.00025	<0.00025	<0.00025	<0.00025	<0.000025	<0.000025
Pentachlorophenol	0.001	0.001	<0.000079	<0.000079	<0.000079	<0.144	<0.000079	<0.00079	<0.0299	<0.00079	<0.00079	<0.00079	<0.00079	<0.000079	<0.000079
Phenanthrene	0.73	2.2	0.032	0.031	0.0018	0.604	0.031	0.72	0.355	0.038	0.049	0.039	0.012	0.0082	0.081
Phenol	7.3	22	<0.000035	<0.000035	<0.000035	0.192	0.13	0.015	1.13	2.6	4	4.2	0.51	0.063	0.35
Pyrene	0.73	2.2	0.00041	0.00046	0.000067 J	0.0967 J	0.0018	0.16	0.0434	0.0022	0.0038	0.0022	0.00063 J	0.0011	0.0035
Metals															
Arsenic	0.01	0.01	0.0231	0.0237	0.0233		0.00991	0.00915		0.0184	0.0149	0.0134	0.0133	0.00991	0.00893

Notes:

1. All values in milligrams per liter (mg/L).
2. Concentrations > RAL and non-detects are highlighted light gray.
3. Concentrations > C/I AL and non-detects are highlighted dark gray
4. TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
5. RAL = Residential Assessment Level, C/I = Commercial/Industrial
6. J = Estimated value, < = not detected at the specified detection limit.
7. MW-32A was screened in the B-CZ & replaced with MW-32AR
8. Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-79A 07/21/2020	MW-80B 08/28/2014	MW-80B 01/30/2018	MW-80B 03/28/2018	MW-80B 05/24/2018	MW-80B 01/10/2019	MW-80B 07/30/2019	MW-80B 01/07/2020	MW-80B 07/20/2020	MW-81B 07/24/2014	MW-81B 01/29/2018	MW-81B 03/28/2018	MW-81B 05/25/2018
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.0002	<0.00014	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00014	<0.0002	<0.0002	<0.0002
Benzene	0.005	0.005	0.18	0.0000898 J	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00008	<0.0002	<0.0002	0.00021 J
Chlorobenzene	0.1	0.1	<0.0003	<0.00012	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00012	<0.0003	<0.0003	0.00036 J
Ethylbenzene	0.7	0.7	0.087	<0.00011	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00011	<0.0003	<0.0003	<0.0003
Methylene chloride	0.005	0.005	<0.001	<0.00015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.00015	<0.001	<0.001	<0.001
Toluene	1	1	0.31	<0.00015	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.00015	<0.0002	<0.0002	<0.0002
Vinyl chloride	0.002	0.002										<0.00011			
Xylenes (total)	10	10	0.22	<0.00026	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.00026	<0.0003	<0.0003	<0.0003
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.000021	<0.00011	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000107	<0.000021	<0.000021	<0.000021
2,4-Dimethylphenol	0.49	1.5	1.2	<0.00031	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	0.00028	<0.00004	<0.000301	<0.00004	<0.00004	<0.00004
2,4-Dinitrotoluene	0.0013	0.003	<0.000058	<0.00013	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000126	<0.000058	<0.000058	0.00079
2,6-Dinitrotoluene	0.0013	0.003	<0.000042	<0.00008	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.0000777	<0.000042	<0.000042	0.001
2-Chloronaphthalene	2	5.8	<0.000021	<0.00008	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.0000777	<0.000021	<0.000021	0.0018
2-Methylnaphthalene	0.098	0.29	0.07	0.000158 J	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000068	<0.000019	<0.000019	<0.000019
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00002	<0.00083	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.000806	<0.00002	<0.00002	<0.00002
4-Nitrophenol	0.049	0.15	<0.000047	<0.00056	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000544	<0.000047	<0.000047	<0.000047
Acenaphthene	1.5	4.4	0.031	0.0000835 J	<0.000027	<0.000027	<0.000027	<0.000027	<0.000027	0.000046 J	<0.000027	<0.0000777	<0.000027	<0.000027	<0.000027
Acenaphthylene	1.5	4.4	0.00057	<0.00006	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.0000583	<0.000015	<0.000015	<0.000015
Anthracene	7.3	22	0.00074	<0.00005	<0.000014	<0.000014	<0.000014	<0.000014	<0.000014	0.000026 J	0.000027 J	<0.0000485	<0.000014	<0.000014	<0.000014
Benzo(a)anthracene	0.0091	0.02	0.000067 J	<0.00008	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.0000777	<0.00005	<0.000051	<0.000051
Benzo(a)pyrene	0.0002	0.0002	<0.00002	<0.00008	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.0000777	<0.00002	<0.00002	<0.00002
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00003	<0.00013	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.000126	<0.00003	<0.00003	<0.00003
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	<0.000037	0.00106	<0.000069	<0.000037	0.00012 J	<0.000037	0.00007 J	<0.000069	0.000055 J	<0.000359	<0.000037	<0.000037	0.00006 J
Chrysene	0.91	2	0.000058 J	<0.00008	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.0000777	<0.000021	<0.000021	<0.000021
Dibenzofuran	0.098	0.29	0.024	<0.00008	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	0.000048 J	<0.00002	<0.0000777	<0.00002	<0.00002	<0.00002
Di-n-butylphthalate (DBP)	2.4	7.3	<0.00002	<0.00011	<0.00002	<0.00002	0.000047 J	<0.00002	<0.00002	<0.00002	0.000034 J	<0.000107	<0.00002	<0.00002	<0.00002
Fluoranthene	0.98	2.9	0.00034	<0.00007	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.000047 J	<0.000068	<0.00001	<0.00001	<0.00001
Fluorene	0.98	2.9	0.009	<0.00007	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	0.000032 J	<0.00003	<0.000068	<0.00003	<0.00003	<0.00003
Naphthalene	0.49	1.5	1.3	0.00157	<0.00002	<0.00002	<0.00002	0.000068 J	<0.00002	<0.000034	<0.00007	<0.0000777	<0.00002	<0.00002	<0.00002
Nitrobenzene	0.049	0.15	<0.000024	<0.00011	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000107	<0.000024	<0.000024	<0.000024
N-Nitrosodiphenylamine	0.19	0.42	<0.000025	<0.0001	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.0000971	<0.000025	<0.000025	<0.000025
Pentachlorophenol	0.001	0.001	<0.000079	<0.00061	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.000592	<0.000079	<0.000079	<0.000079
Phenanthrene	0.73	2.2	0.0048	0.0000792 J	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	0.000027 J	0.000049 J	0.0000944 J	<0.000021	<0.000021	<0.000021
Phenol	7.3	22	0.25	0.00018 J	<0.000035	<0.000035	<0.000035	<0.000035	<0.000035	<0.000035	<0.000035	<0.0000388	<0.000035	<0.000035	<0.000035
Pyrene	0.73	2.2	0.0002	<0.00011	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	0.000027 J	<0.000107	<0.000019	<0.000019	<0.000019
Metals															
Arsenic	0.01	0.01	0.0108		0.00286	0.00187 J	0.00202	0.0018 J	0.00162 J	0.00212	0.00122 J		0.00207	0.00134 J	0.00203

Notes:

- All values in milligrams per liter (mg/L).
- Concentrations > RAL and non-detects are highlighted light gray.
- Concentrations > C/I AL and non-detects are highlighted dark gray
- TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
- RAL = Residential Assessment Level, C/I = Commercial/Industrial
- J = Estimated value, < = not detected at the specified detection limit.
- MW-32A was screened in the B-CZ & replaced with MW-32AR
- Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-81B 01/10/2019	MW-81B 07/19/2019	MW-81B 01/09/2020	MW-81B 07/20/2020	MW-82B 02/01/2018	MW-82B 03/22/2018	MW-82B 06/06/2018	MW-82B 01/22/2019	MW-82B 07/30/2019	MW-82B 01/21/2020	MW-82B 07/20/2020	MW-83B 02/08/2018	MW-83B 03/22/2018	
Volatile Organic Compounds																
1,2-Dichloroethane	0.005	0.005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
Benzene	0.005	0.005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.018	0.019	
Chlorobenzene	0.1	0.1	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	
Ethylbenzene	0.7	0.7	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.08	0.1	
Methylene chloride	0.005	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
Toluene	1	1	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0055	0.0046	
Vinyl chloride	0.002	0.002														
Xylenes (total)	10	10	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.00065 J	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.1	0.11	
Semivolatile Organic Compounds																
1,2-Diphenylhydrazine	0.0011	0.0026	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	
2,4-Dimethylphenol	0.49	1.5	<0.00004	<0.00004	<0.00004	0.00063	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	
2,4-Dinitrotoluene	0.0013	0.003	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000059	
2,6-Dinitrotoluene	0.0013	0.003	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	
2-Chloronaphthalene	2	5.8	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	0.000021 J	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	
2-Methylnaphthalene	0.098	0.29	<0.000019	<0.000019	<0.000019	0.000065 J	<0.000019	<0.000019	0.000019 J	<0.000019	<0.000019	<0.000019	0.0001	<0.000019	0.15	0.75
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	
4-Nitrophenol	0.049	0.15	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	
Acenaphthene	1.5	4.4	<0.000027	<0.000027	<0.000027	<0.000027	<0.000027	<0.000027	0.000027 J	<0.000027	<0.000027	0.000043 J	<0.000027	0.098	0.33	
Acenaphthylene	1.5	4.4	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	0.000015 J	<0.000015	<0.000015	<0.000015	<0.000015	0.000086 J	0.0016	
Anthracene	7.3	22	<0.000014	<0.000014	<0.000014	<0.000014	<0.000014	0.000068 J	0.000091 J	0.000042 J	<0.000014	0.000031 J	<0.000014	0.01	0.011	
Benzo(a)anthracene	0.0091	0.02	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000051	
Benzo(a)pyrene	0.0002	0.0002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	0.000058 J	<0.000037	<0.000066	<0.000037	0.00011 J	<0.000037	<0.000056	<0.000037	<0.000037	<0.000037	0.000052 J	<0.000037	<0.000037	
Chrysene	0.91	2	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	
Dibenzofuran	0.098	0.29	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	0.00002 J	<0.00002	<0.00002	0.00004 J	<0.00002	0.043	0.17	
Di-n-butylphthalate (DBP)	2.4	7.3	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	0.000022 J	<0.00002	<0.00002	
Fluoranthene	0.98	2.9	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.000015 J	0.0035	0.0043	
Fluorene	0.98	2.9	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	0.00003 J	<0.00003	<0.00003	0.000037 J	<0.00003	0.046	0.072	
Naphthalene	0.49	1.5	0.00016	0.000099 J	<0.00023	0.00097	0.00019	<0.00015	0.00002 J	<0.00002	<0.00002	<0.00041	<0.00002	2.6	14	
Nitrobenzene	0.049	0.15	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	
N-Nitrosodiphenylamine	0.19	0.42	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	
Pentachlorophenol	0.001	0.001	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	
Phenanthrene	0.73	2.2	<0.000021	<0.000021	<0.000021	0.000061 J	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	0.00012	<0.000021	0.04	0.071	
Phenol	7.3	22	<0.000035	<0.000035	<0.000035	0.00016 J	<0.000035	<0.000035	<0.000035	<0.000035	<0.000035	<0.000035	<0.000035	<0.000035	<0.000035	
Pyrene	0.73	2.2	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	0.0029	0.0023	
Metals																
Arsenic	0.01	0.01	0.00116 J	0.000563 J	0.0013 J	0.00244	0.00271	0.00175 J	0.0103	0.00838	0.00873	0.00484	0.00299	0.0353	0.0185	

Notes:

- All values in milligrams per liter (mg/L).
- Concentrations > RAL and non-detects are highlighted light gray.
- Concentrations > C/I AL and non-detects are highlighted dark gray
- TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
- RAL = Residential Assessment Level, C/I = Commercial/Industrial
- J = Estimated value, < = not detected at the specified detection limit.
- MW-32A was screened in the B-CZ & replaced with MW-32AR
- Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-83B 06/07/2018	MW-83B 07/19/2018	MW-83B 01/15/2019	MW-83B 07/18/2019	MW-83B 01/10/2020	MW-83B 07/22/2020	MW-83B 07/22/2020 Duplicate	MW-83C 02/08/2018	MW-83C 03/22/2018	MW-83C 06/07/2018	MW-83C 01/15/2019	MW-83C 07/18/2019	MW-83C 01/10/2020
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Benzene	0.005	0.005	0.02	0.03	0.032	0.021	0.021	0.007 J	0.0026 J	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Chlorobenzene	0.1	0.1	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Ethylbenzene	0.7	0.7	0.085	0.068	0.091	0.055	0.078	0.027 J	0.019 J	0.00066 J	0.0005 J	<0.0003	<0.0003	<0.0003	<0.0003
Methylene chloride	0.005	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Toluene	1	1	0.0049	0.007	0.0082	0.0042	0.0052	0.0026	<0.0015	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Vinyl chloride	0.002	0.002					<0.0002								<0.0002
Xylenes (total)	10	10	0.091	0.066	0.1	0.061	0.098	0.031 J	0.021 J	0.0014	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	0.000087 J	<0.000021	<0.000021
2,4-Dimethylphenol	0.49	1.5	<0.00004	<0.00004	<0.00004	<0.00004	0.000072 J	0.00076 J	0.0005 J	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004
2,4-Dinitrotoluene	0.0013	0.003	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058
2,6-Dinitrotoluene	0.0013	0.003	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042
2-Chloronaphthalene	2	5.8	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021
2-Methylnaphthalene	0.098	0.29	0.23	0.076	0.086	0.05	0.078	0.015 J	0.025 J	0.0015	0.0015	0.000089 J	<0.000019	0.00012	0.00021
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
4-Nitrophenol	0.049	0.15	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	0.0003 J	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047
Acenaphthene	1.5	4.4	0.11	0.027	0.026	0.021	0.066	0.008	0.014	0.00083	0.001	0.00017	<0.000027	0.000094 J	0.00018
Acenaphthylene	1.5	4.4	0.00064	<0.000015	0.00034	0.00025	0.00047	0.00099 J	0.00012	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015
Anthracene	7.3	22	0.007	0.0014	0.0012	0.00099	0.0039	0.00043	0.00057	0.000034 J	0.000068 J	<0.000014	<0.000014	<0.000014	<0.000014
Benzo(a)anthracene	0.0091	0.02	0.000058 J	<0.00005	<0.00005	<0.00005	0.00007 J	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Benzo(a)pyrene	0.0002	0.0002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	0.00012 J	<0.000037	<0.000064	0.00036	<0.000037	<0.000037	0.000061 J	0.00019 J	<0.000037	0.00012 J	<0.000037	0.00023	<0.000037
Chrysene	0.91	2	0.00009 J	<0.000021	<0.000021	<0.000021	0.000065 J	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021
Dibenzofuran	0.098	0.29	0.061	0.023	0.02	0.014	0.023	0.005 J	0.0077 J	0.00061	0.0044	0.000046 J	<0.00002	0.00007 J	0.00015
Di-n-butylphthalate (DBP)	2.4	7.3	0.000094 J	0.00021	0.00015 J	0.00012 J	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	0.000092 J	0.00006 J	0.00004 J	<0.00002
Fluoranthene	0.98	2.9	0.0046	0.00057	0.00051	0.00038	0.0033	0.00012	0.00018	0.000044 J	<0.00001	0.000018 J	<0.00001	<0.00001	<0.00001
Fluorene	0.98	2.9	0.039	0.0083	0.0099	0.0076	0.024	0.003 J	0.005 J	0.00035	0.00034	0.000067 J	<0.00003	<0.00003	0.00012
Naphthalene	0.49	1.5	2	1.5	1.6	0.77	1.2	0.16 J	0.32 J	0.012	0.016	0.00039	<0.00036	0.0014	0.0018
Nitrobenzene	0.049	0.15	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024
N-Nitrosodiphenylamine	0.19	0.42	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025
Pentachlorophenol	0.001	0.001	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079
Phenanthrene	0.73	2.2	0.045	0.0086	0.0074	0.0059	0.021	0.0031 J	0.0045 J	0.00044	0.00053	0.000038 J	<0.000021	<0.000021	0.00017
Phenol	7.3	22	<0.000035	<0.000035	<0.000035	0.00051	<0.000035	0.00046 J	0.00015 J	<0.000035	<0.000035	<0.000035	0.000038 J	0.000068 J	<0.000035
Pyrene	0.73	2.2	0.0026	0.00037	0.0003	0.0002	0.0022	0.000069 J	0.0001 J	0.000027 J	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019
Metals															
Arsenic	0.01	0.01	0.0673	0.0731	0.0916	0.0648	0.0709	0.0342 J	0.00371 J	0.000609 J	<0.0004	0.00139 J	0.00616	0.00617	0.00564

Notes:

- All values in milligrams per liter (mg/L).
- Concentrations > RAL and non-detects are highlighted light gray.
- Concentrations > C/I AL and non-detects are highlighted dark gray
- TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
- RAL = Residential Assessment Level, C/I = Commercial/Industrial
- J = Estimated value, < = not detected at the specified detection limit.
- MW-32A was screened in the B-CZ & replaced with MW-32AR
- Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-83C 07/22/2020	MW-84A 03/12/2020	MW-84A 05/21/2020	MW-84A 07/27/2020	MW-84B 02/08/2018	MW-84B 03/27/2018	MW-84B 06/07/2018	MW-84B 07/19/2018	MW-84B 07/19/2018 Duplicate	MW-84B 01/24/2019	MW-84B 07/30/2019	MW-84B 01/16/2020	MW-84B 07/27/2020
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Benzene	0.005	0.005	<0.0002	<0.0002	<0.0002	<0.0002	0.0097	0.0086	0.0017	0.002	0.0019	0.0024	0.01	0.0064	0.0022
Chlorobenzene	0.1	0.1	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Ethylbenzene	0.7	0.7	<0.0003	<0.0003	<0.0003	<0.0003	0.039	0.037	0.0036	0.0029	0.0026	0.0051	0.013	0.0094	0.0037
Methylene chloride	0.005	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Toluene	1	1	<0.0002	<0.0002	<0.0002	<0.0002	0.0025	0.00099 J	<0.0002	<0.0002	<0.0002	0.00056 J	0.0015	<0.0002	0.00075 J
Vinyl chloride	0.002	0.002													
Xylenes (total)	10	10	<0.0003	<0.0003	<0.0003	<0.0003	0.035	0.031	0.003	0.0019	0.0017	0.0033	0.0041	0.0032	0.0019
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.000021	<0.000021	<0.000021	<0.000021	0.0014 J	<0.00021	<0.00021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021
2,4-Dimethylphenol	0.49	1.5	0.00061	<0.000041	<0.00004	<0.00004	<0.0004	<0.0004	0.0017 J	0.00048	<0.00004	<0.00016	0.00081	0.00048	<0.00004
2,4-Dinitrotoluene	0.0013	0.003	<0.000058	<0.000059	<0.000058	<0.000058	<0.00058	<0.00058	<0.00058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058
2,6-Dinitrotoluene	0.0013	0.003	<0.000042	<0.000043	<0.000042	<0.000042	<0.00042	<0.00042	<0.00042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042
2-Chloronaphthalene	2	5.8	<0.000021	<0.000021	<0.000021	<0.000021	<0.00021	<0.00021	<0.00021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021
2-Methylnaphthalene	0.098	0.29	0.00019	<0.000019	<0.000019	<0.000019	0.55	0.58	0.025	0.074 J	0.2 J	<0.000019	0.0027	0.0065	0.0004
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00002	<0.00002	<0.00002	<0.00002	<0.0002	<0.0002	0.0038	<0.00002	<0.00002	<0.00002	<0.00002	0.00035	<0.00002
4-Nitrophenol	0.049	0.15	<0.000047	<0.000048	<0.000047	<0.000047	<0.00047	<0.00047	<0.00047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047
Acenaphthene	1.5	4.4	0.00029	<0.000028	<0.000027	<0.000027	0.22	0.27	0.031	0.048 J	0.14 J	0.000032 J	0.008	0.025	0.003
Acenaphthylene	1.5	4.4	<0.000015	<0.000015	<0.000015	<0.000015	0.003	0.0032	0.00061 J	0.00062	<0.000015	0.000043 J	0.0003	0.00031	0.00053 J
Anthracene	7.3	22	0.000075 J	<0.000014	<0.000014	<0.000014	0.02	0.0092	0.0022	0.0027 J	0.0042 J	<0.000014	0.00042	0.00095	<0.00019
Benzo(a)anthracene	0.0091	0.02	<0.00005	<0.000051	<0.00005	<0.000052	<0.0005	<0.0005	<0.0005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Benzo(a)pyrene	0.0002	0.0002	<0.00002	<0.00002	<0.00002	<0.000042	<0.0002	<0.0002	<0.0002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00003	<0.000031	<0.00003	<0.00003	<0.0003	<0.0003	<0.0003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	0.000077 J	<0.000038	<0.000037	0.00024	0.00056 J	<0.00037	<0.00037	<0.000037	<0.000037	<0.000037	0.00026	<0.000037	0.00074 J
Chrysene	0.91	2	<0.000021	<0.000021	<0.000021	<0.000045	<0.00021	<0.00021	<0.00021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000025
Dibenzofuran	0.098	0.29	0.0003	<0.00002	<0.00002	<0.00002	0.13	0.22	0.019	0.037 J	0.077 J	<0.00002	0.0054	0.015	0.023
Di-n-butylphthalate (DBP)	2.4	7.3	<0.00002	<0.00002	<0.00002	<0.000047	<0.0002	<0.0002	<0.0002	<0.00002	<0.00002	<0.00002	0.000055 J	<0.00002	<0.000023
Fluoranthene	0.98	2.9	0.000079 J	<0.00001	<0.00001	<0.000038	0.0039	0.0029	0.00069 J	0.0011 J	0.0016 J	<0.00001	0.00015	0.00037	<0.00015
Fluorene	0.98	2.9	0.00026	<0.000031	<0.00003	<0.00003	0.074	0.076	0.011	0.018 J	0.039 J	<0.00003	0.0026	0.0063	0.0012
Naphthalene	0.49	1.5	0.002	0.000023 J	<0.00002	<0.00013	2.4	2.2	0.066	0.49 J	0.95 J	<0.00002	0.06 J	0.13	0.025
Nitrobenzene	0.049	0.15	<0.000024	<0.000024	<0.000024	<0.000024	<0.00024	<0.00024	<0.00024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024
N-Nitrosodiphenylamine	0.19	0.42	<0.000025	<0.000026	<0.000025	<0.000025	<0.00025	<0.00025	<0.00025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025
Pentachlorophenol	0.001	0.001	<0.000079	<0.000081	<0.000079	<0.000079	<0.00079	<0.00079	<0.00079	0.005	0.000094 J	<0.000079	<0.000079	<0.000079	<0.000079
Phenanthrene	0.73	2.2	0.0005	<0.000021	<0.000021	<0.000024	0.088	0.072	0.013	0.024 J	0.043 J	<0.000021	0.0021	0.0065	<0.0012
Phenol	7.3	22	0.000099 J	<0.000036	<0.000035	<0.000035	<0.00035	<0.00035	0.00062 J	<0.000035	<0.000035	<0.000035	<0.000035	<0.000035	<0.000035
Pyrene	0.73	2.2	<0.000019	<0.000019	<0.000019	<0.000038	0.0025	0.0018	0.00036 J	0.00062 J	0.00097 J	<0.000019	0.00011	0.00025	<0.000097
Metals															
Arsenic	0.01	0.01	0.00398	0.00464	0.0112	0.0143	0.00269	0.00277	<0.0004	<0.0004	<0.0004	0.00219	0.00838	0.00363	0.00462

Notes:

1. All values in milligrams per liter (mg/L).
2. Concentrations > RAL and non-detects are highlighted light gray.
3. Concentrations > C/I AL and non-detects are highlighted dark gray
4. TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
5. RAL = Residential Assessment Level, C/I = Commercial/Industrial
6. J = Estimated value, < = not detected at the specified detection limit.
7. MW-32A was screened in the B-CZ & replaced with MW-32AR
8. Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-85C	MW-85C	MW-85C	MW-85C	MW-85C	MW-85C	MW-85C	MW-86C	MW-86C	MW-86C	MW-86C	MW-86C	MW-86C
			02/01/2018	03/28/2018	05/24/2018	02/01/2019	07/30/2019	01/09/2020	07/16/2020	02/01/2018	02/01/2018	03/28/2018	03/28/2018	05/25/2018	05/25/2018
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Benzene	0.005	0.005	<0.0002	0.013	0.0026	<0.0002	0.00093 J	<0.0002	<0.005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Chlorobenzene	0.1	0.1	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0075	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Ethylbenzene	0.7	0.7	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0075	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Methylene chloride	0.005	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Toluene	1	1	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Vinyl chloride	0.002	0.002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Xylenes (total)	10	10	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0075	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	0.000069 J	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021
2,4-Dimethylphenol	0.49	1.5	<0.00004	<0.00004	<0.00004	<0.000041	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004
2,4-Dinitrotoluene	0.0013	0.003	<0.000058	<0.000058	<0.000058	<0.000059	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058
2,6-Dinitrotoluene	0.0013	0.003	<0.000042	<0.000042	<0.000042	<0.000043	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042
2-Chloronaphthalene	2	5.8	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021
2-Methylnaphthalene	0.098	0.29	0.0001 J	0.000049 J	0.000067 J	<0.000019	<0.000019	<0.000041	<0.000031	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
4-Nitrophenol	0.049	0.15	<0.000047	<0.000047	<0.000047	<0.000048	<0.000047	0.00077 J	<0.000047	<0.000047	0.0003 J	<0.000047	<0.000047	<0.000047	<0.000047
Acenaphthene	1.5	4.4	0.00013	<0.000027	<0.000027	<0.000028	<0.000027	<0.000077	0.0012	0.00091	<0.000027	<0.000027	<0.000027	<0.000027	<0.000027
Acenaphthylene	1.5	4.4	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015
Anthracene	7.3	22	<0.000014	<0.000014	<0.000014	<0.000014	<0.000014	<0.000014	0.00015	<0.000014	<0.000014	<0.000014	<0.000014	<0.000014	<0.000014
Benzo(a)anthracene	0.0091	0.02	<0.00005	<0.00005	<0.00005	<0.000051	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Benzo(a)pyrene	0.0002	0.0002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	0.000031 J	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00003	<0.00003	<0.00003	<0.000031	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	0.000091 J	0.0002	0.00013 J	<0.000038	<0.000037	<0.00016	<0.000089	0.000053 J	<0.000037	<0.000037	<0.000037	0.000052 J	0.000061 J
Chrysene	0.91	2	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	0.000053 J	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021
Dibenzofuran	0.098	0.29	0.000087 J	<0.00002	0.000036 J	<0.00002	<0.00002	<0.000059	0.0007	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
Di-n-butylphthalate (DBP)	2.4	7.3	0.00023	<0.00002	0.00003 J	<0.00002	<0.00002	<0.00002	<0.000038	0.000093 J	0.000051 J	<0.00002	<0.00002	<0.00002	<0.00002
Fluoranthene	0.98	2.9	0.000015 J	<0.00001	<0.00001	<0.00001	<0.00001	0.00025	0.0001 J	0.00011	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Fluorene	0.98	2.9	0.00011	<0.00003	0.000034 J	<0.000031	<0.00003	<0.000055	0.00059	0.00038	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003
Naphthalene	0.49	1.5	0.00069	0.0017	0.0026	<0.00002	0.0012 J	<0.00046	0.0031	0.000054 J	<0.00002	<0.00002	<0.00002	0.000079 J	<0.00002
Nitrobenzene	0.049	0.15	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024
N-Nitrosodiphenylamine	0.19	0.42	<0.000025	<0.000025	<0.000025	<0.000026	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025
Pentachlorophenol	0.001	0.001	<0.000079	<0.000079	0.00015 J	<0.000081	<0.000079	<0.000079	0.00061 J	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079
Phenanthrene	0.73	2.2	0.0001	<0.000021	0.0001	<0.000021	<0.000021	<0.000067	<0.00026	<0.000021	<0.000021	<0.000021	<0.000021	0.000032 J	<0.000021
Phenol	7.3	22	0.00011 J	<0.000035	<0.000035	<0.000036	<0.000035	<0.000042	0.000048 J	<0.000035	<0.000035	<0.000035	<0.000035	<0.000035	<0.000035
Pyrene	0.73	2.2	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	0.00021	0.000065 J	0.00006 J	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019
Metals															
Arsenic	0.01	0.01	0.00152 J	0.00287	0.00588	0.00136 J	0.000633 J	0.00272	0.17	0.00146 J	0.00156 J	0.00612	0.00608	0.00768	0.00824

- Notes:
- All values in milligrams per liter (mg/L).
 - Concentrations > RAL and non-detects are highlighted light gray.
 - Concentrations > C/I AL and non-detects are highlighted dark gray
 - TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
 - RAL = Residential Assessment Level, C/I = Commercial/Industrial
 - J = Estimated value, < = not detected at the specified detection limit.
 - MW-32A was screened in the B-CZ & replaced with MW-32AR
 - Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-86C 01/11/2019	MW-86C 01/11/2019 Duplicate	MW-86C 07/30/2019	MW-86C 07/30/2019 Duplicate	MW-86C 01/17/2020	MW-86C 01/17/2020 Duplicate	MW-86C 07/16/2020	MW-87C 02/08/2018	MW-87C 03/27/2018	MW-87C 06/07/2018	MW-87C 01/22/2019	MW-87C 07/17/2019	MW-87C 01/20/2020
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Benzene	0.005	0.005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Chlorobenzene	0.1	0.1	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Ethylbenzene	0.7	0.7	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Methylene chloride	0.005	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Toluene	1	1	<0.0002	<0.0002	<0.0002	<0.0002	0.0039	0.0045	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Vinyl chloride	0.002	0.002				<0.0002									<0.0002
Xylenes (total)	10	10	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	0.0028	0.00041 J	<0.000021	<0.000021	<0.000021
2,4-Dimethylphenol	0.49	1.5	<0.00004	<0.00004	<0.00004	<0.00004	0.00018 J	<0.00004	<0.00004	<0.00004	<0.00004	0.00004 J	<0.00004	<0.00004	<0.00004
2,4-Dinitrotoluene	0.0013	0.003	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	0.000058 J	<0.000058	<0.000058	<0.000058
2,6-Dinitrotoluene	0.0013	0.003	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	0.000042 J	<0.000042	<0.000042	<0.000042
2-Chloronaphthalene	2	5.8	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	0.000021 J	<0.000021	<0.000021	<0.000021
2-Methylnaphthalene	0.098	0.29	<0.000019	<0.000019	<0.000019	<0.000019	0.000061 J	0.000066 J	<0.000019	0.00043	0.00014	0.000019 J	<0.000019	<0.000019	0.00023
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	0.00002 J	<0.00002	<0.00002	<0.00002
4-Nitrophenol	0.049	0.15	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	0.00033 J	<0.000047	0.000047 J	<0.000047	<0.000047	<0.000047
Acenaphthene	1.5	4.4	<0.000027	<0.000027	<0.000027	<0.000027	<0.000027	<0.000027	<0.000027	0.00042	0.00011	0.000027 J	<0.000027	<0.000027	0.00011
Acenaphthylene	1.5	4.4	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	0.000015 J	<0.000015	<0.000015	<0.000015
Anthracene	7.3	22	<0.000014	<0.000014	<0.000014	<0.000014	<0.000014	0.00012	0.000015 J	0.000081 J	<0.000014	0.000014 J	<0.000014	<0.000014	0.000088 J
Benzo(a)anthracene	0.0091	0.02	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	0.00005 J	<0.00005	<0.00005	<0.00005
Benzo(a)pyrene	0.0002	0.0002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	0.00002 J	<0.00002	<0.00002	0.000066 J
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	0.00003 J	<0.00003	<0.00003	<0.00003
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	<0.000057	<0.0001	0.00006 J	0.00005 J	<0.000037	<0.000053	<0.000037	0.0003	<0.000037	0.00012 J	<0.000037	<0.00018	<0.000037
Chrysene	0.91	2	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	0.000021 J	<0.000021	<0.000021	<0.000021
Dibenzofuran	0.098	0.29	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	0.00032	0.000063 J	0.00002 J	<0.00002	<0.00002	0.00011
Di-n-butylphthalate (DBP)	2.4	7.3	0.000072 J	0.00011 J	0.00011 J	0.000073 J	<0.00002	<0.00002	<0.000083	<0.00002	<0.00002	0.00002 J	<0.00002	0.00017 J	<0.00002
Fluoranthene	0.98	2.9	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.000028	<0.00001	<0.00001	0.00001 J	<0.00001	<0.00001	<0.000086
Fluorene	0.98	2.9	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	0.00027	<0.00003	0.00003 J	<0.00003	<0.00003	0.000093 J
Naphthalene	0.49	1.5	0.000079 J	<0.00002	0.00012 J	0.00031 J	<0.00075	<0.00022	<0.000034	0.0014	0.00038	0.00002 J	<0.00002	<0.00017	0.0011
Nitrobenzene	0.049	0.15	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	0.000024 J	<0.000024	<0.000024	<0.000024
N-Nitrosodiphenylamine	0.19	0.42	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	0.000025 J	<0.000025	<0.000025	<0.000025
Pentachlorophenol	0.001	0.001	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	0.000079 J	<0.000079	<0.000079	<0.000079
Phenanthrene	0.73	2.2	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	0.00036	<0.000086	0.00048	0.00015	0.000021 J	<0.000021	<0.000021	<0.00028
Phenol	7.3	22	<0.000035	<0.000035	<0.000035	<0.000035	<0.000035	<0.000035	<0.000035	<0.00011	<0.000035	0.000035 J	<0.000035	0.00013 J	0.00048
Pyrene	0.73	2.2	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	0.000019 J	<0.000019	<0.000019	<0.000057
Metals															
Arsenic	0.01	0.01	0.00402	0.00405	0.00236	0.0019 J	0.000645 J	0.000699 J	0.00209	<0.0004	<0.0004	<0.0004	0.000587 J	<0.0004	0.00135 J

Notes:

- All values in milligrams per liter (mg/L).
- Concentrations > RAL and non-detects are highlighted light gray.
- Concentrations > C/I AL and non-detects are highlighted dark gray
- TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
- RAL = Residential Assessment Level, C/I = Commercial/Industrial
- J = Estimated value, < = not detected at the specified detection limit.
- MW-32A was screened in the B-CZ & replaced with MW-32AR
- Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-87C 07/23/2020	MW-88A 03/17/2020	MW-88A 05/26/2020	MW-88A 07/15/2020	MW-88B 03/17/2020	MW-88B 05/26/2020	MW-88B 07/16/2020	MW-88C 02/01/2018	MW-88C 03/19/2018	MW-88C 05/24/2018	MW-88C 01/08/2019	MW-88C 07/31/2019	MW-88C 01/14/2020
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Benzene	0.005	0.005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Chlorobenzene	0.1	0.1	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Ethylbenzene	0.7	0.7	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Methylene chloride	0.005	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Toluene	1	1	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Vinyl chloride	0.002	0.002							<0.0002						
Xylenes (total)	10	10	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021
2,4-Dimethylphenol	0.49	1.5	<0.00004	<0.00004	<0.00004	0.00029	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004
2,4-Dinitrotoluene	0.0013	0.003	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058
2,6-Dinitrotoluene	0.0013	0.003	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042
2-Chloronaphthalene	2	5.8	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021
2-Methylnaphthalene	0.098	0.29	<0.000019	<0.000019	<0.000019	0.00045	<0.000019	<0.000019	<0.000019	<0.000019	0.000052 J	<0.000019	<0.000019	<0.000019	<0.000019
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
4-Nitrophenol	0.049	0.15	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047
Acenaphthene	1.5	4.4	0.00024 J	0.0015	0.0011	0.0035	<0.000027	<0.000027	<0.000037	0.000053 J	<0.000027	<0.000027	<0.000027	<0.000027	<0.000027
Acenaphthylene	1.5	4.4	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015
Anthracene	7.3	22	0.0001 J	<0.000014	0.00015	0.000045 J	<0.000014	<0.000014	0.000043 J	<0.000014	<0.000014	<0.000014	<0.000014	<0.000014	<0.000014
Benzo(a)anthracene	0.0091	0.02	0.00025 J	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000051	<0.00005	<0.00005	<0.00005
Benzo(a)pyrene	0.0002	0.0002	0.00016 J	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	<0.000037	0.0001 J	0.000064 J	<0.000037	<0.000037	0.000052 J	<0.00006	0.000052 J	<0.000037	0.00017 J	<0.000037	<0.000037	0.000064 J
Chrysene	0.91	2	0.00024 J	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021
Dibenzofuran	0.098	0.29	0.00012 J	<0.00002	<0.00002	0.00038	<0.00002	<0.00002	<0.000024	0.000023 J	0.000056 J	<0.00002	<0.00002	<0.00002	<0.00002
Di-n-butylphthalate (DBP)	2.4	7.3	<0.00002	<0.00002	0.00008 J	<0.000053	<0.00002	0.00015 J	<0.00002	<0.00002	0.000025 J	<0.00002	<0.00002	<0.00002	<0.00002
Fluoranthene	0.98	2.9	0.00057 J	0.00025	0.00022 J	0.00025	<0.00001	<0.00001	<0.000044	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Fluorene	0.98	2.9	0.00022 J	0.00026	0.000075 J	0.00089	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003
Naphthalene	0.49	1.5	<0.00002	<0.00002	<0.00002	0.0097	<0.00002	<0.00002	<0.000083	0.00011	0.00055	0.00011	<0.000059	<0.00002	<0.00002
Nitrobenzene	0.049	0.15	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024
N-Nitrosodiphenylamine	0.19	0.42	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025
Pentachlorophenol	0.001	0.001	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079
Phenanthrene	0.73	2.2	0.00058 J	<0.000021	0.000027 J	0.000071 J	<0.000021	<0.000021	<0.000075	0.00003 J	<0.000021	0.000035 J	<0.000021	<0.000021	<0.000021
Phenol	7.3	22	<0.000035	<0.000035	<0.000035	0.00026	<0.000035	<0.000035	<0.000035	<0.000035	<0.000035	<0.000035	<0.000035	0.00055	<0.000035
Pyrene	0.73	2.2	0.00042 J	0.00053	0.0006	0.00068	<0.000019	<0.000019	0.000025 J	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019
Metals															
Arsenic	0.01	0.01	0.00135 J	0.00355	0.00405	0.00345	0.00166 J	0.00246	0.00268	0.000557 J	0.000653 J	0.00346	0.000864 J	<0.0004	0.000862 J

Notes:

1. All values in milligrams per liter (mg/L).
2. Concentrations > RAL and non-detects are highlighted light gray.
3. Concentrations > C/I AL and non-detects are highlighted dark gray
4. TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
5. RAL = Residential Assessment Level, C/I = Commercial/Industrial
6. J = Estimated value, < = not detected at the specified detection limit.
7. MW-32A was screened in the B-CZ & replaced with MW-32AR
8. Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	<i>Residential Assessment Level</i>	<i>C/I PCL</i>	MW-88C 07/15/2020	MW-89B 07/19/2018	MW-89B 01/22/2019	MW-89B 07/18/2019	MW-89B 01/16/2020	MW-89B 07/22/2020	MW-90B 07/19/2018	MW-90B 01/22/2019	MW-90B 07/18/2019	MW-90B 01/20/2020	MW-90B 07/22/2020	MW-91A 03/12/2020	MW-91A 05/21/2020
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Benzene	0.005	0.005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Chlorobenzene	0.1	0.1	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Ethylbenzene	0.7	0.7	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Methylene chloride	0.005	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Toluene	1	1	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Vinyl chloride	0.002	0.002										<0.0002			
Xylenes (total)	10	10	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000022	<0.000021
2,4-Dimethylphenol	0.49	1.5	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	0.000075 J	<0.00004	<0.000042	<0.00004
2,4-Dinitrotoluene	0.0013	0.003	<0.000058	<0.000058	<0.000059	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000061	<0.000058
2,6-Dinitrotoluene	0.0013	0.003	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000044	<0.000042
2-Chloronaphthalene	2	5.8	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000022	<0.000021
2-Methylnaphthalene	0.098	0.29	0.00034	0.000054 J	<0.000019	0.00005 J	<0.000032	<0.000019	<0.000019	<0.000019	<0.000019	0.00034	<0.000019	<0.00002	<0.000019
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.000021	<0.00002
4-Nitrophenol	0.049	0.15	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000049	<0.000047
Acenaphthene	1.5	4.4	0.000051 J	<0.000027	<0.000027	<0.000027	<0.000083	<0.000027	<0.000027	<0.000027	<0.000027	0.00015	<0.000027	<0.000028	<0.000027
Acenaphthylene	1.5	4.4	<0.000015	<0.000015	<0.000015	<0.000015	0.000045 J	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000016	<0.000015
Anthracene	7.3	22	<0.000014	<0.000014	<0.000014	<0.000014	0.0002	<0.000014	<0.000014	<0.000014	<0.000014	0.00014	<0.000014	<0.000015	<0.000014
Benzo(a)anthracene	0.0091	0.02	<0.00005	<0.00005	<0.000051	<0.00005	0.00017	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000053	<0.00005
Benzo(a)pyrene	0.0002	0.0002	<0.00002	<0.00002	<0.00002	<0.00002	0.000079 J	<0.00002	<0.00002	<0.00002	<0.00002	0.000052 J	<0.00002	<0.000021	<0.00002
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.000032	<0.00003
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	<0.000037	0.000065 J	<0.000037	0.00015 J	0.000099 J	<0.000037	0.000097 J	<0.000037	0.00011 J	<0.000037	<0.000037	<0.000039	<0.000037
Chrysene	0.91	2	<0.000021	<0.000021	<0.000021	<0.000021	0.00024	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000022	<0.000021
Dibenzofuran	0.098	0.29	0.000052 J	<0.00002	<0.00002	<0.00002	<0.00011	<0.00002	<0.00002	<0.00002	<0.00011	<0.00002	<0.00002	<0.000021	<0.00002
Di-n-butylphthalate (DBP)	2.4	7.3	<0.00002	<0.00002	<0.00002	0.000038 J	0.000034 J	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	0.000071 J	0.000031 J	0.00019 J
Fluoranthene	0.98	2.9	<0.00001	<0.00001	<0.00001	<0.00001	0.0012	<0.00001	<0.00001	<0.00001	<0.00001	<0.00012	0.000055 J	<0.000011	<0.00001
Fluorene	0.98	2.9	<0.00003	<0.00003	<0.00003	<0.00003	<0.00018	<0.00003	<0.00003	<0.00003	<0.00003	0.00013	<0.00003	<0.000032	<0.00003
Naphthalene	0.49	1.5	0.0058	0.0009	<0.00002	0.00025	<0.00029	<0.0002	<0.00002	0.000045 J	0.000091 J	0.003	<0.00002	0.000083 J	0.00037
Nitrobenzene	0.049	0.15	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000025	<0.000024
N-Nitrosodiphenylamine	0.19	0.42	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000026	<0.000025
Pentachlorophenol	0.001	0.001	<0.000079	<0.000079	<0.00008	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.000083	<0.000079
Phenanthrene	0.73	2.2	<0.000021	<0.000021	<0.000021	<0.000021	0.00083	0.000058 J	<0.000021	<0.000021	<0.000021	0.0004	0.00004 J	<0.000022	<0.000021
Phenol	7.3	22	<0.000035	<0.000035	<0.000035	0.00042	<0.000035	<0.000035	<0.000035	<0.000035	<0.000035	0.00019 J	<0.000035	<0.000037	<0.000035
Pyrene	0.73	2.2	<0.000019	<0.000019	<0.000019	<0.000019	0.00081	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.00002	<0.000019
Metals															
Arsenic	0.01	0.01	0.000557 J	0.00138 J	0.000683 J	<0.0004	0.000463 J	0.00193 J	0.00169 J	0.00346	0.0135	0.0029	0.00814	0.00989	0.0169

- Notes:
- All values in milligrams per liter (mg/L).
 - Concentrations > RAL and non-detects are highlighted light gray.
 - Concentrations > C/I AL and non-detects are highlighted dark gray
 - TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
 - RAL = Residential Assessment Level, C/I = Commercial/Industrial
 - J = Estimated value, < = not detected at the specified detection limit.
 - MW-32A was screened in the B-CZ & replaced with MW-32AR
 - Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-91A 07/23/2020	MW-92B 03/12/2020	MW-92B 05/21/2020	MW-92B 07/22/2020	MW-93B 03/12/2020	MW-93B 05/22/2020	MW-93B 07/22/2020	MW-94A 03/12/2020	MW-94A 05/22/2020	MW-94A 07/20/2020	MW-95A 03/17/2020	MW-95A 05/22/2020
Volatile Organic Compounds														
1,2-Dichloroethane	0.005	0.005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Benzene	0.005	0.005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Chlorobenzene	0.1	0.1	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Ethylbenzene	0.7	0.7	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Methylene chloride	0.005	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Toluene	1	1	<0.0002	0.00049 J	<0.0002	<0.0002	0.00092 J	0.00036 J	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Vinyl chloride	0.002	0.002												
Xylenes (total)	10	10	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Semivolatile Organic Compounds														
1,2-Diphenylhydrazine	0.0011	0.0026	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000022	<0.000021	<0.000021	<0.000021	<0.000021
2,4-Dimethylphenol	0.49	1.5	<0.00004	<0.00004	<0.00004	<0.00004	<0.000041	<0.00004	<0.00004	<0.000041	<0.00004	<0.00004	<0.00004	<0.00004
2,4-Dinitrotoluene	0.0013	0.003	<0.000058	<0.000059	<0.000058	<0.000058	<0.000059	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058
2,6-Dinitrotoluene	0.0013	0.003	<0.000042	<0.000042	<0.000042	<0.000042	<0.000043	<0.000042	<0.000042	<0.000043	<0.000042	<0.000042	<0.000042	<0.000042
2-Chloronaphthalene	2	5.8	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000022	<0.000021	<0.000021	<0.000021	<0.000021
2-Methylnaphthalene	0.098	0.29	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.00002	<0.000019	<0.000019	<0.000019	<0.000019
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.000021	<0.00002	<0.00002	<0.00002	<0.00002
4-Nitrophenol	0.049	0.15	<0.000047	<0.000047	<0.000047	<0.000047	<0.000048	<0.000047	<0.000047	<0.000048	<0.000047	<0.000047	<0.000047	<0.000047
Acenaphthene	1.5	4.4	<0.000027	<0.000027	<0.000027	<0.000027	0.000039 J	<0.000027	<0.000027	<0.000028	<0.000027	<0.000027	<0.000027	<0.000027
Acenaphthylene	1.5	4.4	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015
Anthracene	7.3	22	<0.000014	<0.000014	<0.000014	<0.000014	<0.000014	<0.000014	<0.000014	<0.000014	<0.000014	<0.000014	<0.000014	<0.000014
Benzo(a)anthracene	0.0091	0.02	<0.00005	<0.000051	<0.00005	<0.00005	<0.000051	<0.00005	<0.00005	<0.000052	<0.00005	<0.00005	<0.00005	<0.00005
Benzo(a)pyrene	0.0002	0.0002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.000021	<0.00002	<0.00002	<0.00002	<0.00002
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00003	<0.00003	<0.00003	<0.00003	<0.000031	<0.00003	<0.00003	<0.000031	<0.00003	<0.00003	<0.00003	<0.00003
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	<0.000037	<0.000037	<0.000037	<0.000037	<0.000038	0.000053 J	0.00013 J	0.000056 J	<0.000037	0.00004 J	<0.000037	<0.000037
Chrysene	0.91	2	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000022	<0.000021	<0.000021	<0.000021	<0.000021
Dibenzofuran	0.098	0.29	<0.00002	<0.00002	<0.00002	<0.00002	0.000071 J	<0.00002	<0.00002	<0.000021	<0.00002	<0.00002	<0.00002	<0.00002
Di-n-butylphthalate (DBP)	2.4	7.3	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	0.000068 J	0.000052 J	<0.000021	0.000072 J	<0.00002	<0.00002	<0.00002
Fluoranthene	0.98	2.9	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	0.000019 J	<0.00001	<0.00001
Fluorene	0.98	2.9	<0.00003	<0.00003	<0.00003	<0.00003	0.000058 J	<0.00003	<0.00003	<0.000031	<0.00003	<0.00003	<0.00003	<0.00003
Naphthalene	0.49	1.5	<0.00002	<0.00002	<0.00002	<0.0001	<0.00002	<0.00002	<0.00002	<0.000021	<0.00002	<0.00002	<0.00002	<0.00002
Nitrobenzene	0.049	0.15	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000025	<0.000024	<0.000024	<0.000024	<0.000024
N-Nitrosodiphenylamine	0.19	0.42	<0.000025	<0.000025	<0.000025	<0.000025	<0.000026	<0.000025	<0.000025	<0.000026	<0.000025	<0.000025	<0.000025	<0.000025
Pentachlorophenol	0.001	0.001	<0.000079	<0.00008	<0.000079	<0.000079	<0.000081	<0.000079	<0.000079	<0.000081	<0.000079	<0.000079	<0.000079	<0.000079
Phenanthrene	0.73	2.2	<0.000021	<0.000021	<0.000021	<0.000021	0.00016	<0.000021	<0.000021	<0.000022	<0.000021	<0.000021	<0.000021	<0.000021
Phenol	7.3	22	<0.000035	<0.000035	<0.000035	<0.000035	<0.000036	<0.000035	<0.000035	<0.000036	<0.000035	<0.000035	<0.000035	<0.000035
Pyrene	0.73	2.2	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.00002	<0.000019	<0.000019	<0.000019	<0.000019
Metals														
Arsenic	0.01	0.01	0.0197	0.00201	0.0038	0.00478	0.00455	0.0133	0.00967	0.0054	0.006	0.00455	0.000977 J	0.00254

- Notes:
- All values in milligrams per liter (mg/L).
 - Concentrations > RAL and non-detects are highlighted light gray.
 - Concentrations > C/I AL and non-detects are highlighted dark gray
 - TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
 - RAL = Residential Assessment Level, C/I = Commercial/Industrial
 - J = Estimated value, < = not detected at the specified detection limit.
 - MW-32A was screened in the B-CZ & replaced with MW-32AR
 - Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-95A 07/20/2020	MW-96B 03/17/2020	MW-96B 03/17/2020	MW-96B 05/22/2020	MW-96B 07/20/2020	MW-97A 03/12/2020	MW-97A 05/26/2020	MW-97A 07/16/2020	MW-98A 03/12/2020	MW-98A 05/26/2020	MW-98A 07/16/2020	MW-98B 03/12/2020
Volatile Organic Compounds														
1,2-Dichloroethane	0.005	0.005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Benzene	0.005	0.005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.00024 J	<0.0002
Chlorobenzene	0.1	0.1	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Ethylbenzene	0.7	0.7	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Methylene chloride	0.005	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Toluene	1	1	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.00065 J	<0.0002	<0.0002	0.002
Vinyl chloride	0.002	0.002												
Xylenes (total)	10	10	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Semivolatile Organic Compounds														
1,2-Diphenylhydrazine	0.0011	0.0026	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021
2,4-Dimethylphenol	0.49	1.5	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	0.000078 J	<0.00004	<0.00004	<0.000041
2,4-Dinitrotoluene	0.0013	0.003	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000059	<0.000058	<0.000058	<0.000059	<0.000058	<0.000058	<0.000059
2,6-Dinitrotoluene	0.0013	0.003	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000043	<0.000042	<0.000042	<0.000043
2-Chloronaphthalene	2	5.8	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021
2-Methylnaphthalene	0.098	0.29	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
4-Nitrophenol	0.049	0.15	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000048	<0.000047	<0.000047	<0.000048
Acenaphthene	1.5	4.4	<0.000027	<0.000027	<0.000027	<0.000027	<0.000027	<0.000027	<0.000027	<0.000027	0.00004 J	<0.000027	<0.00003	<0.000028
Acenaphthylene	1.5	4.4	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015
Anthracene	7.3	22	<0.000014	<0.000014	<0.000014	<0.000014	<0.000014	<0.000014	<0.000014	0.000046 J	<0.000014	0.000055 J	0.00008 J	<0.000014
Benzo(a)anthracene	0.0091	0.02	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.000051	<0.00005	<0.00005	<0.000051	<0.00005	<0.00005	<0.000051
Benzo(a)pyrene	0.0002	0.0002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.000031	<0.00003	<0.00003	<0.000031
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	<0.000037	0.00035	0.00013 J	<0.000037	<0.000037	<0.000037	<0.000037	<0.000037	<0.000038	0.000068 J	<0.000037	<0.000038
Chrysene	0.91	2	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021
Dibenzofuran	0.098	0.29	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.000024	<0.00002	<0.00002	<0.000021	<0.00002
Di-n-butylphthalate (DBP)	2.4	7.3	<0.00002	<0.00002	<0.00002	0.000077 J	<0.00002	<0.00002	0.000084 J	<0.00002	<0.00002	0.000027 J	<0.00002	<0.00002
Fluoranthene	0.98	2.9	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.000033	0.000018 J	0.000023 J	<0.000033	<0.00001
Fluorene	0.98	2.9	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.000031	<0.00003	<0.000051	<0.000031
Naphthalene	0.49	1.5	<0.00002	<0.00002	<0.00002	0.000083 J	<0.00002	<0.00002	<0.00002	<0.00018	0.000042 J	<0.00002	<0.00011	0.000036 J
Nitrobenzene	0.049	0.15	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024
N-Nitrosodiphenylamine	0.19	0.42	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000026	<0.000025	<0.000025	<0.000026
Pentachlorophenol	0.001	0.001	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.00008	<0.000079	<0.000079	<0.000081	<0.000079	<0.000079	<0.000081
Phenanthrene	0.73	2.2	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000087	<0.000021	0.000048 J	<0.0001	<0.000021
Phenol	7.3	22	<0.000035	<0.000035	<0.000035	<0.000035	<0.000035	<0.000035	<0.000035	<0.000035	<0.000036	<0.000035	<0.000035	<0.000036
Pyrene	0.73	2.2	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	0.000025 J	<0.000019	<0.000019	0.000031 J	<0.000019
Metals														
Arsenic	0.01	0.01	0.00378	0.00312	0.00311	0.00179 J	0.00192 J	0.00121 J	0.00438	0.00478	0.00963	0.0119	0.0187	0.00165 J

Notes:

1. All values in milligrams per liter (mg/L).
2. Concentrations > RAL and non-detects are highlighted light gray.
3. Concentrations > C/I AL and non-detects are highlighted dark gray
4. TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
5. RAL = Residential Assessment Level, C/I = Commercial/Industrial
6. J = Estimated value, < = not detected at the specified detection limit.
7. MW-32A was screened in the B-CZ & replaced with MW-32AR
8. Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	MW-98B 05/26/2020	MW-98B 07/16/2020	MW-99C 03/11/2020	MW-99C 05/22/2020	MW-99C 07/22/2020	P-10 01/29/2008	P-10 01/29/2008 Duplicate	P-10 07/16/2008	P-10 01/22/2009	P-10 07/22/2009	P-10 07/22/2009 Duplicate	P-10 01/22/2010
Volatile Organic Compounds														
1,2-Dichloroethane	0.005	0.005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002			<0.00052				
Benzene	0.005	0.005	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002			<0.00025				
Chlorobenzene	0.1	0.1	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003			<0.00047				
Ethylbenzene	0.7	0.7	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003			<0.00025				
Methylene chloride	0.005	0.005	<0.001	<0.001	<0.001	<0.001	<0.001			<0.00054				
Toluene	1	1	0.00054 J	0.0006 J	0.00078 J	0.00051 J	<0.0002			<0.00041				
Vinyl chloride	0.002	0.002												
Xylenes (total)	10	10	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003			<0.00127				
Semivolatile Organic Compounds														
1,2-Diphenylhydrazine	0.0011	0.0026	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021							
2,4-Dimethylphenol	0.49	1.5	<0.00004	<0.00004	<0.000041	<0.00004	<0.00004							
2,4-Dinitrotoluene	0.0013	0.003	<0.000058	<0.000058	<0.000059	<0.000058	<0.000058							
2,6-Dinitrotoluene	0.0013	0.003	<0.000042	<0.000042	<0.000043	<0.000042	<0.000042							
2-Chloronaphthalene	2	5.8	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021							
2-Methylnaphthalene	0.098	0.29	<0.000019	<0.00002	0.000086 J	0.000036 J	0.00005 J							
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002							
4-Nitrophenol	0.049	0.15	<0.000047	<0.000047	<0.000048	<0.000047	<0.000047							
Acenaphthene	1.5	4.4	<0.000027	<0.000047	<0.000028	<0.000027	0.000068 J	0.00373	0.00854	0.0106	<0.0008	<0.0009	<0.0009	<0.0009
Acenaphthylene	1.5	4.4	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.00028	<0.00028	0.00053	<0.0007	<0.0005	<0.0005	<0.0005
Anthracene	7.3	22	<0.000014	0.000028 J	<0.000014	<0.000014	<0.000014	0.000703	0.00036 J	0.000747	<0.0007	<0.0006	<0.0006	<0.0006
Benzo(a)anthracene	0.0091	0.02	<0.00005	<0.00005	<0.000051	<0.00005	<0.00005							
Benzo(a)pyrene	0.0002	0.0002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002							
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00003	<0.00003	<0.000031	<0.00003	<0.00003							
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	<0.000037	<0.000037	0.00007 J	<0.000037	<0.000037	0.00023 J	<0.00019	0.00022 J	<0.0012	<0.0033	<0.0033	<0.0033
Chrysene	0.91	2	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021							
Dibenzofuran	0.098	0.29	<0.00002	<0.000038	<0.00002	<0.00002	<0.00002	0.000713	0.00175	0.00176	<0.0007	<0.0007	<0.0007	<0.0007
Di-n-butylphthalate (DBP)	2.4	7.3	0.00011 J	<0.00003	<0.00002	0.00019 J	0.00019 J	<0.00019	<0.00019	0.00092 J	<0.0007	<0.0005	<0.0005	<0.0005
Fluoranthene	0.98	2.9	<0.00001	<0.000038	<0.00001	<0.00001	<0.00001	0.000506	0.00025 J	0.00022 J	<0.0006	<0.0005	<0.0005	<0.0005
Fluorene	0.98	2.9	<0.00003	<0.00006	<0.000031	<0.00003	<0.00003	0.000668	0.00251	0.00245	<0.0008	<0.0006	<0.0006	<0.0006
Naphthalene	0.49	1.5	<0.00002	<0.00016	0.00018	0.0004	0.00077 J	<0.00038	<0.00037	0.00079	<0.0008	<0.0006	<0.0006	<0.0006
Nitrobenzene	0.049	0.15	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024							
N-Nitrosodiphenylamine	0.19	0.42	<0.000025	<0.000025	<0.000026	<0.000025	<0.000025							
Pentachlorophenol	0.001	0.001	<0.000079	<0.000079	<0.000081	<0.000079	<0.000079							
Phenanthrene	0.73	2.2	<0.000021	<0.00013	0.000053 J	<0.000021	<0.000021							
Phenol	7.3	22	<0.000035	<0.000035	<0.000036	<0.000035	<0.000035	<0.00019	<0.00019	<0.00021	<0.0015	<0.0005	<0.0005	<0.0005
Pyrene	0.73	2.2	<0.000019	0.000022 J	<0.000019	<0.000019	<0.000019	0.00039 J	<0.00019	<0.00021	<0.0009	<0.0005	<0.0005	<0.0005
Metals														
Arsenic	0.01	0.01	0.00214	0.00302	0.000866 J	0.000455 J	0.00102 J							

Notes:

- All values in milligrams per liter (mg/L).
- Concentrations > RAL and non-detects are highlighted light gray.
- Concentrations > C/I AL and non-detects are highlighted dark gray
- TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
- RAL = Residential Assessment Level, C/I = Commercial/Industrial
- J = Estimated value, < = not detected at the specified detection limit.
- MW-32A was screened in the B-CZ & replaced with MW-32AR
- Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	P-10	P-10	P-10	P-10	P-10	P-10	P-10	P-10	P-10	P-10	P-10	P-10	P-10	
			01/22/2010 Duplicate	07/14/2010	07/14/2010 Duplicate	01/12/2011	07/12/2011	07/12/2011 Duplicate	01/31/2012	01/31/2012 Duplicate	07/11/2012	07/11/2012 Duplicate	01/10/2013	01/10/2013 Duplicate	07/11/2013	
Volatile Organic Compounds																
1,2-Dichloroethane	0.005	0.005														
Benzene	0.005	0.005														
Chlorobenzene	0.1	0.1														
Ethylbenzene	0.7	0.7														
Methylene chloride	0.005	0.005														
Toluene	1	1														
Vinyl chloride	0.002	0.002														
Xylenes (total)	10	10														
Semivolatile Organic Compounds																
1,2-Diphenylhydrazine	0.0011	0.0026														
2,4-Dimethylphenol	0.49	1.5														
2,4-Dinitrotoluene	0.0013	0.003														
2,6-Dinitrotoluene	0.0013	0.003														
2-Chloronaphthalene	2	5.8														
2-Methylnaphthalene	0.098	0.29														
4,6-Dinitro-2-methylphenol	0.0024	0.0073														
4-Nitrophenol	0.049	0.15														
Acenaphthene	1.5	4.4	<0.0009	<0.0009	<0.0009	<0.0009	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0000755	<0.0000755	<0.0000808
Acenaphthylene	1.5	4.4	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0000566	<0.0000566	<0.0000606
Anthracene	7.3	22	<0.0006	<0.0006	<0.0006	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0000472 J	0.000148 J	0.000133 J
Benzo(a)anthracene	0.0091	0.02														
Benzo(a)pyrene	0.0002	0.0002														
bis(2-Chloroethoxy)methane	0.00083	0.0019														
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	<0.0033	<0.0033	<0.0033	<0.0033	<0.0005	0.0015 J	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.000906	0.00112	0.000492 J
Chrysene	0.91	2														
Dibenzofuran	0.098	0.29	<0.0007	<0.0007	<0.0007	<0.0007	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0000755	<0.0000755	<0.0000808
Di-n-butylphthalate (DBP)	2.4	7.3	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.000104	<0.000104	<0.000111
Fluoranthene	0.98	2.9	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.000066	<0.000066	<0.0000707
Fluorene	0.98	2.9	<0.0006	<0.0006	<0.0006	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.000066	<0.000066	<0.0000707
Naphthalene	0.49	1.5	<0.0006	<0.0006	<0.0006	<0.0006	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0000755	<0.0000755	<0.0000808
Nitrobenzene	0.049	0.15														
N-Nitrosodiphenylamine	0.19	0.42														
Pentachlorophenol	0.001	0.001														
Phenanthrene	0.73	2.2														
Phenol	7.3	22	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0000377	<0.0000377	<0.0000404
Pyrene	0.73	2.2	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.000104	<0.000104	<0.000111
Metals																
Arsenic	0.01	0.01														

- Notes:
- All values in milligrams per liter (mg/L).
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 - Concentrations > C/I AL and non-detects are highlighted dark gray
 - TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
 - RAL = Residential Assessment Level, C/I = Commercial/Industrial
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 - Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	P-10	P-10	P-10	P-10	P-10	P-10	P-10	P-10	P-10	P-10	P-10	P-10	P-10
			07/11/2013	01/09/2014	01/09/2014	07/02/2014	07/02/2014	01/07/2015	01/07/2015	07/08/2015	07/08/2015	01/13/2016	01/13/2016	07/07/2016	07/07/2016
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	Duplicate												
Benzene	0.005	0.005													
Chlorobenzene	0.1	0.1													
Ethylbenzene	0.7	0.7													
Methylene chloride	0.005	0.005													
Toluene	1	1													
Vinyl chloride	0.002	0.002													
Xylenes (total)	10	10													
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026													
2,4-Dimethylphenol	0.49	1.5													
2,4-Dinitrotoluene	0.0013	0.003													
2,6-Dinitrotoluene	0.0013	0.003													
2-Chloronaphthalene	2	5.8													
2-Methylnaphthalene	0.098	0.29				0.0000718 J	0.000891 J								
4,6-Dinitro-2-methylphenol	0.0024	0.0073													
4-Nitrophenol	0.049	0.15													
Acenaphthene	1.5	4.4	<0.0000812	0.000102 J	0.000966	0.01 J	0.0169 J	<0.0000792	<0.0000792	0.023	0.022	<0.000027	<0.000027	<0.000027	<0.000027
Acenaphthylene	1.5	4.4	<0.0000609	<0.0000556	0.0000571 J	0.0000588 J	0.000265 J	<0.0000594	<0.0000594	0.00012	0.00012	<0.000015	<0.000015	<0.000015	<0.000015
Anthracene	7.3	22	0.000181 J	0.000323 J	0.000369 J	0.000375 J	0.000473 J	0.000122 J	0.000115 J	0.00039	0.00033	0.000014 J	0.00007 J	<0.000014	<0.000014
Benzo(a)anthracene	0.0091	0.02													
Benzo(a)pyrene	0.0002	0.0002													
bis(2-Chloroethoxy)methane	0.00083	0.0019													
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	0.000575	<0.000343	<0.000343	0.00127	0.00133	0.000853 J	0.00155 J	0.0006 J	0.00032 J	0.0002 J	0.00035 J	0.00029	0.0003
Chrysene	0.91	2													
Dibenzofuran	0.098	0.29	<0.0000812	<0.0000741	0.000135 J	0.00205 J	0.00304 J	<0.0000792	<0.0000792	0.0024	0.0021	<0.00002	<0.00002	<0.00002	<0.00002
Di-n-butylphthalate (DBP)	2.4	7.3	<0.000112	<0.000262	<0.000309	0.000108 J	0.000321 J	<0.000109	<0.000119	<0.000044	<0.000059	<0.000058	<0.00011	<0.000046	<0.000031
Fluoranthene	0.98	2.9	<0.0000711	<0.0000648	<0.0000648	0.00042 J	0.00039 J	0.000114 J	0.000113 J	0.0006	0.00047	<0.00001	<0.00001	<0.00001	<0.00001
Fluorene	0.98	2.9	<0.0000711	<0.0000648	0.000262 J	0.00393	0.00514	<0.0000693	<0.0000693	0.0046	0.0038	<0.00003	<0.00003	<0.00003	<0.00003
Naphthalene	0.49	1.5	<0.0000812	<0.0000741	<0.0000741	0.0000784 J	0.000924 J	<0.0000792	<0.0000792	0.019	0.018	<0.00002	<0.00002	<0.00002	<0.00002
Nitrobenzene	0.049	0.15													
N-Nitrosodiphenylamine	0.19	0.42													
Pentachlorophenol	0.001	0.001													
Phenanthrene	0.73	2.2				0.000575 J	0.000808 J								
Phenol	7.3	22	<0.0000406	<0.000037	<0.000037	<0.0000392	<0.0000396	<0.0000396	<0.0000396	<0.000035	<0.000035	<0.000035	<0.000035	<0.000035	<0.000035
Pyrene	0.73	2.2	<0.000112	<0.000102	<0.000102	0.000318 J	0.000306 J	<0.000109	<0.000109	0.00038	0.00029	<0.000019	<0.000019	<0.000019	<0.000019
Metals															
Arsenic	0.01	0.01													

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**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	P-10 01/12/2017	P-10 01/12/2017 Duplicate	P-10 07/13/2017	P-10 07/13/2017 Duplicate	P-10 01/04/2018	P-10 01/04/2018 Duplicate	P-10 07/19/2018	P-10 07/19/2018 Duplicate	P-10 01/08/2019	P-10 01/08/2019 Duplicate	P-10 07/01/2019	P-10 01/13/2020	P-10 07/14/2020
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005													
Benzene	0.005	0.005													
Chlorobenzene	0.1	0.1													
Ethylbenzene	0.7	0.7													
Methylene chloride	0.005	0.005													
Toluene	1	1													
Vinyl chloride	0.002	0.002													
Xylenes (total)	10	10													
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026													
2,4-Dimethylphenol	0.49	1.5													
2,4-Dinitrotoluene	0.0013	0.003													
2,6-Dinitrotoluene	0.0013	0.003													
2-Chloronaphthalene	2	5.8													
2-Methylnaphthalene	0.098	0.29													
4,6-Dinitro-2-methylphenol	0.0024	0.0073													
4-Nitrophenol	0.049	0.15													
Acenaphthene	1.5	4.4	0.000027 J	0.000078 J	<0.000027	<0.000027	<0.000027	0.0033	0.041	0.043	<0.000027	<0.000027	0.0028	<0.000027	0.00018
Acenaphthylene	1.5	4.4	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	0.00038	0.00032	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015
Anthracene	7.3	22	0.000014 J	0.000081 J	<0.000014	<0.000014	<0.000014	0.00017	0.00058	0.0006	0.00025	0.00021	0.000065 J	<0.000014	<0.000014
Benzo(a)anthracene	0.0091	0.02													
Benzo(a)pyrene	0.0002	0.0002													
bis(2-Chloroethoxy)methane	0.00083	0.0019													
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	0.00025 J	0.00018 J	0.000097 J	0.00016 J	<0.00024	<0.00017	<0.00019	<0.00022	<0.000061	<0.000057	0.00029	<0.000037	0.0001 J
Chrysene	0.91	2													
Dibenzofuran	0.098	0.29	0.00002 J	0.000055 J	<0.00002	<0.00002	0.00029	0.00093	0.0047	0.0042	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
Di-n-butylphthalate (DBP)	2.4	7.3	<0.00002	<0.00002	<0.00002	<0.00002	<0.000042	<0.000034	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	0.000032 J
Fluoranthene	0.98	2.9	0.00001 J	0.000088 J	<0.00001	<0.00001	0.00017	0.00016	0.00099	0.001	<0.00001	<0.00001	<0.00001	<0.00001	0.000045 J
Fluorene	0.98	2.9	<0.00003	<0.00003	<0.00003	<0.00003	0.00042	0.0012	0.0073	0.007	<0.00003	0.00003 J	<0.00003	<0.00003	0.00012
Naphthalene	0.49	1.5	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	0.0034	0.00014	0.000056 J	<0.00002	<0.00002	0.000063 J	0.00017	<0.00002
Nitrobenzene	0.049	0.15													
N-Nitrosodiphenylamine	0.19	0.42													
Pentachlorophenol	0.001	0.001													
Phenanthrene	0.73	2.2													
Phenol	7.3	22	<0.000035	<0.000035	<0.000035	<0.000035	<0.000035	0.0014	<0.000035	<0.000035	<0.000035	<0.000035	<0.000035	<0.000035	<0.000035
Pyrene	0.73	2.2	<0.000019	0.000022 J	<0.000019	<0.000019	<0.000019	<0.000019	0.00049	0.00048	<0.000019	<0.000019	<0.000019	<0.000019	0.000068 J
Metals															
Arsenic	0.01	0.01													

Notes:

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CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	P-10 07/14/2020 Duplicate	P-11 01/30/2008	P-11 07/15/2008	P-11 02/04/2009	P-11 01/21/2010	P-11 06/22/2010	P-11 01/18/2011	P-11 07/27/2011	P-11 02/02/2012	P-11 07/26/2012	P-11 02/05/2013	P-11 08/01/2013	P-11 01/15/2014
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005		<0.00052	<0.00052	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00014	<0.00014	<0.0002
Benzene	0.005	0.005		<0.00025	<0.00025	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00008	<0.00008	0.000207 J
Chlorobenzene	0.1	0.1		<0.00047	<0.00047	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00012	<0.00012	<0.00018
Ethylbenzene	0.7	0.7		<0.00025	<0.00025	<0.0005	<0.0005	<0.0005	<0.0005	<0.0011	<0.0011	<0.0005	<0.00011	<0.00011	0.000253 J
Methylene chloride	0.005	0.005		<0.00054	<0.00054	<0.0005	<0.0005	<0.0005	<0.0005	<0.0013	<0.0013	<0.001	<0.00015	<0.00015	<0.00022
Toluene	1	1		<0.00041	<0.00041	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00015	<0.00015	<0.00017
Vinyl chloride	0.002	0.002											<0.00011		
Xylenes (total)	10	10		<0.00127	<0.00127	<0.001	<0.001	<0.001	<0.001	<0.0031	<0.0031	<0.0015	<0.00026	<0.00026	<0.00058
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026		<0.00008	<0.00008	<0.0001	<0.0001	<0.0001	<0.0001	<0.00005	<0.00005	<0.00005	<0.000104	<0.000105	<0.000104
2,4-Dimethylphenol	0.49	1.5		<0.00031	<0.00028	<0.00008	<0.00008	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005	R	<0.000295	<0.000292
2,4-Dinitrotoluene	0.0013	0.003		<0.00021	<0.00019	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.000123	<0.000124	<0.000123
2,6-Dinitrotoluene	0.0013	0.003		<0.00021	<0.00019	<0.00007	<0.00007	<0.00007	<0.00007	<0.00006	<0.00006	<0.00006	<0.0000755	<0.0000762	<0.0000755
2-Chloronaphthalene	2	5.8		<0.00042	<0.00038	<0.00012	<0.0001	<0.0001	<0.0001	<0.00005	<0.00005	<0.00005	<0.0000755	<0.0000762	<0.0000755
2-Methylnaphthalene	0.098	0.29		0.000783	<0.00038	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	0.00023	<0.000052	0.000127 J	<0.0000667	0.000257 J
4,6-Dinitro-2-methylphenol	0.0024	0.0073		<0.00021	<0.00047	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	R	<0.00079	<0.000783
4-Nitrophenol	0.049	0.15		<0.00026	<0.00024	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	R	<0.000533	<0.000528
Acenaphthene	1.5	4.4	<0.000027	0.0776	<0.00028	0.0057	<0.00009	0.0037	<0.00009	0.00075	0.03	0.018	<0.0000755	<0.0000762	0.00951
Acenaphthylene	1.5	4.4	<0.000015	<0.00031	<0.00028	<0.00006	<0.00007	<0.00007	<0.00007	<0.00005	0.0002	0.0001 J	<0.0000566	<0.0000571	<0.0000566
Anthracene	7.3	22	<0.000014	0.00356	<0.00019	0.00015 J	<0.00007	0.00012 J	<0.00007	0.00012 J	0.0016	0.00039	0.00025 J	0.0000997 J	0.000503
Benzo(a)anthracene	0.0091	0.02		<0.00021	<0.00019	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000755	<0.0000762	<0.0000755
Benzo(a)pyrene	0.0002	0.0002		<0.00042	<0.00038	<0.00008	<0.00008	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005	<0.0000755	<0.0000762	<0.0000755
bis(2-Chloroethoxy)methane	0.00083	0.0019		<0.00042	<0.00038	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.000123	<0.000124	<0.000123
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	<0.000037	0.00116 J	<0.00019	0.00022	<0.00051	<0.00021	0.0016	0.00018 J	<0.00013	0.00021	0.00036 J	0.000593 J	0.00403
Chrysene	0.91	2		<0.00021	<0.00019	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000755	<0.0000762	<0.0000755
Dibenzofuran	0.098	0.29	<0.00002	<0.00031	<0.00028	0.00024	<0.00008	0.000093 J	<0.00008	0.00013 J	0.0035	0.00059	0.000135 J	<0.0000762	0.00103
Di-n-butylphthalate (DBP)	2.4	7.3	0.000025 J	<0.00021	<0.00019	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.000104	<0.000105	<0.000104
Fluoranthene	0.98	2.9	0.00005 J	0.0061	<0.00019	<0.00007	<0.00007	0.00042	<0.00007	0.000081 J	0.0022	0.00048	<0.000066	<0.0000667	0.000287 J
Fluorene	0.98	2.9	<0.00003	0.0219	<0.00019	0.0018	<0.00007	0.0016	<0.00007	0.000082 J	0.011	0.0044 J	0.0000769 J	<0.0000667	0.00264
Naphthalene	0.49	1.5	<0.00002	0.0324	<0.00038	0.0027	<0.0001	0.0027	<0.0001	0.00013 J	0.0017	<0.00026	0.000662	<0.0000762	0.0554
Nitrobenzene	0.049	0.15		<0.00042	<0.00038	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.000104	<0.000105	<0.000104
N-Nitrosodiphenylamine	0.19	0.42		<0.00026	<0.00024	<0.00009	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.0000943	<0.0000952	<0.0000943
Pentachlorophenol	0.001	0.001		<0.00021	<0.00019	<0.00008	<0.00008	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005	R	<0.000581	<0.000575
Phenanthrene	0.73	2.2		0.0196	<0.00019	0.00048	<0.00007	0.00053	<0.00007	0.000086 J	0.0045	0.00055	0.0000854 J	<0.0000571	0.00189
Phenol	7.3	22	<0.000035	<0.00021	<0.00019	<0.00007	<0.00007	<0.00007	<0.00007	<0.00005	<0.00015	<0.00005	R	<0.0000381	<0.0000377
Pyrene	0.73	2.2	0.00006 J	0.00369	<0.00019	<0.00007	<0.00007	0.00015 J	<0.00007	<0.00005	0.0013	0.00023	<0.000104	<0.000105	0.000274 J
Metals															
Arsenic	0.01	0.01													

Notes:

- All values in milligrams per liter (mg/L).
- Concentrations > RAL and non-detects are highlighted light gray.
- Concentrations > C/I AL and non-detects are highlighted dark gray
- TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
- RAL = Residential Assessment Level, C/I = Commercial/Industrial
- J = Estimated value, < = not detected at the specified detection limit.
- MW-32A was screened in the B-CZ & replaced with MW-32AR
- Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	P-11	P-11	P-11	P-11	P-11	P-11	P-11	P-11	P-12	P-12	P-12	P-12	P-12
			07/29/2014	01/24/2018	03/23/2018	05/24/2018	01/09/2019	07/11/2019	01/14/2020	07/16/2020	01/29/2008	07/16/2008	07/16/2008	01/22/2009	01/22/2009
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.00014	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002			<0.00109	<0.00052	
Benzene	0.005	0.005	<0.00008	<0.0002	<0.0002	0.00021 J	<0.0002	<0.0002	<0.0002	<0.0002			<0.00112	<0.00025	
Chlorobenzene	0.1	0.1	<0.00012	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003			<0.0015	<0.00047	
Ethylbenzene	0.7	0.7	<0.00011	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003			<0.00142	<0.00025	
Methylene chloride	0.005	0.005	<0.00015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001			<0.00122	<0.00054	
Toluene	1	1	<0.00015	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002			<0.00138	<0.00041	
Vinyl chloride	0.002	0.002													
Xylenes (total)	10	10	<0.00026	<0.0003	<0.0003	0.00032 J	<0.0003	<0.0003	<0.0003	<0.0003			<0.00302	<0.00127	
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.000108	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	0.00014 J				
2,4-Dimethylphenol	0.49	1.5	<0.000304	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004				
2,4-Dinitrotoluene	0.0013	0.003	<0.000127	<0.000058	<0.000058	<0.000059	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058				
2,6-Dinitrotoluene	0.0013	0.003	<0.0000784	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042				
2-Chloronaphthalene	2	5.8	<0.0000784	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021				
2-Methylnaphthalene	0.098	0.29	<0.0000686	<0.000019	<0.000019	0.00015	<0.000019	0.00005 J	0.000076 J	<0.000019					
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.000814	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002					
4-Nitrophenol	0.049	0.15	<0.000549	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047					
Acenaphthene	1.5	4.4	0.000653	<0.000027	0.00021	0.081	<0.000027	0.0019	0.0046	0.0008	<0.00029	<0.0003	<0.0003	<0.0008	<0.0008
Acenaphthylene	1.5	4.4	<0.0000588	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015
Anthracene	7.3	22	0.000119 J	<0.000014	<0.000014	0.0037	<0.000014	0.000063 J	0.000081 J	0.000078 J	0.000645	0.000552	0.000566	<0.0007	<0.0007
Benzo(a)anthracene	0.0091	0.02	<0.0000784	<0.00005	<0.00005	<0.000051	<0.00005	<0.00005	<0.00005	<0.00005					
Benzo(a)pyrene	0.0002	0.0002	<0.0000784	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002					
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.000127	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003					
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	<0.000711	0.00018 J	<0.000037	0.000063 J	<0.000037	0.000087 J	<0.000037	<0.000068	<0.00019	0.00034 J	0.00064 J	<0.0012	<0.0012
Chrysene	0.91	2	<0.0000784	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021					
Dibenzofuran	0.098	0.29	0.000176 J	<0.00002	<0.00002	0.0016	<0.00002	0.000079 J	0.00016	<0.00019	<0.00029	<0.0003	<0.0003	<0.0007	<0.0007
Di-n-butylphthalate (DBP)	2.4	7.3	<0.000108	<0.00002	<0.00002	0.000025 J	<0.00002	<0.00002	<0.00002	<0.000025	<0.00019	0.00085 J	0.00087 J	<0.0007	<0.0007
Fluoranthene	0.98	2.9	0.0000771 J	0.000038 J	<0.00001	0.0056	<0.00001	0.00006 J	<0.00001	0.00022	<0.00019	<0.0002	<0.0002	<0.0006	<0.0006
Fluorene	0.98	2.9	0.000344 J	0.000045 J	<0.00003	0.037	<0.00003	0.00074	0.0013	<0.00017	<0.00019	<0.0002	<0.0002	<0.0008	<0.0008
Naphthalene	0.49	1.5	<0.0000784	<0.00002	<0.00002	0.0024	<0.00002	<0.0018	0.00048	<0.00011	<0.00038	0.000626	0.000639	<0.0008	<0.0008
Nitrobenzene	0.049	0.15	<0.000108	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024					
N-Nitrosodiphenylamine	0.19	0.42	<0.000098	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025					
Pentachlorophenol	0.001	0.001	<0.000598	<0.000079	<0.000079	<0.00008	<0.000079	<0.000079	<0.000079	<0.000079					
Phenanthrene	0.73	2.2	<0.000317	<0.000021	<0.000021	0.04	<0.000021	0.0002	0.00035	<0.00024					
Phenol	7.3	22	<0.000392	<0.000035	<0.000035	<0.000035	<0.000035	<0.000035	<0.000035	<0.000035	<0.00019	<0.0002	<0.0002	<0.0015	<0.0015
Pyrene	0.73	2.2	<0.000108	0.000039 J	<0.000019	0.0032	<0.000019	0.000036 J	<0.000019	0.0001	0.00932	0.00211	0.00166	0.0026 J	0.0012 J
Metals															
Arsenic	0.01	0.01		0.0374	0.016	0.0622	0.0183	0.0704	0.036	0.0116					

Notes:

1. All values in milligrams per liter (mg/L).
2. Concentrations > RAL and non-detects are highlighted light gray.
3. Concentrations > C/I AL and non-detects are highlighted dark gray
4. TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
5. RAL = Residential Assessment Level, C/I = Commercial/Industrial
6. J = Estimated value, < = not detected at the specified detection limit.
7. MW-32A was screened in the B-CZ & replaced with MW-32AR
8. Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	P-12 07/22/2009	P-12 01/22/2010	P-12 07/14/2010	P-12 01/12/2011	P-12 07/12/2011	P-12 01/31/2012	P-12 07/11/2012	P-12 01/09/2013	P-12 07/11/2013	P-12 01/09/2014	P-12 07/02/2014	P-12 01/07/2015	P-12 07/08/2015
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005													
Benzene	0.005	0.005													
Chlorobenzene	0.1	0.1													
Ethylbenzene	0.7	0.7													
Methylene chloride	0.005	0.005													
Toluene	1	1													
Vinyl chloride	0.002	0.002													
Xylenes (total)	10	10													
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026													
2,4-Dimethylphenol	0.49	1.5													
2,4-Dinitrotoluene	0.0013	0.003													
2,6-Dinitrotoluene	0.0013	0.003													
2-Chloronaphthalene	2	5.8													
2-Methylnaphthalene	0.098	0.29	<0.0009										<0.000066		
4,6-Dinitro-2-methylphenol	0.0024	0.0073													
4-Nitrophenol	0.049	0.15													
Acenaphthene	1.5	4.4	<0.0009	<0.0009	<0.0009	<0.0009	<0.0005	<0.0005	<0.0005	<0.0000755	<0.00008	<0.0000741	<0.0000755	<0.0000792	<0.000027
Acenaphthylene	1.5	4.4	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0000566	<0.00006	<0.0000556	<0.0000566	<0.0000594	<0.000015
Anthracene	7.3	22	<0.0006	<0.0006	<0.0006	<0.0006	<0.0005	<0.0005	<0.0005	<0.0000472	<0.00005	0.0002 J	0.000189 J	<0.0000495	<0.000014
Benzo(a)anthracene	0.0091	0.02													
Benzo(a)pyrene	0.0002	0.0002													
bis(2-Chloroethoxy)methane	0.00083	0.0019													
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	<0.0033	<0.0033	<0.0033	<0.0033	<0.0005	<0.0005	<0.0005	0.00142 J	0.00039 J	0.000515 J	0.000439 J	<0.000366	0.00055
Chrysene	0.91	2													
Dibenzofuran	0.098	0.29	<0.0007	<0.0007	<0.0007	<0.0007	<0.0005	<0.0005	<0.0005	<0.0000755	<0.00008	<0.0000741	<0.0000755	<0.0000792	<0.00002
Di-n-butylphthalate (DBP)	2.4	7.3	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.000104	<0.00011	<0.000416	0.000144 J	<0.000109	<0.00002
Fluoranthene	0.98	2.9	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.000066	<0.00007	<0.0000648	<0.000066	<0.0000693	<0.00001
Fluorene	0.98	2.9	<0.0006	<0.0006	<0.0006	<0.0006	<0.0005	<0.0005	<0.0005	<0.000066	<0.00007	<0.0000648	<0.000066	<0.0000693	<0.00003
Naphthalene	0.49	1.5	<0.0006	<0.0006	<0.0006	0.0006 J	<0.0005	<0.0005	<0.0005	<0.0000755	<0.00008	<0.0000741	<0.0000755	<0.0000792	<0.00002
Nitrobenzene	0.049	0.15													
N-Nitrosodiphenylamine	0.19	0.42													
Pentachlorophenol	0.001	0.001													
Phenanthrene	0.73	2.2	<0.0005											<0.0000566	
Phenol	7.3	22	<0.0005	<0.0005	<0.0005	0.0005 J	<0.0005	<0.0005	<0.0005	<0.0000377	<0.00004	<0.000037	<0.0000377	<0.0000396	<0.000035
Pyrene	0.73	2.2	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.000104	<0.00011	<0.000102	0.00189	0.00152 J	<0.000019
Metals															
Arsenic	0.01	0.01													

- Notes:
- All values in milligrams per liter (mg/L).
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 - RAL = Residential Assessment Level, C/I = Commercial/Industrial
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**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	P-12	P-12	P-12	P-12	P-12	P-12	P-12	P-12	P-12	P-12	TW-41B	TW-41B	TW-41B
			01/13/2016	07/07/2016	01/12/2017	07/13/2017	01/04/2018	07/19/2018	01/07/2019	07/01/2019	01/13/2020	07/15/2020	01/19/2010	07/27/2011	02/01/2012
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005											<0.0005	<0.001	<0.001
Benzene	0.005	0.005											<0.0005	<0.001	<0.001
Chlorobenzene	0.1	0.1											<0.0005	<0.001	<0.001
Ethylbenzene	0.7	0.7											<0.0005	0.0075	<0.0011
Methylene chloride	0.005	0.005											<0.0005	<0.0013	<0.0013
Toluene	1	1											<0.0005	0.0033 J	<0.001
Vinyl chloride	0.002	0.002													
Xylenes (total)	10	10											<0.001	0.0052 J	<0.0031
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026											<0.0001	<0.00005	<0.00005
2,4-Dimethylphenol	0.49	1.5											<0.00008	<0.00005	0.00005 J
2,4-Dinitrotoluene	0.0013	0.003											<0.00009	<0.00005	0.00005 J
2,6-Dinitrotoluene	0.0013	0.003											<0.00007	<0.00006	0.00006 J
2-Chloronaphthalene	2	5.8											<0.0001	<0.00005	0.00005 J
2-Methylnaphthalene	0.098	0.29											<0.00007	0.015	0.00005 J
4,6-Dinitro-2-methylphenol	0.0024	0.0073											<0.00008	<0.00008	<0.00008
4-Nitrophenol	0.049	0.15											<0.00007	<0.00005	0.00005 J
Acenaphthene	1.5	4.4	<0.000027	<0.000027	<0.000027	<0.000027	<0.000027	<0.000027	<0.000027	<0.000027	<0.000027	<0.000027	<0.00009	0.041	0.00005 J
Acenaphthylene	1.5	4.4	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.00007	0.00053	0.00005 J
Anthracene	7.3	22	<0.000014	0.000026 J	<0.000014	<0.000014	0.000036 J	<0.000014	0.000063 J	0.000052 J	0.0001	<0.000014	<0.00007	0.0022	0.00016 J
Benzo(a)anthracene	0.0091	0.02											<0.00007	<0.00005	<0.00005
Benzo(a)pyrene	0.0002	0.0002											<0.00008	<0.00005	<0.00005
bis(2-Chloroethoxy)methane	0.00083	0.0019											<0.00009	<0.00005	0.00005 J
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	0.00036	0.000086 J	0.00029	0.00026	<0.00012	<0.00009	<0.000037	<0.000037	<0.000037	<0.000037	0.0011	0.00022	<0.00023
Chrysene	0.91	2											<0.00007	<0.00005	<0.00005
Dibenzofuran	0.098	0.29	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00008	0.029	0.00005 J
Di-n-butylphthalate (DBP)	2.4	7.3	<0.00002	<0.00002	<0.00002	<0.00002	<0.000022	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00007	<0.00005	<0.00005
Fluoranthene	0.98	2.9	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00007	0.0022	<0.00005
Fluorene	0.98	2.9	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	0.00015 J	0.028	0.00005 J
Naphthalene	0.49	1.5	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	0.00016	<0.00002	0.00014 J	0.049	0.00051 J
Nitrobenzene	0.049	0.15											<0.00009	<0.00005	0.00005 J
N-Nitrosodiphenylamine	0.19	0.42											<0.00009	<0.00005	<0.00005
Pentachlorophenol	0.001	0.001											<0.00008	<0.00005	0.00005 J
Phenanthrene	0.73	2.2											<0.00007	0.019	<0.00005
Phenol	7.3	22	<0.000035	<0.000035	<0.000035	<0.000035	<0.000035	<0.000035	<0.000035	<0.000035	<0.000035	<0.000035	<0.00007	<0.00005	0.000057 J
Pyrene	0.73	2.2	<0.000019	<0.000019	<0.000019	<0.000019	0.000097 J	<0.000019	<0.000019	<0.000019	0.00063	<0.000019	<0.00007	0.00095	<0.00005
Metals															
Arsenic	0.01	0.01													

- Notes:
- All values in milligrams per liter (mg/L).
 - Concentrations > RAL and non-detects are highlighted light gray.
 - Concentrations > C/I AL and non-detects are highlighted dark gray
 - TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
 - RAL = Residential Assessment Level, C/I = Commercial/Industrial
 - J = Estimated value, < = not detected at the specified detection limit.
 - MW-32A was screened in the B-CZ & replaced with MW-32AR
 - Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Residential Assessment Level	C/I PCL	TW-41B 07/26/2012	TW-41B 02/05/2013	TW-41B 07/31/2013	TW-41B 01/16/2014	TW-41B 07/25/2014	TW-41B 01/24/2018	TW-41B 03/20/2018	TW-41B 05/16/2018	TW-41B 01/09/2019	TW-41B 07/12/2019	TW-41B 01/13/2020	TW-41B 07/17/2020	TW-56A 01/20/2010
Volatile Organic Compounds															
1,2-Dichloroethane	0.005	0.005	<0.0005	<0.00014	<0.00014	<0.0002	<0.00014	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.023 J
Benzene	0.005	0.005	<0.0005	<0.00008	0.000347 J	<0.0002	0.000594 J	0.00065 J	0.001 J	0.0013	<0.002	<0.0013	0.00039 J	0.0017	0.26
Chlorobenzene	0.1	0.1	<0.0005	<0.00012	<0.00012	<0.00018	<0.00012	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0025
Ethylbenzene	0.7	0.7	<0.0005	<0.00011	0.00115	<0.00019	0.00501	<0.0003	0.0036	0.0029	<0.003	<0.0011	<0.0003	0.0015	0.36
Methylene chloride	0.005	0.005	<0.001	<0.00015	<0.00015	<0.00022	<0.00015	<0.001	<0.001	<0.001	<0.01	<0.001	<0.001	<0.001	<0.0025
Toluene	1	1	<0.0005	<0.00015	<0.000279	<0.00017	0.00116	<0.0002	0.00068 J	0.0012	<0.002	<0.0011	<0.0002	0.0016	0.32
Vinyl chloride	0.002	0.002		<0.00011			<0.00011								<0.0025
Xylenes (total)	10	10	<0.0015	<0.00026	0.000386 J	<0.00058	0.0101	0.0079	0.013	0.015	<0.003	0.019	0.0021	0.021	0.98
Semivolatile Organic Compounds															
1,2-Diphenylhydrazine	0.0011	0.0026	<0.00005	<0.000104	<0.000105	<0.000104	<0.000107	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.0001
2,4-Dimethylphenol	0.49	1.5	0.0014	<0.000292	<0.000295	<0.000292	<0.000301	<0.000041	<0.00004	<0.00004	<0.00004	<0.00004	0.00017 J	<0.00004	2.9
2,4-Dinitrotoluene	0.0013	0.003	<0.00005	<0.000123	<0.000124	<0.000123	<0.000126	<0.000059	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.00009
2,6-Dinitrotoluene	0.0013	0.003	<0.00006	<0.0000755	<0.0000762	<0.0000755	<0.0000777	<0.000043	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.00007
2-Chloronaphthalene	2	5.8	<0.00005	<0.0000755	<0.0000762	<0.0000755	<0.0000777	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	0.00012 J	<0.000021	<0.0001
2-Methylnaphthalene	0.098	0.29	<0.0001	<0.000066	0.000256 J	<0.0000846	0.0125	0.0003	0.011	0.026	0.0098	0.067	0.0071	0.029	0.15
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00008	<0.000783	<0.00079	<0.000783	<0.000806	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00008
4-Nitrophenol	0.049	0.15	<0.00005	<0.000528	<0.000533	<0.000528	<0.000544	<0.000048	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.00007
Acenaphthene	1.5	4.4	0.039	<0.0000755	0.0252	<0.0000755	0.142	0.087	0.072	0.08	0.058	0.15	0.12	0.065	0.077
Acenaphthylene	1.5	4.4	0.00041	0.0000751 J	0.000409 J	0.0000926 J	0.00185	0.0019	0.0017	0.0016	0.00091	0.0014	0.0011	0.0011	0.0024
Anthracene	7.3	22	0.0011	0.000979	0.00161	0.00093	0.00697	0.0016	0.0034	0.0039	0.0023	0.0055	0.0031	0.0039	0.0035
Benzo(a)anthracene	0.0091	0.02	<0.00005	<0.0000755	0.0000879 J	<0.0000755	<0.0000777	<0.000051	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	0.00099
Benzo(a)pyrene	0.0002	0.0002	<0.00005	<0.0000755	<0.0000762	<0.0000755	<0.0000777	<0.00002	<0.00002	<0.00002	0.000097 J	<0.00002	<0.00002	<0.00002	0.00031
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00005	<0.000123	<0.000124	<0.000123	<0.000126	<0.000031	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00009
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	<0.0001	<0.000349	<0.000352	<0.000349	<0.000359	0.000058 J	<0.000037	<0.000037	<0.000037	<0.000037	<0.000037	<0.000037	<0.00025
Chrysene	0.91	2	<0.00005	<0.0000755	<0.0000762	<0.0000755	<0.0000777	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	0.00084
Dibenzofuran	0.098	0.29	0.016	<0.0000755	0.0104	<0.0000755	0.0845	0.022	0.026	0.034	0.026	0.074	0.055	0.034	0.043
Di-n-butylphthalate (DBP)	2.4	7.3	<0.0001	<0.000104	<0.000138	0.000116 J	<0.000107	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	0.00045
Fluoranthene	0.98	2.9	0.0015	<0.000066	0.00153	0.000206 J	0.00475	0.0019	0.0026	0.0022	0.0014	0.0034	0.0021	0.0025	0.01
Fluorene	0.98	2.9	0.0054 J	0.0000917 J	0.00386	<0.000066	<0.0811	0.035	0.037	0.045	0.035	0.085	0.078	0.044	0.033
Naphthalene	0.49	1.5	<0.0013	0.000156 J	0.00309 J	<0.000259	0.149	0.027	0.12	0.28	0.061	0.69	0.058	0.6	2.5
Nitrobenzene	0.049	0.15	<0.00005	<0.000104	<0.000105	<0.000104	<0.000107	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.00009
N-Nitrosodiphenylamine	0.19	0.42	<0.00005	<0.0000943	<0.0000952	<0.0000943	<0.0000971	<0.000026	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.00009
Pentachlorophenol	0.001	0.001	<0.00005	<0.000575	<0.000581	<0.000575	<0.000592	<0.000081	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	0.00013 J
Phenanthrene	0.73	2.2	<0.00005	<0.0000566	0.000659	<0.000176	0.0573	0.00048	0.0089	0.013	0.0035	0.027	0.0084	0.018	0.06
Phenol	7.3	22	0.0016	<0.0000377	<0.0000381	<0.0000377	<0.0000388	<0.000036	<0.000035	<0.000035	<0.000035	<0.000035	<0.000035	<0.000035	0.014
Pyrene	0.73	2.2	0.00066	<0.000104	0.000702	0.000223 J	0.00209	0.00083	0.0011	0.001	0.00056	0.0014	0.00082	0.0011	0.0067
Metals															
Arsenic	0.01	0.01						0.0376	0.0953	0.0976	0.125	0.113	0.0557	0.0883	

Notes:

- All values in milligrams per liter (mg/L).
- Concentrations > RAL and non-detects are highlighted light gray.
- Concentrations > C/I AL and non-detects are highlighted dark gray
- TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
- RAL = Residential Assessment Level, C/I = Commercial/Industrial
- J = Estimated value, < = not detected at the specified detection limit.
- MW-32A was screened in the B-CZ & replaced with MW-32AR
- Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 2
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 2 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	<i>Residential Assessment Level</i>	<i>C/I PCL</i>	TW-56A 07/14/2011	TW-56A 02/02/2012	TW-56A 07/11/2012	TW-56A 01/31/2013
<i>Volatile Organic Compounds</i>						
1,2-Dichloroethane	0.005	0.005	<0.005	<0.01	<0.0025	<0.0014
Benzene	0.005	0.005	0.27	0.15	0.26	0.238
Chlorobenzene	0.1	0.1	<0.005	<0.01	<0.0025	0.00412 J
Ethylbenzene	0.7	0.7	0.16	0.068	0.14	0.202
Methylene chloride	0.005	0.005	<0.0065	<0.013	<0.005	<0.0015
Toluene	1	1	0.14	0.028 J	0.069	0.0314
Vinyl chloride	0.002	0.002	0.0069 J	0.01 J	0.016	0.0126 J
Xylenes (total)	10	10	0.61	0.53	0.43	0.5
<i>Semivolatile Organic Compounds</i>						
1,2-Diphenylhydrazine	0.0011	0.0026	<0.00005	<0.0005	<0.00005	<0.055
2,4-Dimethylphenol	0.49	1.5	6.8	4.2	3.8	4.81
2,4-Dinitrotoluene	0.0013	0.003	<0.00005	<0.0005	<0.00005	<0.065
2,6-Dinitrotoluene	0.0013	0.003	<0.00006	<0.0006	<0.00006	<0.04
2-Chloronaphthalene	2	5.8	<0.00005	<0.0005	<0.00005	<0.04
2-Methylnaphthalene	0.098	0.29	0.16	0.11	0.052	0.123 J
4,6-Dinitro-2-methylphenol	0.0024	0.0073	<0.00008	<0.0008	<0.00008	<0.415
4-Nitrophenol	0.049	0.15	<0.00005	<0.0005	<0.00005	<0.28
Acenaphthene	1.5	4.4	0.18	0.19	0.095	0.25
Acenaphthylene	1.5	4.4	0.004	0.0038	0.0028	<0.03
Anthracene	7.3	22	0.021	0.02	0.0083	0.0338 J
Benzo(a)anthracene	0.0091	0.02	0.0014	0.0016 J	0.0024	<0.04
Benzo(a)pyrene	0.0002	0.0002	0.00047	0.00051 J	0.0008	<0.04
bis(2-Chloroethoxy)methane	0.00083	0.0019	<0.00005	<0.0005	<0.00005	<0.065
bis(2-Ethylhexyl)phthalate (DEHP)	0.006	0.006	<0.0018	<0.001	<0.0001	<0.185
Chrysene	0.91	2	0.0014	0.0018 J	0.0022	<0.04
Dibenzofuran	0.098	0.29	0.09	0.049	0.038	0.108 J
Di-n-butylphthalate (DBP)	2.4	7.3	<0.00005	<0.0005	<0.00005	<0.055
Fluoranthene	0.98	2.9	0.021	0.02	0.027	<0.035
Fluorene	0.98	2.9	0.09	0.058	0.047	0.12 J
Naphthalene	0.49	1.5	2.3	2.2	0.81	1.75 J
Nitrobenzene	0.049	0.15	<0.00005	<0.0005	<0.00005	<0.055
N-Nitrosodiphenylamine	0.19	0.42	<0.00005	<0.0005	<0.00005	<0.05
Pentachlorophenol	0.001	0.001	0.00076 J	<0.0005	0.00091	<0.305
Phenanthrene	0.73	2.2	0.17	0.2	0.073	0.217 J
Phenol	7.3	22	<0.00005	0.0063	<0.00005	<0.02
Pyrene	0.73	2.2	0.012	0.015	0.018	<0.055
<i>Metals</i>						
Arsenic	0.01	0.01				

Notes:

1. All values in milligrams per liter (mg/L).
2. Concentrations > RAL and non-detects are highlighted light gray.
3. Concentrations > C/I AL and non-detects are highlighted dark gray
4. TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
5. RAL = Residential Assessment Level, C/I = Commercial/Industrial
6. J = Estimated value, < = not detected at the specified detection limit.
7. MW-32A was screened in the B-CZ & replaced with MW-32AR
8. Based on historical data, MW-25A and MW-25C were likely mislabeled in March 2018 and results are provided correctly in this table.

**TABLE 3
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 3 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Class 3 Residential Assessment	Class 3 C/I PCL	MW-32B 02/09/2012 DNAPL	MW-32B 07/16/2012 DNAPL	MW-32B 02/06/2013 DNAPL	MW-32B 01/21/2014 DNAPL	MW-32B 01/20/2020 DNAPL	MW-32B 07/27/2020 DNAPL	MW-33B 01/29/2008 DNAPL	MW-33B 07/14/2008 DNAPL	MW-33B 07/14/2008 Duplicate	MW-33B 02/03/2009 DNAPL	MW-33B 01/13/2010 DNAPL	MW-33B 06/29/2010 DNAPL
Volatile Organic Compounds														
1,2-Dichloroethane	0.5	0.5	0.025 J	<0.0005	<0.00014	<0.0002	<0.005	0.1	<0.00052	<0.00109	<0.00109	<0.005	<0.005	<0.005
Benzene	0.5	0.5	2.6 J	<0.0005	0.00428	0.239	1.8	3.7	1.92	2.73	2.69	2.4	1.2	2
Chlorobenzene	10	10	0.025 J	<0.0005	<0.000343	<0.00018	<0.0075	<0.03	<0.00047	<0.0015	<0.0015	<0.005	<0.005	<0.005
Ethylbenzene	70	70	0.53 J	<0.0005	0.00561	0.254	0.73	0.83	0.491	0.626	0.598	0.47	0.41	0.62
Methylene chloride	0.5	0.5	0.032 J	<0.001	<0.00015	<0.00022	<0.025	<0.1	<0.00054	<0.00122	<0.00122	0.0096 J	<0.005	<0.005
Toluene	100	100	2.2 J	<0.0005	0.00261	0.541	2.3	3.2	0.1	0.136	0.13	0.084	0.019 J	0.016 J
Vinyl chloride	0.2	0.2					<0.005							
Xylenes (total)	1000	1000	1.5 J	<0.0015	0.0203	0.749	2.1	2.2	1.24	1.63	1.58	1.4	1.2	1.5
Semivolatile Organic Compounds														
1,2-Diphenylhydrazine	0.11	0.26	0.0005 J	<0.00005	<0.0262	<0.00104	<0.00042	<0.021	<0.01	<0.008	<0.008	<0.0001	<0.0001	<0.0001
2,4-Dimethylphenol	49	150	46	0.0014	<0.0738	0.178	26	41	<0.043	<0.028	<0.028	<0.00008	0.0035	<0.00008
2,4-Dinitrotoluene	0.13	0.3	0.0005 J	<0.00005	<0.031	<0.00123	<0.0012	<0.058	<0.029	<0.019	<0.019	<0.00009	<0.00009	<0.00009
2,6-Dinitrotoluene	0.13	0.3	0.0006 J	<0.00006	<0.019	<0.000755	<0.00084	<0.042	<0.029	<0.019	<0.019	<0.00007	<0.00007	<0.00007
2-Chloronaphthalene	200	580	0.0005 J	<0.00005	<0.019	<0.000755	<0.00042	<0.021	<0.057	<0.038	<0.038	<0.00012	<0.0001	<0.0001
2-Methylnaphthalene	9.8	29	0.53	0.00019 J	<0.0167	0.137	50	540	0.443	0.808	0.787	1.9	0.71	0.51
4,6-Dinitro-2-methylphenol	0.24	0.73	0.0008 J	<0.00008	<0.198	<0.00783	<0.0004	<0.02	<0.029	<0.019	<0.019	<0.00008	<0.00008	<0.00008
4-Nitrophenol	4.9	15	0.0005 J	<0.00005	<0.133	<0.00528	<0.00094	<0.047	<0.036	<0.024	<0.024	<0.00007	<0.00007	<0.00007
Acenaphthene	150	440	0.28 J	0.014	0.0416 J	0.0427	26	230	0.137	0.152	0.182	0.41	0.17	0.096
Acenaphthylene	150	440	0.0059 J	0.00085	<0.0143	<0.000566	<0.0003	1.7	<0.043	<0.028	<0.028	0.0037	0.0016	0.0011
Anthracene	730	2200	0.059 J	0.0048	<0.0119	0.144	23	170	<0.029	<0.019	0.035	0.14	0.015	0.011
Benzo(a)anthracene	0.91	2	0.0033 J	0.0033	<0.019	0.0195	2.2	16	<0.029	<0.019	<0.019	0.022	0.00019 J	0.000073 J
Benzo(a)pyrene	0.02	0.02	0.0005 J	0.00089	<0.019	0.00649	0.74	4.8	<0.029	<0.019	<0.019	0.0045	<0.00008	<0.00008
bis(2-Chloroethoxy)methane	0.083	0.19	<0.0005	<0.00005	<0.031	<0.00123	<0.0006	<0.03	<0.057	<0.038	<0.038	<0.00009	<0.00009	<0.00009
bis(2-Ethylhexyl)phthalate (DEHP)	0.6	0.6	0.001 J	0.00079	<0.0881	<0.00349	<0.00074	<0.037	<0.029	<0.019	<0.019	0.00031	0.008	<0.00054
Chrysene	91	200	0.0042 J	0.0023	<0.019	0.018	2.4	27	<0.029	<0.019	<0.019	0.02	0.00018 J	0.000092 J
Dibenzofuran	9.8	29	0.28 J	0.0012	<0.019	0.0428	28	250	0.118	0.17	0.205	0.46	0.18	0.13
Di-n-butylphthalate (DBP)	240	730	0.0005 J	<0.00005	<0.0262	<0.00104	<0.0004	<0.02	<0.029	<0.019	<0.019	<0.00007	<0.00007	<0.00007
Fluoranthene	98	290	0.03 J	0.031	<0.0167	0.121	21	210	<0.029	<0.019	0.042	0.2	0.0033	0.0018
Fluorene	98	290	0.15 J	0.0021	<0.0167	0.0282	23	180	0.046	0.0683	0.098	0.26	0.068	0.048
Naphthalene	49	150	26	<0.00057	<0.019	2.17 J	300	2300	12.5	16	13.1	20	10	2.2
Nitrobenzene	4.9	15	<0.0005	<0.00005	<0.0262	<0.00104	<0.00048	<0.024	<0.057	<0.038	<0.038	<0.00009	<0.00009	<0.00009
N-Nitrosodiphenylamine	19	42	0.0005 J	<0.00005	<0.0238	<0.000943	<0.0005	<0.025	<0.036	<0.024	<0.024	<0.00009	<0.00009	<0.00009
Pentachlorophenol	0.1	0.1	0.0005 J	<0.00005	<0.145	<0.00575	<0.0016	<0.079	<0.029	<0.019	<0.019	<0.00008	<0.00008	<0.00008
Phenanthrene	73	220	0.25 J	0.0012	<0.0143	0.0548	69	660	0.0903	0.0688	0.186	0.72	0.066	0.041
Phenol	730	2200	38 J	0.000066 J	<0.00952	0.0357	17	23	<0.029	<0.019	<0.019	0.003	<0.00007	0.0032
Pyrene	73	220	0.02 J	0.04	<0.0262	0.0841	14	120	0.045	<0.019	0.022	0.13	0.0016	0.00092
Metals														
Arsenic	1	1					0.00193 J	0.00166 J						

Notes:

- All values in milligrams per liter (mg/L).
- Concentrations > RAL and non-detects are highlighted light gray.
- Concentrations > C/I AL and non-detects are highlighted dark gray
- TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
- RAL = Residential Assessment Level, C/I = Commercial/Industrial
- J = Estimated value, < = not detected at the specified detection limit.

**TABLE 3
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 3 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Class 3 Residential Assessment	Class 3 C/I PCL	MW-33B 01/24/2011 DNAPL	MW-33B 07/19/2011 DNAPL	MW-33B 02/15/2012	MW-33B 07/17/2012	MW-33BR 02/06/2013	MW-33BR 08/07/2013	MW-33BR 01/21/2014	MW-33BR 07/28/2014	MW-33BR 01/28/2018	MW-33BR 03/29/2018	MW-33BR 05/31/2018	MW-33BR 01/22/2019
Volatile Organic Compounds														
1,2-Dichloroethane	0.5	0.5	<0.005	<0.01	<0.005	<0.0005	<0.007	<0.0007	<0.0002	<0.0007	<0.0002	<0.0002	<0.0002	<0.0002
Benzene	0.5	0.5	1	1.6	2	0.3	1.61	1.62	0.837	1.41	<0.0002	<0.0002	0.12	0.0025
Chlorobenzene	10	10	<0.005	<0.01	<0.005	<0.0005	<0.006	<0.0006	0.000349 J	<0.0006	<0.0003	<0.0003	<0.0003	<0.0003
Ethylbenzene	70	70	0.36	0.4	0.46	0.07	0.471	0.389	0.128	0.348	<0.0003	<0.0003	0.0058	0.013
Methylene chloride	0.5	0.5	<0.005	<0.013	<0.0065	<0.001	0.011 J	<0.00075	<0.00022	<0.00075	<0.001	<0.001	<0.001	<0.001
Toluene	100	100	0.0067 J	<0.01	0.12	0.023	0.157	0.0645	0.00942	0.00638	<0.0002	<0.0002	<0.0002	<0.0002
Vinyl chloride	0.2	0.2	<0.01	<0.005	<0.005	<0.0005	<0.0055	<0.00055	<0.00018	<0.00055	<0.0002	<0.0002	<0.0002	<0.0002
Xylenes (total)	1000	1000	0.85	1.2	0.82	0.15	0.924	0.182	0.128	0.0649	<0.0003	<0.0003	0.0058	<0.0003
Semivolatile Organic Compounds														
1,2-Diphenylhydrazine	0.11	0.26	<0.0001	<0.00005	<0.00005	<0.0005	<0.529	<0.00519	<0.000529	<0.000107	<0.000021	<0.000021	<0.000021	<0.000021
2,4-Dimethylphenol	49	150	0.0029	0.0034	<0.00005	0.0074	<1.49	<0.0146	<0.00149	<0.000301	<0.00004	<0.00004	<0.00004	<0.00004
2,4-Dinitrotoluene	0.13	0.3	<0.00009	<0.00005	<0.00005	<0.0005	<0.625	<0.00613	<0.000625	<0.000126	<0.000058	<0.000058	<0.000058	<0.000058
2,6-Dinitrotoluene	0.13	0.3	<0.00007	<0.00006	<0.00006	<0.0006	<0.385	<0.00377	<0.000385	<0.0000777	<0.000042	<0.000042	<0.000042	<0.000042
2-Chloronaphthalene	200	580	<0.0001	<0.00005	<0.00005	<0.0005	<0.385	<0.00377	<0.000385	<0.0000777	<0.000021	<0.000021	<0.000021	<0.000021
2-Methylnaphthalene	9.8	29	0.52	1.6	0.81	0.55	0.993 J	0.198	0.0558	0.277	<0.000019	<0.000019	0.0029	<0.000019
4,6-Dinitro-2-methylphenol	0.24	0.73	<0.00008	<0.00008	<0.00008	<0.0008	<3.99	<0.0392	<0.00399	<0.000806	<0.00002	<0.00002	<0.00002	<0.00002
4-Nitrophenol	4.9	15	<0.00007	<0.00005	<0.00005	<0.0005	<2.69	<0.0264	<0.00269	<0.000544	<0.000047	<0.000047	<0.000047	<0.000047
Acenaphthene	150	440	0.15	0.41	0.23	0.099	<0.385	0.0455	0.0625	0.0711	<0.000027	<0.000027	0.0019	0.0013
Acenaphthylene	150	440	0.0015	0.0033	<0.00005	0.0014 J	<0.288	<0.00283	<0.000679	0.00087	<0.000015	<0.000015	0.000068 J	<0.000015
Anthracene	730	2200	0.027	0.16	0.054	0.011	<0.24	<0.00236	0.0045	0.00564	<0.000014	<0.000014	0.00018	<0.000014
Benzo(a)anthracene	0.91	2	0.0019	0.032	0.000074 J	<0.0005	<0.385	<0.00377	<0.000385	0.000119 J	<0.00005	<0.00005	<0.00005	<0.00005
Benzo(a)pyrene	0.02	0.02	0.00073	0.0077	<0.00005	<0.0005	<0.385	<0.00377	<0.000385	<0.0000777	<0.00002	<0.00002	<0.00002	<0.00002
bis(2-Chloroethoxy)methane	0.083	0.19	<0.00009	<0.00005	<0.00005	<0.0005	<0.625	<0.00613	<0.000625	<0.000126	<0.00003	<0.00003	<0.00003	<0.00003
bis(2-Ethylhexyl)phthalate (DEHP)	0.6	0.6	0.00091	<0.00046	<0.00018	<0.001	<1.78	<0.0175	<0.00178	0.000722	0.000062 J	<0.000037	0.0001 J	<0.000037
Chrysene	91	200	0.0018	0.026	0.000073 J	<0.0005	<0.385	<0.00377	<0.000385	0.000132 J	<0.000021	<0.000021	<0.000021	<0.000021
Dibenzofuran	9.8	29	0.17	0.53	0.38	0.15	<0.385	0.0498	0.0769	0.0868	<0.000021	<0.000021	0.0019	0.000079 J
Di-n-butylphthalate (DBP)	240	730	<0.00007	<0.00005	<0.00005	<0.0005	<0.529	<0.00519	<0.000529	<0.000384	<0.00002	<0.00002	<0.00002	<0.00002
Fluoranthene	98	290	0.033	0.28	0.0049	0.01	<0.337	<0.0033	0.00107 J	0.00265	0.000049 J	<0.00001	0.0003	0.000053 J
Fluorene	98	290	0.069	0.31	0.12	0.051	<0.337	0.0181 J	0.0287	0.035 J	<0.00003	<0.00003	0.00058	<0.00003
Naphthalene	49	150	7	13	21	7.3	14.9 J	6.54	1.68 J	6.59	<0.00018	<0.00002	0.069	0.00004 J
Nitrobenzene	4.9	15	<0.00009	<0.00005	<0.00005	<0.0005	<0.529	<0.00519	<0.000529	<0.000107	<0.000024	<0.000024	<0.000024	<0.000024
N-Nitrosodiphenylamine	19	42	<0.00009	<0.00005	0.00081	<0.0005	<0.481	<0.00472	<0.000481	<0.0000971	<0.000025	<0.000025	<0.000025	<0.000025
Pentachlorophenol	0.1	0.1	<0.00008	<0.00005	<0.00005	<0.0005	<2.93	<0.0288	<0.00293	<0.000592	<0.000079	<0.000079	<0.000079	<0.000079
Phenanthrene	73	220	0.09	0.79	0.17	0.091	<0.288	0.0141 J	0.0238	0.0313 J	<0.000047	<0.000021	0.0008	<0.000021
Phenol	730	2200	<0.00007	0.001	0.0043	0.0014 J	<0.192	<0.00189	<0.000192	<0.000388	<0.000035	<0.000035	<0.000035	<0.000035
Pyrene	73	220	0.007	0.17	0.0025	0.0054	<0.529	<0.00519	0.000734 J	0.00126	<0.000019	<0.000019	0.00019	0.00003 J
Metals														
Arsenic	1	1									0.00144 J	0.00187 J	0.00294	0.00143 J

Notes:

1. All values in milligrams per liter (mg/L).
2. Concentrations > RAL and non-detects are highlighted light gray.
3. Concentrations > C/I AL and non-detects are highlighted dark gray
4. TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
5. RAL = Residential Assessment Level, C/I = Commercial/Industrial
6. J = Estimated value, < = not detected at the specified detection limit.

**TABLE 3
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 3 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Class 3		MW-33BR	MW-33BR	MW-33BR	MW-36B	MW-36B	MW-36B	MW-36B	MW-36B	MW-36B	MW-36B	MW-36B	MW-36B
	Residential Assessment	Class 3 C/I PCL	07/30/2019	01/15/2020	07/27/2020	07/15/2010	07/15/2010	01/20/2011	07/19/2011	02/08/2012	07/17/2012	01/31/2013	08/06/2013	01/16/2014
Volatile Organic Compounds														
1,2-Dichloroethane	0.5	0.5	<0.0002	<0.0002	0.0032	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00014	<0.00014	<0.0002
Benzene	0.5	0.5	0.25	0.12	0.14	<0.0005	<0.0005	0.0018 J	0.0014 J	<0.001	<0.0005	<0.00008	<0.00008	<0.0002
Chlorobenzene	10	10	<0.0003	<0.0003	<0.0003	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00012	<0.00012	<0.00018
Ethylbenzene	70	70	0.065	0.043	0.099	<0.0005	<0.0005	<0.0005	<0.0011	<0.0011	<0.0005	<0.00011	<0.00011	<0.00019
Methylene chloride	0.5	0.5	<0.001	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0013	<0.0013	<0.001	<0.00015	<0.00015	<0.00022
Toluene	100	100	0.0031	<0.0002	0.0067	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00015	<0.00015	<0.00017
Vinyl chloride	0.2	0.2	<0.0002	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00011	<0.00011	<0.00018
Xylenes (total)	1000	1000	0.016	0.011	0.033	<0.001	<0.001	<0.001	<0.0031	<0.0031	<0.0015	<0.00026	<0.00026	<0.00058
Semivolatile Organic Compounds														
1,2-Diphenylhydrazine	0.11	0.26	<0.000021	<0.000021	<0.000021	<0.0001	<0.0001	<0.0001	<0.00005	<0.00005	<0.00005	<0.000104	<0.00011	<0.000104
2,4-Dimethylphenol	49	150	0.00028	0.00018 J	<0.00004	<0.00008	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005	<0.000292	<0.00031	<0.000292
2,4-Dinitrotoluene	0.13	0.3	<0.000058	<0.000058	<0.000058	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.000123	<0.00013	<0.000123
2,6-Dinitrotoluene	0.13	0.3	<0.000042	<0.000042	<0.000042	<0.00007	<0.00007	<0.00007	<0.00006	<0.00006	<0.00006	<0.0000755	<0.00008	<0.0000755
2-Chloronaphthalene	200	580	<0.000021	<0.000021	<0.000021	<0.0001	<0.0001	<0.0001	<0.00005	<0.00005	<0.00005	<0.0000755	<0.00008	<0.0000755
2-Methylnaphthalene	9.8	29	0.014	0.00025	0.022	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.000762	<0.00007	<0.000271
4,6-Dinitro-2-methylphenol	0.24	0.73	<0.00002	<0.00002	<0.00002	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.000783	<0.00083	<0.000783
4-Nitrophenol	4.9	15	<0.000047	<0.000047	<0.000047	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.000528	<0.00056	<0.000528
Acenaphthene	150	440	0.0078	0.0051	0.0066	<0.00009	<0.00009	0.00023	0.00014 J	0.00023	0.00016 J	<0.0000755	<0.00008	0.000463 J
Acenaphthylene	150	440	<0.000015	0.00015	0.00015	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000566	<0.00006	<0.0000566
Anthracene	730	2200	0.00055	0.00046	0.0018	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000472	<0.00005	0.00035 J
Benzo(a)anthracene	0.91	2	<0.00005	0.0001	<0.00059	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000755	<0.00008	0.00012 J
Benzo(a)pyrene	0.02	0.02	<0.00002	0.000039 J	<0.00016	<0.00008	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005	<0.0000755	<0.00008	<0.0000755
bis(2-Chloroethoxy)methane	0.083	0.19	<0.00003	<0.00003	<0.00003	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.000123	<0.00013	<0.000123
bis(2-Ethylhexyl)phthalate (DEHP)	0.6	0.6	0.00007 J	0.00067	0.000072 J	0.01	0.0024	<0.00048	<0.00068	<0.00033	0.00021	<0.000349	<0.00037	0.00044 J
Chrysene	91	200	<0.000021	0.00011	0.00052	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000755	<0.00008	0.000146 J
Dibenzofuran	9.8	29	0.012	0.0039	0.0085	<0.00008	<0.00008	<0.00008	<0.00005	<0.00005	0.00011 J	<0.000118	<0.00008	<0.000409
Di-n-butylphthalate (DBP)	240	730	<0.00002	0.00099	<0.000038	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.000104	<0.00011	<0.000104
Fluoranthene	98	290	0.00039	0.00082	0.0035	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.000066	<0.00007	0.000756
Fluorene	98	290	0.0042	0.0018	0.0041	<0.00007	<0.00007	<0.00007	<0.00005	0.00011 J	<0.00005	<0.000066	<0.00007	0.000434 J
Naphthalene	49	150	0.53 J	0.0051	0.95	<0.0001	<0.0001	<0.0001	<0.00005	<0.00005	<0.00005	<0.0000943	0.0000895 J	0.000825 J
Nitrobenzene	4.9	15	<0.000024	<0.000024	<0.000024	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.000104	<0.00011	<0.000104
N-Nitrosodiphenylamine	19	42	<0.000025	<0.000025	<0.000025	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.0000943	<0.0001	<0.0000943
Pentachlorophenol	0.1	0.1	<0.000079	<0.000079	<0.000079	<0.00008	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005	<0.0000575	<0.000061	<0.0000575
Phenanthrene	73	220	0.0048	0.0013	0.01	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	0.00027	<0.0000566	<0.00006	0.00183
Phenol	730	2200	0.00021	0.00018 J	0.00023	<0.00007	<0.00007	0.000089 J	<0.00005	0.00026	<0.00005	<0.0000377	<0.00004	<0.0000377
Pyrene	73	220	0.00026	0.00057	0.0023	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.000104	<0.00011	0.00046 J
Metals														
Arsenic	1	1	0.00117 J	0.000877 J	0.000565 J									

Notes:

1. All values in milligrams per liter (mg/L).
2. Concentrations > RAL and non-detects are highlighted light gray.
3. Concentrations > C/I AL and non-detects are highlighted dark gray
4. TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
5. RAL = Residential Assessment Level, C/I = Commercial/Industrial
6. J = Estimated value, < = not detected at the specified detection limit.

**TABLE 3
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 3 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Class 3 Residential Assessment	Class 3 C/I PCL	MW-36B 07/28/2014	MW-36B 01/25/2018	MW-36B 03/21/2018	MW-36B 05/31/2018	MW-36B 01/14/2019	MW-36B 07/16/2019	MW-36B 01/09/2020	MW-36B 07/28/2020	MW-49B 02/04/2009	MW-49B 01/20/2010	MW-49B 06/24/2010	MW-49B 01/20/2011
Volatil Organic Compounds														
1,2-Dichloroethane	0.5	0.5	<0.00014	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005
Benzene	0.5	0.5	<0.00008	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0095	0.013	0.1	0.0057
Chlorobenzene	10	10	<0.00012	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0005	<0.0005	<0.0005	<0.0005
Ethylbenzene	70	70	<0.00011	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.0081	0.024	0.019	0.004 J
Methylene chloride	0.5	0.5	<0.00015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0005
Toluene	100	100	<0.00015	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.016	0.045	0.071	0.0072
Vinyl chloride	0.2	0.2	<0.00011	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005
Xylenes (total)	1000	1000	<0.00026	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	0.024	0.07	0.047	0.0066 J
Semivolatile Organic Compounds														
1,2-Diphenylhydrazine	0.11	0.26	<0.000107	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.0001	<0.0001	<0.0005	<0.0001
2,4-Dimethylphenol	49	150	<0.000301	<0.00004	<0.00004	<0.00004	<0.00004	0.000078 J	<0.000054	<0.00004	0.031	0.013	1.2	0.18
2,4-Dinitrotoluene	0.13	0.3	<0.000126	<0.000059	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.00009	<0.00009	<0.00045	<0.00009
2,6-Dinitrotoluene	0.13	0.3	<0.0000777	<0.000042	<0.000042	0.0073	<0.000042	<0.000042	<0.000042	<0.000042	<0.00007	<0.00007	<0.00035	<0.00007
2-Chloronaphthalene	200	580	<0.0000777	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.00012	<0.0001	<0.0005	<0.0001
2-Methylnaphthalene	9.8	29	<0.000068	<0.000019	<0.000019	<0.000019	<0.000019	0.00058	<0.00013	0.0011	0.14	<0.00007	0.0016	<0.00007
4,6-Dinitro-2-methylphenol	0.24	0.73	<0.000806	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00008	<0.00008	<0.0004	<0.00008
4-Nitrophenol	4.9	15	<0.000544	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.00007	<0.00007	<0.00035	<0.00007
Acenaphthene	150	440	<0.0000777	0.00014	<0.000027	0.00014	<0.000027	0.00014	<0.00017	0.00034	0.094	0.017	0.014	0.00067
Acenaphthylene	150	440	<0.0000583	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	0.0016	0.0007	0.00063 J	<0.00007
Anthracene	730	2200	<0.0000485	<0.000014	<0.000014	<0.000014	<0.000014	<0.000014	<0.000014	0.00034	0.019	0.00015 J	<0.00035	0.00031
Benzo(a)anthracene	0.91	2	<0.0000777	<0.000051	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	0.00015	0.00035	<0.00007	<0.00035	<0.00007
Benzo(a)pyrene	0.02	0.02	<0.0000777	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	0.000071 J	<0.00008	<0.00008	<0.0004	<0.00008
bis(2-Chloroethoxy)methane	0.083	0.19	<0.000126	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.00009	<0.00009	<0.00045	<0.00009
bis(2-Ethylhexyl)phthalate (DEHP)	0.6	0.6	<0.000359	0.00015 J	<0.000037	0.00017 J	0.00022	<0.000088	<0.000037	0.00013 J	0.00029	<0.00053	<0.001	<0.00055
Chrysene	91	200	<0.0000777	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	0.00014	0.00038	<0.00007	<0.00035	<0.00007
Dibenzofuran	9.8	29	<0.0000777	<0.00002	<0.00002	<0.00002	<0.00002	0.000087 J	<0.00012	0.0004	0.071	0.0024	0.0026	0.00018 J
Di-n-butylphthalate (DBP)	240	730	<0.000107	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	0.000042 J	0.0013	0.000083 J	<0.00035	<0.00007
Fluoranthene	98	290	<0.000068	<0.00001	<0.00001	<0.00001	<0.00001	0.000017 J	0.000051 J	0.00081	0.014	0.00023	<0.00035	0.00019 J
Fluorene	98	290	<0.000068	<0.00003	<0.00003	<0.00003	<0.00003	0.000047 J	<0.00012	0.00026	0.071	0.0036	0.0016	0.00018 J
Naphthalene	49	150	<0.0000777	<0.00002	<0.00002	<0.00002	<0.00002	0.006	<0.00093	0.01	1.4	0.00044	0.23	<0.00052
Nitrobenzene	4.9	15	<0.000107	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.00009	<0.00009	<0.00045	<0.00009
N-Nitrosodiphenylamine	19	42	<0.0000971	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.00009	<0.00009	<0.00045	<0.00009
Pentachlorophenol	0.1	0.1	<0.000592	<0.00008	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.00008	<0.00008	<0.0004	<0.00008
Phenanthrene	73	220	<0.0000583	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.0001	0.0012	0.11	0.00017 J	<0.00035	<0.00021
Phenol	730	2200	<0.0000388	<0.000035	<0.000035	<0.000035	<0.000035	<0.00017	<0.000075	0.00012 J	<0.00007	<0.00007	0.0053	0.00044
Pyrene	73	220	<0.000107	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	0.00049	0.0074	0.0002	<0.00035	0.00024
Metals														
Arsenic	1	1		0.00116 J	0.000942 J	0.000817 J	0.00118 J	0.00127 J	0.001 J	0.000923 J				

Notes:

1. All values in milligrams per liter (mg/L).
2. Concentrations > RAL and non-detects are highlighted light gray.
3. Concentrations > C/I AL and non-detects are highlighted dark gray
4. TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
5. RAL = Residential Assessment Level, C/I = Commercial/Industrial
6. J = Estimated value, < = not detected at the specified detection limit.

**TABLE 3
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 3 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Class 3 Residential Assessment	Class 3 C/I PCL	MW-49B 01/20/2011 Duplicate	MW-49B 07/22/2011	MW-49B 02/07/2012	MW-49B 07/23/2012	MW-49B 02/07/2013 DNAPL	MW-49B 08/01/2013 DNAPL	MW-49B 01/16/2014	MW-49B 07/16/2014	MW-49B 01/29/2018	MW-49B 03/21/2018	MW-49B 05/25/2018	MW-49B 01/27/2020 DNAPL
Volatile Organic Compounds														
1,2-Dichloroethane	0.5	0.5	<0.0005	<0.001	<0.001	<0.0005	<0.00014	<0.0028	<0.0002	<0.0028	<0.0002	<0.0002	<0.0002	<0.01
Benzene	0.5	0.5	0.0056	0.056	0.0056	0.11	0.0631	0.469	0.0691	0.346	0.0073	0.026	0.26	0.6
Chlorobenzene	10	10	<0.0005	<0.001	<0.001	<0.0005	<0.00012	0.0103 J	<0.00018	<0.0024	<0.0003	<0.0003	<0.0003	<0.015
Ethylbenzene	70	70	0.0046 J	0.0091	0.0042 J	0.023	0.0182	0.0825	0.0425	0.0847	<0.0003	<0.0003	0.048	0.26
Methylene chloride	0.5	0.5	<0.0005	<0.0013	<0.0013	<0.001	<0.00015	<0.003	<0.00022	0.0212	<0.001	<0.001	<0.001	<0.05
Toluene	100	100	0.0072	0.038	0.0057	0.089	0.0633	0.345	0.091	0.31	0.0058	0.014	0.23	0.72
Vinyl chloride	0.2	0.2		<0.001	<0.001	<0.0005	<0.00011	<0.0022	<0.00018	<0.0022	<0.0002	<0.0002	<0.0002	<0.01
Xylenes (total)	1000	1000	0.0073 J	0.02	0.008 J	0.06	0.0527	0.222	0.112	0.249	0.0095	0.012	0.14	0.71
Semivolatile Organic Compounds														
1,2-Diphenylhydrazine	0.11	0.26	<0.0001	<0.00005	<0.00005	<0.00005	<0.00524	<0.0105	<0.0259	<0.00208	<0.000021	<0.00021	<0.00021	<0.0013
2,4-Dimethylphenol	49	150	0.16	0.59	0.19	6.3	1.09	21.4	4.96 J	13.6	0.2	0.34	3.4	25
2,4-Dinitrotoluene	0.13	0.3	<0.00009	<0.00005	<0.00005	<0.00005	<0.00619	<0.0124	<0.0307	<0.00245	<0.000058	<0.00058	<0.00058	<0.0035
2,6-Dinitrotoluene	0.13	0.3	<0.00007	<0.00006	<0.00006	<0.00006	<0.00381	<0.00762	<0.0189	<0.00151	0.002	<0.00042	<0.00042	<0.0025
2-Chloronaphthalene	200	580	<0.0001	<0.00005	<0.00005	<0.00005	<0.00381	<0.00762	<0.0189	<0.00151	<0.000021	<0.00021	<0.00021	<0.0013
2-Methylnaphthalene	9.8	29	<0.00007	0.0029	0.0095	0.18	0.297	0.223	0.691	0.276	0.00011	0.00084 J	0.072	250
4,6-Dinitro-2-methylphenol	0.24	0.73	<0.00008	<0.00008	<0.00008	<0.00008	<0.0395	<0.079	<0.196	<0.0157	<0.00002	<0.0002	<0.0002	<0.0012
4-Nitrophenol	4.9	15	<0.00007	<0.00005	<0.00005	<0.00005	<0.0267	<0.0533	<0.132	<0.0106	<0.000047	<0.00047	<0.00047	<0.0028
Acenaphthene	150	440	0.00049	0.0051	0.034	0.14	0.248	0.0964	0.622	0.117	0.071	0.066	0.071	190
Acenaphthylene	150	440	0.000072 J	0.00019 J	0.0007	0.0013	<0.00286	<0.00571	<0.0142	0.00432 J	0.0017	0.003	0.026	2.1
Anthracene	730	2200	0.000083 J	0.00093	0.0029	0.056	0.0876	<0.00476	0.221	0.013	0.003	0.0038	0.0073	87
Benzo(a)anthracene	0.91	2	<0.00007	0.00018 J	<0.00005	0.013	0.0228 J	<0.00762	0.0671 J	<0.00151	0.000088 J	<0.0005	<0.0005	23
Benzo(a)pyrene	0.02	0.02	<0.00008	0.000057 J	<0.00005	0.0038	<0.00381	<0.00762	<0.0189	<0.00151	<0.00002	<0.0002	<0.0002	7.5
bis(2-Chloroethoxy)methane	0.083	0.19	<0.00009	<0.00005	<0.00005	<0.00005	<0.00619	<0.0124	<0.0307	<0.00245	<0.00003	<0.0003	<0.0003	<0.0018
bis(2-Ethylhexyl)phthalate (DEHP)	0.6	0.6	<0.0015	<0.00024	0.00069	<0.00055	<0.0176	<0.0352	<0.0873	<0.00698	0.00011 J	<0.00037	<0.00037	<0.0022
Chrysene	91	200	<0.00007	0.00016 J	<0.00005	0.015	0.0207 J	<0.00762	0.0737 J	<0.00151	0.00012	<0.00021	<0.00021	23
Dibenzofuran	9.8	29	0.00012 J	0.0018	0.019	0.12	0.2	<0.00762	0.484	0.08	0.0028	0.009	0.03	160
Di-n-butylphthalate (DBP)	240	730	<0.00007	<0.00005	<0.00005	<0.00005	<0.00524	<0.0105	<0.0259	<0.00208	<0.00002	<0.0002	<0.0002	<0.0012
Fluoranthene	98	290	<0.00007	0.0011	0.0015	0.093	0.167	<0.00667	0.415	0.00456 J	0.0027	0.0038	0.0036	170
Fluorene	98	290	<0.00007	0.0014	0.019	0.13	0.217	0.049	0.464	0.0633	0.0087	0.018	0.031	170
Naphthalene	49	150	<0.0002	0.13	0.047	2.3	1.58 J	9.38	6.75	5.57	0.00042	0.0075	2.5	1200
Nitrobenzene	4.9	15	<0.00009	<0.00005	<0.00005	<0.00005	<0.00524	<0.0105	<0.0259	<0.00208	<0.000024	<0.00024	<0.00024	<0.0014
N-Nitrosodiphenylamine	19	42	<0.00009	<0.00005	<0.00005	<0.00005	<0.00476	<0.00952	<0.0236	<0.00189	<0.000025	<0.00025	<0.00025	<0.0015
Pentachlorophenol	0.1	0.1	<0.00008	<0.00005	<0.00005	<0.00005	<0.029	<0.0581	<0.144	<0.0115	<0.000079	<0.00079	<0.00079	<0.0047
Phenanthrene	73	220	<0.0003	0.0025	0.0098	0.35	0.466	0.039 J	1.29	0.0458	0.0073	0.011	0.028	500
Phenol	730	2200	0.0004	0.00021	<0.00005	0.0063	<0.0019	<0.00381	0.0445 J	0.0145	<0.000035	<0.00035	<0.00035	<0.0021
Pyrene	73	220	0.00017 J	0.00066	0.00083	0.062	0.101	<0.0105	0.262	<0.00208	0.0014	0.002	0.0021	96
Metals														
Arsenic	1	1									0.000564 J	0.000746 J	0.00146 J	0.0107

Notes:

1. All values in milligrams per liter (mg/L).
2. Concentrations > RAL and non-detects are highlighted light gray.
3. Concentrations > C/I AL and non-detects are highlighted dark gray
4. TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
5. RAL = Residential Assessment Level, C/I = Commercial/Industrial
6. J = Estimated value, < = not detected at the specified detection limit.

**TABLE 3
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 3 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Class 3 Residential Assessment	Class 3 C/I PCL	MW-49B 07/21/2020 DNAPL	MW-54B 03/11/2020	MW-54B 05/22/2020	MW-54B 07/22/2020	MW-57B 02/15/2012 DNAPL	MW-57B 07/24/2012 DNAPL	MW-57B 01/31/2013 DNAPL	MW-57B 07/31/2013 DNAPL	MW-57B 01/15/2014 DNAPL	MW-57B 07/29/2014 DNAPL	MW-57B 01/31/2018	MW-57B 04/01/2018
Volatile Organic Compounds														
1,2-Dichloroethane	0.5	0.5	<0.0002	<0.0002	<0.0002	<0.0002	<0.01	<0.005	<0.0035	<0.014	<0.0002	<0.0007	<0.0002	<0.001
Benzene	0.5	0.5	0.5	0.00043 J	<0.0002	<0.0002	1.4	1.5	0.733	1.49	0.716	1.25	0.012	0.01
Chlorobenzene	10	10	<0.0003	<0.0003	<0.0003	<0.0003	<0.01	<0.005	<0.003	<0.012	<0.00018	<0.0006	<0.0003	<0.0015
Ethylbenzene	70	70	0.15	0.0011	<0.0003	<0.0003	0.39	0.42	0.193	0.501	0.174	0.371	0.026	0.032
Methylene chloride	0.5	0.5	<0.001	<0.001	<0.001	<0.001	<0.013	0.017 J	<0.00375	0.0405 J	<0.00022	<0.00075	<0.001	<0.005
Toluene	100	100	0.56	<0.0002	<0.0002	<0.0002	1.3	1.4	0.692	1.62	0.63	1.33	0.0043	0.0019 J
Vinyl chloride	0.2	0.2	0.0058									0.00299 J		
Xylenes (total)	1000	1000	0.39	0.0018	<0.0003	<0.0003	1.2	1.1	0.589	1.4	0.574	1.16	0.057	0.055
Semivolatile Organic Compounds														
1,2-Diphenylhydrazine	0.11	0.26	<0.00021	<0.00021	<0.00021	<0.00021	<0.0005	<0.0005	<0.055	<0.0267	<0.0519	<0.0109	<0.00021	<0.00021
2,4-Dimethylphenol	49	150	2.1	<0.00004	<0.00004	<0.00004	6.3	16	13.8	9.67	19.8 J	15	0.01	<0.00004
2,4-Dinitrotoluene	0.13	0.3	<0.00058	<0.000059	<0.000058	<0.000058	<0.0005	<0.0005	<0.065	<0.0316	<0.0613	<0.0129	<0.00058	<0.000058
2,6-Dinitrotoluene	0.13	0.3	<0.00042	<0.000042	<0.000042	<0.000042	<0.0006	<0.0006	<0.04	<0.0194	<0.0377	<0.00792	<0.00042	<0.000042
2-Chloronaphthalene	200	580	<0.00021	<0.000021	<0.000021	<0.000021	<0.0005	<0.0005	<0.04	<0.0194	<0.0377	<0.00792	<0.00021	<0.000021
2-Methylnaphthalene	9.8	29	0.28	0.00011	<0.000019	<0.000019	0.92	1.6	1.75	1.07	0.892	0.945	0.17	0.029
4,6-Dinitro-2-methylphenol	0.24	0.73	<0.0002	<0.00002	<0.00002	<0.00002	<0.0008	<0.0008	<0.415	<0.201	<0.392	<0.0822	<0.0002	<0.00002
4-Nitrophenol	4.9	15	<0.00047	<0.000047	<0.000047	<0.000047	<0.0005	<0.0005	<0.28	<0.136	<0.264	<0.0554	<0.00047	<0.000047
Acenaphthene	150	440	0.12	0.0093	<0.000027	0.000079 J	0.35	0.44	0.93	0.423	0.524	0.267	0.13	0.13
Acenaphthylene	150	440	0.0031	0.000087 J	<0.000015	<0.000015	0.006	0.0087	<0.03	<0.0146	<0.0283	<0.00594	0.0029	0.0011
Anthracene	730	2200	0.022	0.00017	<0.000014	<0.000014	0.023	0.05	0.292	0.0493 J	0.0844 J	0.0355 J	0.014	0.005
Benzo(a)anthracene	0.91	2	0.004	<0.000051	<0.00005	<0.00005	0.0011 J	0.0012 J	0.0543 J	<0.0194	<0.0377	<0.00792	0.001	<0.00005
Benzo(a)pyrene	0.02	0.02	0.0016	<0.00002	<0.00002	<0.00002	<0.0005	<0.0005	<0.04	<0.0194	<0.0377	<0.00792	0.00058 J	<0.00002
bis(2-Chloroethoxy)methane	0.083	0.19	<0.0003	<0.00003	<0.00003	<0.00003	<0.0005	<0.0005	<0.065	<0.0316	<0.0613	<0.0129	<0.0003	<0.00003
bis(2-Ethylhexyl)phthalate (DEHP)	0.6	0.6	0.0023	0.000089 J	<0.000037	<0.000037	0.0019 J	<0.001	<0.185	<0.0898	<0.175	<0.0366	0.00043 J	0.000095 J
Chrysene	91	200	0.0042	<0.000021	<0.000021	<0.000021	0.00099 J	0.0016 J	0.0561 J	<0.0194	<0.0377	<0.00792	0.00091 J	<0.000021
Dibenzofuran	9.8	29	0.088	0.000076 J	<0.00002	<0.00002	0.28	0.38	0.814	0.322	0.392	0.226	0.11	0.081
Di-n-butylphthalate (DBP)	240	730	<0.0002	0.000033 J	0.0002 J	<0.00002	<0.0005	<0.0005	<0.055	<0.0267	<0.0519	<0.0109	<0.0002	<0.00002
Fluoranthene	98	290	0.026	0.000022 J	<0.00001	<0.00001	0.0081	0.016	0.387	0.0301 J	0.0752 J	0.0109 J	0.012	0.0044
Fluorene	98	290	0.07	0.00015	<0.00003	<0.00003	0.095	0.23	0.65	0.208	0.298	0.138	0.081	0.096
Naphthalene	49	150	4.1	0.0021	0.00011	<0.000036	24	27	18.9 J	18.1	10.6	17	1.8	0.39
Nitrobenzene	4.9	15	<0.00024	<0.000024	<0.000024	<0.000024	<0.0005	<0.0005	<0.055	<0.0267	<0.0519	<0.0109	<0.00024	<0.000024
N-Nitrosodiphenylamine	19	42	<0.00025	<0.000025	<0.000025	<0.000025	<0.0005	<0.0005	<0.05	<0.0243	<0.0472	<0.0099	<0.00025	<0.000025
Pentachlorophenol	0.1	0.1	<0.00079	<0.00008	<0.000079	<0.000079	<0.0005	<0.0005	<0.305	<0.148	<0.288	<0.0604	<0.00079	<0.000079
Phenanthrene	73	220	0.12	0.0028	<0.000021	0.000052 J	0.16	0.24	1.39	0.242	0.456	0.127	0.094	0.033
Phenol	730	2200	0.006	<0.000035	<0.000035	<0.000035	0.45	1	1	0.645	1	0.495	<0.00035	<0.000035
Pyrene	73	220	0.014	<0.000019	<0.000019	<0.000019	0.0075	0.011	0.245 J	<0.0267	<0.0519	<0.0109	0.0068	0.003
Metals														
Arsenic	1	1	0.00553	0.00117 J	0.00147 J	0.00129 J							0.0419	0.00179 J

Notes:

1. All values in milligrams per liter (mg/L).
2. Concentrations > RAL and non-detects are highlighted light gray.
3. Concentrations > C/I AL and non-detects are highlighted dark gray
4. TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
5. RAL = Residential Assessment Level, C/I = Commercial/Industrial
6. J = Estimated value, < = not detected at the specified detection limit.

**TABLE 3
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 3 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Class 3 Residential Assessment	Class 3 C/I PCL	MW-57B 05/25/2018	MW-57B 07/10/2019	MW-57B 01/08/2020	MW-57B 07/15/2020	MW-59B 07/15/2010	MW-59B 01/20/2011	MW-59B 07/18/2011	MW-59B 02/06/2012	MW-59B 07/27/2012	MW-59B 01/31/2013	MW-59B 08/01/2013	MW-59B 01/16/2014
Volatile Organic Compounds														
1,2-Dichloroethane	0.5	0.5	<0.0002	<0.0002	<0.002	<0.001	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00014	<0.00014	<0.0002
Benzene	0.5	0.5	0.82	0.84	0.52	0.71	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00008	0.0000981 J	<0.0002
Chlorobenzene	10	10	<0.0003	<0.0003	<0.003	<0.0015	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00012	<0.00012	<0.00018
Ethylbenzene	70	70	0.3	0.39	0.25	0.23	<0.0005	<0.0005	<0.0011	<0.0011	<0.0005	<0.00011	<0.00011	<0.00019
Methylene chloride	0.5	0.5	<0.001	<0.001	<0.01	<0.005	<0.0005	<0.0005	<0.0013	<0.0013	<0.001	<0.00015	<0.00015	<0.00022
Toluene	100	100	0.84	0.93	0.64	0.7	<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00015	<0.00015	<0.00017
Vinyl chloride	0.2	0.2		0.00048 J			<0.0005	<0.0005	<0.001	<0.001	<0.0005	<0.00011	<0.00011	<0.00018
Xylenes (total)	1000	1000	0.84	1.2	0.7	0.68	<0.001	<0.001	<0.0031	<0.0031	<0.0015	<0.00026	<0.00026	<0.00058
Semivolatile Organic Compounds														
1,2-Diphenylhydrazine	0.11	0.26	<0.00021	<0.00021	<0.00021	<0.00021	<0.0001	<0.0001	<0.00005	<0.00005	<0.00005	<0.000104	<0.000105	<0.000104
2,4-Dimethylphenol	49	150	3.7	6.5	2.8	11	<0.00008	<0.00008	<0.00005	0.25	<0.00005	<0.000292	<0.000295	<0.000292
2,4-Dinitrotoluene	0.13	0.3	<0.00058	<0.00058	<0.00058	<0.00058	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.000123	<0.000124	<0.000123
2,6-Dinitrotoluene	0.13	0.3	<0.00042	<0.00042	<0.00042	<0.00042	<0.00007	<0.00007	<0.00006	<0.00006	<0.00006	<0.0000755	<0.0000762	<0.0000755
2-Chloronaphthalene	200	580	<0.00021	<0.00021	<0.00021	<0.00021	<0.0001	<0.0001	<0.00005	<0.00005	<0.00005	<0.0000755	<0.0000762	<0.0000755
2-Methylnaphthalene	9.8	29	0.61	0.93	1.1	0.41	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.000066	<0.0000667	<0.000066
4,6-Dinitro-2-methylphenol	0.24	0.73	<0.0002	<0.0002	<0.0002	<0.0002	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.000783	<0.00079	<0.000783
4-Nitrophenol	4.9	15	<0.00047	<0.00047	<0.00047	<0.00047	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.000528	<0.000533	<0.000528
Acenaphthene	150	440	0.3	0.38	0.55	0.061	<0.00009	<0.00009	<0.00005	0.0017	<0.00005	<0.0000755	<0.0000762	<0.0000755
Acenaphthylene	150	440	0.0063	0.0051	0.0086	0.0027	<0.00007	<0.00007	<0.00005	0.00014 J	<0.00005	<0.0000566	<0.0000571	<0.0000566
Anthracene	730	2200	0.44	0.039	0.19	0.013	<0.00007	<0.00007	<0.00005	0.000054 J	<0.00005	<0.0000472	<0.0000476	<0.0000472
Benzo(a)anthracene	0.91	2	0.03	0.0071	0.04	0.0007 J	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000755	<0.0000762	<0.0000755
Benzo(a)pyrene	0.02	0.02	0.0094	0.0021	0.012	<0.0002	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005	<0.0000755	<0.0000762	<0.0000755
bis(2-Chloroethoxy)methane	0.083	0.19	<0.0003	<0.0003	<0.0003	<0.0003	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.000123	<0.000124	<0.000123
bis(2-Ethylhexyl)phthalate (DEHP)	0.6	0.6	<0.00037	<0.00037	<0.00037	<0.00037	0.002	<0.00021	<0.00031	0.00068	0.00018 J	<0.000349	<0.000352	<0.000349
Chrysene	91	200	0.024	0.0065	0.042	0.00073 J	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000755	<0.0000762	<0.0000755
Dibenzofuran	9.8	29	0.29	0.32	0.49	0.056	<0.00008	<0.00008	<0.00005	<0.00005	<0.00005	<0.0000755	<0.0000762	<0.0000755
Di-n-butylphthalate (DBP)	240	730	<0.0002	<0.0002	<0.0002	<0.0002	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.000104	0.000115 J	0.000105 J
Fluoranthene	98	290	0.19	0.047	0.34	0.0049	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.000066	<0.0000667	<0.000066
Fluorene	98	290	0.27	0.21	0.46	0.034	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.000066	<0.0000667	<0.000066
Naphthalene	49	150	12	17	13	22	0.00014 J	<0.0001	<0.00005	0.00012 J	0.00006 J	<0.000269	<0.000166	<0.000172
Nitrobenzene	4.9	15	<0.00024	<0.00024	<0.00024	<0.00024	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.000104	<0.000105	<0.000104
N-Nitrosodiphenylamine	19	42	<0.00025	<0.00025	<0.00025	<0.00025	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.0000943	<0.0000952	<0.0000943
Pentachlorophenol	0.1	0.1	<0.00079	<0.00079	<0.00079	<0.00079	<0.00008	<0.00008	<0.00005	0.00011 J	<0.00005	<0.000575	<0.000581	<0.000575
Phenanthrene	73	220	0.63	0.29	1.1	0.042	<0.00007	<0.00007	<0.00005	0.00025	<0.00005	<0.0000566	<0.0000571	<0.000112
Phenol	730	2200	0.22	1	0.32	0.71	0.0002	<0.00007	<0.00005	0.00033	<0.00005	<0.0000377	<0.0000381	<0.0000377
Pyrene	73	220	0.13	0.03	0.21	0.0027	<0.00007	<0.00007	<0.00005	0.000062 J	<0.00005	<0.000104	<0.000105	<0.000104
Metals														
Arsenic	1	1	0.00285	0.00404	0.00404	0.00241								

Notes:

1. All values in milligrams per liter (mg/L).
2. Concentrations > RAL and non-detects are highlighted light gray.
3. Concentrations > C/I AL and non-detects are highlighted dark gray
4. TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
5. RAL = Residential Assessment Level, C/I = Commercial/Industrial
6. J = Estimated value, < = not detected at the specified detection limit.

**TABLE 3
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 3 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Class 3 Residential Assessment	Class 3 C/I PCL	MW-59B 07/30/2014	MW-59B 01/29/2018	MW-59B 03/20/2018	MW-59B 05/25/2018	MW-59B 01/23/2019	MW-59B 07/17/2019	MW-59B 01/16/2020	MW-59B 07/21/2020	MW60B 03/17/2020	MW-60B 06/01/2020	MW-60B 07/20/2020	MW61B 03/17/2020
Volatile Organic Compounds														
1,2-Dichloroethane	0.5	0.5	<0.00014	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Benzene	0.5	0.5	<0.00008	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Chlorobenzene	10	10	<0.00012	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Ethylbenzene	70	70	<0.00011	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Methylene chloride	0.5	0.5	<0.00015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Toluene	100	100	<0.00015	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.18	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Vinyl chloride	0.2	0.2	<0.00011	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Xylenes (total)	1000	1000	<0.00026	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Semivolatile Organic Compounds														
1,2-Diphenylhydrazine	0.11	0.26	R	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021
2,4-Dimethylphenol	49	150	R	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	0.00019 J	<0.00004	<0.00004	<0.00004
2,4-Dinitrotoluene	0.13	0.3	R	<0.000058	<0.000059	<0.000059	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058
2,6-Dinitrotoluene	0.13	0.3	R	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042
2-Chloronaphthalene	200	580	R	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021
2-Methylnaphthalene	9.8	29	R	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019	<0.000038	<0.000019	<0.000019	<0.000019	0.000022 J	<0.000019
4,6-Dinitro-2-methylphenol	0.24	0.73	R	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
4-Nitrophenol	4.9	15	R	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047
Acenaphthene	150	440	0.000621U	<0.000027	<0.000027	<0.000027	<0.000027	<0.000027	<0.000051	<0.000027	<0.000027	<0.000027	0.000042 J	<0.000027
Acenaphthylene	150	440	R	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015
Anthracene	730	2200	R	<0.000014	<0.000014	<0.000014	<0.000014	<0.000014	<0.000031	<0.000014	<0.000014	<0.000014	<0.000014	<0.000014
Benzo(a)anthracene	0.91	2	R	<0.000005	<0.0000051	<0.0000051	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005	<0.000005
Benzo(a)pyrene	0.02	0.02	R	<0.000002	<0.000002	<0.000002	0.000033 J	<0.000002	<0.000002	<0.000002	<0.000002	<0.000002	<0.000002	<0.000002
bis(2-Chloroethoxy)methane	0.083	0.19	R	<0.000003	<0.000003	<0.000003	<0.000003	<0.000003	<0.000003	<0.000003	<0.000003	<0.000003	<0.000003	<0.000003
bis(2-Ethylhexyl)phthalate (DEHP)	0.6	0.6	R	0.000058 J	<0.000037	<0.000037	<0.000056	<0.000039	<0.000037	0.00011 J	0.00092	0.000089 J	0.000065 J	0.00015 J
Chrysene	91	200	R	<0.000021	<0.000021	<0.000021	0.000036 J	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021
Dibenzofuran	9.8	29	0.000201U	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00005	<0.00002	<0.00002	<0.00002	0.000023 J	<0.00002
Di-n-butylphthalate (DBP)	240	730	R	<0.00002	<0.00002	<0.00002	<0.00002	0.000055 J	<0.00002	<0.00002	0.000047 J	0.000099 J	0.000021 J	<0.00002
Fluoranthene	98	290	R	<0.00001	<0.00001	<0.00001	0.000051 J	<0.00001	<0.000025	0.000071 J	0.000015 J	<0.00001	<0.00001	<0.00001
Fluorene	98	290	0.000189U	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.000042	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003
Naphthalene	49	150	0.00627U	<0.00002	<0.00002	<0.00002	0.000072 J	<0.000015	<0.000024	0.0002	<0.00002	<0.00002	<0.00012	<0.00002
Nitrobenzene	4.9	15	R	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024
N-Nitrosodiphenylamine	19	42	R	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025
Pentachlorophenol	0.1	0.1	R	<0.000079	<0.000008	<0.000008	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079
Phenanthrene	73	220	R	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000099	0.00012	<0.000021	<0.000021	<0.000021	<0.000021
Phenol	730	2200	R	<0.000035	<0.000035	<0.000035	<0.000035	<0.000035	<0.000035	0.000087 J	<0.000035	<0.000035	<0.000035	<0.000035
Pyrene	73	220	R	<0.000019	<0.000019	<0.000019	0.000053 J	<0.000019	<0.000021	0.000051 J	<0.000019	<0.000019	<0.000019	<0.000019
Metals														
Arsenic	1	1		<0.0004	<0.0004	<0.0004	0.000983 J	0.000542 J	0.000486 J	<0.0004	0.00234	0.00222	0.00932	0.00461

Notes:

1. All values in milligrams per liter (mg/L).
2. Concentrations > RAL and non-detects are highlighted light gray.
3. Concentrations > C/I AL and non-detects are highlighted dark gray
4. TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
5. RAL = Residential Assessment Level, C/I = Commercial/Industrial
6. J = Estimated value, < = not detected at the specified detection limit.

**TABLE 3
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 3 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Class 3 Residential Assessment	Class 3 C/I PCL	MW-61B 06/01/2020	MW-61B 07/20/2020	MW-63B 01/13/2010	MW-63B 06/30/2010	MW-63B 01/27/2011	MW-63B 07/19/2011	MW-63B 07/19/2011 Duplicate	MW-63B 02/09/2012	MW-63B 02/09/2012 Duplicate	MW-63B 07/18/2012	MW-63B 07/18/2012 Duplicate	MW-63B 02/07/2013
Volatile Organic Compounds														
1,2-Dichloroethane	0.5	0.5	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.0005	<0.00014
Benzene	0.5	0.5	<0.0002	<0.0002	0.21	0.015	0.019	0.019	0.024	<0.001	<0.001	0.0015 J	0.0016 J	0.00952
Chlorobenzene	10	10	<0.0003	<0.0003	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001	<0.001	<0.0005	<0.0005	<0.00012
Ethylbenzene	70	70	<0.0003	<0.0003	0.2	0.072	0.071	0.04	0.045	0.0012 J	0.0012 J	0.0014 J	0.0014 J	0.0165
Methylene chloride	0.5	0.5	<0.001	<0.001	<0.0005	<0.0005	<0.0005	<0.0013	<0.0013	<0.0013	<0.0013	<0.001	<0.001	<0.00015
Toluene	100	100	<0.0002	<0.0002	0.015	0.0016 J	0.0018 J	0.0017 J	0.0019 J	<0.001	<0.001	0.0038 J	0.0038 J	0.00241
Vinyl chloride	0.2	0.2												
Xylenes (total)	1000	1000	<0.0003	<0.0003	0.082	0.02	0.016	0.013 J	0.014 J	<0.0031	<0.0031	<0.0015	<0.0015	0.00629
Semivolatile Organic Compounds														
1,2-Diphenylhydrazine	0.11	0.26	<0.000021	<0.000021	<0.0001	<0.0001	<0.0001	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00524
2,4-Dimethylphenol	49	150	<0.00004	<0.00004	<0.00008	<0.00008	<0.00008	0.000056 J	<0.00005	0.00005 J	0.00044 J	<0.00005	<0.00005	<0.0148
2,4-Dinitrotoluene	0.13	0.3	<0.000058	<0.000058	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00619
2,6-Dinitrotoluene	0.13	0.3	<0.000042	<0.000042	<0.00007	<0.00007	<0.00007	<0.00006	<0.00006	<0.00006	<0.00006	<0.00006	<0.00006	<0.00381
2-Chloronaphthalene	200	580	<0.000021	<0.000021	<0.0001	<0.0001	<0.0001	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00381
2-Methylnaphthalene	9.8	29	<0.000019	<0.000019	0.11	0.031	0.025	0.014	0.013	0.0029	0.0029	0.0034	0.0032	0.0104 J
4,6-Dinitro-2-methylphenol	0.24	0.73	<0.00002	<0.00002	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.0395
4-Nitrophenol	4.9	15	<0.000047	<0.000047	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.0267
Acenaphthene	150	440	<0.000027	<0.000027	0.028	0.013	0.017	0.0053	0.0066	0.002	0.0019	0.0023	0.0022	0.00952 J
Acenaphthylene	150	440	<0.000015	<0.000015	0.00051	0.00018 J	<0.00007	0.000066 J	0.00011 J	0.00012 J	0.00016 J	<0.00005	<0.00005	<0.00286
Anthracene	730	2200	0.000014 J	<0.000014	0.00068	0.00039	0.0011	0.00011 J	0.0002 J	0.00015 J	0.00015 J	<0.00013	<0.00011	0.00238 J
Benzo(a)anthracene	0.91	2	<0.00005	<0.00005	<0.00007	<0.00007	0.00087	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00381
Benzo(a)pyrene	0.02	0.02	<0.00002	<0.00002	<0.00008	<0.00008	0.00027	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00381
bis(2-Chloroethoxy)methane	0.083	0.19	<0.00003	<0.00003	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00619
bis(2-Ethylhexyl)phthalate (DEHP)	0.6	0.6	0.000062 J	<0.000037	<0.00036	<0.00036	0.0006	<0.00051	<0.00029	0.00096	0.00073	0.00096 J	0.00051 J	<0.0176
Chrysene	91	200	<0.000021	<0.000021	<0.00007	<0.00007	0.00079	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00381
Dibenzofuran	9.8	29	<0.00002	<0.00002	0.022	0.008	0.013	0.0041	0.0049	0.0024	0.0019	0.0026	0.0023	0.00576 J
Di-n-butylphthalate (DBP)	240	730	0.00012 J	0.000024 J	0.00019 J	<0.00007	<0.00007	<0.00005	<0.00005	0.00014 J	0.00005 J	<0.00005	<0.00005	0.00524 J
Fluoranthene	98	290	<0.00001	0.000024 J	<0.00007	<0.00007	0.0042	<0.00005	<0.00005	0.000091 J	0.00005 J	<0.00013	<0.00013	<0.00333
Fluorene	98	290	<0.00003	<0.00003	0.0078	0.0041	0.0054	0.0019	0.0024	0.00093	0.00078	0.0011	0.001	<0.00333
Naphthalene	49	150	<0.00002	<0.000032	3.1	0.67	0.76	0.36 J	0.49 J	0.027	0.026	0.044	0.04	0.251
Nitrobenzene	4.9	15	<0.000024	<0.000024	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00524
N-Nitrosodiphenylamine	19	42	<0.000025	<0.000025	<0.00009	<0.00009	<0.00009	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00476
Pentachlorophenol	0.1	0.1	<0.000079	<0.000079	<0.00008	<0.00008	<0.00008	<0.00005	<0.00005	0.00018 J	0.00005 J	<0.00005	<0.00005	<0.029
Phenanthrene	73	220	<0.000021	<0.000021	0.0034	0.00076	0.0044	0.00075	0.00098	0.00072 J	0.0005 J	<0.001	<0.001	0.00286 J
Phenol	730	2200	<0.000035	<0.000035	<0.00007	<0.00007	<0.00007	<0.00005	<0.00005	0.00057 J	0.00095 J	<0.00005	<0.00005	<0.0019
Pyrene	73	220	<0.000019	<0.000019	<0.00007	<0.00007	0.0029	<0.00005	<0.00005	0.000063 J	<0.00005	<0.00005	<0.00005	<0.00524
Metals														
Arsenic	1	1	0.0104	0.00691										

Notes:

1. All values in milligrams per liter (mg/L).
2. Concentrations > RAL and non-detects are highlighted light gray.
3. Concentrations > C/I AL and non-detects are highlighted dark gray
4. TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
5. RAL = Residential Assessment Level, C/I = Commercial/Industrial
6. J = Estimated value, < = not detected at the specified detection limit.

**TABLE 3
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 3 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Class 3 Residential Assessment	Class 3 C/I PCL	MW-63B 02/07/2013	MW-63B 08/07/2013	MW-63B 01/22/2014	MW-63B 07/24/2014	MW-63B 01/28/2018	MW-63B 03/26/2018	MW-63B 06/06/2018	MW-63B 01/14/2019	MW-63B 07/16/2019	MW-63B 01/16/2020	MW-63B 07/23/2020	MW-67B 07/15/2010
Volatile Organic Compounds			Duplicate											
1,2-Dichloroethane	0.5	0.5	<0.00014	<0.00014	<0.0002	<0.00014	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0005
Benzene	0.5	0.5	0.00919	0.0869	0.0762	0.108	0.0033	0.0026	0.048	0.35	0.11	0.018	0.1	<0.0005
Chlorobenzene	10	10	<0.00012	<0.00012	<0.00018	0.000216 J	<0.0003	<0.0003	<0.0003	0.00073 J	<0.0003	<0.0003	<0.0003	<0.0005
Ethylbenzene	70	70	0.0163	0.0341	0.0418	0.151	0.012	0.0059	0.048	0.48	0.14	0.051	0.14	0.0015 J
Methylene chloride	0.5	0.5	<0.00015	<0.00015	<0.00022	<0.00015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0005
Toluene	100	100	0.00231	<0.000434	0.000399 J	0.00257	<0.0002	<0.0002	0.00093 J	0.0071	0.00071 J	<0.0002	0.0073	<0.0005
Vinyl chloride	0.2	0.2				<0.00011								
Xylenes (total)	1000	1000	0.00635	0.0113	0.0156	0.0535	0.0048	0.0016	0.011	0.11	0.041	0.013	0.04	0.0012 J
Semivolatile Organic Compounds														
1,2-Diphenylhydrazine	0.11	0.26	<0.000105	<0.000104	<0.00109	<0.0011	<0.000021	<0.000021	<0.00021	<0.00021	<0.000021	<0.000021	<0.000021	<0.0001
2,4-Dimethylphenol	49	150	<0.000295	<0.000292	<0.00307	<0.0031	<0.00004	<0.00004	<0.0004	<0.0004	<0.00004	<0.00004	<0.00004	<0.00008
2,4-Dinitrotoluene	0.13	0.3	<0.000124	<0.000123	<0.00129	<0.0013	<0.000058	<0.000058	<0.00058	<0.00059	<0.000058	<0.000058	<0.000058	<0.00009
2,6-Dinitrotoluene	0.13	0.3	<0.0000762	<0.0000755	<0.000792	<0.0008	<0.000042	<0.000042	<0.00042	<0.00042	<0.000042	<0.000042	<0.000042	<0.00007
2-Chloronaphthalene	200	580	<0.0000762	<0.0000755	<0.000792	<0.0008	<0.000021	<0.000021	<0.00021	<0.00021	<0.000021	<0.000021	<0.000021	<0.0001
2-Methylnaphthalene	9.8	29	0.00865	0.00242	0.00756	0.0302	0.000059 J	<0.000019	0.0016	0.042	<0.000056	0.006 J	<0.00007	<0.00007
4,6-Dinitro-2-methylphenol	0.24	0.73	<0.00079	<0.000783	<0.00822	<0.0083	<0.00002	<0.00002	<0.0002	<0.0002	<0.00002	<0.00002	<0.00002	<0.00008
4-Nitrophenol	4.9	15	<0.000533	<0.000528	<0.00554	<0.0056	<0.000047	<0.000047	<0.00047	<0.00047	<0.000047	<0.000047	<0.000047	<0.00007
Acenaphthene	150	440	0.0065	0.000833	0.00274 J	0.00754	0.00066	<0.000027	0.0027	<0.00027	0.012	<0.000059	0.0028 J	0.00011 J
Acenaphthylene	150	440	<0.0000571	<0.0000566	<0.000594	<0.0006	<0.000015	<0.000015	<0.00015	0.0029	0.00016	0.000032 J	<0.000015	<0.00007
Anthracene	730	2200	0.000124 J	<0.0000472	<0.000495	<0.0005	0.00011	0.00022	<0.00014	0.00017 J	0.00034	<0.000081	0.000072 J	<0.00007
Benzo(a)anthracene	0.91	2	<0.0000762	<0.0000755	<0.000792	<0.0008	<0.00005	<0.00005	<0.0005	<0.00051	<0.00005	<0.00005	<0.00005	<0.00007
Benzo(a)pyrene	0.02	0.02	<0.0000762	<0.0000755	<0.000792	<0.0008	<0.00002	<0.00002	<0.0002	<0.0002	<0.00002	<0.00002	<0.00002	<0.00008
bis(2-Chloroethoxy)methane	0.083	0.19	<0.000124	<0.000123	<0.00129	<0.0013	<0.00003	<0.00003	<0.0003	<0.0003	<0.00003	<0.00003	<0.00003	<0.00009
bis(2-Ethylhexyl)phthalate (DEHP)	0.6	0.6	<0.000376	0.000381 J	<0.00366	<0.0037	<0.000037	<0.000037	<0.00037	<0.00037	<0.000037	0.000065 J	<0.000037	0.0016
Chrysene	91	200	<0.0000762	<0.0000755	<0.000792	<0.0008	<0.000021	<0.000021	<0.00021	<0.00021	<0.000021	<0.000021	<0.000021	<0.00007
Dibenzofuran	9.8	29	0.00514	0.00104	0.002 J	0.00663	0.00065	<0.00002	0.002	0.0087	0.011	<0.000063	0.0021 J	<0.00008
Di-n-butylphthalate (DBP)	240	730	0.000127 J	<0.000104	<0.00109	<0.0011	<0.00002	<0.00002	<0.0002	<0.0002	<0.00002	0.000034 J	<0.00002	<0.00007
Fluoranthene	98	290	<0.0000667	<0.000066	<0.000693	<0.0007	0.0001	<0.00001	<0.0001	<0.0001	<0.00001	<0.000023	<0.00001	<0.00007
Fluorene	98	290	0.00208	0.000349 J	0.00102 J	0.00248 J	0.00033	<0.00003	0.00099 J	0.0029	0.0037	<0.00012	0.00091 J	<0.00007
Naphthalene	49	150	0.162 J	0.146	0.374	1.69	<0.00066	<0.00002	0.29	2.1	1.5	<0.00035	0.29 J	<0.0001
Nitrobenzene	4.9	15	<0.000105	<0.000104	<0.00109	<0.0011	<0.000024	<0.000024	<0.00024	<0.00024	<0.000024	<0.000024	<0.000024	<0.00009
N-Nitrosodiphenylamine	19	42	<0.0000952	<0.0000943	<0.00099	<0.001	<0.000025	<0.000025	<0.00025	<0.00025	<0.000025	<0.000025	<0.000025	<0.00009
Pentachlorophenol	0.1	0.1	<0.000581	<0.000575	<0.00604	<0.0061	<0.000079	<0.000079	<0.00079	<0.00079	<0.000079	<0.000079	<0.000079	<0.00008
Phenanthrene	73	220	0.000776 J	<0.0000566	0.00133 J	<0.0006	<0.000075	<0.000021	<0.00021	0.00094 J	0.0013	<0.000072	0.00036 J	<0.00007
Phenol	730	2200	<0.0000381	<0.0000377	0.000889 J	<0.0004	<0.000035	<0.000035	<0.00035	<0.00035	<0.000035	<0.000035	<0.000035	<0.00007
Pyrene	73	220	<0.000105	<0.000104	<0.00109	<0.0011	<0.000019	<0.000019	<0.00019	<0.00019	<0.000019	<0.000019	<0.000019	<0.00007
Metals														
Arsenic	1	1					0.00114 J	0.00211	0.000818 J	0.00338	0.00156 J	0.00204	<0.0004	

Notes:

- All values in milligrams per liter (mg/L).
- Concentrations > RAL and non-detects are highlighted light gray.
- Concentrations > C/I AL and non-detects are highlighted dark gray
- TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
- RAL = Residential Assessment Level, C/I = Commercial/Industrial
- J = Estimated value, < = not detected at the specified detection limit.

**TABLE 3
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 3 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Class 3 Residential Assessment	Class 3 C/I PCL	MW-67B 01/27/2011	MW-67B 07/20/2011	MW-67B 02/09/2012	MW-67B 07/17/2012	MW-67B 02/12/2013	MW-67B 08/08/2013	MW-67B 01/23/2014	MW-67B 07/24/2014	MW-67B 01/31/2018	MW-67B 03/27/2018	MW-67B 06/06/2018	MW-67B 01/24/2019
Volatile Organic Compounds														
1,2-Dichloroethane	0.5	0.5	<0.0005	<0.001	<0.001	<0.0005	<0.00014	<0.00014	<0.0002	<0.00014	<0.0002	<0.0002	<0.0002	<0.0002
Benzene	0.5	0.5	<0.0005	<0.001	<0.001	<0.0005	<0.00008	<0.00008	<0.0002	<0.00008	<0.0002	<0.0002	<0.0002	<0.0002
Chlorobenzene	10	10	<0.0005	<0.001	<0.001	<0.0005	<0.00012	<0.00012	<0.00018	<0.00012	<0.0003	<0.0003	<0.0003	<0.0003
Ethylbenzene	70	70	<0.0005	<0.0011	<0.0011	<0.0005	<0.00011	<0.00011	<0.00019	<0.00011	<0.0003	<0.0003	<0.0003	<0.0003
Methylene chloride	0.5	0.5	<0.0005	<0.0013	<0.0013	<0.001	<0.00015	<0.00015	<0.00022	<0.00015	<0.001	<0.001	<0.001	<0.001
Toluene	100	100	<0.0005	<0.001	<0.001	<0.0005	<0.00015	<0.00015	<0.00017	<0.00015	<0.0002	<0.0002	<0.0002	<0.0002
Vinyl chloride	0.2	0.2									<0.00011	<0.00011	<0.00011	<0.00011
Xylenes (total)	1000	1000	<0.001	<0.0031	<0.0031	<0.0015	<0.00026	<0.00026	<0.00058	<0.00026	<0.0003	<0.0003	<0.0003	<0.0003
Semivolatile Organic Compounds														
1,2-Diphenylhydrazine	0.11	0.26	<0.0001	<0.00005	<0.00005	<0.00005	<0.000105	<0.000104	<0.000106	<0.000106	<0.000021	<0.000021	<0.000021	<0.000021
2,4-Dimethylphenol	49	150	<0.00008	<0.00005	0.0005 J	<0.00005	<0.000295	<0.000292	<0.000298	<0.000298	<0.00004	<0.00004	<0.00004	<0.00004
2,4-Dinitrotoluene	0.13	0.3	<0.00009	<0.00005	<0.00005	<0.00005	<0.000124	<0.000123	<0.000125	<0.000125	<0.000058	<0.000058	0.000058 J	<0.000058
2,6-Dinitrotoluene	0.13	0.3	<0.00007	<0.00006	<0.00006	0.0022 J	<0.0000762	<0.0000755	<0.0000769	<0.0000769	<0.000042	<0.000042	<0.000042	<0.000042
2-Chloronaphthalene	200	580	<0.0001	<0.00005	<0.00005	<0.00005	<0.0000762	<0.0000755	<0.0000769	<0.0000769	<0.000021	<0.000021	0.000021 J	<0.000021
2-Methylnaphthalene	9.8	29	0.00007 J	<0.00005	0.00023 J	0.00062 J	<0.0000667	<0.000066	<0.0000673	<0.0000673	<0.000031	<0.000019	0.000061 J	<0.000019
4,6-Dinitro-2-methylphenol	0.24	0.73	<0.00008	<0.00008	<0.00008	<0.00008	R	<0.000783	<0.000798	<0.000798	<0.00002	<0.00002	<0.00002	<0.00002
4-Nitrophenol	4.9	15	<0.00007	<0.00005	<0.00005	<0.00005	<0.000533	<0.000528	<0.000538	<0.000538	<0.000047	<0.000047	0.000047 J	<0.000047
Acenaphthene	150	440	<0.00009	<0.00005	0.00012 J	<0.00005	<0.0000762	<0.0000755	<0.0000769	<0.0000769	<0.000027	<0.000027	0.000027 J	<0.000027
Acenaphthylene	150	440	0.00007 J	<0.00005	<0.00005	<0.00005	<0.0000571	<0.0000566	<0.0000577	<0.0000577	<0.000015	<0.000015	0.000015 J	<0.000015
Anthracene	730	2200	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000476	<0.0000472	<0.0000424	<0.0000481	<0.000014	<0.000014	<0.000014	<0.000014
Benzo(a)anthracene	0.91	2	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000762	<0.0000755	<0.0000769	<0.0000769	<0.00005	<0.00005	<0.00005	<0.00005
Benzo(a)pyrene	0.02	0.02	<0.00008	<0.00005	<0.00005	<0.00005	<0.0000762	<0.0000755	<0.0000769	<0.0000769	<0.00002	<0.00002	<0.00002	<0.00002
bis(2-Chloroethoxy)methane	0.083	0.19	0.00009 J	<0.00005	<0.00005	<0.00005	<0.000124	<0.000123	<0.000125	<0.000125	<0.00003	<0.00003	0.00003 J	<0.00003
bis(2-Ethylhexyl)phthalate (DEHP)	0.6	0.6	0.0022 J	<0.00094	0.00042	0.00012 J	<0.000352	<0.000349	<0.000356	0.00184	<0.000056	<0.000037	<0.000056	0.000051 J
Chrysene	91	200	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000762	<0.0000755	<0.0000769	<0.0000769	<0.000021	<0.000021	<0.000021	<0.000021
Dibenzofuran	9.8	29	0.00008 J	<0.00005	0.00013 J	<0.00005	<0.0000762	<0.0000755	<0.0000769	<0.0000769	<0.00002	<0.00002	0.000069 J	<0.00002
Di-n-butylphthalate (DBP)	240	730	0.000083 J	<0.00005	<0.00005	<0.00005	<0.000105	0.000119 J	<0.000834	<0.000106	<0.00002	<0.00002	<0.00002	<0.00002
Fluoranthene	98	290	<0.00007	<0.00005	<0.00005	<0.00005	<0.0000667	<0.000066	<0.0000673	<0.0000673	<0.00001	<0.00001	<0.00001	<0.00001
Fluorene	98	290	<0.00007	<0.00005	0.0001 J	<0.00005	<0.0000667	<0.000066	<0.0000673	<0.0000673	<0.00003	<0.00003	0.00003 J	<0.00003
Naphthalene	49	150	0.00062	<0.00005	0.0019	0.00049	<0.0000762	0.000433 J	<0.000711	0.000275 J	<0.00045	0.00013	0.00047 J	<0.00002
Nitrobenzene	4.9	15	0.00009 J	<0.00005	<0.00005	<0.00005	<0.000105	<0.000104	<0.000106	<0.000106	<0.000024	<0.000024	0.000024 J	<0.000024
N-Nitrosodiphenylamine	19	42	<0.00009	<0.00005	<0.00005	<0.00005	<0.0000952	<0.0000943	<0.0000962	<0.0000962	<0.000025	<0.000025	<0.000025	<0.000025
Pentachlorophenol	0.1	0.1	<0.00008	<0.00005	<0.00005	<0.00005	0.000581 J	<0.000575	<0.000587	<0.000587	<0.000079	<0.000079	<0.000079	<0.000079
Phenanthrene	73	220	<0.00007	<0.00005	0.00011 J	<0.00005	<0.0000571	<0.0000566	<0.0000377	<0.0000577	<0.000021	<0.000021	<0.000021	<0.000021
Phenol	730	2200	<0.00007	<0.00005	0.000089 J	<0.00005	<0.0000381	<0.0000377	<0.0000385	<0.0000385	0.00018 J	<0.000035	<0.000035	<0.000035
Pyrene	73	220	<0.00007	<0.00005	<0.00005	<0.00005	<0.000105	<0.000104	<0.000106	<0.000106	<0.000019	<0.000019	<0.000019	<0.000019
Metals														
Arsenic	1	1									0.000751 J	0.000565 J	0.000416 J	<0.0004

Notes:

- All values in milligrams per liter (mg/L).
- Concentrations > RAL and non-detects are highlighted light gray.
- Concentrations > C/I AL and non-detects are highlighted dark gray
- TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
- RAL = Residential Assessment Level, C/I = Commercial/Industrial
- J = Estimated value, < = not detected at the specified detection limit.

**TABLE 3
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 3 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Class 3 Residential Assessment	Class 3 C/I PCL	MW-67B 07/31/2019	MW-67B 01/15/2020	MW-67B 07/22/2020	MW-70B 07/17/2012 DNAPL	MW-70B 02/07/2013 DNAPL	MW-70B 01/22/2014 DNAPL	MW-70B 07/28/2014 DNAPL	MW-70B 01/20/2020 DNAPL	MW-70B 07/23/2020	MW-71B 02/08/2012	MW-71B 07/18/2012	MW-71B 02/07/2013
Volatile Organic Compounds														
1,2-Dichloroethane	0.5	0.5	<0.0002	<0.0002	<0.0002	<0.0025	<0.007	<0.0002	<0.0014	<0.01	<0.002	<0.001	<0.0005	<0.00014
Benzene	0.5	0.5	<0.0002	<0.0002	<0.0002	0.21	2.01	2.39	2.55	1.9	1.5	0.012	0.0014 J	0.0124
Chlorobenzene	10	10	<0.0003	<0.0003	<0.0003	<0.0025	0.0317 J	0.000715	<0.0012	<0.015	<0.003	<0.001	<0.0005	<0.00012
Ethylbenzene	70	70	<0.0003	<0.0003	<0.0003	0.058	0.524	0.621	0.742	0.57	0.75	0.0045 J	0.0075	0.00541
Methylene chloride	0.5	0.5	<0.001	<0.001	<0.001	<0.005	<0.0075	<0.00022	<0.0015	<0.05	<0.01	<0.0013	<0.001	<0.00015
Toluene	100	100	<0.0002	<0.0002	<0.00036	0.22	1.65	2.31	2.76	2.1	2.3	0.0077	0.0078	0.0104
Vinyl chloride	0.2	0.2	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.01	<0.0002	<0.0002	<0.0002	<0.0002
Xylenes (total)	1000	1000	<0.0003	<0.0003	<0.0003	0.19	1.51	1.68	2.11	1.5	2.1	0.016	0.033	0.0143
Semivolatile Organic Compounds														
1,2-Diphenylhydrazine	0.11	0.26	<0.000021	<0.000021	<0.000021	<0.0005	<0.075	<0.0157	<0.0107	<0.00042	<0.0021	<0.00005	<0.00005	<0.000105
2,4-Dimethylphenol	49	150	<0.00004	<0.00004	<0.00004	2.6	<2.11	72	50.8	49	16 J	0.0034	<0.00005	<0.000295
2,4-Dinitrotoluene	0.13	0.3	<0.000058	<0.000058	<0.000058	<0.0005	<0.0886	<0.0186	<0.0126	<0.0012	<0.0058	<0.00005	<0.00005	<0.000124
2,6-Dinitrotoluene	0.13	0.3	<0.000042	<0.000042	<0.000042	<0.0006	<0.0545	<0.0114	<0.00777	<0.00084	<0.0042	<0.00006	<0.00006	<0.0000762
2-Chloronaphthalene	200	580	<0.000021	<0.000021	<0.000021	<0.0005	<0.0545	<0.0114	<0.00777	<0.00042	<0.0021	<0.00005	<0.00005	<0.0000762
2-Methylnaphthalene	9.8	29	<0.000019	<0.000019	0.00012	0.94	1.21	1.4	1.31	10	2 J	0.0076	<0.0004	0.000377 J
4,6-Dinitro-2-methylphenol	0.24	0.73	<0.00002	<0.00002	<0.00002	<0.0008	<0.566	<0.119	<0.0806	<0.0004	<0.002	<0.00008	<0.00008	<0.00079
4-Nitrophenol	4.9	15	<0.000047	<0.000047	<0.000047	<0.0005	<0.382	<0.08	<0.0544	<0.00094	<0.0047	<0.00005	<0.00005	<0.000533
Acenaphthene	150	440	<0.000027	<0.000027	0.00005 J	0.91	0.515	0.454	0.374	7.1	0.58 J	0.0039	<0.00017	0.0044
Acenaphthylene	150	440	<0.000015	<0.000015	<0.000015	0.011	0.0424 J	<0.00857	0.0114 J	0.079	0.017 J	0.00019 J	<0.00005	0.000135 J
Anthracene	730	2200	<0.000014	<0.000014	<0.000014	0.096	0.051 J	0.0423 J	0.0387 J	5.8	0.27 J	0.00056	<0.00013	0.000452 J
Benzo(a)anthracene	0.91	2	<0.00005	<0.00005	<0.00005	0.016	<0.0545	<0.0114	<0.00777	0.52	0.054 J	0.000081 J	0.00011 J	<0.0000762
Benzo(a)pyrene	0.02	0.02	<0.00002	<0.00002	<0.00002	0.0041	<0.0545	<0.0114	<0.00777	0.13	0.019 J	0.00012 J	0.00014 J	<0.0000762
bis(2-Chloroethoxy)methane	0.083	0.19	<0.00003	<0.00003	<0.00003	<0.0005	<0.0886	<0.0186	<0.0126	<0.0006	<0.003	<0.00005	<0.00005	<0.000124
bis(2-Ethylhexyl)phthalate (DEHP)	0.6	0.6	<0.000037	0.00009 J	0.0003	0.0068	<0.252	<0.0529	<0.0359	0.0039 J	<0.0037	<0.0013	0.00012 J	<0.000352
Chrysene	91	200	<0.000021	<0.000021	<0.000021	0.013	<0.0545	<0.0114	<0.00777	0.63	0.044 J	0.000089 J	0.00015 J	<0.0000762
Dibenzofuran	9.8	29	<0.00002	<0.00002	<0.00002	0.69	0.345	0.355	0.278	6.2	0.57 J	0.0031	<0.00016	0.00244
Di-n-butylphthalate (DBP)	240	730	<0.00002	<0.00002	0.000054 J	<0.0005	<0.075	<0.0157	<0.0107	<0.0004	<0.002	<0.00005	<0.00005	<0.000105
Fluoranthene	98	290	<0.00001	<0.00001	<0.00001	0.28	<0.0477	0.0105 J	0.013 J	4.7	0.39 J	0.00053	<0.00026	0.000387 J
Fluorene	98	290	<0.00003	<0.00003	<0.00003	0.66	0.211 J	0.217	0.186	6.7	0.52 J	0.002	<0.00023	0.00168
Naphthalene	49	150	0.000079 J	<0.00002	0.00064	5.3	17.3 J	30.1	18.1	71	15 J	0.051	<0.0019	0.0000937 J
Nitrobenzene	4.9	15	<0.000024	<0.000024	<0.000024	<0.0005	<0.075	<0.0157	<0.0107	<0.00048	<0.0024	<0.00005	<0.00005	<0.000105
N-Nitrosodiphenylamine	19	42	<0.000025	<0.000025	<0.000025	<0.0005	<0.0682	<0.0143	<0.00971	<0.0005	<0.0025	<0.00005	<0.00005	<0.0000952
Pentachlorophenol	0.1	0.1	<0.000079	<0.000079	<0.000079	<0.0005	<0.416	<0.0871	<0.0592	<0.0016	<0.0079	0.00022	<0.00005	<0.000581
Phenanthrene	73	220	<0.000021	<0.000021	0.000053 J	0.93	0.227 J	0.175	0.162	14	2.3 J	0.0025	<0.00034	0.00127
Phenol	730	2200	<0.000035	<0.000035	<0.000035	0.077	2.87	3.86	1.69	3.4	1.7 J	0.00037	<0.00005	<0.0000381
Pyrene	73	220	<0.000019	<0.000019	<0.000019	0.094	<0.075	<0.0157	<0.0107	3.2	0.24 J	0.00057	<0.00026	0.000253 J
Metals														
Arsenic	1	1	0.000494 J	0.000467 J	<0.0004					0.0012 J	0.00168 J			

Notes:

- All values in milligrams per liter (mg/L).
- Concentrations > RAL and non-detects are highlighted light gray.
- Concentrations > C/I AL and non-detects are highlighted dark gray
- TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
- RAL = Residential Assessment Level, C/I = Commercial/Industrial
- J = Estimated value, < = not detected at the specified detection limit.

**TABLE 3
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 3 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Class 3 Residential Assessment	Class 3 C/I PCL	MW-71B 08/07/2013	MW-71B 01/24/2014	MW-71B 07/28/2014	MW-71B 01/25/2018	MW-71B 03/26/2018	MW-71B 06/06/2018	MW-71B 01/15/2019	MW-71B 07/17/2019	MW-71B 01/15/2020	MW-71B 07/23/2020	MW-72B 07/12/2012	MW-72B 02/01/2013
Volatile Organic Compounds														
1,2-Dichloroethane	0.5	0.5	<0.00014	<0.0002	<0.00014	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Benzene	0.5	0.5	0.103	0.039	0.00155	<0.0002	0.0042	0.027	0.0024	0.13	0.0021	0.082	1.4	1.45
Chlorobenzene	10	10	<0.00012	<0.00018	<0.00012	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0005	<0.0006
Ethylbenzene	70	70	0.0354	0.00793	<0.00011	<0.0003	0.00065 J	0.0055	0.00093 J	0.031	0.0013	0.017	0.31	0.321
Methylene chloride	0.5	0.5	<0.00015	<0.00022	<0.00015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.01	<0.0075
Toluene	100	100	0.0355	0.00918	0.00423	<0.0002	0.00094 J	0.0033	<0.0002	0.023	<0.0002	0.0024	1.1	1.18
Vinyl chloride	0.2	0.2	<0.00011											
Xylenes (total)	1000	1000	0.0615	0.0202	0.0126	<0.0003	0.0044	0.013	0.00084 J	0.054	0.003	0.0087	0.88	0.96
Semivolatile Organic Compounds														
1,2-Diphenylhydrazine	0.11	0.26	<0.00519	<0.000106	<0.000107	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.0005	<0.0524
2,4-Dimethylphenol	49	150	<0.0146	0.0225	<0.000301	<0.000041	<0.000041	0.00044	<0.00004	<0.00004	<0.00004	<0.00004	20	98.1
2,4-Dinitrotoluene	0.13	0.3	<0.00613	<0.000125	<0.000126	<0.000059	<0.000059	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058	<0.0005	<0.0619
2,6-Dinitrotoluene	0.13	0.3	<0.00377	<0.0000769	<0.0000777	<0.000043	<0.000043	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042	<0.0006	<0.0381
2-Chloronaphthalene	200	580	<0.00377	<0.0000769	<0.0000777	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021	<0.0005	<0.0381
2-Methylnaphthalene	9.8	29	0.114	0.0476	<0.000068	<0.000019	0.0017	0.00031	<0.000019	0.024	0.006	0.0026 J	0.74	1.39
4,6-Dinitro-2-methylphenol	0.24	0.73	<0.0392	<0.000798	<0.000806	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.0008	<0.395
4-Nitrophenol	4.9	15	<0.0264	<0.000538	<0.000544	<0.000048	<0.000048	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047	<0.0005	<0.267
Acenaphthene	150	440	0.0346	0.0212	0.000785	<0.000028	0.0043	0.0023	<0.000027	0.016	0.0053	0.0019 J	0.23	0.584
Acenaphthylene	150	440	<0.00283	0.00122	<0.0000583	<0.000015	0.00066 J	0.00011	<0.000015	0.00033	0.00015	<0.000015	0.0073	<0.0286
Anthracene	730	2200	0.00383 J	0.00198	<0.0000485	0.000064 J	0.0022	0.00041	<0.000014	0.0066	0.0039	0.00054 J	0.017	0.0646 J
Benzo(a)anthracene	0.91	2	<0.00377	<0.0000769	<0.0000777	0.00015	0.00067	0.00013	<0.00005	0.0026	0.0011	0.00041 J	<0.0005	<0.0381
Benzo(a)pyrene	0.02	0.02	<0.00377	<0.0000769	<0.0000777	0.0002	0.00029	0.00018	0.000021 J	0.00083	0.00052	0.00026 J	<0.0005	<0.0381
bis(2-Chloroethoxy)methane	0.083	0.19	<0.00613	<0.000125	<0.000126	<0.000031	<0.000031	<0.00003	<0.00003	<0.00003	<0.00003	<0.00003	<0.0005	<0.0619
bis(2-Ethylhexyl)phthalate (DEHP)	0.6	0.6	<0.0175	<0.000356	<0.000359	0.00018 J	0.000081 J	<0.00056	<0.000037	<0.00014	0.00063	<0.000037	<0.001	<0.176
Chrysene	91	200	<0.00377	<0.0000769	<0.0000777	0.00023	0.00077	0.00025	<0.000021	0.0024	0.0011	0.00043 J	<0.0005	<0.0381
Dibenzofuran	9.8	29	0.0292	0.0175	<0.0000777	<0.00002	0.004	0.0019	<0.00002	0.016	0.0049	0.0015 J	0.18	0.355
Di-n-butylphthalate (DBP)	240	730	<0.00519	<0.00085	<0.000107	<0.00002	<0.00002	<0.00002	0.000022 J	<0.00002	0.00098	<0.00002	<0.0005	<0.0524
Fluoranthene	98	290	<0.0033	0.000712	0.000149 J	0.00033	0.0045	0.0005	0.000039 J	0.017	0.0057	0.0015 J	0.0034	<0.0333
Fluorene	98	290	0.0127 J	0.0104	<0.000068	<0.000031	0.0032	0.0013	<0.00003	0.0093	0.0038	0.0011 J	0.11	0.253
Naphthalene	49	150	2.07	0.504	<0.000471	<0.00002	0.00048	0.00011	<0.00002	0.44	0.0064	0.23 J	16	88.5 J
Nitrobenzene	4.9	15	<0.00519	<0.000106	<0.000107	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.0005	<0.0524
N-Nitrosodiphenylamine	19	42	<0.00472	<0.0000962	<0.0000971	<0.000026	<0.000026	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025	<0.0005	<0.0476
Pentachlorophenol	0.1	0.1	<0.0288	<0.000587	<0.000592	<0.000081	<0.000081	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079	<0.0005	<0.29
Phenanthrene	73	220	0.0124 J	0.00677	<0.0000583	0.00012	0.012	0.0016	<0.000021	0.03	0.017	0.0022 J	0.079	0.264
Phenol	730	2200	<0.00189	<0.0000385	<0.0000388	<0.000036	<0.000036	<0.000035	<0.000035	0.000051 J	<0.000035	<0.000035	3.4	7.51
Pyrene	73	220	<0.00519	0.000353 J	<0.000107	0.00031	0.0028	0.00064	0.000037 J	0.0088	0.0042	0.001 J	0.0019 J	<0.0524
Metals														
Arsenic	1	1				0.00174 J	0.00214	0.000851 J	0.00158 J	0.000626 J	0.00279	<0.0004		

Notes:

1. All values in milligrams per liter (mg/L).
2. Concentrations > RAL and non-detects are highlighted light gray.
3. Concentrations > C/I AL and non-detects are highlighted dark gray
4. TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
5. RAL = Residential Assessment Level, C/I = Commercial/Industrial
6. J = Estimated value, < = not detected at the specified detection limit.

**TABLE 3
ANALYTICAL RESULTS SUMMARY (2008 - 2020)
CLASS 3 GROUNDWATER
HOUSTON, TX - WOOD PRESERVING WORKS**

	Class 3 Residential Assessment	Class 3 C/I PCL	MW-72B 07/29/2013	MW-72B 01/15/2014	MW-72B 02/08/2018	MW-72B 03/19/2018	MW-72B 05/16/2018	MW-72B 01/24/2019	MW-72B 07/10/2019	MW-72B 01/09/2020	MW-72B 07/14/2020
Volatile Organic Compounds											
1,2-Dichloroethane	0.5	0.5	<0.014	<0.0002	0.018	<0.0002	<0.001	0.011	<0.0002	<0.002	<0.0002
Benzene	0.5	0.5	1.23	0.932	0.8	1.1	1.2	0.63	1.1	0.7	0.92
Chlorobenzene	10	10	<0.012	0.00029 J	0.00033 J	<0.0003	<0.0015	<0.003	<0.0003	<0.003	0.0003 J
Ethylbenzene	70	70	0.332	0.224	0.26	0.31	0.34	0.2	0.3	0.13	0.23
Methylene chloride	0.5	0.5	0.291	<0.00022	<0.001	<0.001	<0.005	<0.01	<0.001	<0.01	<0.001
Toluene	100	100	1.12	0.724	0.72	0.99	0.95	0.58	0.96	0.58	0.75
Vinyl chloride	0.2	0.2									
Xylenes (total)	1000	1000	0.928	0.661	0.87	0.94	1.1	0.63	0.97	0.36	0.54
Semivolatile Organic Compounds											
1,2-Diphenylhydrazine	0.11	0.26	<0.0267	<0.156	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021
2,4-Dimethylphenol	49	150	29.9	182 J	10	16	14	2	19	13	22
2,4-Dinitrotoluene	0.13	0.3	<0.0316	<0.184	<0.00058	<0.00058	<0.00058	<0.00058	<0.00058	<0.00058	<0.00058
2,6-Dinitrotoluene	0.13	0.3	<0.0194	<0.113	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042	<0.00042
2-Chloronaphthalene	200	580	<0.0194	<0.113	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021	<0.00021
2-Methylnaphthalene	9.8	29	1.19	3.37	0.33	0.42	0.23	0.071	0.57	0.22	0.099
4,6-Dinitro-2-methylphenol	0.24	0.73	<0.201	<1.17	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
4-Nitrophenol	4.9	15	<0.136	<0.792	<0.00047	<0.00047	<0.00047	0.0073 J	<0.00047	<0.00047	<0.00047
Acenaphthene	150	440	0.476	1.6	0.07	0.15	0.12	0.019	0.2	0.079	0.063
Acenaphthylene	150	440	<0.0146	<0.0849	0.0021	<0.00015	0.003	0.00069 J	0.0044	0.0023	0.0018
Anthracene	730	2200	0.033 J	0.179 J	0.0085	0.02	<0.00014	0.0015	0.034	0.02	0.0059
Benzo(a)anthracene	0.91	2	<0.0194	<0.113	<0.0005	<0.0005	<0.0005	<0.0005	0.0069	0.0031	0.00062 J
Benzo(a)pyrene	0.02	0.02	<0.0194	<0.113	<0.0002	<0.0002	<0.0002	<0.0002	0.0019	0.0011	<0.0002
bis(2-Chloroethoxy)methane	0.083	0.19	<0.0316	<0.184	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
bis(2-Ethylhexyl)phthalate (DEHP)	0.6	0.6	<0.0898	<0.524	<0.00037	<0.00037	<0.00037	<0.00037	<0.00037	<0.00037	<0.00037
Chrysene	91	200	<0.0194	<0.113	<0.00021	<0.00021	<0.00021	<0.00021	0.0069	0.0033	0.00027 J
Dibenzofuran	9.8	29	0.348	1.21	0.06	0.13	0.082	0.017	0.16	0.061	0.052
Di-n-butylphthalate (DBP)	240	730	<0.0267	<0.156	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Fluoranthene	98	290	<0.017	<0.0991	<0.0001	0.0015	0.00095 J	<0.0001	0.046	0.024	0.0012
Fluorene	98	290	0.224	0.7 J	0.032	0.069	0.051	0.0091	0.12	0.049	0.031
Naphthalene	49	150	25	82.8	7.5	13	12	1.2	12	2	8.8
Nitrobenzene	4.9	15	<0.0267	<0.156	<0.00024	<0.00024	<0.00024	<0.00024	<0.00024	<0.00024	<0.00024
N-Nitrosodiphenylamine	19	42	<0.0243	<0.142	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
Pentachlorophenol	0.1	0.1	<0.148	<0.863	<0.00079	<0.00079	<0.00079	<0.00079	<0.00079	<0.00079	<0.00079
Phenanthrene	73	220	0.182	0.76	0.02	0.084	0.045	0.0042	0.16	0.075	0.028
Phenol	730	2200	6.31	31.4	4.2	4.2	2.3	0.58	9.3	5.2	6.4
Pyrene	73	220	<0.0267	<0.156	<0.00019	0.0012	0.00074 J	<0.00019	0.029	0.013	0.00093 J
Metals											
Arsenic	1	1				0.00127 J	0.000624 J	0.000951 J	0.00106 J	0.000861 J	0.00105 J
Notes:											

1. All values in milligrams per liter (mg/L).
2. Concentrations > RAL and non-detects are highlighted light gray.
3. Concentrations > C/I AL and non-detects are highlighted dark gray
4. TRRP Protective Concentration Limits (PCLs) (30 TAC §350, Table 3), updated January 2021.
5. RAL = Residential Assessment Level, C/I = Commercial/Industrial
6. J = Estimated value, < = not detected at the specified detection limit.

TABLE 4

Analytical Results Summary - A-TZ Wells - VISL Comparison
Houston, tx - Wood Preserving Works

Location ID:	Target Groundwater Concentration (TCR=1E-05 or THQ=0.1)	Max Values	MW-25A	MW-25A	MW-25A	MW-26A	MW-26A	MW-26A	MW-27A	MW-27A
Sample Date:	Cgw,Target (mg/L)	(mg/L)	07/16/2019	01/15/2020	07/22/2020	07/17/2019	01/16/2020	07/27/2020	07/18/2019	01/15/2020
Semivolatile Organic Compounds (mg/L)										
Benzo(a)anthracene	0.344	0.00014	<0.00005	0.00012	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Naphthalene	0.0174	0.0030	0.00023	0.0001	0.001	<0.00032	<0.00017	<0.000049	0.0026	0.000053 J
Nitrobenzene	0.715	0.001	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	0.001	<0.000024	<0.000024
Volatile Organic Compounds (mg/L)										
1,2-Dichloroethane	0.0151	0.00031	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Benzene	0.0138	0.00036	<0.0002	<0.0002	<0.0002	0.00036 J	<0.0002	<0.0002	<0.0002	<0.0002
Chlorobenzene	0.041	0.00058	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Ethylbenzene	0.0349	0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Methylene chloride	0.471	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Toluene	1.92	0.0021	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Vinyl chloride	0.00147	0.0002	<0.0002	<0.0002	<0.0002	NA	NA	NA	NA	NA
Xylenes (total)	0.0385	0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003

Notes: VISL Calculator output for target groundwater screening level with inputs: residential scenario, hazard quotient of 0.1, carcinogenic risk of 10-5, and groundwater temperature of 25 degree Celsius (EPA, 2019).

J = Estimated value

< = Compound not detected at the specified detection limit.

TABLE 4

Analytical Results Summary - A-TZ Wells - VISL Comparison
Houston, tx - Wood Preserving Works

Location ID:	Target Groundwater Concentration (TCR=1E-05 or THQ=0.1)	MW-28A	MW-28A	MW-28A	MW-32AR	MW-32AR	MW-32AR
Sample Date:	Cgw, Target (mg/L)	07/16/2019	01/16/2020	07/23/2020	07/30/2019	01/20/2020	07/23/2020
Semivolatile Organic Compounds (mg/L)							
Benzo(a)anthracene	0.344	0.000055 J	0.000073 J	<0.00005	0.000054 J	<0.00005	0.000088 J
Naphthalene	0.0174	0.0013	<0.0006	0.00015 J	<0.00002	<0.00014	0.00026 J
Nitrobenzene	0.715	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024
Volatile Organic Compounds (mg/L)							
1,2-Dichloroethane	0.0151	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Benzene	0.0138	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Chlorobenzene	0.041	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Ethylbenzene	0.0349	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Methylene chloride	0.471	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Toluene	1.92	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Vinyl chloride	0.00147	NA	NA	NA	NA	<0.0002	NA
Xylenes (total)	0.0385	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003

Notes: VISL Calculator output for target groundwater screening level with inputs: residential scenario, hazard quotient of 0.1, carcinogenic risk of 10-5, and groundwater temperature of 25 degree Celsius (EPA, 2019).

J = Estimated value

< = Compound not detected at the specified detection limit.

TABLE 4

Analytical Results Summary - A-TZ Wells - VISL Comparison
Houston, tx - Wood Preserving Works

Location ID:	Target Groundwater Concentration (TCR=1E-05 or THQ=0.1)	MW-33A	MW-33A (DUP)	MW-33A	MW-33A (DUP)	MW-33A	MW-33A (DUP)	MW-33A	MW-33A (DUP)
Sample Date:	Cgw,Target (mg/L)	07/17/2019	07/17/2019	01/20/2020	01/20/2020	07/28/2020	07/28/2020	08/18/2020	08/18/2020
Semivolatile Organic Compounds (mg/L)									
Benzo(a)anthracene	0.344	<0.00005	<0.00005	0.00012	0.00012	NA	NA	0.00011	0.00014
Naphthalene	0.0174	<0.000076	<0.000096	<0.0005	<0.00066	NA	NA	<0.00002	<0.000021
Nitrobenzene	0.715	<0.000024	<0.000024	<0.000024	<0.000024	NA	NA	<0.000024	<0.000025
Volatile Organic Compounds (mg/L)									
1,2-Dichloroethane	0.0151	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	NA	NA
Benzene	0.0138	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	NA	NA
Chlorobenzene	0.041	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	NA	NA
Ethylbenzene	0.0349	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	NA	NA
Methylene chloride	0.471	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	NA
Toluene	1.92	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	NA	NA
Vinyl chloride	0.00147	NA	NA	<0.0002	<0.0002	--	--	NA	NA
Xylenes (total)	0.0385	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	NA	NA

Notes: VISL Calculator output for target groundwater screening level with inputs: residential scenario, hazard quotient of 0.1, carcinogenic risk of 10-5, and groundwater temperature of 25 degree Celsius (EPA, 2019).

J = Estimated value

< = Compound not detected at the specified detection limit.

TABLE 4

Analytical Results Summary - A-TZ Wells - VISL Comparison
Houston, tx - Wood Preserving Works

Location ID:	Target Groundwater Concentration (TCR=1E-05 or THQ=0.1)	MW-35A	MW-35A	MW-35A	MW-36A	MW-36A	MW-36A	MW-36A	MW-38A	MW-38A	MW-38A
Sample Date:	Cgw,Target (mg/L)	07/18/2019	01/10/2020	07/22/2020	07/16/2019	01/09/2020	07/28/2020	08/18/2020	07/31/2019	01/21/2020	07/20/2020
Semivolatile Organic Compounds (mg/L)											
Benzo(a)anthracene	0.344	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	NA	<0.000052	0.000087 J	<0.00005	<0.00005
Naphthalene	0.0174	0.00083	<0.0002	0.0012	0.00015	<0.00034	NA	<0.000021	0.000068 J	0.0011	<0.00002
Nitrobenzene	0.715	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	NA	<0.000025	<0.000024	<0.000024	<0.000024
Volatile Organic Compounds (mg/L)											
1,2-Dichloroethane	0.0151	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	NA	0.00031 J	<0.0002	<0.0002
Benzene	0.0138	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	NA	<0.0002	<0.0002	<0.0002
Chlorobenzene	0.041	<0.0003	<0.0003	0.00058 J	<0.0003	<0.0003	<0.0003	NA	<0.0003	<0.0003	<0.0003
Ethylbenzene	0.0349	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	NA	<0.0003	<0.0003	<0.0003
Methylene chloride	0.471	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NA	<0.001	<0.001	<0.001
Toluene	1.92	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	NA	<0.0002	<0.0002	<0.0002
Vinyl chloride	0.00147	NA	<0.0002	NA	<0.0002	<0.0002	<0.0002	NA	NA	NA	NA
Xylenes (total)	0.0385	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	NA	<0.0003	<0.0003	<0.0003

Notes: VISL Calculator output for target groundwater screening level with inputs: residential scenario, hazard quotient of 0.1, carcinogenic risk of 10-5, and groundwater temperature of 25 degree Celsius (EPA, 2019).

J = Estimated value

< = Compound not detected at the specified detection limit.

TABLE 4

Analytical Results Summary - A-TZ Wells - VISL Comparison
Houston, tx - Wood Preserving Works

Location ID:	Target Groundwater Concentration (TCR=1E-05 or THQ=0.1)	MW-44A	MW-44A	MW-44A	MW-47A	MW-47A	MW-59A	MW-59A	MW-59A
Sample Date:	Cgw,Target (mg/L)	07/17/2019	01/09/2020	07/22/2020	03/20/2020	07/21/2020	07/17/2019	01/16/2020	07/21/2020
Semivolatile Organic Compounds (mg/L)									
Benzo(a)anthracene	0.344	0.000085 J	0.000054 J	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005
Naphthalene	0.0174	<0.00019	<0.003	<0.00016	<0.00002	0.00025	<0.00012	<0.0012	0.00017
Nitrobenzene	0.715	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024
Volatile Organic Compounds (mg/L)									
1,2-Dichloroethane	0.0151	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Benzene	0.0138	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Chlorobenzene	0.041	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Ethylbenzene	0.0349	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Methylene chloride	0.471	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Toluene	1.92	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.0021
Vinyl chloride	0.00147	<0.0002	NA	<0.0002	NA	NA	<0.0002	<0.0002	<0.0002
Xylenes (total)	0.0385	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003

Notes: VISL Calculator output for target groundwater screening level with inputs: residential scenario, hazard quotient of 0.1, carcinogenic risk of 10-5, and groundwater temperature of 25 degree Celsius (EPA, 2019).

J = Estimated value

< = Compound not detected at the specified detection limit.

TABLE 4

Analytical Results Summary - A-TZ Wells - VISL Comparison
Houston, tx - Wood Preserving Works

Location ID:	Target Groundwater Concentration (TCR=1E-05 or THQ=0.1)	MW-60A	MW-60AR	MW-60AR	MW-61A	MW-61A	MW-61A	MW-68A	MW-68A	MW-68A
Sample Date:	Cgw, Target (mg/L)	07/17/2019	03/20/2020	07/20/2020	07/17/2019	01/16/2020	07/20/2020	07/18/2019	01/17/2020	07/27/2020
Semivolatile Organic Compounds (mg/L)										
Benzo(a)anthracene	0.344	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00002
Naphthalene	0.0174	<0.00013	<0.00002	<0.00002	<0.00002	<0.00021	<0.000073	0.00035	<0.00022	<0.000029
Nitrobenzene	0.715	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024
Volatile Organic Compounds (mg/L)										
1,2-Dichloroethane	0.0151	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Benzene	0.0138	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Chlorobenzene	0.041	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Ethylbenzene	0.0349	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Methylene chloride	0.471	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Toluene	1.92	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Vinyl chloride	0.00147	<0.0002	NA	NA	<0.0002	<0.0002	<0.0002	NA	NA	NA
Xylenes (total)	0.0385	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003

Notes: VISL Calculator output for target groundwater screening level with inputs: residential scenario, hazard quotient of 0.1, carcinogenic risk of 10-5, and groundwater temperature of 25 degree Celsius (EPA, 2019).

J = Estimated value

< = Compound not detected at the specified detection limit.

TABLE 4

Analytical Results Summary - A-TZ Wells - VISL Comparison
Houston, tx - Wood Preserving Works

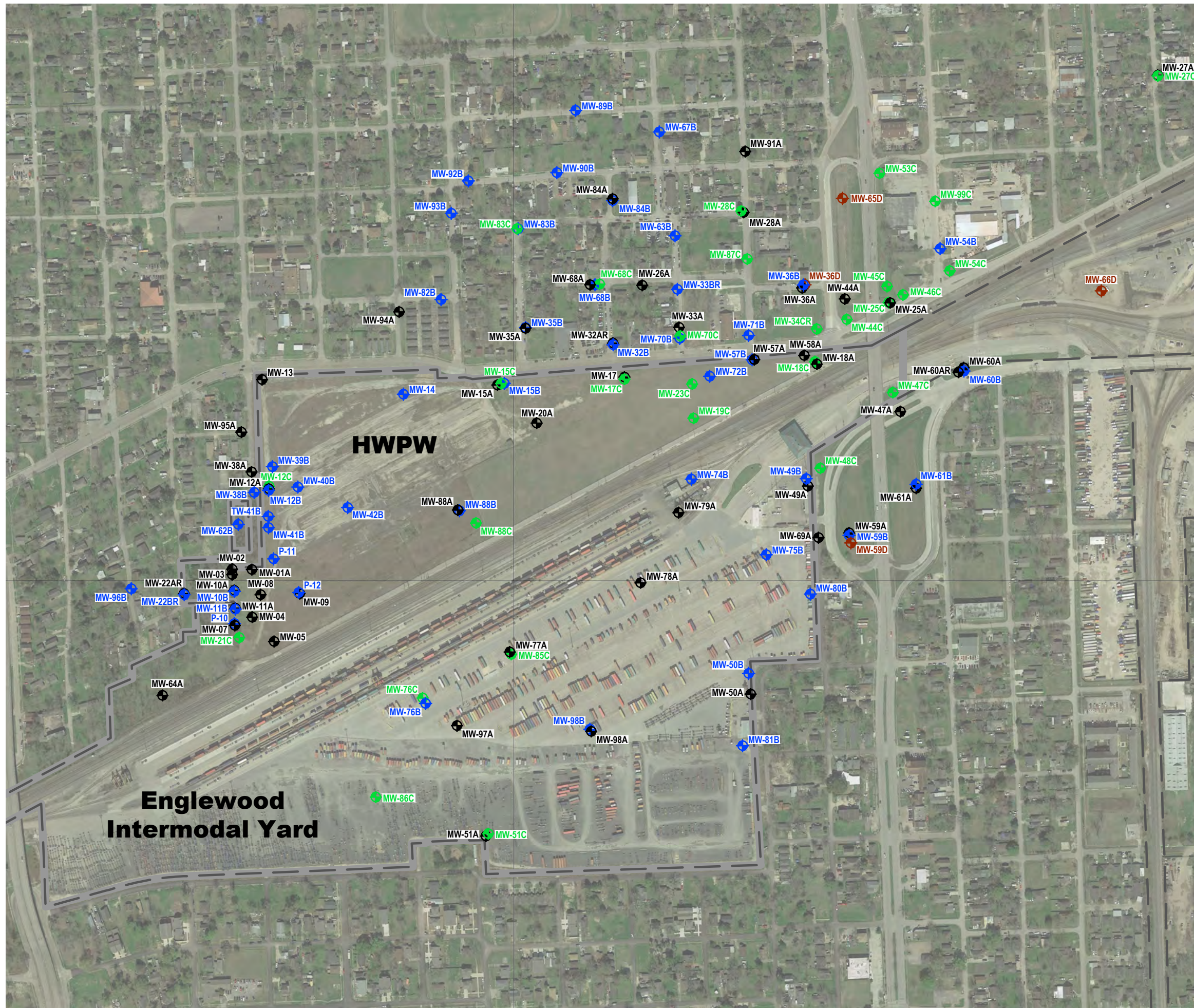
Location ID:	Target Groundwater Concentration (TCR=1E-05 or THQ=0.1)	MW-69A	MW-69A	MW-84A	MW-84A	MW-91A	MW-91A	MW-94A	MW-94A	MW-95A	MW-95A
Sample Date:	Cgw,Target (mg/L)	07/17/2019	07/21/2020	03/12/2020	07/27/2020	03/12/2020	07/23/2020	03/12/2020	7/202020	03/17/2020	07/20/2020
Semivolatile Organic Compounds (mg/L)											
Benzo(a)anthracene	0.344	<0.00005	<0.00005	<0.000051	<0.000052	<0.000053	<0.00005	<0.000052	<0.00005	<0.00005	<0.00005
Naphthalene	0.0174	<0.000078	0.00019	0.000023 J	<0.00013	0.000083 J	<0.00002	<0.000021	<0.00002	<0.00002	<0.00002
Nitrobenzene	0.715	<0.000024	<0.000024	<0.000024	<0.000024	<0.000025	<0.000024	<0.000025	<0.000024	<0.000024	<0.000024
Volatile Organic Compounds (mg/L)											
1,2-Dichloroethane	0.0151	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Benzene	0.0138	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Chlorobenzene	0.041	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Ethylbenzene	0.0349	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003
Methylene chloride	0.471	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Toluene	1.92	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Vinyl chloride	0.00147	<0.0002	<0.0002	NA	NA	NA	NA	NA	NA	NA	NA
Xylenes (total)	0.0385	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003	<0.0003

Notes: VISL Calculator output for target groundwater screening level with inputs: residential scenario, hazard quotient of 0.1, carcinogenic risk of 10-5, and groundwater temperature of 25 degree Celsius (EPA, 2019).

J = Estimated value

< = Compound not detected at the specified detection limit.

FIGURES



LEGEND

- UPRR PROPERTY BOUNDARY
- A-TZ MONITORING WELL LOCATION
- B-CZ/B-TZ MONITORING WELL LOCATION
- C-TZ MONITORING WELL LOCATION
- D-TZ MONITORING WELL LOCATION

REFERENCE(S)
 PARCEL BOUNDARIES: CITY OF HOUSTON GEOGRAPHIC INFORMATION & MANAGEMENT SYSTEMS (GIMS).
 AERIAL: GOOGLE EARTH, IMAGERY DATED 2/23/19.



UNION PACIFIC RAILROAD CO.

HOUSTON WOOD PRESERVING WORKS

MONITORING WELL LOCATION MAP

2020-03-18

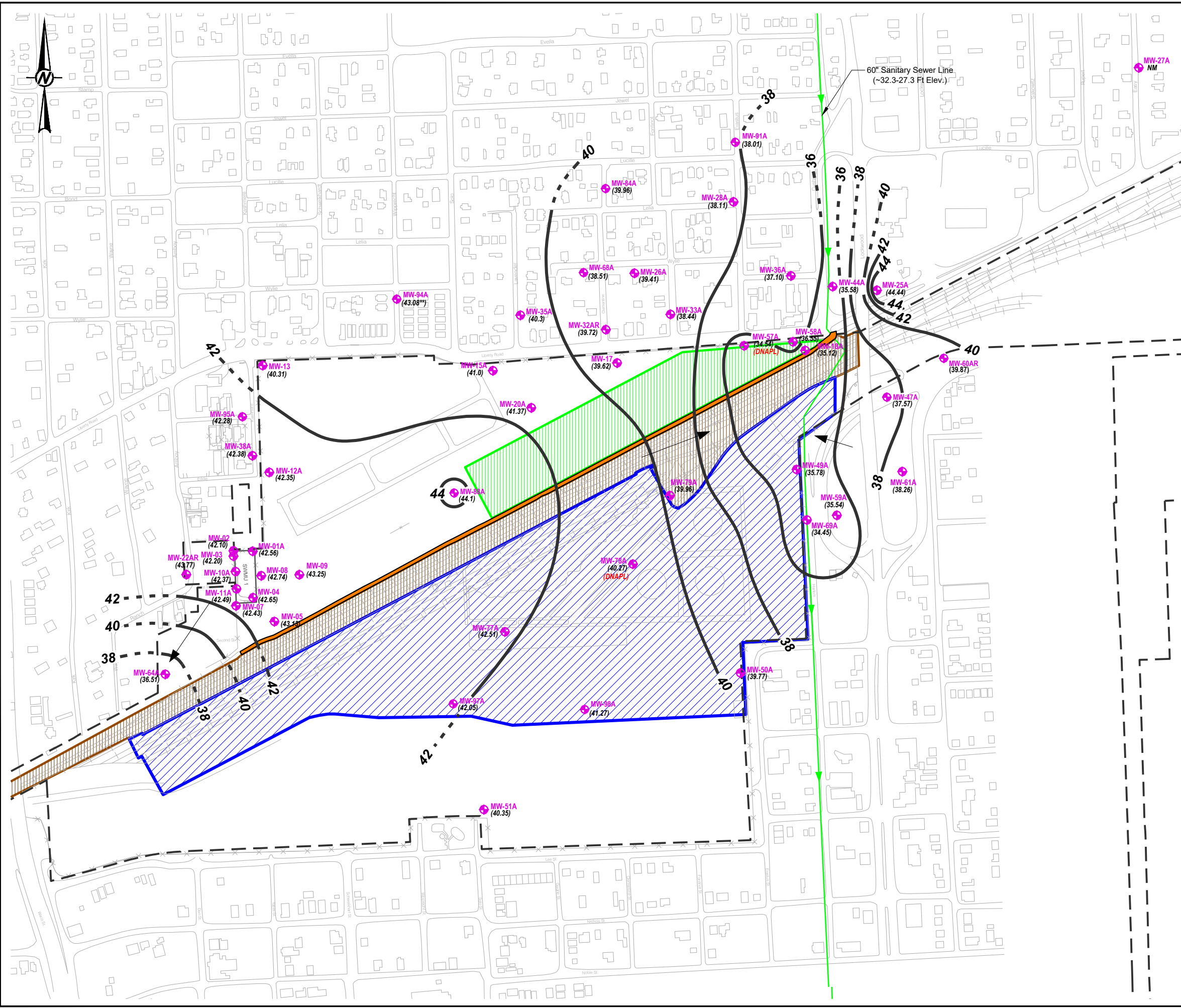
AJD

AJD

MH

ECM

Path: \\golder-gis\completes\data\office\houston\projects - round rock_20191019110232 - hwy2020_0_spl\GMR-Annual Report - File Name: 6A-1 Groundwater Gradient Map A-TZ - July 2020.dwg | Last Edited By: mskumar | Date: 2021-04-30 | Time: 4:47:52 PM | Printed By: RSalazar | Date: 2021-04-30 | Time: 4:54:10 PM



LEGEND

- UPRR PROPERTY BOUNDARY
- HISTORIC STRUCTURE AND FEATURE
- ROAD, PARKING LOT, SIDEWALK
- FENCE
- RAILROAD
- A-TZ MONITORING WELL LOCATION
- (39.87)

 GROUNDWATER ELEVATION (FT, HVD)
- GROUNDWATER ELEVATION CONTOUR (FT, HVD)
C.I. = 2 FT
- INFERRED GROUNDWATER FLOW DIRECTION
- RAILROAD BALLAST CAP AREA
- ASPHALT CAP AREA
- SOIL CAP
- CONCRETE CAP AREA

- NOTE(S)**
1. VERTICAL DATUM BASED ON CITY OF HOUSTON VERTICAL DATUM (HVD).
 2. DNAPL - DENSE NON-AQUEOUS PHASE LIQUIDS DETECTED IN MONITORING WELL (JULY 2020).
 3. ** - NOT USED TO DEVELOP POTENTIOMETRIC SURFACE.
 4. NM - NOT MEASURED

REFERENCE(S)
 BASE MAP FROM ERM-SOUTHWEST, INC APAR ADDENDUM, FIG 3-1, DATED JUNE 2004.



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PROJECT
 HOUSTON WOOD PRESERVING WORKS

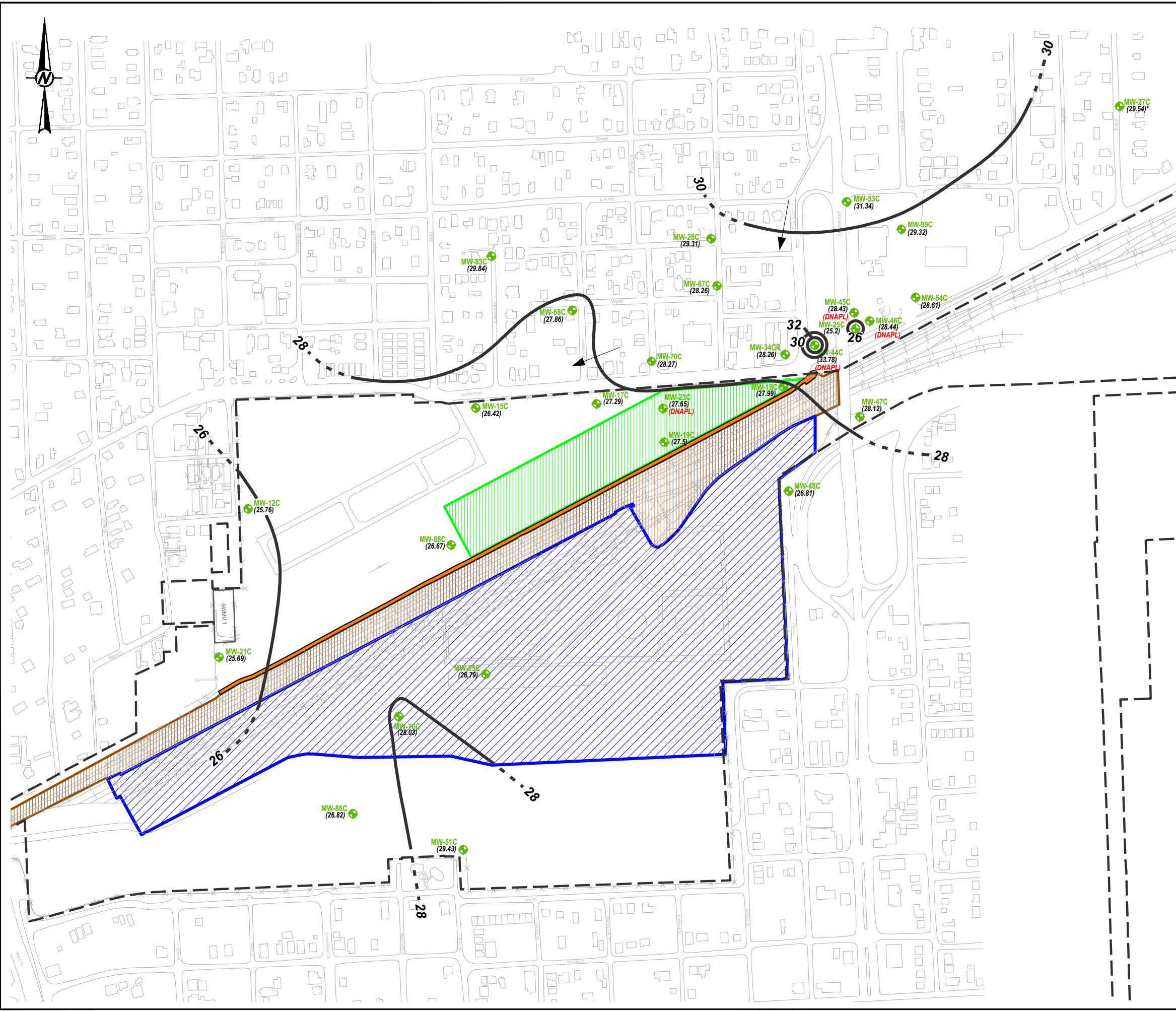
TITLE
 GROUNDWATER GRADIENT MAP - A-TZ
 JULY 2020

CONSULTANT	DATE
GOLDER MEMBER OF WSP TEXAS GEOSCIENCE FIRM NO. 50369 TEXAS ENGINEERING FIRM NO. 2578	YYYY-MM-DD 2021-04-30
	DESIGNED
	PREPARED RS
	REVIEWED MH
	APPROVED ECM

PROJECT NO. 19119232 REV. 0 FIGURE 5A-1

1 in. IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSIB

Path: \\golder-gbl.com\projects\2021\19119232 - Houston Wood Preserving Works - Groundwater Gradient Map C-TZ - July 2020.dwg | Last Edited By: rsalazar | Date: 2021-04-30 | Time: 4:54:59 PM



LEGEND

- UPRR PROPERTY BOUNDARY
- HISTORIC STRUCTURE AND FEATURE
- ROAD, PARKING LOT, SIDEWALK
- FENCE
- RAILROAD
- C-TZ MONITORING WELL LOCATION
- GROUNDWATER ELEVATION (FT, HVD)
(29.54)
- GROUNDWATER ELEVATION CONTOUR (FT, HVD)
C.I. = 2 FT
- INFERRED GROUNDWATER FLOW DIRECTION
- RAILROAD BALLAST CAP AREA
- ASPHALT CAP AREA
- SOIL CAP
- CONCRETE CAP AREA

- NOTE(S)**
1. VERTICAL DATUM BASED ON CITY OF HOUSTON VERTICAL DATUM (HVD).
 2. DNAPL - DENSE NON-AQUEOUS PHASE LIQUIDS DETECTED IN MONITORING WELL (JULY 2020).
 3. NM - NOT MEASURED
 4. * - WATER ELEVATION MEASURED IN AUGUST 18, 2020.

REFERENCE(S)
BASE MAP FROM ERM-SOUTHWEST, INC APAR ADDENDUM, FIG 3-1, DATED JUNE 2004.



CLIENT
UNION PACIFIC RAILROAD CO.

PROJECT
HOUSTON WOOD PRESERVING WORKS

TITLE
GROUNDWATER GRADIENT MAP - C-TZ
JULY 2020

CONSULTANT	DATE	BY
DESIGNED	2021-04-30	RS
PREPARED		RS
REVIEWED		MH
APPROVED		ECM

PROJECT NO. 19119232
REV. 0
FIGURE 5A-3

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B

ATTACHMENT A

Groundwater Sampling Records

WATER LEVEL MONITORING RECORD

DATE: 7-8-2020

Project No. 19119232

Project Name: HWPW

PAGE of

Weather Conditions: 86° mostly cloudy

Measuring Device: Heron

Measuring Point (MP): T0C

Observations/Comments:

Well ID	Time	Depth to Product (ft. BMP)	Depth to Water (feet BMP)		TD (ft)	Remarks	Measured By
			Primary Reading	Check Reading			
MW20A	8:00	-	8.95		28.15		Tm
88A		-	7.39		25.45		
88B		-	7.46		43.0		
88C	8:20	-	24.50		75.65	Wasp nest in cap	
14	8:40	-	9.21		45.0		
13	8:44	-	10.34		26.15		
39B	8:46	-	7.41		41.40		
12C		-	24.38		75.55		
12A		-	7.61		30.30		
40B		-	7.19		42.50		
42B	9:01	-	7.29		43.65		
41B		-	7.25		42.30		
62B		-	6.09		35.46		
11		-	6.31		42.70	Full of ants	
8	9:20	-	6.59		25.10		
9		-	6.01		25.30		
P12		-	5.31		42.40		
7		-	6.48		24.85		
P10	9:50	-	5.38		8.10		
5		-	6.11	1	25.35	Full of wasp - ants in cap.	
21C		-	23.36		74.65		
64A		-	8.04		22.20		
4		-	7.20		21.46		
11B		-	7.81		46.80		
11A		-	7.67		24.0		
10B		-	7.58		46.55		
10A		-	7.46		25.60		
3		-	6.08		19.0		
2		-	5.79		21.15		
1	11:30	11:26	5.34		20.0		
59A	12:30	-	8.64		20.60		

Notes: 1) use a single reference point for all depth to water measurements; 2) complete at least two depth to measurements that agree within 0.01 ft.

Unless otherwise noted, water level measurements were made in accordance with applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 2 (Static Water Level Measurement).

Measured By: TIM McSpadden

Checked By:



2201 Double Creek Dr., Suite 4004
Round Rock, TX 78664

(512) 671-3434 Fax (512) 671-3446

WATER LEVEL MONITORING RECORD

DATE: 7-7-2020

Project No. 19119232

Project Name: HURPH

PAGE ___ of ___

Weather Conditions: 86° mostly cloudy

Measuring Device: Hecan

Measuring Point (MP): TOC

Observations/Comments:

Well ID	Time	Depth to Product (ft. BMP)	Depth to Water (feet BMP)		TD (ft)	Remarks	Measured By
			Primary Reading	Check Reading			
95A	9:10	-	3.91		24.90		TM
38A		-	4.01		22.15		
38B		-	3.11		37.60		
22AR		-	1.79		19.99		
22BR	9:20	-	2.92		37.82		
96B		-	4.89		35.50		
94A	9:25	-	2.13		11.60		
82B		-	3.55		34.85		
93B	9:44	-	5.44		33.90		
92B		-	5.68		34.60		
90D	9:54	-	4.89		35.35		
84A		-	4.71		23.50		
84B		-	5.23		40.20		
67B		-	9.31		39.60		
89B	10:08	-	6.89		40.80		
63B	10:14	-	6.63		36.30		
33BR		-	4.85		38.04		
33A		-	5.31		25.20		
70C		-	16.80		66.80		
70B	10:30	31.20	5.55		35.30		
32AR		-	4.84		18.10		
32B	10:45	35.12	4.61		36.10		
68A		-	4.73		22.90		
68B		37.40	4.79		37.45		
68C	11:00	-	16.94		67.55		
26A		-	5.21		24.60		
35A	11:15	-	4.45		28.25		
35B		-	4.70		43.04		
83B		-	5.04		35.30		
83C	11:31	-	15.58		68.0		
71B	12:00	-	0.8		26.70		

Notes: 1) use a single reference point for all depth to water measurements; 2) complete at least two depth to measurements that agree within 0.01 ft.

Unless otherwise noted, water level measurements were made in accordance with applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 2 (Static Water Level Measurement).

Measured By: Tim McSpalden

Checked By:



2201 Double Creek Dr., Suite 4004
Round Rock, TX 78664

(512) 671-3434 Fax (512) 671-3446

WATER LEVEL MONITORING RECORD

DATE: 7-7-2020

Project No. 19119232 Project Name: HWPW

PAGE ___ of ___

Weather Conditions: 80° mostly cloudy

Measuring Device: Horn

Measuring Point (MP): TOC

Observations/Comments:

Well ID	Time	Depth to Product (ft. BMP)	Depth to Water (feet BMP)		TD (ft)	Remarks	Measured By
			Primary Reading	Check Reading			
87C	12:08	-	16.0		64.70		TM
28A		-	5.75		25.40		
28C	12:21	-	14.65		87.40		
91A		-	6.01		24.0		
36A		-	7.41		27.65		
36B		-	4.89		42.80		
36D	13:00	-	81.92		102+		
34CR		-	18.21		67.25	TOP of well plug	
65D	13:20	-	82.49		102+		
44A		-	9.58		28.10		
45C	13:40	-	16.30		70.60		
46C	13:50	-	16.50		72.70		
25A	14:02	-	0.21		28.80		
25C						not found/covered with soil	
44C	14:10	-	11.35		57.90		
54C	14:18	-	16.38		72.10		
54B		-	14.63		40.05		
99C	14:28	-	16.01		68.0		
53C		-	14.45		71.02		
15A		-	9.41		29.85		
15B		-	9.15		40.70		
15C	14:50	-	23.09		74.60		
17		-	11.30		32.90		
17C	15:05	-	22.88		75.30		
23C		76.70	26.51		76.70		
19C	15:15	-	25.55		75.30		
72B		-	17.01		40.30		
57A		-	12.18		25.95		
57B	15:30	-	14.61		42.50		
58A		-	11.21		28.60		
18A	15:40	-	16.45		35.95		

Notes: 1) use a single reference point for all depth to water measurements; 2) complete at least two depth to measurements that agree within 0.01 ft.

Unless otherwise noted, water level measurements were made in accordance with applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 2 (Static Water Level Measurement).

Measured By: Tim McSpodden

Checked By:



2201 Double Creek Dr., Suite 4004
Round Rock, TX 78664
(512) 671-3434 Fax (512) 671-3446

WATER LEVEL MONITORING RECORD

DATE: 7-7-2020
PAGE ___ of ___

Project No. 19119232 Project Name: HWPW

Weather Conditions: 86° mostly cloudy

Measuring Device: Hecow Measuring Point (MP): TOC

Observations/Comments:

Well ID	Time	Depth to Product (ft. BMP)	Depth to Water (feet BMP)		TD (ft)	Remarks	Measured By
			Primary Reading	Check Reading			
18C	15:45	-	23.48		61.80		

Notes: 1) use a single reference point for all depth to water measurements; 2) complete at least two depth to measurements that agree within 0.01 ft.

Unless otherwise noted, water level measurements were made in accordance with applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 2 (Static Water Level Measurement).

Measured By: Tim M. Spaldin
Checked By:



GOLDER
2201 Double Creek Dr., Suite 4004
Round Rock, TX 78664
(512) 671-3434 Fax (512) 671-3446

WATER LEVEL MONITORING RECORD

DATE: 7-8-2020

Project No. 19119232

Project Name: HUPU

PAGE ___ of ___

Weather Conditions: 94° mostly cloudy

Measuring Device: Herra

Datum (MSL, NGVD, etc.):

Observations/Comments:

Well ID	Time	Depth to Product (ft. BMP)	Depth to Water (ft. BMP)	Total Well Depth (ft.)	PSH Thickness (ft.)	Remarks
59 B	12:45	-	8.57	32.90	32.90	
59 D	12:55	-	79.56	102.7	102.7	
47 A	13:15	-	8.01	25.0	25.0	
60 AR	13:20	-	7.22	29.40	29.40	
60 B	13:25	-	12.30	39.50	39.50	
61 A	13:30	-	6.41	21.20	21.20	
61 B	13:35	-	5.0	33.0	33.0	
69 A	13:45	-	11.26	18.0		
48 C		-				
79 A	13:55	-	8.99	25.10		
74 B	14:05	-	7.32	35.10		
76 C		-	19.81	20.80		
76 B	14:15	-	6.09	35.35		
97 A	14:25	5.72 →	19.90	19.90		
98 A		-	7.08	21.25		
98 B		-	7.81	39.70		
85 C		-	22.31	20.0		
77 A		-	6.54	22.80		
80 B	14:50	-	10.25	39.75		
50 A		-	7.19	24.80		
50 B		-	7.91	37.70		
81 C	15:05	-	6.31	33.90		
51 A		-	7.45	24.90		
51 C		-	18.05	22.70		
86 C	15:30	-	19.79	69.80		

Measured By:

T. M. Spaulden

Checked By:



Golder Associates Inc.

11231 Richmond Ave., Suite D104

Houston, Texas 77082

Phone: (832) 916-3690

Groundwater Sample Collection

Page ___ of ___

Project/Phase	19119232	Equipment Decon	<input type="checkbox"/> Dedicated equipment	Depth to Water	7.16	ft. BMP
Site Location	HWPW		<input checked="" type="checkbox"/> Decon between locations	Casing Stickup	1.4	ft.
Date	7-15-20	Reference Point	<input checked="" type="checkbox"/> Top of casing	Depth to Water	7.16	ft. BGL
MW ID	MW 03	Location	<input type="checkbox"/> Other _____	Total MW Depth	19.0	ft. BGL
Sample ID	WG1620 MW 03 20200715	Water Quality		MW Diameter	2"	inches
Pump	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Submersible <input type="checkbox"/> Bladder	Meter Model	C1108	MW Volume		gallons
		Unit Number	P1115	Pump Intake Depth	18	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

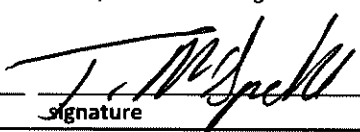
Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C)	pH	Conductivity (µS/m or mS/cm)	Dissolved Oxygen (mg/L)	Redox Potential (mV)	Turbidity (NTU)
				<input type="checkbox"/> NM	<input type="checkbox"/> NM	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> NM
12:15	.2	.2	7.11	27.93	7.04	0.397	2.54	-172	182
12:20	.2	.3	7.49	28.02	6.82	0.414	1.51	-177	71.2
12:25	.2	.4	7.52	27.75	6.64	0.450	1.02	-164	27.1
12:30	.2	.5	7.54	27.61	6.59	0.454	0.92	-156	23.7
12:35	.2	.6	7.54	27.57	6.54	0.457	0.82	-143	19.0
12:40	.2	.7	7.57	27.59	6.51	0.459	0.85	-138	10.0

Purging was completed based on: stabilization of water quality parameters removal of three well volumes removal of at least one half well volume (low yield well)

Bottles Collected				Filtration	Preserved	Notes and Observations
Time	Volume	Composition (G / P)	No.	(10µm / 45µm)	(type)	(quality control sample, other)
12:40		P	6	<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered		clear
				<input type="checkbox"/> filtered <input type="checkbox"/> unfiltered		

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection

Field Team Leader Tim McSpedden 

name signature

WG1620 MW 03 2020 0715 - 12:40



Groundwater Sample Collection

Page ___ of ___

Project/Phase	19119252	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	8.19	ft. BMP
Site Location	HWPW		<input type="checkbox"/> Decon between locations	Casing Stickup	1.19	ft.
Date	7-15-2020	Reference Point	<input checked="" type="checkbox"/> Top of casing	Depth to Water	8.19	ft. BGL
MW ID	MW04	Location	<input type="checkbox"/> Other _____	Total MW Depth	21.46	ft. BGL
Sample ID	WG-1620MW0420200715	Water Quality		MW Diameter	2.1	inches
Pump	<input checked="" type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model		MW Volume	2.12	gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number		Pump Intake Depth	19.0	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C)	pH	Conductivity (µS/m or mS/cm)	Dissolved Oxygen (mg/L)	Redox Potential (mV)	Turbidity (NTU)
1400	.2	.2	8.19	28.78	6.95	0.483	2.55	57	142
1405	.2	.3	8.41	29.59	6.77	0.476	1.74	59	113
1410	.2	.4	8.39	29.93	6.63	0.478	1.22	61	64.6
1415	.2	.5	8.36	30.04	6.60	0.478	1.11	62	54.1
1420	.2	.6	8.36	30.21	6.54	0.475	0.93	64	46.7
1425	.2	.7	8.34	30.27	6.51	0.475	0.79	65	47.9

Purging was completed based on: stabilization of water quality parameters removal of three well volumes removal of at least one half well volume (low yield well)

Bottles Collected				Filtration (10µm / 45µm)	Preserved (type)	Notes and Observations (quality control sample, other)
Time	Volume	Composition (G / P)	No.			
1425		P	6	<input checked="" type="checkbox"/> filtered <input type="checkbox"/> unfiltered		clear
				<input type="checkbox"/> filtered <input type="checkbox"/> unfiltered		

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader TIM Spadden T. Spadden
 name signature

WG-1620MW0420200715-14:25 FB-1445

Groundwater Sample Collection

Project/Phase	19119232	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	7.03	ft. BMP
Site Location	HWDW		<input type="checkbox"/> Decon between locations	Casing Stickup	3'	ft.
Date	7-15-2020	Reference Point	<input checked="" type="checkbox"/> Top of casing	Depth to Water	7.03	ft. BGL
MW ID	MW 05	Location	<input type="checkbox"/> Other _____	Total MW Depth	25.35	ft. BGL
Sample ID	WG-1620-MW05-20200715	Water Quality		MW Diameter	2"	inches
Pump	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Waterra <input type="checkbox"/> Submersible <input type="checkbox"/> Bladder	Meter Model	C1108	MW Volume	7.93	gallons
		Unit Number	P1115	Pump Intake Depth	23.0	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C) <input type="checkbox"/> NM	pH <input type="checkbox"/> NM	Conductivity (µS/m or mS/cm) <input type="checkbox"/> not measured	Dissolved Oxygen (mg/L) <input type="checkbox"/> not measured	Redox Potential (mV) <input type="checkbox"/> not measured	Turbidity (NTU) <input type="checkbox"/> NM
13:10	.2	.2	7.03	30.01	6.67	0.619	2.80	-44	480
13:15	.2	.3	7.36	29.96	6.66	0.613	1.45	-58	371
13:20	.2	.4	7.32	29.30	6.62	0.624	1.25	-72	268
13:25	.2	.5	7.29	28.77	6.60	0.632	1.01	-75	203
13:30	.2	.6	7.27	28.27	6.59	0.641	0.95	-76	180
13:35	.2	.7	7.31	28.20	6.57	0.643	0.88	-77	164

Purging was completed based on: stabilization of water quality parameters removal of three well volumes removal of at least one half well volume (low yield well)

Bottles Collected				Filtration (10µm / 45µm)	Preserved (type)	Notes and Observations (quality control sample, other)
Time	Volume	Composition (G / P)	No.	<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered		
		P	6	<input checked="" type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered		clear

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

 Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection

Field Team Leader

 T.M. Spalding
name


signature

WG-1620-MW-05-20200715 13:35

Groundwater Sample Collection

Project/Phase	19119232	Equipment Decon	<input type="checkbox"/> Dedicated equipment	Depth to Water	6.81	ft. BMP
Site Location	HWPu		<input type="checkbox"/> Decon between locations	Casing Stickup	3'	ft.
Date	7-15-20	Reference Point	<input checked="" type="checkbox"/> Top of casing	Depth to Water	6.81	ft. BGL
MW ID	MW09	Location	<input type="checkbox"/> Other _____	Total MW Depth	25.30	ft. BGL
Sample ID	WG1620MW0920200715	Water Quality		MW Diameter	4"	inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	C1108	MW Volume	12.01	gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	PI115	Pump Intake Depth	23.	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C) <input type="checkbox"/> NM	pH <input type="checkbox"/> NM	Conductivity (µS/m or mS/cm) <input type="checkbox"/> not measured	Dissolved Oxygen (mg/L) <input type="checkbox"/> not measured	Redox Potential (mV) <input type="checkbox"/> not measured	Turbidity (NTU) <input type="checkbox"/> NM
10:00	.2	.2	6.81	27.85	6.65	1.09	9.00	-49	5.5
10:05	.2	.3	6.91	27.88	6.58	0.991	7.42	-70	3.6
10:10	.2	.4	6.90	27.72	6.51	0.812	7.02	-89	1.9
10:15	.2	.5	6.89	27.38	6.47	0.816	6.95	-99	1.5
10:20	.2	.6	6.89	27.22	6.42	0.809	6.65	-109	0.0
10:25	.2	.7	6.88	27.40	6.40	0.804	6.09	-105	0.0

Purging was completed based on: stabilization of water quality parameters removal of three well volumes removal of at least one half well volume (low yield well)

Bottles Collected				Filtration (10µm / 45µm)	Preserved (type)	Notes and Observations (quality control sample, other)
Time	Volume	Composition (G / P)	No.	<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered		
10:25		P	6	<input type="checkbox"/> filtered <input type="checkbox"/> unfiltered		clear

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader

 Tim McSpadden
name


signature

WG 1620 MW0920200715 10:25

Groundwater Sample Collection

Page ___ of ___

Project/Phase	19110232	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	7.48	ft. BMP
Site Location	HWPW		<input type="checkbox"/> Decon between locations	Casing Stickup	1'	ft.
Date	7-16-20	Reference Point	<input checked="" type="checkbox"/> Top of casing	Depth to Water	7.48	ft. BGL
MW ID	MW P11	Location	<input type="checkbox"/> Other _____	Total MW Depth	42.70	ft. BGL
Sample ID	WG1620 MW P11 20200716	Water Quality		MW Diameter	2"	inches
Pump	<input type="checkbox"/> Watera <input type="checkbox"/> Submersible	Meter Model	C1108	MW Volume	5.63	gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	P1115	Pump Intake Depth	32.	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C) <input type="checkbox"/> NM	pH <input type="checkbox"/> NM	Conductivity (µS/m or mS/cm) <input type="checkbox"/> not measured	Dissolved Oxygen (mg/L) <input type="checkbox"/> not measured	Redox Potential (mV) <input type="checkbox"/> not measured	Turbidity (NTU) <input type="checkbox"/> NM
10:00	.2	.2	7.48	28.51	6.65	1.31	4.22	-124	0.1
10:10	.2	.3	7.72	28.68	6.65	1.28	2.01	-122	0.0
10:15	.2	.4	7.69	28.44	6.61	1.27	1.67	-109	0.0
10:20	.2	.5	7.66	28.08	6.59	1.28	1.24	-90	0.0
10:25	.2	.6		27.87	6.55	1.29	0.92	-59	0.0

Purging was completed based on: stabilization of water quality parameters removal of three well volumes removal of at least one half well volume (low yield well)

Bottles Collected				Filtration	Preserved	Notes and Observations
Time	Volume	Composition (G / P)	No.	(10µm / 45µm)	(type)	(quality control sample, other)
10:25				<input type="checkbox"/> filtered <input type="checkbox"/> unfiltered		
				<input type="checkbox"/> filtered <input type="checkbox"/> unfiltered		

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection

Field Team Leader

 name Tim Mesquida

 signature [Signature]

WG1620 MW P11 20200716 - 10:25

Groundwater Sample Collection

Page ___ of ___

Project/Phase	19119232	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	8.81	ft. BMP
Site Location	HWPW		<input type="checkbox"/> Decon between locations	Casing Stickup	3'	ft.
Date	7-17-20	Reference Point	<input checked="" type="checkbox"/> Top of casing	Depth to Water	8.81	ft. BGL
MW ID	MW 12A	Location	<input type="checkbox"/> Other _____	Total MW Depth	30.30	ft. BGL
Sample ID	WG-1620 MW 12A 20200717	Water Quality		MW Diameter	2"	inches
Pump	<input type="checkbox"/> Watterra <input type="checkbox"/> Submersible	Meter Model	C1108	MW Volume	343	gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	P1115	Pump Intake Depth	29.0	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C) <input type="checkbox"/> NM	pH <input type="checkbox"/> NM	Conductivity (µS/m or mS/cm) <input type="checkbox"/> not measured	Dissolved Oxygen (mg/L) <input type="checkbox"/> not measured	Redox Potential (mV) <input type="checkbox"/> not measured	Turbidity (NTU) <input type="checkbox"/> NM
9:40	.2	.2	8.81	25.87	6.81	0.697	2.88	-115	339
9:50	.2	.3	9.04	25.73	6.60	0.683	1.59	-128	213
9:55	.2	.4	9.03	25.87	6.32	0.668	1.22	-134	7.68
10:00	.2	.5	8.99	25.84	6.47	0.664	1.03	-143	67.1
10:05	.2	.6	8.99	25.80	6.46	0.662	0.88	-148	48.4
10:10	.2	.7	8.97	25.84	6.44	0.661	0.80	-152	30.2

Purging was completed based on: stabilization of water quality parameters removal of three well volumes removal of at least one half well volume (low yield well)

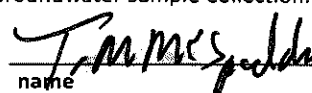
71.8

Bottles Collected				Filtration	Preserved	Notes and Observations
Time	Volume	Composition (G / P)	No.	(10µm / 45µm)	(type)	(quality control sample, other)
10:10		P	6	<input checked="" type="checkbox"/> filtered <input type="checkbox"/> unfiltered		clear
				<input type="checkbox"/> filtered <input type="checkbox"/> unfiltered		

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

 Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader




WG-1620 MW 12A 20200717 - 10:10
 WG-1620 FB 04 20200717 - 11:30

Groundwater Sample Collection

Project/Phase	19119232	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	6.61	ft. BMP
Site Location	HWPW Houston		<input type="checkbox"/> Decon between locations	Casing Stickup	3.0	ft.
Date	7-29-20	Reference Point	<input checked="" type="checkbox"/> Top of casing	Depth to Water	6.61	ft. BGL
MW ID	MW 12B	Location	<input type="checkbox"/> Other _____	Total MW Depth	44.0	ft. BGL
Sample ID	WA1620MW12B20200729	Water Quality		MW Diameter	2 1/2	inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	C1108	MW Volume		gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	P1115	Pump Intake Depth	32	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C) <input type="checkbox"/> NM	pH <input type="checkbox"/> NM	Conductivity (µS/m or mS/cm) <input type="checkbox"/> not measured	Dissolved Oxygen (mg/L) <input type="checkbox"/> not measured	Redox Potential (mV) <input type="checkbox"/> not measured	Turbidity (NTU) <input type="checkbox"/> NM
9:35	.2	.2	6.61	29.50	6.36	1.21	1.96	-129	86.4
9:45	.2	.3	7.22	29.30	6.35	1.21	1.24	-131	79.4
9:50	.2	.4	7.24	29.31	6.33	1.21	0.91	-133	79.5
9:55	.2	.5	7.28	29.37	6.32	1.21	0.73	-134	78.4
Purging was completed based on: <input checked="" type="checkbox"/> stabilization of water quality parameters <input type="checkbox"/> removal of three well volumes <input type="checkbox"/> removal of at least one half well volume (low yield well)									

Bottles Collected				Filtration	Preserved	Notes and Observations
Time	Volume	Composition (G / P)	No.	(10µm / 45µm) <input checked="" type="checkbox"/> filtered <input type="checkbox"/> unfiltered	(type)	(quality control sample, other)
9:55		P	6	<input type="checkbox"/> filtered <input type="checkbox"/> unfiltered		clear

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

 Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader

 name T. McSpaul

 signature T. McSpaul

WA1620 MW 12B 20200729 - 9:55

Groundwater Sample Collection

Page ___ of ___



Project/Phase	19119232	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	24.71	ft. BMP
Site Location	HWPW		<input type="checkbox"/> Decon between locations	Casing Stickup	3'	ft.
Date	7-17-20	Reference Point	<input checked="" type="checkbox"/> Top of casing	Depth to Water	24.71	ft. BGL
MW ID	MW 12C	Location	<input type="checkbox"/> Other _____	Total MW Depth	75.55	ft. BGL
Sample ID	WG1820MW12C20200717	Water Quality		MW Diameter	2"	inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	CL108	MW Volume	8.73	gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	P1115	Pump Intake Depth	35.0	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C)	pH	Conductivity (µS/m or mS/cm)	Dissolved Oxygen (mg/L)	Redox Potential (mV)	Turbidity (NTU)
10:30	.2	.3	24.71	26.71	7.99	0.740	1.59	-266	63.1
10:35	.2	.3	25.11	26.86	8.12	0.745	1.17	-250	201
10:40	.2	.4	25.11	26.99	8.14	0.749	1.25	-247	30.5
Rain									
Purging was completed based on: <input type="checkbox"/> stabilization of water quality parameters <input type="checkbox"/> removal of three well volumes <input type="checkbox"/> removal of at least one half well volume (low yield well)									

Bottles Collected				Filtration	Preserved	Notes and Observations
Time	Volume	Composition (G / P)	No.	(10µm / 45µm)	(type)	(quality control sample, other)
1040		P	6	<input checked="" type="checkbox"/> filtered <input type="checkbox"/> unfiltered		chem
				<input type="checkbox"/> filtered <input type="checkbox"/> unfiltered		

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader Jim M. Spalding J. M. Spalding
 name signature

WG 1820 MW 12C 20200717 10:40

Groundwater Sample Collection



Project/Phase	<u>19119232</u>	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	<u>10.26</u> ft. BMP
Site Location	<u>UPRR-HWPW</u>		<input type="checkbox"/> Decon between locations	Casing Stickup	<u>-</u> ft.
Date	<u>7-15-20</u>	Reference Point	<input checked="" type="checkbox"/> Top of casing	<input type="checkbox"/> Depth to Water	<u>10.26</u> ft. BGL
MW ID	<u>MW13</u>	Location	Other _____	Total MW Depth	<u>26.15</u> ft. BGL
Sample ID	<u>WG-1620-MW13-20180715</u>	Water Quality		MW Diameter	<u>2.0</u> inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	<u>HORIBA</u>	MW Volume	<u>1</u> gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	<u>U-50</u>	Pump Intake Depth	<u>1</u> ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C)	pH	Conductivity (µS/m or mS/cm)	Dissolved Oxygen (mg/L)	Redox Potential (mV)	Turbidity (NTU)
1109				<input type="checkbox"/> NM	<input type="checkbox"/> NM	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> NM
1119	<u>.3</u>	<u>/</u>	<u>10.46</u>	<u>21.6</u>	<u>6.79</u>	<u>613</u>	<u>0.56</u>	<u>-26</u>	<u>7.4</u>
1124	<u>↓</u>	<u>/</u>	<u>10.48</u>	<u>21.7</u>	<u>6.71</u>	<u>629</u>	<u>0.29</u>	<u>-20</u>	<u>5.7</u>
1129	<u>↓</u>	<u>/</u>	<u>10.48</u>	<u>21.7</u>	<u>6.72</u>	<u>626</u>	<u>0.34</u>	<u>-21</u>	<u>6.2</u>
Purging was completed based on: <input checked="" type="checkbox"/> stabilization of water quality parameters <input type="checkbox"/> removal of three well volumes <input type="checkbox"/> removal of at least one half well volume (low yield well)									

Bottles Collected				Filtration (10µm / 45µm)	Preserved (type)	Notes and Observations (quality control sample, other)
Time	Volume	Composition (G / P)	No.			
<u>1140</u>	<u>60ML</u>	<u>P</u>	<u>1</u>	<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HNO3</u>	<u>METALS</u>
<u>1140</u>	<u>40ML / IL</u>	<u>G/G</u>		<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HCL / NONE</u>	<u>VOCS / SVOCS</u>

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader JOHN BRAYTON name John Brayton signature

Groundwater Sample Collection



Project/Phase	<u>19119232</u>	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	<u>9.32</u> ft. BMP
Site Location	<u>UPRR-HWPW</u>		<input type="checkbox"/> Decon between locations	Casing Stickup	<u>-</u> ft.
Date	<u>7-15-20</u>	Reference Point	<input checked="" type="checkbox"/> Top of casing	<input type="checkbox"/> Depth to Water	<u>9.32</u> ft. BGL
MW ID	<u>MW14</u>	Location	Other _____	Total MW Depth	<u>45.05</u> ft. BGL
Sample ID	<u>WG-1620-MW14-20200715</u>	Water Quality		MW Diameter	<u>2.0</u> inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	<u>HORIBA</u>	MW Volume	<u>1</u> gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	<u>U-50</u>	Pump Intake Depth	<u>1</u> ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C) <input type="checkbox"/> NM	pH <input type="checkbox"/> NM	Conductivity (µS/m or mS/cm) <input type="checkbox"/> not measured	Dissolved Oxygen (mg/L) <input type="checkbox"/> not measured	Redox Potential (mV) <input type="checkbox"/> not measured	Turbidity (NTU) <input type="checkbox"/> NM
1016	↓	/	9.51	24.1	6.86	729	0.79	-12	11
1026	↓	/	9.53	24.2	6.82	707	0.60	-12	6.2
1031	↓	/	9.53	24.2	6.81	717	0.61	-13	7.1
1036	↓	/							
Purging was completed based on:		<input checked="" type="checkbox"/> stabilization of water quality parameters <input type="checkbox"/> removal of three well volumes <input type="checkbox"/> removal of at least one half well volume (low yield well)							

Bottles Collected				Filtration (10µm / 45µm)	Preserved (type)	Notes and Observations (quality control sample, other)
Time	Volume	Composition (G / P)	No.			
1045	60mL	P	1	<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	HNO ₃	METALS
1045	40mL / 1L	G/G		<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	HCL / NONE	VOCS / SVOCS

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader JOHN BRAYTON name John Brayton signature

Groundwater Sample Collection



Project/Phase	<u>19119232</u>	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	<u>9.41</u>	ft. BMP
Site Location	<u>UPRR-HWPW</u>		<input type="checkbox"/> Decon between locations	Casing Stickup	<u>-</u>	ft.
Date	<u>7-14-20</u>	Reference Point	<input checked="" type="checkbox"/> Top of casing	<input type="checkbox"/> Depth to Water	<u>9.41</u>	ft. BGL
MW ID	<u>MW15A</u>	Location	Other _____	Total MW Depth	<u>29.85</u>	ft. BGL
Sample ID	<u>WG-1620-MW15A-2000714</u>	Water Quality		MW Diameter	<u>2.0</u>	inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	<u>HORIBA</u>	MW Volume	<u>1</u>	gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	<u>U-50</u>	Pump Intake Depth	<u>1</u>	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C)	pH	Conductivity (µS/m or mS/cm)	Dissolved Oxygen (mg/L)	Redox Potential (mV)	Turbidity (NTU)
0851				<input type="checkbox"/> NM	<input type="checkbox"/> NM	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> NM
0901	<u>1.2</u>	<u>/</u>	<u>9.79</u>	<u>25.4</u>	<u>6.34</u>	<u>1230</u>	<u>0.91</u>	<u>-21</u>	<u>4.7</u>
0906	<u>↓</u>	<u>/</u>	<u>9.82</u>	<u>25.1</u>	<u>6.28</u>	<u>1270</u>	<u>0.71</u>	<u>-15</u>	<u>2.6</u>
0911	<u>↓</u>	<u>/</u>	<u>9.83</u>	<u>25.1</u>	<u>6.29</u>	<u>1260</u>	<u>0.72</u>	<u>-16</u>	<u>3.4</u>
Purging was completed based on: <input checked="" type="checkbox"/> stabilization of water quality parameters <input type="checkbox"/> removal of three well volumes <input type="checkbox"/> removal of at least one half well volume (low yield well)									

Bottles Collected				Filtration (10µm / 45µm)	Preserved (type)	Notes and Observations (quality control sample, other)
Time	Volume	Composition (G / P)	No.			
<u>0925</u>	<u>60mL</u>	<u>P</u>	<u>1</u>	<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HNO3</u>	<u>METALS</u>
<u>0925</u>	<u>40mL / 1L</u>	<u>G/G</u>		<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HCL / NONE</u>	<u>VOCS / SVOCS</u>

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader JOHN BRAYTON name John Brayton signature

Groundwater Sample Collection



Project/Phase	<u>19119232</u>	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	<u>9.15</u>	ft. BMP
Site Location	<u>UPRR-HWPW</u>		<input type="checkbox"/> Decon between locations	Casing Stickup	<u>-</u>	ft.
Date	<u>7-14-20</u>	Reference Point	<input checked="" type="checkbox"/> Top of casing	<input type="checkbox"/> Depth to Water	<u>9.15</u>	ft. BGL
MW ID	<u>MW15B</u>	Location	Other _____	Total MW Depth	<u>40.70</u>	ft. BGL
Sample ID	<u>WG-1620-MW15B-20100714</u>	Water Quality		MW Diameter	<u>2.0</u>	inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	<u>HORIBA</u>	MW Volume	<u>1</u>	gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	<u>U-50</u>	Pump Intake Depth	<u>1</u>	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C)	pH	Conductivity (µS/m or mS/cm)	Dissolved Oxygen (mg/L)	Redox Potential (mV)	Turbidity (NTU)
1022				<input type="checkbox"/> NM	<input type="checkbox"/> NM	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> NM
1031	<u>.2</u>	<u>/</u>	<u>9.46</u>	<u>24.7</u>	<u>6.31</u>	<u>1220</u>	<u>0.96</u>	<u>-12</u>	<u>5.8</u>
1037	<u>↓</u>	<u>/</u>	<u>9.44</u>	<u>25.2</u>	<u>6.28</u>	<u>1270</u>	<u>0.71</u>	<u>-16</u>	<u>3.2</u>
1043	<u>↓</u>	<u>/</u>	<u>9.43</u>	<u>25.1</u>	<u>6.29</u>	<u>1260</u>	<u>0.72</u>	<u>-16</u>	<u>3.4</u>
Purging was completed based on: <input checked="" type="checkbox"/> stabilization of water quality parameters <input type="checkbox"/> removal of three well volumes <input type="checkbox"/> removal of at least one half well volume (low yield well)									

Bottles Collected				Filtration (10µm / 45µm)	Preserved (type)	Notes and Observations (quality control sample, other)
Time	Volume	Composition (G / P)	No.			
1055	<u>60ML</u>	<u>P</u>	<u>1</u>	<input type="checkbox"/> filtered <input type="checkbox"/> unfiltered	<u>HNO3</u>	<u>METALS</u>
1055	<u>40ML / 1L</u>	<u>G/G</u>		<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HCL / NONE</u>	<u>VOCS / SVOCS</u>

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader JOHN BRAYTON name John Brayton signature

Groundwater Sample Collection



Project/Phase	<u>19119232</u>	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	<u>23.09</u>	ft. BMP
Site Location	<u>UPRR-HWPW</u>		<input type="checkbox"/> Decon between locations	Casing Stickup	<u>-</u>	ft.
Date	<u>7-14-20</u>	Reference Point	<input checked="" type="checkbox"/> Top of casing	<input type="checkbox"/> Depth to Water	<u>23.09</u>	ft. BGL
MW ID	<u>MW15C</u>	Location	Other _____	Total MW Depth	<u>74.60</u>	ft. BGL
Sample ID	<u>WG-162D-MW15C-20200114</u>	Water Quality		MW Diameter	<u>2.0</u>	inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	<u>HORIBA</u>	MW Volume	<u>1</u>	gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	<u>U-50</u>	Pump Intake Depth	<u>1</u>	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C)	pH	Conductivity (µS/m or mS/cm)	Dissolved Oxygen (mg/L)	Redox Potential (mV)	Turbidity (NTU)
0937				<input type="checkbox"/> NM	<input type="checkbox"/> NM	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> NM
0947	<u>.2</u>	<u>/</u>	<u>23.31</u>	<u>23.6</u>	<u>6.91</u>	<u>1160</u>	<u>2.13</u>	<u>-16</u>	<u>6.7</u>
0952	<u>↓</u>	<u>/</u>	<u>23.32</u>	<u>23.1</u>	<u>6.85</u>	<u>1140</u>	<u>1.71</u>	<u>-11</u>	<u>7.1</u>
0957	<u>↓</u>	<u>/</u>	<u>23.31</u>	<u>23.2</u>	<u>6.86</u>	<u>1150</u>	<u>1.76</u>	<u>-12</u>	<u>7.2</u>
Purging was completed based on: <input checked="" type="checkbox"/> stabilization of water quality parameters <input type="checkbox"/> removal of three well volumes <input type="checkbox"/> removal of at least one half well volume (low yield well)									

Bottles Collected				Filtration	Preserved	Notes and Observations
Time	Volume	Composition (G / P)	No.	(10µm / 45µm)	(type)	(quality control sample, other)
<u>1010</u>	<u>60ML</u>	<u>P</u>	<u>1</u>	<input type="checkbox"/> filtered <input type="checkbox"/> unfiltered	<u>HNO3</u>	<u>METALS</u>
<u>1010</u>	<u>40ML/1L</u>	<u>G/G</u>		<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HCL / NONE</u>	<u>VOCS / SVOCS</u>

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader JOHN BRAYTON name John Brayton signature

Groundwater Sample Collection



Project/Phase	<u>19119232</u>	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	<u>11.26</u> ft. BMP
Site Location	<u>UPRR-HWPW</u>		<input type="checkbox"/> Decon between locations	Casing Stickup	<u>-</u> ft.
Date	<u>7-14-20</u>	Reference Point	<input checked="" type="checkbox"/> Top of casing	<input type="checkbox"/> Depth to Water	<u>11.26</u> ft. BGL
MW ID	<u>MW17</u>	Location	Other _____	Total MW Depth	<u>32.90</u> ft. BGL
Sample ID	<u>WG-162D-MW17 - 20200714</u>	Water Quality		MW Diameter	<u>2.0</u> inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	<u>HORIBA</u>	MW Volume	<u>1</u> gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	<u>U-50</u>	Pump Intake Depth	<u>1</u> ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C)	pH	Conductivity (µS/m or mS/cm)	Dissolved Oxygen (mg/L)	Redox Potential (mV)	Turbidity (NTU)
<u>1618</u>				<input type="checkbox"/> NM	<input type="checkbox"/> NM	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> NM
<u>1628</u>	<u>.2</u>	<u>/</u>	<u>11.59</u>	<u>24.4</u>	<u>6.56</u>	<u>729</u>	<u>0.81</u>	<u>-42</u>	<u>16</u>
<u>1634</u>	<u>↓</u>	<u>/</u>	<u>11.61</u>	<u>24.7</u>	<u>6.52</u>	<u>711</u>	<u>0.70</u>	<u>-32</u>	<u>17</u>
<u>1638</u>	<u>↓</u>	<u>/</u>	<u>11.61</u>	<u>24.6</u>	<u>6.52</u>	<u>712</u>	<u>0.71</u>	<u>-34</u>	<u>17</u>

Purging was completed based on: stabilization of water quality parameters removal of three well volumes removal of at least one half well volume (low yield well)

Bottles Collected				Filtration	Preserved	Notes and Observations
Time	Volume	Composition (G / P)	No.	(10µm / 45µm)	(type)	(quality control sample, other)
<u>1650</u>	<u>60mL</u>	<u>P</u>	<u>1</u>	<input type="checkbox"/> filtered <input type="checkbox"/> unfiltered	<u>HNO3</u>	<u>METALS</u>
<u>1650</u>	<u>40mL / 1L</u>	<u>G/G</u>		<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HCL / NONE</u>	<u>VOCS / SVOCs</u>

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader JOHN BRAYTON
name

John Brayton
signature

Groundwater Sample Collection



Project/Phase	<u>19119232</u>	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	<u>22.92</u>	ft. BMP
Site Location	<u>UPRR - HWPW</u>		<input type="checkbox"/> Decon between locations	Casing Stickup	<u>-</u>	ft.
Date	<u>7-14-20</u>	Reference Point	<input checked="" type="checkbox"/> Top of casing	<input type="checkbox"/> Depth to Water	<u>22.92</u>	ft. BGL
MW ID	<u>MW17C</u>	Location	Other _____	Total MW Depth	<u>75.30</u>	ft. BGL
Sample ID	<u>WG-1620-MW17C-20A00714</u>	Water Quality		MW Diameter	<u>2.0</u>	inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	<u>HORIBA</u>	MW Volume	<u>1</u>	gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	<u>U-50</u>	Pump Intake Depth	<u>1</u>	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C)	pH	Conductivity (µS/m or mS/cm)	Dissolved Oxygen (mg/L)	Redox Potential (mV)	Turbidity (NTU)
<u>1704</u>	<u>1.2</u>	<u>/</u>	<u>23.19</u>	<u>24.6</u>	<u>6.56</u>	<u>1210</u>	<u>0.92</u>	<u>-61</u>	<u>31</u>
<u>1719</u>	<u>↓</u>	<u>/</u>	<u>23.21</u>	<u>24.2</u>	<u>6.59</u>	<u>1210</u>	<u>0.84</u>	<u>-70</u>	<u>22</u>
<u>1724</u>	<u>↓</u>	<u>/</u>	<u>23.20</u>	<u>24.1</u>	<u>6.59</u>	<u>1220</u>	<u>0.86</u>	<u>-71</u>	<u>26</u>
Purging was completed based on:		<input checked="" type="checkbox"/> stabilization of water quality parameters <input type="checkbox"/> removal of three well volumes <input type="checkbox"/> removal of at least one half well volume (low yield well)							

Bottles Collected				Filtration	Preserved	Notes and Observations
Time	Volume	Composition (G / P)	No.	(10µm / 45µm)	(type)	(quality control sample, other)
<u>1740</u>	<u>60ML</u>	<u>P</u>	<u>1</u>	<input checked="" type="checkbox"/> filtered <input type="checkbox"/> unfiltered	<u>HNO3</u>	<u>METALS</u>
<u>1740</u>	<u>40ML / IL</u>	<u>G/G</u>		<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HCL / NONE</u>	<u>VOCS / SVOCS</u>

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader JOHN BRAYTON
 name _____ signature John Brayton

Groundwater Sample Collection



Project/Phase	<u>19119232</u>	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	<u>16.41</u>	ft. BMP
Site Location	<u>UPRR - HWPW</u>		<input type="checkbox"/> Decon between locations	Casing Stickup	<u>-</u>	ft.
Date	<u>7-14-20</u>	Reference Point	<input checked="" type="checkbox"/> Top of casing	<input type="checkbox"/> Depth to Water	<u>16.41</u>	ft. BGL
MW ID	<u>MW18A</u>	Location	Other _____	Total MW Depth	35.95	ft. BGL
Sample ID	<u>WG-1620-MW18A-20200714</u>	Water Quality		MW Diameter	<u>2.0</u>	inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	<u>HORIBA</u>	MW Volume	<u>1</u>	gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	<u>U-50</u>	Pump Intake Depth	<u>1</u>	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C)	pH	Conductivity (µS/m or mS/cm)	Dissolved Oxygen (mg/L)	Redox Potential (mV)	Turbidity (NTU)
<u>1427</u>	<u>1.2</u>	<u>/</u>	<u>16.72</u>	<u>23.6</u>	<u>6.81</u>	<u>1030</u>	<u>0.92</u>	<u>-31</u>	<u>6.1</u>
<u>1441</u>	<u>↓</u>	<u>/</u>	<u>16.74</u>	<u>23.9</u>	<u>6.84</u>	<u>1060</u>	<u>0.72</u>	<u>-34</u>	<u>4.7</u>
<u>1448</u>	<u>↓</u>	<u>/</u>	<u>16.74</u>	<u>23.9</u>	<u>6.84</u>	<u>1070</u>	<u>0.74</u>	<u>-34</u>	<u>4.9</u>
Purging was completed based on:		<input checked="" type="checkbox"/> stabilization of water quality parameters <input type="checkbox"/> removal of three well volumes <input type="checkbox"/> removal of at least one half well volume (low yield well)							

Bottles Collected				Filtration	Preserved	Notes and Observations
Time	Volume	Composition (G / P)	No.	(10µm / 45µm)	(type)	(quality control sample, other)
<u>1500</u>	<u>60ML</u>	<u>P</u>	<u>1</u>	<input type="checkbox"/> filtered <input type="checkbox"/> unfiltered	<u>HNO3</u>	<u>METALS</u>
<u>1500</u>	<u>40ML / 1L</u>	<u>G/G</u>		<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HCL / NONE</u>	<u>VOCS / SVOCs</u>

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader JOHN BRAYTON
name

John Brayton
signature

Groundwater Sample Collection



Project/Phase	<u>19119232</u>	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	<u>23.41</u>	ft. BMP
Site Location	<u>UPRR-HWPW</u>		<input type="checkbox"/> Decon between locations	Casing Stickup	<u>-</u>	ft.
Date	<u>7-14-20</u>	Reference Point	<input checked="" type="checkbox"/> Top of casing	<input type="checkbox"/> Depth to Water	<u>23.41</u>	ft. BGL
MW ID	<u>MW18C</u>	Location	Other _____	Total MW Depth	<u>61.80</u>	ft. BGL
Sample ID	<u>WG-162D-MW18C-20200714</u>	Water Quality		MW Diameter	<u>2.0</u>	inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	<u>HORIBA</u>	MW Volume	<u>1</u>	gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	<u>U-50</u>	Pump Intake Depth	<u>1</u>	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C)	pH	Conductivity (µS/m or mS/cm)	Dissolved Oxygen (mg/L)	Redox Potential (mV)	Turbidity (NTU)
1519				<input type="checkbox"/> NM	<input type="checkbox"/> NM	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> NM
1528	<u>.2</u>	<u>/</u>	<u>23.76</u>	<u>25.1</u>	<u>6.47</u>	<u>1120</u>	<u>0.91</u>	<u>-11</u>	<u>13</u>
1534	<u>↓</u>	<u>/</u>	<u>23.77</u>	<u>25.2</u>	<u>6.41</u>	<u>1130</u>	<u>0.59</u>	<u>-17</u>	<u>9.2</u>
1539	<u>↓</u>	<u>/</u>	<u>23.76</u>	<u>25.2</u>	<u>6.42</u>	<u>1120</u>	<u>0.61</u>	<u>-21</u>	<u>9.9</u>

Purging was completed based on: stabilization of water quality parameters removal of three well volumes removal of at least one half well volume (low yield well)

Bottles Collected				Filtration	Preserved	Notes and Observations
Time	Volume	Composition (G / P)	No.	(10µm / 45µm)	(type)	(quality control sample, other)
<u>1550</u>	<u>60ML</u>	<u>P</u>	<u>1</u>	<input type="checkbox"/> filtered <input type="checkbox"/> unfiltered	<u>HNO3</u>	<u>METALS</u>
<u>1550</u>	<u>40ML / IL</u>	<u>G/G</u>		<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HCL / NONE</u>	<u>VOCS / SVOCS</u>

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader JOHN BRAYTON
name

John Brayton
signature

Groundwater Sample Collection



Project/Phase	<u>19119232</u>	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	<u>25.57</u>	ft. BMP
Site Location	<u>UPRR-HWPW</u>		<input type="checkbox"/> Decon between locations	Casing Stickup	<u> </u>	ft.
Date	<u>7-14-20</u>	Reference Point	<input checked="" type="checkbox"/> Top of casing	<input type="checkbox"/> Depth to Water	<u>25.57</u>	ft. BGL
MW ID	<u>MW19C</u>	Location	Other <u> </u>	Total MW Depth	<u>75.30</u>	ft. BGL
Sample ID	<u>WG-1620-MW19C-20200714</u>	Water Quality		MW Diameter	<u>2.0</u>	inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	<u>HDR15A</u>	MW Volume	<u>1</u>	gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	<u>U-50</u>	Pump Intake Depth	<u>1</u>	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C)	pH	Conductivity (µS/m or mS/cm)	Dissolved Oxygen (mg/L)	Redox Potential (mV)	Turbidity (NTU)
1109				<input type="checkbox"/> NM	<input type="checkbox"/> NM	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> NM
1119	<u>.2</u>	<u>/</u>	<u>25.81</u>	<u>24.3</u>	<u>6.63</u>	<u>1140</u>	<u>0.91</u>	<u>-71</u>	<u>6.2</u>
1124	<u>↓</u>	<u>/</u>	<u>25.84</u>	<u>24.8</u>	<u>6.61</u>	<u>1160</u>	<u>0.71</u>	<u>-61</u>	<u>4.9</u>
1129	<u>↓</u>	<u>/</u>	<u>25.83</u>	<u>24.7</u>	<u>6.59</u>	<u>1170</u>	<u>0.72</u>	<u>-62</u>	<u>5.6</u>
Purging was completed based on: <input checked="" type="checkbox"/> stabilization of water quality parameters <input type="checkbox"/> removal of three well volumes <input type="checkbox"/> removal of at least one half well volume (low yield well)									

Bottles Collected				Filtration (10µm / 45µm)	Preserved (type)	Notes and Observations (quality control sample, other)
Time	Volume	Composition (G / P)	No.			
<u>1140</u>	<u>60mL</u>	<u>P</u>	<u>1</u>	<input type="checkbox"/> filtered <input type="checkbox"/> unfiltered	<u>HNO₃</u>	<u>METALS</u>
<u>1140</u>	<u>40mL / 1L</u>	<u>G / G</u>		<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HCL / NONE</u>	<u>VOCS / SVOCS</u>

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader JOHN BRAYTON name John Brayton signature

Groundwater Sample Collection



Project/Phase	<u>19119232</u>	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	<u>8.95</u> ft. BMP
Site Location	<u>UPRR-HWPW</u>		<input type="checkbox"/> Decon between locations	Casing Stickup	<u>-</u> ft.
Date	<u>7-14-20</u>	Reference Point	<input checked="" type="checkbox"/> Top of casing	<input type="checkbox"/> Depth to Water	<u>8.95</u> ft. BGL
MW ID	<u>MW20A</u>	Location	Other _____	Total MW Depth	<u>28.15</u> ft. BGL
Sample ID	<u>WG-162D-MW20A-20090714</u>	Water Quality		MW Diameter	<u>2.0</u> inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	<u>HORIBA</u>	MW Volume	<u>-</u> gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	<u>U-50</u>	Pump Intake Depth	<u>-</u> ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C)	pH	Conductivity (µS/m or mS/cm)	Dissolved Oxygen (mg/L)	Redox Potential (mV)	Turbidity (NTU)
<u>0806</u>	<u>1.2</u>	<u>/</u>	<u>9.41</u>	<u>24.6</u>	<u>6.47</u>	<u>796</u>	<u>1.41</u>	<u>-101</u>	<u>6.3</u>
<u>0821</u>	<u>↓</u>	<u>/</u>	<u>9.43</u>	<u>24.7</u>	<u>6.49</u>	<u>784</u>	<u>1.29</u>	<u>-96</u>	<u>7.1</u>
<u>0826</u>	<u>↓</u>	<u>/</u>	<u>9.43</u>	<u>24.7</u>	<u>6.47</u>	<u>788</u>	<u>1.37</u>	<u>-97</u>	<u>9.2</u>
Purging was completed based on:		<input checked="" type="checkbox"/> stabilization of water quality parameters <input type="checkbox"/> removal of three well volumes <input type="checkbox"/> removal of at least one half well volume (low yield well)							

Bottles Collected				Filtration	Preserved	Notes and Observations
Time	Volume	Composition (G / P)	No.	(10µm / 45µm)	(type)	(quality control sample, other)
<u>0835</u>	<u>60ML</u>	<u>P</u>	<u>1</u>	<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HNO3</u>	<u>METALS</u>
<u>0835</u>	<u>40ML / 1L</u>	<u>G/G</u>		<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HCL / NONE</u>	<u>VOCS / SVOCS</u>

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader JOHN BRAYTON name John Brayton signature

Groundwater Sample Collection

Project/Phase	19119232	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	23.59	ft. BMP
Site Location	HWPW		<input type="checkbox"/> Decon between locations	Casing Stickup	3	ft.
Date	7-16-20	Reference Point	<input checked="" type="checkbox"/> Top of casing	Depth to Water	23.59	ft. BGL
MW ID	MW21C	Location	<input type="checkbox"/> Other _____	Total MW Depth	74.65	ft. BGL
Sample ID	WG-1620-MW21C-2020-0716	Water Quality		MW Diameter	2"	inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	C1108	MW Volume	8.16	gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	P1115	Pump Intake Depth	21.0	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C)	pH	Conductivity (µS/m or mS/cm)	Dissolved Oxygen (mg/L)	Redox Potential (mV)	Turbidity (NTU)
				<input type="checkbox"/> NM	<input type="checkbox"/> NM	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> NM
8:15	.2	.2	23.59	24.60	5.74	1.25	3.40	4	278
8:20	.2	.3	24.41	24.63	5.89	1.23	2.61	-32	234
8:25	.2	.4	24.29	24.50	6.02	1.23	1.74	-83	1.68
8:30	.2	.5	24.21	24.42	6.11	1.23	1.21	-98	147
8:35	.2	.6	24.19	24.37	6.12	1.23	1.04	-104	116
8:40	.2	.7	24.19	24.34	6.14	1.23	0.81	-110	133

Purging was completed based on: stabilization of water quality parameters removal of three well volumes removal of at least one half well volume (low yield well)

Bottles Collected				Filtration	Preserved	Notes and Observations
Time	Volume	Composition (G / P)	No.	(10µm / 45µm)	(type)	(quality control sample, other)
8:40		P	6	<input checked="" type="checkbox"/> filtered <input type="checkbox"/> unfiltered		clear
8:40	DUP	P	6	<input checked="" type="checkbox"/> filtered <input type="checkbox"/> unfiltered		clear

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

 Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

 Field Team Leader Tim McSpaldie T. McSpaldie
 name signature

 WG-1620-MW21C-2020-0716 - 8:40
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Groundwater Sample Collection

Page ___ of ___



Project/Phase	19169232	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	2.31	ft. BMP
Site Location	HW DW		<input type="checkbox"/> Decon between locations	Casing Stickup	0	ft.
Date	7-20-20	Reference Point	<input checked="" type="checkbox"/> Top of casing	Depth to Water	2.31	ft. BGL
MW ID	MW 22 AR	Location	<input type="checkbox"/> Other _____	Total MW Depth	19.99	ft. BGL
Sample ID	WG-1620 MW 22 AR 2020 0720	Water Quality		MW Diameter	2"	inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	C1108	MW Volume		gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	P1115	Pump Intake Depth		ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C) <input type="checkbox"/> NM	pH <input type="checkbox"/> NM	Conductivity (µS/m or mS/cm) <input type="checkbox"/> not measured	Dissolved Oxygen (mg/L) <input type="checkbox"/> not measured	Redox Potential (mV) <input type="checkbox"/> not measured	Turbidity (NTU) <input type="checkbox"/> NM
11:50	.2	.2	2.31	31.76	6.75	1.25	1.74	-117	271
12:00	.2	.3	3.68	31.71	6.60	1.26	0.81	-127	266
12:05	.2	.4	3.69	31.70	6.56	1.27	0.61	-130	248
12:10	.2	.5	3.73	31.66	6.54	1.28	0.47	-128	256
12:15	.2	.6	3.70	31.63	6.53	1.28	0.22	-131	259

Purging was completed based on: stabilization of water quality parameters removal of three well volumes removal of at least one half well volume (low yield well)

Bottles Collected				Filtration	Preserved	Notes and Observations
Time	Volume	Composition (G / P)	No.	(µm / 45µm) <input checked="" type="checkbox"/> filtered <input type="checkbox"/> unfiltered	(type)	(quality control sample, other)
12:15		P	6	<input type="checkbox"/> filtered <input type="checkbox"/> unfiltered		clear

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader T. M. McSpald name T. M. McSpald signature

WG-1620 MW 22 AR 2020 0720 - 12:15

Groundwater Sample Collection

Page ___ of ___

Project/Phase	<u>9119232</u>	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	<u>4.71</u>	ft. BMP
Site Location	<u>HUPA</u>		<input type="checkbox"/> Decon between locations	Casing Stickup	<u>0</u>	ft.
Date	<u>7-20-20</u>	Reference Point	<input checked="" type="checkbox"/> Top of casing	Depth to Water	<u>4.71</u>	ft. BGL
MW ID	<u>MW 22 BR</u>	Location	<input type="checkbox"/> Other _____	Total MW Depth	<u>37.82</u>	ft. BGL
Sample ID	<u>WG1620 MW BR 20200720</u>	Water Quality		MW Diameter	<u>2"</u>	inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	<u>C1108</u>	MW Volume		gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	<u>P1115</u>	Pump Intake Depth	<u>32.1</u>	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C) <input type="checkbox"/> NM	pH <input type="checkbox"/> NM	Conductivity (µS/m or mS/cm) <input type="checkbox"/> not measured	Dissolved Oxygen (mg/L) <input type="checkbox"/> not measured	Redox Potential (mV) <input type="checkbox"/> not measured	Turbidity (NTU) <input type="checkbox"/> NM
12:40	.2	.2	4.71	30.62	6.56	1.40	1.93	-129	32.6
12:45	.2	.3	4.89	30.23	6.49	1.36	1.01	-129	18.5
12:50	.2	.4	4.82	30.01	6.51	1.22	0.81	-129	7.2
12:55	.2	.5	4.79	30.12	6.57	1.20	0.47	-131	2.1
1:00	.2	.6	4.78	30.20	6.57	1.22	0.11	-136	0.1

Purging was completed based on: stabilization of water quality parameters removal of three well volumes removal of at least one half well volume (low yield well)

Bottles Collected				Filtration	Preserved	Notes and Observations
Time	Volume	Composition (G / P)	No.	(10µm / 45µm)	(type)	(quality control sample, other)
1:00		P	6	<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered		clean
				<input type="checkbox"/> filtered <input type="checkbox"/> unfiltered		

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader Tim McSpadden name T. McSpadden signature

WG 1620 22 BR 2020 07 20 1:00

Groundwater Sample Collection



Project/Phase	<u>19119232</u>	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	<u>26.54</u>	ft. BMP
Site Location	<u>UPRR - HWPW</u>		<input type="checkbox"/> Decon between locations	Casing Stickup	<u>-</u>	ft.
Date	<u>7-14-20</u>	Reference Point	<input checked="" type="checkbox"/> Top of casing	<input type="checkbox"/> Depth to Water	<u>26.54</u>	ft. BGL
MW ID	<u>MW23C</u>	Location	Other _____	Total MW Depth	<u>76.70</u>	ft. BGL
Sample ID	<u>WG-1620-MW23C-20200714</u>	Water Quality		MW Diameter	<u>2.0</u>	inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	<u>HORIBA</u>	MW Volume	<u>1</u>	gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	<u>U-50</u>	Pump Intake Depth	<u>1</u>	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C)	pH	Conductivity (µS/m or mS/cm)	Dissolved Oxygen (mg/L)	Redox Potential (mV)	Turbidity (NTU)
<u>1153</u>	<u>1.2</u>	<u>/</u>	<u>26.81</u>	<u>24.1</u>	<u>6.72</u>	<u>496</u>	<u>1.21</u>	<u>-72</u>	<u>17</u>
<u>1208</u>	<u>↓</u>	<u>/</u>	<u>26.80</u>	<u>24.3</u>	<u>6.75</u>	<u>461</u>	<u>1.09</u>	<u>-72</u>	<u>11</u>
<u>1213</u>	<u>↓</u>	<u>/</u>	<u>26.79</u>	<u>24.3</u>	<u>6.74</u>	<u>467</u>	<u>1.17</u>	<u>-71</u>	<u>12</u>

Purging was completed based on: stabilization of water quality parameters removal of three well volumes removal of at least one half well volume (low yield well)

Bottles Collected				Filtration	Preserved	Notes and Observations
Time	Volume	Composition (G / P)	No.	(10µm / 45µm)	(type)	(quality control sample, other)
<u>1225</u>	<u>60mL</u>	<u>P</u>	<u>1</u>	<input checked="" type="checkbox"/> filtered <input type="checkbox"/> unfiltered	<u>HNO₃</u>	<u>METALS</u>
<u>1225</u>	<u>40mL / 1L</u>	<u>G / G</u>		<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HCL / NONE</u>	<u>VOCS / SVOCS</u>

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader JOHN BRAYTON
name

John Brayton
signature

Groundwater Sample Collection



Project/Phase	<u>19119232</u>	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	<u>6.17</u>	ft. BMP
Site Location	<u>UPRR-HWPW</u>		<input type="checkbox"/> Decon between locations	Casing Stickup	<u>-</u>	ft.
Date	<u>7-22-20</u>	Reference Point	<input checked="" type="checkbox"/> Top of casing	<input type="checkbox"/> Depth to Water	<u>6.17</u>	ft. BGL
MW ID	<u>MW25A</u>	Location	Other _____	Total MW Depth	<u>28.20</u>	ft. BGL
Sample ID	<u>WG-162D-MW25A-2006722</u>	Water Quality		MW Diameter	<u>2.0</u>	inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	<u>HDR15A</u>	MW Volume	<u>1</u>	gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	<u>U-50</u>	Pump Intake Depth	<u>1</u>	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C)	pH	Conductivity (µS/m or mS/cm)	Dissolved Oxygen (mg/L)	Redox Potential (mV)	Turbidity (NTU)
0848				<input type="checkbox"/> NM	<input type="checkbox"/> NM	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> NM
0858	<u>.2</u>	<u>/</u>	<u>6.41</u>	<u>24.1</u>	<u>6.71</u>	<u>561</u>	<u>0.96</u>	<u>-41</u>	<u>21</u>
0903	<u>↓</u>	<u>/</u>	<u>6.43</u>	<u>24.2</u>	<u>6.77</u>	<u>582</u>	<u>0.80</u>	<u>-38</u>	<u>14</u>
0908	<u>↓</u>	<u>/</u>	<u>6.44</u>	<u>24.2</u>	<u>6.79</u>	<u>593</u>	<u>0.81</u>	<u>-39</u>	<u>16</u>
Purging was completed based on: <input checked="" type="checkbox"/> stabilization of water quality parameters <input type="checkbox"/> removal of three well volumes <input type="checkbox"/> removal of at least one half well volume (low yield well)									

Bottles Collected				Filtration (10µm / 45µm)	Preserved (type)	Notes and Observations (quality control sample, other)
Time	Volume	Composition (G / P)	No.			
<u>0920</u>	<u>60ML</u>	<u>P</u>	<u>1</u>	<input checked="" type="checkbox"/> filtered <input type="checkbox"/> unfiltered	<u>HNO3</u>	<u>METALS</u>
<u>0922</u>	<u>40ML / IL</u>	<u>G/G</u>		<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HCL / NONE</u>	<u>VOCS / SVOCS</u>

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader JOHN BRAYTON name John Brayton signature

Groundwater Sample Collection



Project/Phase	<u>19119232</u>	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	<u>19.29</u> ft. BMP
Site Location	<u>UPRR-HWPW</u>		<input type="checkbox"/> Decon between locations	Casing Stickup	<u>—</u> ft.
Date	<u>7-22-20</u>	Reference Point	<input checked="" type="checkbox"/> Top of casing	<input type="checkbox"/> Depth to Water	<u>19.29</u> ft. BGL
MW ID	<u>MW25C</u>	Location	Other _____	Total MW Depth	<u>—</u> ft. BGL
Sample ID	<u>WG-162D-MW25C-20190623</u>	Water Quality		MW Diameter	<u>2.0</u> inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	<u>HORIBA</u>	MW Volume	<u>1</u> gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	<u>U-50</u>	Pump Intake Depth	<u>1</u> ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C)	pH	Conductivity (µS/m or mS/cm)	Dissolved Oxygen (mg/L)	Redox Potential (mV)	Turbidity (NTU)
0934				<input type="checkbox"/> NM	<input type="checkbox"/> NM	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> NM
0944	<u>.2</u>	<u>/</u>	<u>19.47</u>	<u>25.1</u>	<u>6.67</u>	<u>1090</u>	<u>0.86</u>	<u>-40</u>	<u>4.7</u>
0949	<u>↓</u>	<u>/</u>	<u>19.51</u>	<u>25.1</u>	<u>6.62</u>	<u>1100</u>	<u>0.71</u>	<u>-41</u>	<u>3.3</u>
0954	<u>↓</u>	<u>/</u>	<u>19.52</u>	<u>25.2</u>	<u>6.63</u>	<u>1100</u>	<u>0.72</u>	<u>-41</u>	<u>3.6</u>

Purging was completed based on: stabilization of water quality parameters removal of three well volumes removal of at least one half well volume (low yield well)

Bottles Collected				Filtration (10µm / 45µm)	Preserved (type)	Notes and Observations (quality control sample, other)
Time	Volume	Composition (G / P)	No.			
<u>1010</u>	<u>60mL</u>	<u>P</u>	<u>1</u>	<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HNO3</u>	<u>METALS</u>
<u>1010</u>	<u>40mL / L</u>	<u>G/G</u>		<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HCL / NONE</u>	<u>VOCS / SVOCS</u>

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader JOHN BRAYTON name John Brayton signature

Groundwater Sample Collection

Project/Phase	19119232	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	4.38	ft. BMP
Site Location	HWPW		<input type="checkbox"/> Decon between locations	Casing Stickup	0	ft.
Date	7-27-20	Reference Point	<input checked="" type="checkbox"/> Top of casing	Depth to Water	4.38	ft. BGL
MW ID	MW 826A 26A	Location	<input type="checkbox"/> Other _____	Total MW Depth	24.60	ft. BGL
Sample ID	WG1620 MW 26A 20200727	Water Quality		MW Diameter	2"	inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	C1108	MW Volume	3.18	gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	P1115	Pump Intake Depth	22	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)


Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C) <input type="checkbox"/> NM	pH <input type="checkbox"/> NM	Conductivity (µS/m or mS/cm) <input type="checkbox"/> not measured	Dissolved Oxygen (mg/L) <input type="checkbox"/> not measured	Redox Potential (mV) <input type="checkbox"/> not measured	Turbidity (NTU) <input type="checkbox"/> NM
10:25	.2	.2	4.38	27.90	6.68	1.55	5.19	-106	49.7
10:35	.2	.3	4.52	27.40	6.65	1.57	2.33	-105	42.7
10:40	.2	.4	4.50	26.77	6.50	1.61	1.04	-103	46.2
10:45	.2	.5	4.44	26.62	6.44	1.63	0.78	-103	49.7
10:50	.2	.6	4.42	26.72	6.40	1.64	0.61	-103	43.5
10:55	.2	.7	4.38	26.76	6.39	1.65	0.58	-103	44.5

Purging was completed based on: stabilization of water quality parameters removal of three well volumes removal of at least one half well volume (low yield well)

Bottles Collected				Filtration	Preserved	Notes and Observations
Time	Volume	Composition (G / P)	No.	(10µm / 45µm) <input checked="" type="checkbox"/> filtered <input type="checkbox"/> unfiltered	(type)	(quality control sample, other)
10:55		GP	6	<input type="checkbox"/> filtered <input type="checkbox"/> unfiltered		clear

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader Tim McSpodden 

name signature

WG1620 MW 26A 20200727- 1055

GROUNDWATER SAMPLING RECORD		PAGE ___ of ___
Project Number: 19119232	Project Name: 19119232 HCU PW	Date: 8-18-20
Sampling Location (well ID, etc.): MW 27C	Starting Water Level (ft. BMP): 15.50	
Sample Number: WG1620 MW 27C 20200818	Casing Stickup (ft.): 0	
Sampled by: TIM McSpaelds	WL (ft. BMP): 15.50 (ft. BGL):	
Measuring Point (MP) of Well: TOC - Steel or PVC	TD (ft. BMP): 69.90 (ft. BGL):	
Screened Interval (ft. BGL):	Ft. water: Casing Dia. (In ID): 2 1/2	
Filter Pack Interval (ft. BGL):	1X Casing Vol (gal.): 3X (gal.):	

QUALITY ASSURANCE Gallons/Foot: 2": 0.16 4": 0.65 5.25": 1.12 6": 1.47 6.25": 1.59

METHODS (describe): Low Flow - Dedicated Tubing/Equipment
 Cleaning Equipment: DI/Alconox Rinse
 Purge: Peristaltic Pump / SS Pump / Bailer / Bladder Sampling: Peristaltic Pump / SS Pump / Bailer / Bladder
 Disposal of Discharged Water: 55 gal drum 8-18-20

INSTRUMENTS (Indicate make, model, I.d.)
 Water Level: DI1134 Other: P1118 Pump
 Multi Meter: C1130
 Field Calibration: AJTY
 Filter / Filter Size:

SAMPLING MEASUREMENTS Begin Purge:

Time	DTW (ft BTOC)	Cum. Vol. (gal. or L)	Purge Rate (gal. or L / m)	Temp. (oC)	DO (mg/L)	Spec. Cond. (us/cm)	pH	ORP (mV)	Turbidity (NTU)	Color & Sediment
13:30	15.50	.2	.2	27.83	2.61	0.717	8.23	-174	398	clear
13:40	16.37	.2	.3	27.06	0.48	0.601	8.24	-189	388	
13:45	16.21	.2	.4	28.10	0.11	0.638	8.23	-190	406	
13:50	16.24	.2	.5	28.66	0.0	0.634	8.22	-191	308	
13:55	16.29	.2	.6	28.12	0.0	0.608	8.20	-197	339	
14:00	16.36	.2	.7	28.14	0.0	0.534	8.10	-177	306	

WL (ft. BMP) at End of Purge: Sample Intake Depth (ft. BMP):

SAMPLE INVENTORY

Time	Bottles Collected			Filtration (Y/N)	Preservation (type)	Remarks (quality control sample, other)
	Volume	Composition (G, P)	No.			
1400		P	6	Yes		10 min flow

Comments:

GOLDER
 2201 Double Creek Dr., Suite 4004
 Round Rock, Texas 78664
 Phone: (512) 671-3434 Fax: (512) 671-3446

WG1620 MW 27C 2020 08 18 - 1400

Groundwater Sample Collection



Project/Phase	<u>19119232</u>	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	<u>5.79</u>	ft. BMP
Site Location	<u>UPRR-HWPW</u>		<input type="checkbox"/> Decon between locations	Casing Stickup	<u>-</u>	ft.
Date	<u>7-23-20</u>	Reference Point	<input checked="" type="checkbox"/> Top of casing	<input type="checkbox"/> Depth to Water	<u>5.79</u>	ft. BGL
MW ID	<u>MW28A</u>	Location	Other _____	Total MW Depth	<u>25.40</u>	ft. BGL
Sample ID	<u>WG-162D-MW28A-20200723</u>	Water Quality		MW Diameter	<u>2.0</u>	inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	<u>HORIBA</u>	MW Volume	<u>1</u>	gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	<u>U-50</u>	Pump Intake Depth	<u>1</u>	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C)	pH	Conductivity (µS/m or mS/cm)	Dissolved Oxygen (mg/L)	Redox Potential (mV)	Turbidity (NTU)
<u>1409</u>				<input type="checkbox"/> NM	<input type="checkbox"/> NM	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> NM
<u>1419</u>	<u>.2</u>	<u>/</u>	<u>6.07</u>	<u>23.2</u>	<u>6.46</u>	<u>613</u>	<u>1.46</u>	<u>-146</u>	<u>29</u>
<u>1424</u>	<u>↓</u>	<u>/</u>	<u>6.08</u>	<u>23.1</u>	<u>6.40</u>	<u>628</u>	<u>1.28</u>	<u>-142</u>	<u>20</u>
<u>1429</u>	<u>↓</u>	<u>/</u>	<u>6.08</u>	<u>23.1</u>	<u>6.41</u>	<u>629</u>	<u>1.31</u>	<u>-141</u>	<u>21</u>
Purging was completed based on: <input checked="" type="checkbox"/> stabilization of water quality parameters <input type="checkbox"/> removal of three well volumes <input type="checkbox"/> removal of at least one half well volume (low yield well)									

Bottles Collected				Filtration (10µm / 45µm)	Preserved (type)	Notes and Observations (quality control sample, other)
Time	Volume	Composition (G / P)	No.			
<u>1440</u>	<u>60ML</u>	<u>P</u>	<u>1</u>	<input checked="" type="checkbox"/> filtered <input type="checkbox"/> unfiltered	<u>HNO3</u>	<u>METALS</u>
<u>1440</u>	<u>40ML / 1L</u>	<u>G/G</u>		<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HCL / NONE</u>	<u>VOCS / SVOCS</u>

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader JOHN BRAYTON name John Brayton signature

Groundwater Sample Collection

Project/Phase	19119232	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	15.84	ft. BMP
Site Location	HWPW Houston		<input type="checkbox"/> Decon between locations	Casing Stickup	0	ft.
Date	7-28-20	Reference Point	<input checked="" type="checkbox"/> Top of casing	Depth to Water	15.84	ft. BGL
MW ID	MW 28C	Location	<input type="checkbox"/> Other _____	Total MW Depth	87.40	ft. BGL
Sample ID	WG1620MW28C20200728	Water Quality		MW Diameter	2.4	inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	C1108	MW Volume	11.9	gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	P1115	Pump Intake Depth	0	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C)	pH	Conductivity (µS/m or mS/cm)	Dissolved Oxygen (mg/L)	Redox Potential (mV)	Turbidity (NTU)
				<input type="checkbox"/> NM	<input type="checkbox"/> NM	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> NM
7:45	.2	.2	15.84	26.47	4.94	0.310	2.00	-17	17.7
7:55	.2	.3	17.11	26.13	5.59	0.305	1.19	-113	14.3
8:00	.2	.4	17.57	26.13	5.91	0.299	1.02	-148	10.2
8:05	.2	.5	17.65	26.24	6.42	0.279	0.78	-167	3.6
8:10	.2	.6	17.81	26.28	6.72	0.273	0.68	-179	0.0
8:15	.2	.7	17.94	26.30	6.82	0.272	0.64	-181	2.8

Purging was completed based on: stabilization of water quality parameters removal of three well volumes removal of at least one half well volume (low yield well)

Bottles Collected				Filtration	Preserved	Notes and Observations
Time	Volume	Composition (G / P)	No.	(10µm / 45µm)	(type)	(quality control sample, other)
8:15		P	18	<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered		clear
				<input type="checkbox"/> filtered <input type="checkbox"/> unfiltered		

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader TIM McSpadden name T. McSpadden signature

WG1620MW28C20200728-
WG1620MW28C20200728

8:15 WG1620MW28C MSO 20200728

Groundwater Sample Collection



Project/Phase	<u>19119232</u>	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	<u>4.92</u> ft. BMP
Site Location	<u>UPRR-HWPW</u>		<input type="checkbox"/> Decon between locations	Casing Stickup	<u>-</u> ft.
Date	<u>7-23-20</u>	Reference Point	<input checked="" type="checkbox"/> Top of casing	<input type="checkbox"/> Depth to Water	<u>4.92</u> ft. BGL
MW ID	<u>MW32AR</u>	Location	Other _____	Total MW Depth	<u>12.10</u> ft. BGL
Sample ID	<u>WG-1620-MW32AR-202006723</u>	Water Quality		MW Diameter	<u>2.0</u> inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	<u>HORIBA</u>	MW Volume	<u>1</u> gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	<u>U-50</u>	Pump Intake Depth	<u>1</u> ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C)	pH	Conductivity (µS/m or mS/cm)	Dissolved Oxygen (mg/L)	Redox Potential (mV)	Turbidity (NTU)
1216				<input type="checkbox"/> NM	<input type="checkbox"/> NM	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> NM
1226	<u>.2</u>	<u>/</u>	<u>5.21</u>	<u>22.7</u>	<u>6.56</u>	<u>746</u>	<u>1.01</u>	<u>-42</u>	<u>5.2</u>
1237	<u>↓</u>	<u>/</u>	<u>5.24</u>	<u>22.9</u>	<u>6.58</u>	<u>730</u>	<u>0.71</u>	<u>-35</u>	<u>6.1</u>
1236	<u>↓</u>	<u>/</u>	<u>5.23</u>	<u>22.9</u>	<u>6.59</u>	<u>731</u>	<u>0.72</u>	<u>-36</u>	<u>6.7</u>
Purging was completed based on: <input checked="" type="checkbox"/> stabilization of water quality parameters <input type="checkbox"/> removal of three well volumes <input type="checkbox"/> removal of at least one half well volume (low yield well)									

Bottles Collected				Filtration (10µm / 45µm)	Preserved (type)	Notes and Observations (quality control sample, other)
Time	Volume	Composition (G / P)	No.			
<u>1250</u>	<u>60ML</u>	<u>P</u>	<u>1</u>	<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HNO₃</u>	<u>METALS</u>
<u>1250</u>	<u>40ML/1L</u>	<u>G/G</u>		<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HCL/NONE</u>	<u>VOCS/SVOCS</u>

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader JOHN BRAYTON
name

John Brayton
signature

Groundwater Sample Collection

Page ___ of ___



Project/Phase	19119232	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	6.09	ft. BMP
Site Location	HWPW		<input type="checkbox"/> Decon between locations	Casing Stickup	0	ft.
Date	7-27-20	Reference Point	<input checked="" type="checkbox"/> Top of casing	Depth to Water	6.09	ft. BGL
MW ID	MW 32B	Location	<input type="checkbox"/> Other _____	Total MW Depth	36.10	ft. BGL
Sample ID	WG-1620 MW 32B 20200727	Water Quality		MW Diameter	2"	inches
Pump	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Waterra <input type="checkbox"/> Submersible <input type="checkbox"/> Bladder	Meter Model	C1108 P1115	MW Volume	4.80	gallons
		Unit Number		Pump Intake Depth	34.0	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C) <input type="checkbox"/> NM	pH <input type="checkbox"/> NM	Conductivity (µS/m or mS/cm) <input type="checkbox"/> not measured	Dissolved Oxygen (mg/L) <input type="checkbox"/> not measured	Redox Potential (mV) <input type="checkbox"/> not measured	Turbidity (NTU) <input type="checkbox"/> NM
14:25	.2	.2	6.09	34.45	7.10	1.18	1.34	-1	423
14:35	.2	.3	7.00	35.30	7.09	1.17	0.40	-10	404
14:40	.2	.4	6.97	33.38	7.06	1.21	0.22	-24	370
14:45	.2	.5	6.91	32.91	7.03	1.22	0.16	-29	342
14:50	.2	.6	6.99	32.91	7.01	1.23	0.10	-33	312

Purging was completed based on: stabilization of water quality parameters removal of three well volumes removal of at least one half well volume (low yield well)

Bottles Collected				Filtration	Preserved	Notes and Observations
Time	Volume	Composition (G / P)	No.	(10µm / 45µm) <input checked="" type="checkbox"/> filtered <input type="checkbox"/> unfiltered	(type)	(quality control sample, other)
		P	6	<input checked="" type="checkbox"/> filtered <input type="checkbox"/> unfiltered		Clear

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader T.M. McSpodden T.M. Spiller
name signature

WG 1620 MW 32B 20200727- 14:50

Groundwater Sample Collection

Page ___ of ___

Project/Phase	19119232	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	4.68	ft. BMP
Site Location	HWPW Houston		<input type="checkbox"/> Decon between locations	Casing Stickup	0	ft.
Date	7-28-20	Reference Point	<input checked="" type="checkbox"/> Top of casing	Depth to Water	4.68	ft. BGL
MW ID	MW 33A	Location	<input type="checkbox"/> Other _____	Total MW Depth	25.20	ft. BGL
Sample ID	WA1620MW33A20200728	Water Quality		MW Diameter	2"	inches
Pump	<input checked="" type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	C1108	MW Volume		gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	P1115	Pump Intake Depth	22.0	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C) <input type="checkbox"/> NM	pH <input type="checkbox"/> NM	Conductivity (µS/m or mS/cm) <input type="checkbox"/> not measured	Dissolved Oxygen (mg/L) <input type="checkbox"/> not measured	Redox Potential (mV) <input type="checkbox"/> not measured	Turbidity (NTU) <input type="checkbox"/> NM
13:45	.2	.2	4.68	28.16	7.38	0.607	1.47	-96	92.2
13:50	.2	.3	4.71	28.11	7.40	0.610	1.11	-97	97.6
13:55	.2	.4	4.79	27.94	7.33	0.617	0.83	-88	72.7
14:00	.2	.5	4.89	28.04	7.31	0.616	0.52	-83	87.5
14:05	.2	.6	5.01	28.17	7.27	0.622	0.57	-71	66.0
14:10	.2	.6	5.26	28.26	7.26	0.625	0.67	-66	68.7

Purging was completed based on: stabilization of water quality parameters removal of three well volumes removal of at least one half well volume (low yield well)

Bottles Collected				Filtration	Preserved	Notes and Observations
Time	Volume	Composition (G / P)	No.	(10µm / 45µm) <input checked="" type="checkbox"/> filtered <input type="checkbox"/> unfiltered	(type)	(quality control sample, other)
14:10		P	12	<input checked="" type="checkbox"/> filtered <input type="checkbox"/> unfiltered		clear

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader

name TIMM SPADDA

signature T. Spadda

WA1620MW33A20200728

WA1620MW33A20200728

14:10

GROUNDWATER SAMPLING RECORD PAGE ___ of ___

Project Number: 19119232 Project Name: 19119232 HCPW Date: _____
 Sampling Location (well ID, etc.): MW 33A Starting Water Level (ft. BMP): 5.26
 Sample Number: WG-1620 MW 33A 20200818 Casing Stickup (ft.): 0
 Sampled by: T.M. McSpodde WL (ft. BMP): 5.26 (ft. BGL): _____
 Measuring Point (MP) of Well: TOC - Steel or PVC TD (ft. BMP): 2.515 (ft. BGL): _____
 Screened Interval (ft. BGL): _____ Ft. water: _____ Casing Dia. (In ID): 2"
 Filter Pack Interval (ft. BGL): _____ 1X Casing Vol (gal.): _____ 3X (gal.): _____

QUALITY ASSURANCE Gallons/Feet: 2": 0.16 4": 0.65 5.25": 1.12 6": 1.47 6.25": 1.59

METHODS (describe): Low Flow / Dedicated Tubing/Equipment
 Cleaning Equipment: DI/Alconox Rinse
 Purge: Peristaltic Pump / SS Pump / Bailer / Bladder Sampling: Peristaltic Pump / SS Pump / Bailer / Bladder
 Disposal of Discharged Water: 55 gal drum 8-18-20

INSTRUMENTS (Indicate make, model, I.d.)

Water Level: D1134 Other: P1118 Pump
 Multi Meter: C1130
 Field Calibration: AJAX
 Filter / Filter Size: 0

SAMPLING MEASUREMENTS Begin Purge:


Time	DTW (ft BTOC)	Cum. Vol. (gal. or L)	Purge Rate (gal. or L / m)	Temp. (oC)	DO (mg/L)	Spec. Cond. (µs/cm)	pH	ORP (mV)	Turbidity (NTU)	Color & Sediment
11:35	5.20	.2	.2	30.44	7.17	0.685	7.20	30	107	Clear
11:45	5.26	.2	.3	31.03	3.50	0.684	7.19	32	91.5	
11:50	5.26	.2	.4	30.64	2.11	0.691	7.17	33	99.5	
11:55	5.30	.2	.5	30.22	1.28	0.694	7.16	33	87.1	
12:00	5.37	.2	.6	30.41	0.87	0.696	7.16	34	83.4	
12:05	5.41	.2	.7	30.31	0.47	0.694	7.16	34	71.8	

WL (ft. BMP) at End of Purge: _____ Sample Intake Depth (ft. BMP): _____

SAMPLE INVENTORY

Time	Bottles Collected			Filtration (Y / N)	Preservation (type)	Remarks (quality control sample, other)
	Volume	Composition (G, P)	No.			
12:05	4LT	P	4	N	0	

Comments: _____


GOLDER
 2201 Double Creek Dr., Suite 4004
 Round Rock, Texas 78664
 Phone: (512) 671-3434 Fax: (512) 671-3446

WG-1620 MW 33A 20200818 - 12:05
 WG-1620 DUP. 0920200818 - 12:05

Groundwater Sample Collection

Project/Phase	19110232	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	5.19	ft. BMP
Site Location	HWPW		<input type="checkbox"/> Decon between locations	Casing Stickup	0	ft.
Date	7.27.20	Reference Point	<input checked="" type="checkbox"/> Top of casing	Depth to Water	5.19	ft. BGL
MW ID	MW33BR	Location	<input type="checkbox"/> Other _____	Total MW Depth	38.04	ft. BGL
Sample ID	WG1620 MW 33BR 20200727	Water Quality		MW Diameter	2"	inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	C1108	MW Volume		gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	PH15	Pump Intake Depth	34	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)


Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C)	pH	Conductivity (µS/m or mS/cm)	Dissolved Oxygen (mg/L)	Redox Potential (mV)	Turbidity (NTU)
				<input type="checkbox"/> NM	<input type="checkbox"/> NM	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> NM
15:25	.2	.2	5.19	38.43	6.82	1.21	2.90	-73	27.9
15:35	.2	.3	5.98	33.31	6.80	1.15	1.45	-83	3.4
15:40	.2	.4	6.21	32.34	6.75	1.13	1.02	-80	26.5
15:45	.2	.5	6.38	31.78	6.64	1.07	0.73	-86	23.6
15:50	.2	.5		31.46	6.64	0.981	0.54	-93	23.1
15:55	.2	.6		31.35	6.65	0.946	0.46	-101	24.8

 Purging was completed based on: stabilization of water quality parameters removal of three well volumes removal of at least one half well volume (low yield well)

Bottles Collected				Filtration	Preserved	Notes and Observations
Time	Volume	Composition (G / P)	No.	(10µm / 45µm)	(type)	(quality control sample, other)
15:55		P	6	<input checked="" type="checkbox"/> filtered <input type="checkbox"/> unfiltered		clear
				<input type="checkbox"/> filtered <input type="checkbox"/> unfiltered		

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

 Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

 Field Team Leader Tim McSpadden 

WG1620 MW 33BR 2020 07 27 - 15:55

Groundwater Sample Collection

Page ___ of ___

Project/Phase	19119232	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	17.84	ft. BMP
Site Location	HWPW Houston		<input type="checkbox"/> Decon between locations	Casing Stickup	0	ft.
Date	7-28-20	Reference Point	<input checked="" type="checkbox"/> Top of casing	Depth to Water	17.84	ft. BGL
MW ID	MW34CR	Location	<input type="checkbox"/> Other _____	Total MW Depth	67.25	ft. BGL
Sample ID	WG-1620 MW34CR 2020 07 28	Water Quality		MW Diameter	24"	inches
Pump	<input type="checkbox"/> Werra <input type="checkbox"/> Submersible	Meter Model	C1108	MW Volume		gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	P115	Pump Intake Depth		ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C) <input type="checkbox"/> NM	pH <input type="checkbox"/> NM	Conductivity (µS/m or mS/cm) <input type="checkbox"/> not measured	Dissolved Oxygen (mg/L) <input type="checkbox"/> not measured	Redox Potential (mV) <input type="checkbox"/> not measured	Turbidity (NTU) <input type="checkbox"/> NM
12:40	.2	.2	17.84	26.64	7.29	0.263	2.79	-140	86.0
12:45	.2	.3		26.42	7.39	0.261	1.94	-144	51.9
12:50	.2	.4		26.27	7.34	0.262	1.44	-149	22.4
12:55	.2	.5		26.11	7.29	0.263	1.22	-152	17.4
13:00	.2	.6		25.95	7.25	0.263	0.91	-155	10.0
13:05	.2	.7		25.88	7.24	0.263	0.77	-157	9.2

Purging was completed based on: stabilization of water quality parameters removal of three well volumes removal of at least one half well volume (low yield well)

Bottles Collected				Filtration	Preserved	Notes and Observations
Time	Volume	Composition (G / P)	No.	(10µm / 45µm)	(type)	(quality control sample, other)
13:05		P	6	<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered		clear
				<input type="checkbox"/> filtered <input type="checkbox"/> unfiltered		

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader Tim McSpedde T. McSpedde
 name signature

WG-1620 MW34CR 2020 07 28 13:05

GROUNDWATER SAMPLING RECORD PAGE ___ of ___

Project Number: 19119232 Project Name: 19119232 HWPW Date: 8-18-20
 Sampling Location (well ID, etc.): MW34CR Starting Water Level (ft. BMP): 17.99
 Sample Number: WG-1620 MW34CR 20200818 Casing Stickup (ft.): 0
 Sampled by: Tim McSpadden WL (ft. BMP): 17.99 (ft. BGL): _____
 Measuring Point (MP) of Well: TOC Steel or PC TD (ft. BMP): 67.20 (ft. BGL): _____
 Screened Interval (ft. BGL): _____ Ft. water: _____ Casing Dia. (In ID): 4"
 Filter Pack Interval (ft. BGL): _____ 1X Casing Vol (gal.): _____ 3X (gal): _____

QUALITY ASSURANCE Gallons/Foot: 2": 0.16 4": 0.65 5.25": 1.12 6": 1.47 6.25": 1.59

METHODS (describe): Low Flow - Dedicated Tubing/Equipment
 Cleaning Equipment: DI/Alconox Rinse
 Purge: Peristaltic Pump / SS Pump / Bailer / Bladder Sampling: Peristaltic Pump / SS Pump / Bailer / Bladder
 Disposal of Discharged Water: 55gal drum 8-18-20

INSTRUMENTS (Indicate make, model, I.d.)

Water Level: D1134 Other: P1118 pump
 Multi Meter: C1130
 Field Calibration: ATAP
 Filter / Filter Size: 0

SAMPLING MEASUREMENTS Begin Purge:


Time	DTW (ft BTOC)	Cum. Vol. (gal. or L)	Purge Rate (gal. or L / m)	Temp. (oC)	DO (mg/L)	Spec. Cond. (µs/cm)	pH	ORP (mV)	Turbidity (NTU)	Color & Sediment
10:35	17.99	1.2	1.2	28.97	0.91	0.281	6.70	-180	4.55	clear
10:45	18.35	1.2	1.2	28.61	0.83	0.280	6.71	-187	2.29	
10:50	18.35	1.2	1.2	28.86	0.76	0.278	6.70	-183	1.25	
10:55	18.36	1.4	1.2	29.08	0.16	0.274	6.69	-182	1.41	
11:00	18.39	1.5	1.2	29.34	0.0	0.274	6.70	-183	1.31	
11:05	18.42	1.6	1.2	29.49	0.0	0.276	6.75	-185	1.29	

WL (ft. BMP) at End of Purge: _____ Sample Intake Depth (ft. BMP): _____

SAMPLE INVENTORY

Time	Bottles Collected			Filtration (Y/N)	Preservation (type)	Remarks (quality control sample, other)
	Volume	Composition (G, P)	No.			
11:05	2LT	P	2	N	0	

Comments: _____


GOLDER
 2201 Double Creek Dr., Suite 4004
 Round Rock, Texas 78664
 Phone: (512) 671-3434 Fax: (512) 671-3446

WG-1620 MW 34CR 20200818 11:05
10:05

Groundwater Sample Collection

Project/Phase	19119232	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	5.21	ft. BMP
Site Location	HW PW		<input type="checkbox"/> Decon between locations	Casing Stickup	0	ft.
Date	7-22-20	Reference Point	<input checked="" type="checkbox"/> Top of casing	Depth to Water	5.21	ft. BGL
MW ID	MW 35A	Location	<input type="checkbox"/> Other _____	Total MW Depth	28.25	ft. BGL
Sample ID	WG1620 MW 35A 20200722	Water Quality		MW Diameter	2	inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	C1108	MW Volume	3.68	gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	P1115	Pump Intake Depth	2.7	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C)	pH	Conductivity (µS/m or mS/cm)	Dissolved Oxygen (mg/L)	Redox Potential (mV)	Turbidity (NTU)
				<input type="checkbox"/> NM	<input type="checkbox"/> NM	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> NM
13:45	.2	.2	5.21	28.70	6.49	1.82	2.39	-81	105
13:50	.2	.3	5.54	29.24	6.33	1.84	1.13	-84	85.6
13:55	.2	.4	5.52	29.34	6.05	1.84	0.84	-76	72.9
14:00	.2	.5	5.51	29.30	6.06	1.84	0.67	-85	65.6
14:05	.2	.6	5.50	29.40	6.07	1.83	0.44	-88	51.0

Purging was completed based on: stabilization of water quality parameters removal of three well volumes removal of at least one half well volume (low yield well)

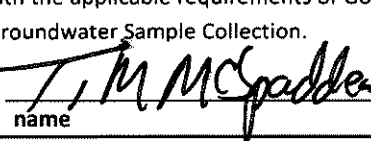
Bottles Collected				Filtration	Preserved	Notes and Observations
Time	Volume	Composition (G / P)	No.	(10µm / 45µm)	(type)	(quality control sample, other)
14:05		P	6	<input checked="" type="checkbox"/> filtered <input type="checkbox"/> unfiltered		clear
				<input type="checkbox"/> filtered <input type="checkbox"/> unfiltered		

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

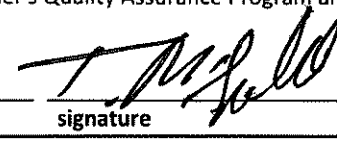
Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader

name



signature



WG1620 MW 35A 20200722 - 14:05

Groundwater Sample Collection

Page ___ of ___



Project/Phase	19119232	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	5.42	ft. BMP
Site Location	HWPW		<input type="checkbox"/> Decon between locations	Casing Stickup	0	ft.
Date	7-22-20	Reference Point	<input checked="" type="checkbox"/> Top of casing	Depth to Water	5.42	ft. BGL
MW ID	MW 35B	Location	<input type="checkbox"/> Other _____	Total MW Depth	43.04	ft. BGL
Sample ID	WG-1620 MW 35B 20200722	Water Quality		MW Diameter	2"	inches
Pump	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Waterra <input type="checkbox"/> Submersible <input type="checkbox"/> Bladder	Meter Model	C1108	MW Volume	6.01	gallons
		Unit Number	P1115	Pump Intake Depth	32	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C) <input type="checkbox"/> NM	pH <input type="checkbox"/> NM	Conductivity (µS/m or mS/cm) <input type="checkbox"/> not measured	Dissolved Oxygen (mg/L) <input type="checkbox"/> not measured	Redox Potential (mV) <input type="checkbox"/> not measured	Turbidity (NTU) <input type="checkbox"/> NM
14:40	.2	.2	5.42	27.55	6.42	1.67	2.01	-105	0.0
14:50	.2	.3	6.24	27.67	6.40	1.68	0.58	-105	1000
14:55	.2	.4	6.26	27.47	6.41	1.73	0.31	-106	405
15:00	.2	.5	6.33	27.55	6.29	1.73	0.22	-105	293
15:05	.2	.6	6.29	27.59	6.22	1.73	0.27	-100	196
15:10	.2	.7	6.29	27.64	6.21	1.73	0.10	-105	188

Purging was completed based on: stabilization of water quality parameters removal of three well volumes removal of at least one half well volume (low yield well)

Bottles Collected				Filtration	Preserved	Notes and Observations
Time	Volume	Composition (G / P)	No.	(10µm / 45µm)	(type)	(quality control sample, other)
15:10		P	6	<input checked="" type="checkbox"/> filtered <input type="checkbox"/> unfiltered		Clean
				<input type="checkbox"/> filtered <input type="checkbox"/> unfiltered		

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader

name Tim McSpadden

signature

T. McSpadden

WG-1620 MW 35B 20200722 - 15:10

Groundwater Sample Collection

Project/Phase <u>19119252</u>	Equipment Decon <input checked="" type="checkbox"/> Dedicated equipment	Depth to Water <u>6.41</u> ft. BMP	
Site Location <u>HWPW Houston</u>	<input type="checkbox"/> Decon between locations	Casing Stickup <u>0</u> ft.	
Date <u>7-28-20</u>	Reference Point <input checked="" type="checkbox"/> Top of casing	Depth to Water <u>6.41</u> ft. BGL	
MW ID <u>MW 36A</u>	<input type="checkbox"/> Other _____	Total MW Depth <u>27.65</u> ft. BGL	
Sample ID <u>WG1620MW36A20200728</u>	Water Quality	MW Diameter <u>2"</u> inches	
Pump <input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model <u>C1108</u>	MW Volume <u>3.39</u> gallons	
<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number <u>P1115</u>	Pump Intake Depth _____ ft. BGL	

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C) <input type="checkbox"/> NM	pH <input type="checkbox"/> NM	Conductivity (µS/m or mS/cm) <input type="checkbox"/> not measured	Dissolved Oxygen (mg/L) <input type="checkbox"/> not measured	Redox Potential (mV) <input type="checkbox"/> not measured	Turbidity (NTU) <input type="checkbox"/> NM
10:45	.2	.2	6.41	26.73	6.90	1.06	2.31	-23	0.0
10:55	.2	.3	7.32	26.05	6.93	1.09	1.35	-40	0.0
11:00	.2	.4	7.57	25.95	6.89	1.19	1.07	-36	0.0
11:05	.2	.5	7.78	26.11	6.89	1.10	0.91	-38	0.0
11:10	.2	.6	7.91	26.27	6.87	1.10	1.22	-40	0.0

Purging was completed based on:	<input checked="" type="checkbox"/> stabilization of water quality parameters <input type="checkbox"/> removal of three well volumes <input type="checkbox"/> removal of at least one half well volume (low yield well)
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Bottles Collected				Filtration	Preserved	Notes and Observations
Time	Volume	Composition (G / P)	No.	(10µm / 45µm)	(type)	(quality control sample, other)
11:10		P	6	<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered		Clean
				<input type="checkbox"/> filtered <input type="checkbox"/> unfiltered		

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader Tam McSpodda T. McSpodda
 name signature

WG1620 MW 36A 2020 07 28 - 11:10

Groundwater Sample Collection

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Project/Phase	19119232	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	4.78	ft. BMP
Site Location	MWPTW Houston		<input type="checkbox"/> Decon between locations	Casing Stickup	0	ft.
Date	7-28-20	Reference Point	<input checked="" type="checkbox"/> Top of casing	Depth to Water	4.78	ft. BGL
MW ID	MW 36B	Location	<input type="checkbox"/> Other _____	Total MW Depth	42.80	ft. BGL
Sample ID	WG-1620 MW 36B 20200728	Water Quality		MW Diameter	2"	inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	C/1108	MW Volume	6.0	gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	P1115	Pump Intake Depth		ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C) <input type="checkbox"/> NM	pH <input type="checkbox"/> NM	Conductivity (µS/m or mS/cm) <input type="checkbox"/> not measured	Dissolved Oxygen (mg/L) <input type="checkbox"/> not measured	Redox Potential (mV) <input type="checkbox"/> not measured	Turbidity (NTU) <input type="checkbox"/> NM
9:35	.2	.2	4.78	30.47	7.28	0.229	2.48	20	0.0
9:40	.2	.3	5.71	27.70	7.42	0.234	2.06	23	0.0
9:45	.2	.4	5.92	27.87	7.34	0.232	1.40	27	0.0
9:50	.2	.5	6.11	27.75	7.31	0.234	1.13	28	0.0
9:55	.2	.6	6.22	27.94	7.28	0.232	1.00	29	0.0
10:00	.2	.7	6.37	28.14	7.28	0.233	0.64	30	0.0

Purging was completed based on: stabilization of water quality parameters removal of three well volumes removal of at least one half well volume (low yield well)

Bottles Collected				Filtration	Preserved	Notes and Observations
Time	Volume	Composition (G / P)	No.	(10µm / 45µm)	(type)	(quality control sample, other)
10:00		P	6	<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered		clear
				<input type="checkbox"/> filtered <input type="checkbox"/> unfiltered		

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader

T. M. Spedde
name

T. M. Spedde
signature

WG-1620 MW 36B 20200728 10:00

Groundwater Sample Collection

Project/Phase	19119232	Equipment Decon	<input type="checkbox"/> Dedicated equipment	Depth to Water	81.85	ft. BMP
Site Location	Huron Houston		<input type="checkbox"/> Decon between locations	Casing Stickup	0	ft.
Date	7-29-20	Reference Point	<input checked="" type="checkbox"/> Top of casing	Depth to Water	81.85	ft. BGL
MW ID	MW36D	Location	<input type="checkbox"/> Other _____	Total MW Depth	162+	ft. BGL
Sample ID	WG1620MW36D20200729	Water Quality		MW Diameter	2"	inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	C1108	MW Volume		gallons
	<input type="checkbox"/> Peristaltic <input checked="" type="checkbox"/> Bladder	Unit Number	AN131	Pump Intake Depth	100	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C) <input type="checkbox"/> NM	pH <input type="checkbox"/> NM	Conductivity (µS/m or mS/cm) <input type="checkbox"/> not measured	Dissolved Oxygen (mg/L) <input type="checkbox"/> not measured	Redox Potential (mV) <input type="checkbox"/> not measured	Turbidity (NTU) <input type="checkbox"/> NM
11:00	.2	.2	81.85	33.90	7.63	0.188	6.61	-86	0.0
11:10	.2	.3		33.71	7.42	0.182	6.42	-48	0.0
11:15	.2	.4		33.15	7.17	0.162	5.71	-59	0.0
11:20	.2	.5		32.72	7.22	0.157	5.21	-62	0.0
11:25	.2	.6		32.54	7.12	0.150	4.63	-64	0.0
11:30	.2	.7	85.47	32.26	7.13	0.147	4.48	-63	0.0

Purging was completed based on: stabilization of water quality parameters removal of three well volumes removal of at least one half well volume (low yield well)

Bottles Collected				Filtration (10µm / 45µm)	Preserved (type)	Notes and Observations (quality control sample, other)
Time	Volume	Composition (G / P)	No.	<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered		
11:30		P	6	<input type="checkbox"/> filtered <input type="checkbox"/> unfiltered		clear

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

 Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader

 name T. McSpadden

 signature [Signature]

WG1620MW36D 20200729- 11:30

Groundwater Sample Collection

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Project/Phase	19119232	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	4.99	ft. BMP
Site Location	MWPW		<input type="checkbox"/> Decon between locations	Casing Stickup	0	ft.
Date	7-20-20	Reference Point	<input checked="" type="checkbox"/> Top of casing	Depth to Water	4.99	ft. BGL
MW ID	MW 38A	Location	<input type="checkbox"/> Other _____	Total MW Depth	22.15	ft. BGL
Sample ID	WG-1620 MW 38A 20200720	Water Quality		MW Diameter	2"	inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	C1108	MW Volume	2.74	gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	P1115	Pump Intake Depth	21.	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C) <input type="checkbox"/> NM	pH <input type="checkbox"/> NM	Conductivity (µS/m or mS/cm) <input type="checkbox"/> not measured	Dissolved Oxygen (mg/L) <input type="checkbox"/> not measured	Redox Potential (mV) <input type="checkbox"/> not measured	Turbidity (NTU) <input type="checkbox"/> NM
9:50	.2	.2	4.99	28.24	6.46	0.802	4.04	33	0.0
10:00	.2	.3	5.24	28.37	6.48	0.805	2.12	31	0.0
10:05	.2	.4	5.21	28.33	6.45	0.811	1.49	28	0.0
10:10	.2	.5		28.36	6.44	0.826	1.11	22	0.0
10:15	.2	.6		28.33	6.43	0.830	.87	15	0.0
10:20	.2	.6		28.39	6.42	0.831	0.77	9	0.0

Purging was completed based on: stabilization of water quality parameters removal of three well volumes removal of at least one half well volume (low yield well)

Bottles Collected				Filtration	Preserved	Notes and Observations
Time	Volume	Composition (G / P)	No.	(10µm / 45µm)	(type)	(quality control sample, other)
10:20		P	6	<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered		Clear
				<input type="checkbox"/> filtered <input type="checkbox"/> unfiltered		

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader

name Tim McSpadden

signature T. McSp

WG-1620 MW 38A 20200720
10:20

10:20

Groundwater Sample Collection

Page ___ of ___



Project/Phase	19110232	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	4.18	ft. BMP
Site Location	HUPH		<input type="checkbox"/> Decon between locations	Casing Stickup	0	ft.
Date	7-20-20	Reference Point	<input checked="" type="checkbox"/> Top of casing	Depth to Water	4.18	ft. BGL
MW ID	MW 38B	Location	<input type="checkbox"/> Other _____	Total MW Depth	37.60	ft. BGL
Sample ID	WG1620MW38B20200720	Water Quality		MW Diameter	2"	inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	C1108	MW Volume	5.34	gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	P1115	Pump Intake Depth	32	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C) <input type="checkbox"/> NM	pH <input type="checkbox"/> NM	Conductivity (µS/m or mS/cm) <input type="checkbox"/> not measured	Dissolved Oxygen (mg/L) <input type="checkbox"/> not measured	Redox Potential (mV) <input type="checkbox"/> not measured	Turbidity (NTU) <input type="checkbox"/> NM
10:50	.2	.2	4.18	30.40	7.07	0.677	3.18	-47	0.0
11:00	.2	.3	4.24	30.44	7.01	0.671	1.82	-46	0.0
11:05	.2	.4	4.23	30.50	6.98	0.660	1.12	-52	0.0
11:10	.2	.5	4.23	30.48	6.97	0.660	0.74	-52	0.0
11:20	.2	.6	4.26	30.24	6.97	0.659	0.47	-52	0.0

Purging was completed based on: stabilization of water quality parameters removal of three well volumes removal of at least one half well volume (low yield well)

Bottles Collected				Filtration	Preserved	Notes and Observations
Time	Volume	Composition (G / P)	No.	(10µm / 45µm)	(type)	(quality control sample, other)
11:20		P	6	<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered		clear
				<input type="checkbox"/> filtered <input type="checkbox"/> unfiltered		

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader TIM McSpadden name T McSpadden signature

WG1620MW38B20200720 - 11:20

Groundwater Sample Collection

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Project/Phase	19119232	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	8.41	ft. BMP
Site Location	HWPW		<input type="checkbox"/> Decon between locations	Casing Stickup	31	ft.
Date	7-16-20	Reference Point	<input checked="" type="checkbox"/> Top of casing	Depth to Water	8.41	ft. BGL
MW ID	MW 39B	Location	<input type="checkbox"/> Other _____	Total MW Depth	91.40	ft. BGL
Sample ID	WG-1620MW39B00710	Water Quality		MW Diameter	2 1/2	inches
Pump	<input checked="" type="checkbox"/> Watera <input type="checkbox"/> Submersible	Meter Model	C1108	MW Volume	5.27	gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	P1115	Pump Intake Depth	32.0	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C) <input type="checkbox"/> NM	pH <input type="checkbox"/> NM	Conductivity (µS/m or mS/cm) <input type="checkbox"/> not measured	Dissolved Oxygen (mg/L) <input type="checkbox"/> not measured	Redox Potential (mV) <input type="checkbox"/> not measured	Turbidity (NTU) <input type="checkbox"/> NM
15:20	.2	.2	8.41	38.08	6.17	1.30	1.57	-80	511
15:30	.2	.3	8.55	38.10	6.17	1.33	1.49	-70	462
15:35	.2	.4	8.52	38.07	6.16	1.32	1.31	-60	422
15:40	.2	.5	8.50	38.02	6.16	1.30	1.14	-46	365

Purging was completed based on: stabilization of water quality parameters removal of three well volumes removal of at least one half well volume (low yield well)

Bottles Collected				Filtration	Preserved	Notes and Observations
Time	Volume	Composition (G / P)	No.	(10µm / 45µm)	(type)	(quality control sample, other)
15:40		P	6	<input checked="" type="checkbox"/> filtered <input type="checkbox"/> unfiltered		Clear
				<input type="checkbox"/> filtered <input type="checkbox"/> unfiltered		

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader name: T. M. Spetch signature: T. M. Spetch

WG-1620 MW 39B 20200710 - 15:40

Groundwater Sample Collection

Project/Phase	19119232	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	8.26	ft. BMP
Site Location	HWPd		<input checked="" type="checkbox"/> Decon between locations	Casing Stickup	3'	ft.
Date	7-16-20	Reference Point	<input checked="" type="checkbox"/> Top of casing	Depth to Water	8.26	ft. BGL
MW ID	MW 40B	Location	<input type="checkbox"/> Other	Total MW Depth	42.50	ft. BGL
Sample ID	WG-1620 MW 40B 20200716	Water Quality		MW Diameter	2"	inches
Pump	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Waterra <input type="checkbox"/> Submersible <input type="checkbox"/> Bladder	Meter Model	C1108	MW Volume		gallons
		Unit Number	P1115	Pump Intake Depth		ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C) <input type="checkbox"/> NM	pH <input type="checkbox"/> NM	Conductivity (µS/m or mS/cm) <input type="checkbox"/> not measured	Dissolved Oxygen (mg/L) <input type="checkbox"/> not measured	Redox Potential (mV) <input type="checkbox"/> not measured	Turbidity (NTU) <input type="checkbox"/> NM
14:20	.2	.2	8.26	35.23	6.48	1.30	2.60	-90	0.0
14:25	.2	.3	8.41	34.93	6.27	1.29	1.48	-98	480
14:30	.2	.4	8.39	34.57	6.21	1.34	1.21	-98	331
14:35	.2	.5	8.39	34.30	6.10	1.30	1.03	-97	121
14:40	.2	.6	8.38	33.74	5.96	1.32	0.86	-91	26.3
14:45	.2	.7	8.38	33.51	5.89	1.32	0.61	-90	8.3

Purging was completed based on: stabilization of water quality parameters removal of three well volumes removal of at least one half well volume (low yield well)

Bottles Collected				Filtration	Preserved	Notes and Observations
Time	Volume	Composition (G / P)	No.	(10µm / 45µm)	(type)	(quality control sample, other)
		P	6	<input type="checkbox"/> filtered <input type="checkbox"/> unfiltered		
				<input type="checkbox"/> filtered <input type="checkbox"/> unfiltered		

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader

name TIM McSpadden

signature T. McSpadden

WG-1620 MW 40B 20200716- 14:45

Groundwater Sample Collection

Page ___ of ___

Project/Phase	19119232	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	5.89	ft. BMP
Site Location	HWPW Harston		<input type="checkbox"/> Decon between locations	Casing Stickup	3	ft.
Date	7-29-20	Reference Point	<input checked="" type="checkbox"/> Top of casing	Depth to Water	5.89	ft. BGL
MW ID	MW41B	Location	<input type="checkbox"/> Other _____	Total MW Depth	42.70	ft. BGL
Sample ID	WG1620 MW41B 20200729	Water Quality		MW Diameter	2"	inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	C1108	MW Volume		gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	P1115	Pump Intake Depth	38.	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C)	pH	Conductivity (µS/m or mS/cm)	Dissolved Oxygen (mg/L)	Redox Potential (mV)	Turbidity (NTU)
				<input type="checkbox"/> NM	<input type="checkbox"/> NM	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> NM
8:30	.2	.2	5.89	27.37	5.34	1.27	1.09	+159	21.6
8:40	.2	.3	5.99	27.55	5.60	1.26	0.72	-159	22.6
8:45	.2	.4	5.91	27.67	5.68	1.24	0.47	-160	18.4
8:50	.2	.5	5.90	27.73	5.82	1.23	0.61	-159	20.7
8:55	.2	.6	5.89	27.88	5.88	1.22	0.57	-159	20.0
9:00	.2	.7	5.89	27.93	5.91	1.22	0.34	-159	16.4

Purging was completed based on:

stabilization of water quality parameters removal of three well volumes removal of at least one half well volume (low yield well)

Bottles Collected				Filtration	Preserved	Notes and Observations
Time	Volume	Composition (G / P)	No.	(10µm / 45µm)	(type)	(quality control sample, other)
9:00		P	6	<input checked="" type="checkbox"/> filtered <input type="checkbox"/> unfiltered		clear
				<input type="checkbox"/> filtered <input type="checkbox"/> unfiltered		

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

 Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader

 name Tim McSpodden

 signature [Signature]

WG1620 MW41B 20200729 - 9:00

Groundwater Sample Collection

Page ___ of ___



Project/Phase	19119232	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	8.44	ft. BMP
Site Location	HWPW		<input type="checkbox"/> Decon between locations	Casing Stickup	31	ft.
Date	7-17-20	Reference Point	<input checked="" type="checkbox"/> Top of casing	Depth to Water	8.44	ft. BGL
MW ID	TW 41B	Location	<input checked="" type="checkbox"/> Other	Total MW Depth	42.30	ft. BGL
Sample ID	WG1620 TW41B 20200717	Water Quality		MW Diameter	4"	inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	C1108	MW Volume	5.41	gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	P1115	Pump Intake Depth	32	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C) <input type="checkbox"/> NM	pH <input type="checkbox"/> NM	Conductivity (µS/m or mS/cm) <input type="checkbox"/> not measured	Dissolved Oxygen (mg/L) <input type="checkbox"/> not measured	Redox Potential (mV) <input type="checkbox"/> not measured	Turbidity (NTU) <input type="checkbox"/> NM
8:30	.2	.2	8.44	24.93	7.10	1.47	3.13	-122	0.0
8:40	.2	.3	8.61	24.90	6.68	1.41	1.38	-121	0.0
8:45	.2	.4	8.61	24.94	6.61	1.40	1.20	-121	0.0
8:50	.2	.5	8.60	25.01	6.49	0.9 1.40	0.88	-122	0.0
8:55	.2	.6	8.61	25.00	6.40	1.39	0.81	-122	0.0
9:00	.2	.7	8.60	24.97	6.38	1.38	0.77	-122	0.0

Purging was completed based on: stabilization of water quality parameters removal of three well volumes removal of at least one half well volume (low yield well)

Bottles Collected				Filtration	Preserved	Notes and Observations
Time	Volume	Composition (G / P)	No.	(10µm / 45µm)	(type)	(quality control sample, other)
9:00		P	6	<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered		Clear
				<input type="checkbox"/> filtered <input type="checkbox"/> unfiltered		

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader

Tim McSpalden
name

T. McSpalden
signature

WG1620 TW41B 20200717 - 9:00

Groundwater Sample Collection

Page ___ of ___

Project/Phase	19119232	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	8.31	ft. BMP
Site Location	HW PW		<input type="checkbox"/> Decon between locations	Casing Stickup	5'	ft.
Date	7-16-20	Reference Point	<input checked="" type="checkbox"/> Top of casing	Depth to Water	8.31	ft. BGL
MW ID	MW-42B	Location	<input type="checkbox"/> Other _____	Total MW Depth	43.65	ft. BGL
Sample ID	WG-1620 MW42B 20200716	Water Quality		MW Diameter	2"	inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	C1108	MW Volume		gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	P1115	Pump Intake Depth	33	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C) <input type="checkbox"/> NM	pH <input type="checkbox"/> NM	Conductivity (µS/m or mS/cm) <input type="checkbox"/> not measured	Dissolved Oxygen (mg/L) <input type="checkbox"/> not measured	Redox Potential (mV) <input type="checkbox"/> not measured	Turbidity (NTU) <input type="checkbox"/> NM
13:20	.2	.2	8.31	36.37	6.70	1.20	2.67	-23	0.0
13:25	.2	.3	9.02	34.02	6.52	1.23	1.46	-33	51.4
13:30	.2	.4	9.05	33.13	6.44	1.24	1.21	-36	709
13:35	.2	.5	9:08	32.94	6.31	1.26	0.96	-33	449
13:40	.2	.6	9:07	32.99	6.28	1.27	0.72	-30	450
13:45	.2	.7	9:08	33.16	6.29	1.28	0.85	-24	462

Purging was completed based on: stabilization of water quality parameters removal of three well volumes removal of at least one half well volume (low yield well)

Bottles Collected				Filtration	Preserved	Notes and Observations
Time	Volume	Composition (G / P)	No.	(10µm / 45µm)	(type)	(quality control sample, other)
13:45		P	6	<input checked="" type="checkbox"/> filtered <input type="checkbox"/> unfiltered		Clear
				<input type="checkbox"/> filtered <input type="checkbox"/> unfiltered		

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader

name TIM MCSPELDA

signature [Signature]

WG-1620 MW42B 20200716 - 13:45

Groundwater Sample Collection



Project/Phase	<u>19119232</u>	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	<u>9.63</u>	ft. BMP
Site Location	<u>UPRR - HWPW</u>		<input type="checkbox"/> Decon between locations	Casing Stickup	<u>-</u>	ft.
Date	<u>7-22-20</u>	Reference Point	<input checked="" type="checkbox"/> Top of casing	<input type="checkbox"/> Depth to Water	<u>9.68</u>	ft. BGL
MW ID	<u>MW44A</u>	Location	Other _____	Total MW Depth	<u>28.10</u>	ft. BGL
Sample ID	<u>WG-162D-MW44A-20A06-22</u>	Water Quality		MW Diameter	<u>2.0</u>	inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	<u>HDRISA</u>	MW Volume	<u>1</u>	gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	<u>U-50</u>	Pump Intake Depth	<u>1</u>	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C)	pH	Conductivity (µS/m or mS/cm)	Dissolved Oxygen (mg/L)	Redox Potential (mV)	Turbidity (NTU)
<u>1029</u>	<u>1.2</u>	<u>/</u>	<u>9.91</u>	<u>24.7</u>	<u>6.81</u>	<u>1040</u>	<u>0.86</u>	<u>-21</u>	<u>6.7</u>
<u>1044</u>	<u>↓</u>	<u>/</u>	<u>9.93</u>	<u>24.3</u>	<u>6.77</u>	<u>1070</u>	<u>0.72</u>	<u>-16</u>	<u>5.0</u>
<u>1049</u>	<u>↓</u>	<u>/</u>	<u>9.92</u>	<u>24.6</u>	<u>6.79</u>	<u>1060</u>	<u>0.71</u>	<u>-17</u>	<u>5.2</u>

Purging was completed based on: stabilization of water quality parameters removal of three well volumes removal of at least one half well volume (low yield well)

Bottles Collected				Filtration	Preserved	Notes and Observations
Time	Volume	Composition (G / P)	No.	(10µm / 45µm)	(type)	(quality control sample, other)
<u>1105</u>	<u>60ML</u>	<u>P</u>	<u>1</u>	<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HNO₃</u>	<u>METALS</u>
<u>1105</u>	<u>40ML / IL</u>	<u>G/G</u>		<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HCL / NONE</u>	<u>VOCS / SVOCS</u>

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader JOHN BRAYTON name John Brayton signature

Groundwater Sample Collection

Project/Phase	19119232	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	16.85	ft. BMP
Site Location	HWPW Houston		<input type="checkbox"/> Decon between locations	Casing Stickup	0	ft.
Date	7-28-20	Reference Point	<input checked="" type="checkbox"/> Top of casing	Depth to Water	16.85	ft. BGL
MW ID	MW 44C	Location	<input type="checkbox"/> Other _____	Total MW Depth	58.25	ft. BGL
Sample ID	WG-1620 MW 44C 20200728	Water Quality		MW Diameter	2.5	inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	C1108	MW Volume	6.6	gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	P1115	Pump Intake Depth	48	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C) <input type="checkbox"/> NM	pH <input type="checkbox"/> NM	Conductivity (µS/m or mS/cm) <input type="checkbox"/> not measured	Dissolved Oxygen (mg/L) <input type="checkbox"/> not measured	Redox Potential (mV) <input type="checkbox"/> not measured	Turbidity (NTU) <input type="checkbox"/> NM
11:40	.2	.2	16.85	24.35	7.70	0.302	2.85	5	375
11:50	.2	.3	16.99	24.12	7.57	0.300	1.79	-18	353
11:55	.2	.4	17.09	24.75	7.44	0.293	1.82	-17	324
12:00	.2	.5	17.22	24.81	7.43	0.293	1.51	-15	327
12:05	.2	.5	17.37	24.71	7.42	0.292	1.11	-14	328

Purging was completed based on: stabilization of water quality parameters removal of three well volumes removal of at least one half well volume (low yield well)

Bottles Collected				Filtration	Preserved	Notes and Observations
Time	Volume	Composition (G / P)	No.	10µm / 45µm <input checked="" type="checkbox"/> filtered <input type="checkbox"/> unfiltered	(type)	(quality control sample, other)
12:05		P	6	<input checked="" type="checkbox"/> filtered <input type="checkbox"/> unfiltered		clear

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

 Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader

name Tim McSpadden signature T. McSpadden

WG-1620 MW 44C 20200728 - 1205

GROUNDWATER SAMPLING RECORD

PAGE ___ of ___

Project Number: 19119232 Project Name: 19119232 HWPW Date: 8-18-20
 Sampling Location (well ID, etc.): MW 44C Starting Water Level (ft. BMP): 16.22
 Sample Number: WG1620 MW44C 20200818 Casing Stickup (ft.): 0
 Sampled by: TIM McSpedde WL (ft. BMP): 16.82 (ft. BGL): _____
 Measuring Point (MP) of Well: TOC - Steel or PVC TD (ft. BMP): 59.10 (ft. BGL): _____
 Screened Interval (ft. BGL): _____ Ft. water: _____ Casing Dia. (In ID): 2"
 Filter Pack Interval (ft. BGL): _____ 1X Casing Vol (gal.): _____ 3X (gal): _____

QUALITY ASSURANCE

Gallons/Foot: 2": 0.16 4": 0.65 5.25": 1.12 6": 1.47 6.25": 1.59

METHODS (describe): Low Flow - Dedicated Tubing/Equipment
 Cleaning Equipment: DI/Aconox Rinse
 Purge: Peristaltic Pump / SS Pump / Bailer / Bladder Sampling: Peristaltic Pump / SS Pump / Bailer / Bladder
 Disposal of Discharged Water: 55 gal drum 8-18-20

INSTRUMENTS (Indicate make, model, I.D.)

Water Level: D1134 Other: P1118 pump
 Multi Meter: C1130
 Field Calibration: Asay
 Filter / Filter Size: _____

SAMPLING MEASUREMENTS

Begin Purge:

Time	DTW (ft BTOC)	Cum. Vol. (gal. or L)	Purge Rate (gal. or L /m)	Temp. (oC)	DO (mg/L)	Spec. Cond. (µs/cm)	pH	ORP (mV)	Turbidity (NTU)	Color & Sediment
9:45	16.22	.2	.2	25.93	6.73	0.248	7.05	83	165	clear
9:55	17.14	.3	.2	26.21	7.00	0.248	6.99	79	158	
10:05	17.08	.4	.2	25.77	7.88	0.249	7.02	70	154	
10:05	16.88	.5	.2	25.72	1.99	0.251	7.04	60	152	
10:10	16.74	.6	.2	25.82	0.88	0.253	7.05	53	157	

WL (ft. BMP) at End of Purge: 16.74 Sample Intake Depth (ft. BMP): 58.0

SAMPLE INVENTORY

Time	Bottles Collected			Filtration (Y / N)	Preservation (type)	Remarks (quality control sample, other)
	Volume	Composition (G, P)	No.			
10:20	2LT	P	2	N	0	

Comments:



GOLDER

2201 Double Creek Dr., Suite 4004
 Round Rock, Texas 78664

Phone: (512) 671-3434 Fax: (512) 671-3446

WG1620 MW 44C 20200818 10:10

WELL DEVELOPMENT RECORD

PAGE 1 of 1

Project Number: 19119232 Project Name: HWPW Date: 10-09-2020

Well Location (well ID, etc.): MW 44 Starting Water Level (ft. BMP): 16.83

Developed by: Tim McSpadden Casing Stickup (ft.): 0

Measuring Point (MP) of Well: TOC Starting Water Level (ft. BGL): 16.83

Screened Interval (ft. BGL): Total Depth (ft. BGL): Start 58.44

Filter Pack Interval (ft. BGL): Casing Diameter (In ID): 2" PVC

Casing Volume (gal.): 6.65

QUALITY ASSURANCE

METHODS (describe):

Cleaning Equipment: DI/ALCONOX

Purging: Typhoon pump P306 Surge Equipment: P3206 mega Typhoon pump

Disposal of Discharged Water: 55 gallon Purge water drum

INSTRUMENTS (Indicate make, model, I.D.)

Water Level: Heron H-01L D2125 Thermometer: Horiba C1129

pH Meter: Horiba C1129 Field Calibration: AJAX

Conductivity Meter: Horiba C1129 Field Calibration: Field cal - Ph 4.0


Other:

DEVELOPMENT MEASUREMENTS

Time	Flow		Water Quality			Appearance		Remarks
	Cum. Vol. (gal. / L)	Purge Rate (gal. / L pm)	Temp. (°C)	pH	Spec. Cond. (µmhos/cm)	Color	Turbidity & Sediment	
9:30	4.0 gal		24.18	7.02	0.226	cloudy	109	clear/cloudy water
9:45	5.0 gal		23.79	7.24	0.225	cloudy	224	cloudy water
10:10	4.0 gal		23.99	7.23	0.233	cloudy	642	grey water
10:30	4.0 gal		23.95	7.37	0.378	cloudy	987	grey water/clearing
10:45	3.12 gal		23.95	7.32	0.380	cloudy	4.28	cloudy water clearing
11:00	4.0 gal		23.95	7.32	0.379	cloudy/clear	269	TD 58.90

Total Discharge (gallons): 24 1/2

Observations/Comments:



Golder Associates Inc.
11231 Richmond Avenue, Suite D104
Houston, Texas 77082

Groundwater Sample Collection



Project/Phase	<u>19119232</u>	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	<u>16.37</u>	ft. BMP
Site Location	<u>UPRR-HWPW</u>		<input type="checkbox"/> Decon between locations	Casing Stickup	<u>-</u>	ft.
Date	<u>7-22-20</u>	Reference Point	<input checked="" type="checkbox"/> Top of casing	<input type="checkbox"/> Depth to Water	<u>16.37</u>	ft. BGL
MW ID	<u>MW45C</u>	Location	Other _____	Total MW Depth	<u>57.90</u>	ft. BGL
Sample ID	<u>WG-162D-MW45C-20200722</u>	Water Quality		MW Diameter	<u>2.0</u>	inches
Pump	<input type="checkbox"/> Watterra <input type="checkbox"/> Submersible	Meter Model	<u>HDRISA</u>	MW Volume	<u>1</u>	gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	<u>U-50</u>	Pump Intake Depth	<u>1</u>	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C)	pH	Conductivity (µS/m or mS/cm)	Dissolved Oxygen (mg/L)	Redox Potential (mV)	Turbidity (NTU)
<u>1217</u>	<u>1.2</u>	<u>/</u>	<u>16.59</u>	<u>23.6</u>	<u>6.76</u>	<u>970</u>	<u>0.59</u>	<u>-31</u>	<u>13</u>
<u>1233</u>	<u>↓</u>	<u>/</u>	<u>16.61</u>	<u>23.3</u>	<u>6.70</u>	<u>980</u>	<u>0.51</u>	<u>-30</u>	<u>6.2</u>
<u>1237</u>	<u>↓</u>	<u>/</u>	<u>16.61</u>	<u>23.4</u>	<u>6.71</u>	<u>981</u>	<u>0.52</u>	<u>-29</u>	<u>7.9</u>

Purging was completed based on: stabilization of water quality parameters removal of three well volumes removal of at least one half well volume (low yield well)

Bottles Collected				Filtration (10µm / 45µm)	Preserved (type)	Notes and Observations (quality control sample, other)
Time	Volume	Composition (G / P)	No.			
<u>1250</u>	<u>60ML</u>	<u>P</u>	<u>1</u>	<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HNO₃</u>	<u>METALS</u>
<u>1250</u>	<u>40ML / 1L</u>	<u>G/G</u>	<u>1</u>	<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HCL / NONE</u>	<u>VOCS / SVOCS</u>

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader JOHN BRAYTON name John Brayton signature

Groundwater Sample Collection



Project/Phase	<u>19119232</u>	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	<u>16.57</u> ft. BMP
Site Location	<u>UPRR-HWPW</u>		<input type="checkbox"/> Decon between locations	Casing Stickup	<u> </u> ft.
Date	<u>7-22-20</u>	Reference Point	<input checked="" type="checkbox"/> Top of casing	<input type="checkbox"/> Depth to Water	<u>16.57</u> ft. BGL
MW ID	<u>MW46C</u>	Location	Other <u> </u>	Total MW Depth	<u>72.70</u> ft. BGL
Sample ID	<u>WG-162D-MW46C-202006722</u>	Water Quality		MW Diameter	<u>2.0</u> inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	<u>HDRISA</u>	MW Volume	<u>1</u> gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	<u>U-50</u>	Pump Intake Depth	<u>1</u> ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C)	pH	Conductivity (µS/m or mS/cm)	Dissolved Oxygen (mg/L)	Redox Potential (mV)	Turbidity (NTU)
<u>1318</u>	<u> </u>	<u> </u>	<u> </u>	<input type="checkbox"/> NM	<input type="checkbox"/> NM	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> NM
<u>1328</u>	<u>1.2</u>	<u> </u>	<u>16.87</u>	<u>23.4</u>	<u>6.92</u>	<u>649</u>	<u>0.79</u>	<u>-81</u>	<u>7.6</u>
<u>1333</u>	<u> </u>	<u> </u>	<u>16.89</u>	<u>23.6</u>	<u>6.84</u>	<u>631</u>	<u>0.66</u>	<u>-25</u>	<u>6.0</u>
<u>1338</u>	<u> </u>	<u> </u>	<u>16.89</u>	<u>23.7</u>	<u>6.87</u>	<u>629</u>	<u>0.67</u>	<u>-26</u>	<u>6.1</u>
Purging was completed based on: <input checked="" type="checkbox"/> stabilization of water quality parameters <input type="checkbox"/> removal of three well volumes <input type="checkbox"/> removal of at least one half well volume (low yield well)									

Bottles Collected				Filtration (10µm / 45µm)	Preserved (type)	Notes and Observations (quality control sample, other)
Time	Volume	Composition (G / P)	No.			
<u>1350</u>	<u>60ML</u>	<u>P</u>	<u>1</u>	<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HNO3</u>	<u>METALS</u>
<u>1350</u>	<u>40ML/1L</u>	<u>G/G</u>	<u> </u>	<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HCL/NONE</u>	<u>VOCS/SVCS</u>

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader JOHN BRAYTON
name

John Brayton
signature

Groundwater Sample Collection



Project/Phase	<u>19119232</u>	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	<u>8.11</u>	ft. BMP
Site Location	<u>UPRR-HWPW</u>		<input type="checkbox"/> Decon between locations	Casing Stickup	<u>-</u>	ft.
Date	<u>7-21-20</u>	Reference Point	<input checked="" type="checkbox"/> Top of casing	<input type="checkbox"/> Depth to Water	<u>8.11</u>	ft. BGL
MW ID	<u>MW47A</u>	Location	Other _____	Total MW Depth	<u>25.10</u>	ft. BGL
Sample ID	<u>WG-1620-MW47A-20200621</u>	Water Quality		MW Diameter	<u>2.0</u>	inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	<u>HORIBA</u>	MW Volume	<u>1</u>	gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	<u>U-50</u>	Pump Intake Depth	<u>1</u>	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C)	pH	Conductivity (µS/m or mS/cm)	Dissolved Oxygen (mg/L)	Redox Potential (mV)	Turbidity (NTU)
1456				<input type="checkbox"/> NM	<input type="checkbox"/> NM	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> NM
1506	<u>.2</u>	<u>/</u>	<u>8.39</u>	<u>25.1</u>	<u>6.67</u>	<u>746</u>	<u>1.09</u>	<u>-60</u>	<u>21</u>
1511	<u>↓</u>	<u>/</u>	<u>8.41</u>	<u>25.1</u>	<u>6.70</u>	<u>731</u>	<u>0.90</u>	<u>-61</u>	<u>16</u>
1516	<u>↓</u>	<u>/</u>	<u>8.42</u>	<u>25.0</u>	<u>6.71</u>	<u>734</u>	<u>0.91</u>	<u>-62</u>	<u>17</u>
Purging was completed based on: <input checked="" type="checkbox"/> stabilization of water quality parameters <input type="checkbox"/> removal of three well volumes <input type="checkbox"/> removal of at least one half well volume (low yield well)									

Bottles Collected				Filtration	Preserved	Notes and Observations
Time	Volume	Composition (G / P)	No.	(10µm / 45µm)	(type)	(quality control sample, other)
	<u>60ML</u>	<u>P</u>	<u>1</u>	<input type="checkbox"/> filtered <input type="checkbox"/> unfiltered	<u>HNO3</u>	<u>METALS</u>
	<u>40ML / 1L</u>	<u>G/G</u>		<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HCL / NONE</u>	<u>VOCs / SVOCs</u>

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader JOHN BEAYTON name John Beayton signature

Groundwater Sample Collection



Project/Phase	<u>19119232</u>	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	<u>17.47</u>	ft. BMP
Site Location	<u>UPRR-HWPW</u>		<input type="checkbox"/> Decon between locations	Casing Stickup	<u>-</u>	ft.
Date	<u>7-16-20</u>	Reference Point	<input checked="" type="checkbox"/> Top of casing	<input type="checkbox"/> Depth to Water	<u>17.47</u>	ft. BGL
MW ID	<u>MW47C</u>	Location	Other _____	Total MW Depth	<u>67.0</u>	ft. BGL
Sample ID	<u>WG-1620-MW47C-20200716</u>	Water Quality		MW Diameter	<u>2.0</u>	inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	<u>HORIBA</u>	MW Volume	<u>1</u>	gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	<u>U-50</u>	Pump Intake Depth	<u>1</u>	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C)	pH	Conductivity (µS/m or mS/cm)	Dissolved Oxygen (mg/L)	Redox Potential (mV)	Turbidity (NTU)
1518				<input type="checkbox"/> NM	<input type="checkbox"/> NM	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> NM
1528	<u>1.2</u>	<u>/</u>	<u>17.72</u>	<u>24.4</u>	<u>6.51</u>	<u>713</u>	<u>0.86</u>	<u>-81</u>	<u>8.1</u>
1533	<u>↓</u>	<u>/</u>	<u>17.73</u>	<u>24.6</u>	<u>6.44</u>	<u>681</u>	<u>0.72</u>	<u>-76</u>	<u>5.7</u>
1538	<u>↓</u>	<u>/</u>	<u>17.72</u>	<u>24.7</u>	<u>6.46</u>	<u>679</u>	<u>0.74</u>	<u>-79</u>	<u>6.2</u>
Purging was completed based on: <input checked="" type="checkbox"/> stabilization of water quality parameters <input type="checkbox"/> removal of three well volumes <input type="checkbox"/> removal of at least one half well volume (low yield well)									

Bottles Collected				Filtration (10µm / 45µm)	Preserved (type)	Notes and Observations (quality control sample, other)
Time	Volume	Composition (G / P)	No.			
1550	<u>60ML</u>	<u>P</u>	<u>1</u>	<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HNO₃</u>	<u>METALS</u>
1550	<u>40ML / 1L</u>	<u>G / G</u>		<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HCL / NONE</u>	<u>VOCS / SVOCs</u>

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader JOHN BRAYTON name John Brayton signature

Groundwater Sample Collection



Project/Phase	<u>19119232</u>	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	<u>17.87</u>	ft. BMP
Site Location	<u>UPRR - HWPW</u>		<input type="checkbox"/> Decon between locations	Casing Stickup	<u>-</u>	ft.
Date	<u>7-16-20</u>	Reference Point	<input checked="" type="checkbox"/> Top of casing	<input type="checkbox"/> Depth to Water	<u>17.87</u>	ft. BGL
MW ID	<u>MW48C</u>	Location	Other _____	Total MW Depth	<u>-</u>	ft. BGL
Sample ID	<u>WG-1620-MW48-20200716</u>	Water Quality		MW Diameter	<u>2.0</u>	inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	<u>HORIBA</u>	MW Volume	<u>1</u>	gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	<u>U-50</u>	Pump Intake Depth	<u>-</u>	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C)	pH	Conductivity (µS/m or mS/cm)	Dissolved Oxygen (mg/L)	Redox Potential (mV)	Turbidity (NTU)
1703				<input type="checkbox"/> NM	<input type="checkbox"/> NM	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> NM
1713	<u>1.2</u>	<u>/</u>	<u>18.06</u>	<u>23.1</u>	<u>6.81</u>	<u>1160</u>	<u>0.86</u>	<u>-77</u>	<u>21</u>
1718	<u>↓</u>	<u>/</u>	<u>18.07</u>	<u>23.3</u>	<u>6.85</u>	<u>1160</u>	<u>0.70</u>	<u>-72</u>	<u>15</u>
1723	<u>↓</u>	<u>/</u>	<u>18.06</u>	<u>23.4</u>	<u>6.84</u>	<u>1170</u>	<u>0.71</u>	<u>-71</u>	<u>17</u>
Purging was completed based on: <input checked="" type="checkbox"/> stabilization of water quality parameters <input type="checkbox"/> removal of three well volumes <input type="checkbox"/> removal of at least one half well volume (low yield well)									

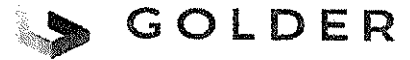
Bottles Collected				Filtration (10µm / 45µm)	Preserved (type)	Notes and Observations (quality control sample, other)
Time	Volume	Composition (G / P)	No.			
<u>1735</u>	<u>60ML</u>	<u>P</u>	<u>1</u>	<input checked="" type="checkbox"/> filtered <input type="checkbox"/> unfiltered	<u>HNO3</u>	<u>METALS</u>
<u>1735</u>	<u>40ML / 1L</u>	<u>G/G</u>		<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HCL / NONE</u>	<u>VOCS / SVOCs</u>

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader JOHN BRAYTON name John Brayton signature

Groundwater Sample Collection



Project/Phase	<u>19119232</u>	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	<u>10.52</u>	ft. BMP
Site Location	<u>UPRR-HWPW</u>		<input type="checkbox"/> Decon between locations	Casing Stickup	<u>-</u>	ft.
Date	<u>7-16-20</u>	Reference Point	<input checked="" type="checkbox"/> Top of casing	<input type="checkbox"/> Depth to Water	<u>10.52</u>	ft. BGL
MW ID	<u>MW49A</u>	Location	Other _____	Total MW Depth	<u>30.10</u>	ft. BGL
Sample ID	<u>WG-162D-MW49A-202006716</u>	Water Quality		MW Diameter	<u>2.0</u>	inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	<u>HORIBA</u>	MW Volume	<u>1</u>	gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	<u>U-50</u>	Pump Intake Depth	<u>1</u>	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C)	pH	Conductivity (µS/m or mS/cm)	Dissolved Oxygen (mg/L)	Redox Potential (mV)	Turbidity (NTU)
<u>1612</u>	<u>1.2</u>	<u>/</u>	<u>10.81</u>	<u>24.1</u>	<u>6.81</u>	<u>1060</u>	<u>1.13</u>	<u>-61</u>	<u>6.1</u>
<u>1627</u>	<u>↓</u>	<u>/</u>	<u>10.82</u>	<u>24.1</u>	<u>6.77</u>	<u>1610</u>	<u>1.11</u>	<u>-51</u>	<u>6.1</u>
<u>1632</u>	<u>↓</u>	<u>/</u>	<u>10.82</u>	<u>24.2</u>	<u>6.79</u>	<u>1020</u>	<u>1.13</u>	<u>-52</u>	<u>4.2</u>
Purging was completed based on:		<input checked="" type="checkbox"/> stabilization of water quality parameters <input type="checkbox"/> removal of three well volumes <input type="checkbox"/> removal of at least one half well volume (low yield well)							

Bottles Collected				Filtration (10µm / 45µm)	Preserved (type)	Notes and Observations (quality control sample, other)
Time	Volume	Composition (G / P)	No.			
<u>1645</u>	<u>60ML</u>	<u>P</u>	<u>1</u>	<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HNO3</u>	<u>METALS</u>
<u>1645</u>	<u>40ML / 1L</u>	<u>G/G</u>		<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HCL / NONE</u>	<u>VOCS / SVOCs</u>

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader JOHN BRAYTON name John Brayton signature

Groundwater Sample Collection



Project/Phase	<u>19119232</u>	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	<u>10.54</u>	ft. BMP
Site Location	<u>UPRR-HWPW</u>		<input type="checkbox"/> Decon between locations	Casing Stickup	<u>-</u>	ft.
Date	<u>7-21-20</u>	Reference Point	<input checked="" type="checkbox"/> Top of casing	<input type="checkbox"/> Depth to Water	<u>10.54</u>	ft. BGL
MW ID	<u>MW49B</u>	Location	Other _____	Total MW Depth	<u>32.80</u>	ft. BGL
Sample ID	<u>WG-162D-MW49B-20200721</u>	Water Quality		MW Diameter	<u>2.0</u>	inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	<u>HORIBA</u>	MW Volume	<u>1</u>	gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	<u>U-50</u>	Pump Intake Depth	<u>1</u>	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C)	pH	Conductivity (µS/m or mS/cm)	Dissolved Oxygen (mg/L)	Redox Potential (mV)	Turbidity (NTU)
<u>1121</u>	<u>1.2</u>	<u>/</u>	<u>10.81</u>	<u>24.1</u>	<u>6.56</u>	<u>613</u>	<u>0.61</u>	<u>-71</u>	<u>7.3</u>
<u>1136</u>	<u>↓</u>	<u>/</u>	<u>10.84</u>	<u>24.6</u>	<u>6.53</u>	<u>581</u>	<u>0.28</u>	<u>-65</u>	<u>5.6</u>
<u>1141</u>	<u>↓</u>	<u>/</u>	<u>10.86</u>	<u>24.7</u>	<u>6.52</u>	<u>586</u>	<u>0.29</u>	<u>-67</u>	<u>6.1</u>
Purging was completed based on:		<input checked="" type="checkbox"/> stabilization of water quality parameters <input type="checkbox"/> removal of three well volumes <input type="checkbox"/> removal of at least one half well volume (low yield well)							

Bottles Collected				Filtration	Preserved	Notes and Observations
Time	Volume	Composition (G / P)	No.	(10µm / 45µm)	(type)	(quality control sample, other)
<u>1155</u>	<u>60ML</u>	<u>P</u>	<u>1</u>	<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HNO3</u>	<u>METALS</u>
<u>1155</u>	<u>40ML / 1L</u>	<u>G/G</u>		<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HCL / NONE</u>	<u>VOCS / SVOCS</u>

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader JOHN BRAYTON
name

John Brayton
signature

Groundwater Sample Collection



Project/Phase	<u>19119232</u>	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	<u>7.26</u>	ft. BMP
Site Location	<u>UPRR-HWPW</u>		<input type="checkbox"/> Decon between locations	Casing Stickup	<u>-</u>	ft.
Date	<u>7-20-20</u>	Reference Point	<input checked="" type="checkbox"/> Top of casing	<input type="checkbox"/> Depth to Water	<u>7.26</u>	ft. BGL
MW ID	<u>MW50A</u>	Location	Other _____	Total MW Depth	<u>24.80</u>	ft. BGL
Sample ID	<u>WG-162D-MW50A-20200672D</u>	Water Quality		MW Diameter	<u>2.0</u>	inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	<u>HDRISA</u>	MW Volume	<u>1</u>	gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	<u>U-50</u>	Pump Intake Depth	<u>1</u>	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C)	pH	Conductivity (µS/m or mS/cm)	Dissolved Oxygen (mg/L)	Redox Potential (mV)	Turbidity (NTU)
<u>1603</u>				<input type="checkbox"/> NM	<input type="checkbox"/> NM	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> NM
<u>1613</u>	<u>1.2</u>	<u>1</u>	<u>7.46</u>	<u>23.4</u>	<u>6.71</u>	<u>577</u>	<u>0.86</u>	<u>-21</u>	<u>6.2</u>
<u>1617</u>	<u>↓</u>	<u>1</u>	<u>7.51</u>	<u>23.4</u>	<u>6.70</u>	<u>587</u>	<u>0.71</u>	<u>-17</u>	<u>7.2</u>
<u>1622</u>	<u>↓</u>	<u>1</u>	<u>7.52</u>	<u>23.6</u>	<u>6.71</u>	<u>591</u>	<u>0.76</u>	<u>-18</u>	<u>7.9</u>

Purging was completed based on: stabilization of water quality parameters removal of three well volumes removal of at least one half well volume (low yield well)

Bottles Collected				Filtration (10µm / 45µm)	Preserved (type)	Notes and Observations (quality control sample, other)
Time	Volume	Composition (G / P)	No.			
<u>1635</u>	<u>60mL</u>	<u>P</u>	<u>1</u>	<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HNO3</u>	<u>METALS</u>
<u>1635</u>	<u>40mL / 1L</u>	<u>G / G</u>		<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HCL / NONE</u>	<u>VOCS / SVOCS</u>

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader JOHN BRAYTON name John Brayton signature

Groundwater Sample Collection



Project/Phase	<u>19119232</u>	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	<u>8.02</u>	ft. BMP
Site Location	<u>UPRR-HWPW</u>		<input type="checkbox"/> Decon between locations	Casing Stickup	<u>-</u>	ft.
Date	<u>7-16-20</u>	Reference Point	<input checked="" type="checkbox"/> Top of casing	<input type="checkbox"/> Depth to Water	<u>8.02</u>	ft. BGL
MW ID	<u>MW50B</u>	Location	Other _____	Total MW Depth	<u>37.70</u>	ft. BGL
Sample ID	<u>WG-1620-MW50B-20200716</u>	Water Quality		MW Diameter	<u>2.0</u>	inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	<u>HDR13A</u>	MW Volume	<u>1</u>	gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	<u>U-50</u>	Pump Intake Depth	<u>1</u>	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C)	pH	Conductivity (µS/m or mS/cm)	Dissolved Oxygen (mg/L)	Redox Potential (mV)	Turbidity (NTU)
1329				<input type="checkbox"/> NM	<input type="checkbox"/> NM	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> NM
1339	<u>1.2</u>	<u>/</u>	<u>8.22</u>	<u>23.4</u>	<u>6.81</u>	<u>591</u>	<u>0.56</u>	<u>-91</u>	<u>11</u>
1344	<u>↓</u>	<u>/</u>	<u>8.23</u>	<u>23.6</u>	<u>6.88</u>	<u>577</u>	<u>0.33</u>	<u>-84</u>	<u>7.2</u>
1349	<u>↓</u>	<u>/</u>	<u>8.23</u>	<u>23.6</u>	<u>6.91</u>	<u>579</u>	<u>0.34</u>	<u>-86</u>	<u>9.1</u>
Purging was completed based on: <input checked="" type="checkbox"/> stabilization of water quality parameters <input type="checkbox"/> removal of three well volumes <input type="checkbox"/> removal of at least one half well volume (low yield well)									

Bottles Collected				Filtration	Preserved	Notes and Observations
Time	Volume	Composition (G / P)	No.	(10µm / 45µm)	(type)	(quality control sample, other)
<u>1400</u>	<u>60mL</u>	<u>P</u>	<u>1</u>	<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HNO3</u>	<u>METALS</u>
<u>1400</u>	<u>40mL / 1L</u>	<u>G/G</u>		<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HCL / NONE</u>	<u>VOCS / SVOCS</u>

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader JOHN BRAYTON name John Brayton signature

Groundwater Sample Collection



Project/Phase	<u>19119232</u>	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	<u>7.56</u>	ft. BMP
Site Location	<u>UPRR-HWPW</u>		<input type="checkbox"/> Decon between locations	Casing Stickup	<u>-</u>	ft.
Date	<u>7-16-20</u>	Reference Point	<input checked="" type="checkbox"/> Top of casing	<input type="checkbox"/> Depth to Water	<u>7.56</u>	ft. BGL
MW ID	<u>MWS1A</u>	Location	Other _____	Total MW Depth	<u>24.90</u>	ft. BGL
Sample ID	<u>WG-1620-MWS1A-20200716</u>	Water Quality		MW Diameter	<u>2.0</u>	inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	<u>HORIBA</u>	MW Volume	<u>1</u>	gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	<u>U-50</u>	Pump Intake Depth	<u>1</u>	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C)	pH	Conductivity (µS/m or mS/cm)	Dissolved Oxygen (mg/L)	Redox Potential (mV)	Turbidity (NTU)
<u>0852</u>	<u>1.2</u>	<u>/</u>	<u>7.81</u>	<u>22.6</u>	<u>7.09</u>	<u>781</u>	<u>1.06</u>	<u>-102</u>	<u>4.9</u>
<u>0907</u>	<u>↓</u>	<u>/</u>	<u>7.81</u>	<u>22.7</u>	<u>7.03</u>	<u>762</u>	<u>0.70</u>	<u>-104</u>	<u>2.6</u>
<u>0912</u>	<u>↓</u>	<u>/</u>	<u>7.82</u>	<u>22.7</u>	<u>7.02</u>	<u>767</u>	<u>0.71</u>	<u>-101</u>	<u>3.6</u>
Purging was completed based on:		<input checked="" type="checkbox"/> stabilization of water quality parameters <input type="checkbox"/> removal of three well volumes <input type="checkbox"/> removal of at least one half well volume (low yield well)							

Bottles Collected				Filtration	Preserved	Notes and Observations
Time	Volume	Composition (G / P)	No.	(10µm / 45µm)	(type)	(quality control sample, other)
<u>0925</u>	<u>60ML</u>	<u>P</u>	<u>1</u>	<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HNO3</u>	<u>METALS</u>
<u>0925</u>	<u>40ML / 1L</u>	<u>G/G</u>		<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HCL / NONE</u>	<u>VOCS / SVOCS</u>

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader JOHN BRAYTON name John Brayton signature

Groundwater Sample Collection



Project/Phase	<u>19119232</u>	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	<u>18.12</u>	ft. BMP
Site Location	<u>UPRR-HWPW</u>		<input type="checkbox"/> Decon between locations	Casing Stickup	<u>-</u>	ft.
Date	<u>7-16-20</u>	Reference Point	<input checked="" type="checkbox"/> Top of casing	<input type="checkbox"/> Depth to Water	<u>18.12</u>	ft. BGL
MW ID	<u>MWSIC</u>	Location	Other _____	Total MW Depth	<u>72.70</u>	ft. BGL
Sample ID	<u>WG-1620-MWSIC-20200716</u>	Water Quality		MW Diameter	<u>2.0</u>	inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	<u>HDR15A</u>	MW Volume	<u>1</u>	gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	<u>U-50</u>	Pump Intake Depth	<u>1</u>	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C)	pH	Conductivity (µS/m or mS/cm)	Dissolved Oxygen (mg/L)	Redox Potential (mV)	Turbidity (NTU)
<u>0806</u>				<input type="checkbox"/> NM	<input type="checkbox"/> NM	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> NM
<u>0816</u>	<u>.2</u>	<u>/</u>	<u>18.31</u>	<u>24.6</u>	<u>7.16</u>	<u>946</u>	<u>1.09</u>	<u>-6</u>	<u>26</u>
<u>0821</u>	<u>↓</u>	<u>/</u>	<u>18.30</u>	<u>24.7</u>	<u>7.14</u>	<u>729</u>	<u>0.84</u>	<u>-2</u>	<u>16</u>
<u>0826</u>	<u>↓</u>	<u>/</u>	<u>18.29</u>	<u>24.8</u>	<u>7.13</u>	<u>926</u>	<u>0.84</u>	<u>-3</u>	<u>18</u>

Purging was completed based on: stabilization of water quality parameters removal of three well volumes removal of at least one half well volume (low yield well)

Bottles Collected				Filtration (10µm / 45µm)	Preserved (type)	Notes and Observations (quality control sample, other)
Time	Volume	Composition (G / P)	No.			
<u>0835</u>	<u>60ML</u>	<u>P</u>	<u>1</u>	<input checked="" type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HNO3</u>	<u>METALS</u>
<u>0835</u>	<u>40ML / 1L</u>	<u>G/G</u>		<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HCL / NONE</u>	<u>VOCS / SVOCS</u>

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader JOHN BRAYTON
name

John Brayton
signature

Groundwater Sample Collection



Project/Phase	<u>19119232</u>	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	<u>14.52</u>	ft. BMP
Site Location	<u>UPRR-HWPW</u>		<input type="checkbox"/> Decon between locations	Casing Stickup	<u>-</u>	ft.
Date	<u>7-23-20</u>	Reference Point	<input checked="" type="checkbox"/> Top of casing	<input type="checkbox"/> Depth to Water	<u>14.52</u>	ft. BGL
MW ID	<u>MWS3C</u>	Location	Other _____	Total MW Depth	<u>76.05</u>	ft. BGL
Sample ID	<u>WG-162D-MWS3C-201906P3</u>	Water Quality		MW Diameter	<u>2.0</u>	inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	<u>HORIBA</u>	MW Volume	<u>1</u>	gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	<u>U-50</u>	Pump Intake Depth	<u>1</u>	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C)	pH	Conductivity (µS/m or mS/cm)	Dissolved Oxygen (mg/L)	Redox Potential (mV)	Turbidity (NTU)
<u>0712</u>	<u>1.2</u>	<u>/</u>	<u>14.79</u>	<u>25.2</u>	<u>6.51</u>	<u>1030</u>	<u>1.59</u>	<u>-91</u>	<u>26</u>
<u>0722</u>	<u>↓</u>	<u>/</u>	<u>14.77</u>	<u>25.1</u>	<u>6.46</u>	<u>1060</u>	<u>1.42</u>	<u>-84</u>	<u>27</u>
<u>0732</u>	<u>↓</u>	<u>/</u>	<u>14.76</u>	<u>25.1</u>	<u>6.47</u>	<u>1070</u>	<u>1.47</u>	<u>-86</u>	<u>26</u>
Purging was completed based on: <input checked="" type="checkbox"/> stabilization of water quality parameters <input type="checkbox"/> removal of three well volumes <input type="checkbox"/> removal of at least one half well volume (low yield well)									

Bottles Collected				Filtration (10µm / 45µm)	Preserved (type)	Notes and Observations (quality control sample, other)
Time	Volume	Composition (G / P)	No.			
<u>0745</u>	<u>60mL</u>	<u>P</u>	<u>1</u>	<input checked="" type="checkbox"/> filtered <input type="checkbox"/> unfiltered	<u>HNO3</u>	<u>METALS</u>
<u>0745</u>	<u>40mL / 1L</u>	<u>G/G</u>		<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HCL / NONE</u>	<u>VOCS / SVOCS</u>

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader JOHN BRAYTON name John Brayton signature

Groundwater Sample Collection



Project/Phase	<u>19119232</u>	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	<u>14.71</u>	ft. BMP
Site Location	<u>UPRR-HWPW</u>		<input type="checkbox"/> Decon between locations	Casing Stickup	<u>-</u>	ft.
Date	<u>7-22-20</u>	Reference Point	<input checked="" type="checkbox"/> Top of casing	<input type="checkbox"/> Depth to Water	<u>14.71</u>	ft. BGL
MW ID	<u>MW54B</u>	Location	Other _____	Total MW Depth	<u>40.05</u>	ft. BGL
Sample ID	<u>WG-162D-MW54B-20200722</u>	Water Quality		MW Diameter	<u>2.0</u>	inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	<u>HDR13A</u>	MW Volume	<u>1</u>	gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	<u>U-50</u>	Pump Intake Depth	<u>1</u>	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C)	pH	Conductivity (µS/m or mS/cm)	Dissolved Oxygen (mg/L)	Redox Potential (mV)	Turbidity (NTU)
<u>1512</u>				<input type="checkbox"/> NM	<input type="checkbox"/> NM	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> NM
<u>1522</u>	<u>.2</u>	<u>/</u>	<u>15.02</u>	<u>23.9</u>	<u>6.26</u>	<u>1060</u>	<u>1.71</u>	<u>-74</u>	<u>29</u>
<u>1527</u>	<u>↓</u>	<u>/</u>	<u>15.06</u>	<u>23.6</u>	<u>6.31</u>	<u>1020</u>	<u>1.51</u>	<u>-61</u>	<u>26</u>
<u>1532</u>	<u>↓</u>	<u>/</u>	<u>15.07</u>	<u>23.6</u>	<u>6.32</u>	<u>1030</u>	<u>1.46</u>	<u>-62</u>	<u>26</u>

Purging was completed based on: stabilization of water quality parameters removal of three well volumes removal of at least one half well volume (low yield well)

Bottles Collected				Filtration (10µm / 45µm)	Preserved (type)	Notes and Observations (quality control sample, other)
Time	Volume	Composition (G / P)	No.			
<u>1515</u>	<u>60ML</u>	<u>P</u>	<u>1</u>	<input checked="" type="checkbox"/> filtered <input type="checkbox"/> unfiltered	<u>HNO3</u>	<u>METALS</u>
<u>1515</u>	<u>40ML / IL</u>	<u>G/G</u>		<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HCL / NONE</u>	<u>VOCS / SVOCS</u>

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader JOHN BRAYTON name John Brayton signature

Groundwater Sample Collection



Project/Phase	<u>19119232</u>	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	<u>16.42</u>	ft. BMP
Site Location	<u>UPRR-HWPW</u>		<input type="checkbox"/> Decon between locations	Casing Stickup	<u>-</u>	ft.
Date	<u>7-22-20</u>	Reference Point	<input checked="" type="checkbox"/> Top of casing	<input type="checkbox"/> Depth to Water	<u>16.42</u>	ft. BGL
MW ID	<u>MWS4C</u>	Location	Other _____	Total MW Depth	<u>72.10</u>	ft. BGL
Sample ID	<u>WG-1620-MWS4C-20200722</u>	Water Quality		MW Diameter	<u>1</u>	inches
Pump	<input type="checkbox"/> Watterra <input type="checkbox"/> Submersible	Meter Model	<u>HDRISA</u>	MW Volume	<u>1</u>	gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	<u>U-50</u>	Pump Intake Depth	<u>1</u>	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C)	pH	Conductivity (µS/m or mS/cm)	Dissolved Oxygen (mg/L)	Redox Potential (mV)	Turbidity (NTU)
<u>1417</u>				<input type="checkbox"/> NM	<input type="checkbox"/> NM	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> NM
<u>1429</u>	<u>.2</u>	<u>/</u>	<u>16.67</u>	<u>24.2</u>	<u>6.71</u>	<u>1260</u>	<u>1.91</u>	<u>-81</u>	<u>6.7</u>
<u>1432</u>	<u>↓</u>	<u>/</u>	<u>16.69</u>	<u>24.1</u>	<u>6.72</u>	<u>1280</u>	<u>1.77</u>	<u>-70</u>	<u>5.1</u>
<u>1437</u>	<u>↓</u>	<u>/</u>	<u>16.67</u>	<u>24.1</u>	<u>6.67</u>	<u>1290</u>	<u>1.76</u>	<u>-71</u>	<u>5.2</u>
Purging was completed based on: <input checked="" type="checkbox"/> stabilization of water quality parameters <input type="checkbox"/> removal of three well volumes <input type="checkbox"/> removal of at least one half well volume (low yield well)									

Bottles Collected				Filtration	Preserved	Notes and Observations
Time	Volume	Composition (G / P)	No.	(10µm / 45µm)	(type)	(quality control sample, other)
<u>1450</u>	<u>60mL</u>	<u>P</u>	<u>1</u>	<input type="checkbox"/> filtered <input type="checkbox"/> unfiltered	<u>HNO3</u>	<u>METALS</u>
<u>1450</u>	<u>40mL / L</u>	<u>G/G</u>		<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HCL / NONE</u>	<u>VOCS / SVOCS</u>

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader JOHN BRAYTON name John Brayton signature

WG-1620-DUP03-20200722
1450-sample time

Groundwater Sample Collection



Project/Phase	<u>19119232</u>	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	<u>13.18</u>	ft. BMP
Site Location	<u>UPRR-HWPW</u>		<input type="checkbox"/> Decon between locations	Casing Stickup	<u>-</u>	ft.
Date	<u>7-15-20</u>	Reference Point	<input checked="" type="checkbox"/> Top of casing	<input type="checkbox"/> Depth to Water	<u>13.18</u>	ft. BGL
MW ID	<u>MW57A</u>	Location	Other _____	Total MW Depth	<u>25.95</u>	ft. BGL
Sample ID	<u>WG-162D-MW57A-20160715</u>	Water Quality		MW Diameter	<u>2.0</u>	inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	<u>HORIBA</u>	MW Volume	<u>1</u>	gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	<u>U-50</u>	Pump Intake Depth	<u>1</u>	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C)	pH	Conductivity (µS/m or mS/cm)	Dissolved Oxygen (mg/L)	Redox Potential (mV)	Turbidity (NTU)
<u>0833</u>	<u>1.2</u>	<u>/</u>	<u>13.41</u>	<u>24.8</u>	<u>6.41</u>	<u>1320</u>	<u>1.42</u>	<u>-61</u>	<u>4.6</u>
<u>0847</u>	<u>↓</u>	<u>/</u>	<u>13.43</u>	<u>24.7</u>	<u>6.33</u>	<u>1370</u>	<u>1.30</u>	<u>-59</u>	<u>7.2</u>
<u>0854</u>	<u>↓</u>	<u>/</u>	<u>13.42</u>	<u>24.7</u>	<u>6.34</u>	<u>1360</u>	<u>1.29</u>	<u>-62</u>	<u>7.2</u>
Purging was completed based on:		<input checked="" type="checkbox"/> stabilization of water quality parameters <input type="checkbox"/> removal of three well volumes <input type="checkbox"/> removal of at least one half well volume (low yield well)							

Bottles Collected				Filtration (10µm / 45µm)	Preserved (type)	Notes and Observations (quality control sample, other)
Time	Volume	Composition (G / P)	No.			
<u>0910</u>	<u>60mL</u>	<u>P</u>	<u>1</u>	<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HNO₃</u>	<u>METALS</u>
<u>0910</u>	<u>40mL / 1L</u>	<u>G/G</u>		<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HCL / NONE</u>	<u>VOCS / SVOCS</u>

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader JOHN BRAYTON name John Brayton signature

Groundwater Sample Collection



Project/Phase	<u>19119232</u>	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	<u>14.64</u>	ft. BMP
Site Location	<u>UPRR-HWPW</u>		<input type="checkbox"/> Decon between locations	Casing Stickup	<u>-</u>	ft.
Date	<u>7-15-20</u>	Reference Point	<input checked="" type="checkbox"/> Top of casing	<input type="checkbox"/> Depth to Water	<u>14.64</u>	ft. BGL
MW ID	<u>MW57B</u>	Location	Other _____	Total MW Depth	<u>42.50</u>	ft. BGL
Sample ID	<u>WG-162D-MW57B-20A00715</u>	Water Quality		MW Diameter	<u>2.0</u>	inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	<u>HORIBA</u>	MW Volume	<u>1</u>	gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	<u>U-50</u>	Pump Intake Depth	<u>1</u>	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C)	pH	Conductivity (µS/m or mS/cm)	Dissolved Oxygen (mg/L)	Redox Potential (mV)	Turbidity (NTU)
<u>0743</u>				<input type="checkbox"/> NM	<input type="checkbox"/> NM	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> NM
<u>0752</u>	<u>.2</u>	<u>/</u>	<u>14.89</u>	<u>24.1</u>	<u>6.81</u>	<u>739</u>	<u>1.92</u>	<u>-76</u>	<u>8.6</u>
<u>0757</u>	<u>↓</u>	<u>/</u>	<u>14.92</u>	<u>24.2</u>	<u>6.87</u>	<u>726</u>	<u>1.52</u>	<u>-80</u>	<u>9.2</u>
<u>0804</u>	<u>↓</u>	<u>/</u>	<u>14.91</u>	<u>24.2</u>	<u>6.86</u>	<u>729</u>	<u>1.56</u>	<u>-81</u>	<u>9.1</u>
Purging was completed based on: <input checked="" type="checkbox"/> stabilization of water quality parameters <input type="checkbox"/> removal of three well volumes <input type="checkbox"/> removal of at least one half well volume (low yield well)									

Bottles Collected				Filtration	Preserved	Notes and Observations
Time	Volume	Composition (G / P)	No.	(10µm / 45µm)	(type)	(quality control sample, other)
<u>0815</u>	<u>60mL</u>	<u>P</u>	<u>1</u>	<input type="checkbox"/> filtered <input type="checkbox"/> unfiltered	<u>HNO3</u>	<u>METALS</u>
<u>0815</u>	<u>40mL/1L</u>	<u>G/G</u>		<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HCL/NONE</u>	<u>VOCS/SVOCS</u>

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader JOHN BRAYTON name John Brayton signature

Groundwater Sample Collection



Project/Phase	<u>19119232</u>	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	<u>11.27</u>	ft. BMP
Site Location	<u>UPRR-HWPW</u>		<input type="checkbox"/> Decon between locations	Casing Stickup	<u>0</u>	ft.
Date	<u>7-15-20</u>	Reference Point	<input checked="" type="checkbox"/> Top of casing	<input type="checkbox"/> Depth to Water	<u>11.27</u>	ft. BGL
MW ID	<u>MW58A</u>	Location	Other _____	Total MW Depth	<u>28.60</u>	ft. BGL
Sample ID	<u>WG-162D-MW58A-20200715</u>	Water Quality		MW Diameter	<u>2.0</u>	inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	<u>HORIBA</u>	MW Volume	<u>1</u>	gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	<u>U-50</u>	Pump Intake Depth	<u>1</u>	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C)	pH	Conductivity (µS/m or mS/cm)	Dissolved Oxygen (mg/L)	Redox Potential (mV)	Turbidity (NTU)
<u>0926</u>	<u>1.2</u>	<u>/</u>	<u>11.62</u>	<u>23.4</u>	<u>6.86</u>	<u>596</u>	<u>1.91</u>	<u>-103</u>	<u>11</u>
<u>0941</u>	<u>↓</u>	<u>/</u>	<u>11.61</u>	<u>23.7</u>	<u>6.91</u>	<u>570</u>	<u>1.62</u>	<u>710</u>	<u>5.2</u>
<u>0946</u>	<u>↓</u>	<u>/</u>	<u>11.61</u>	<u>23.6</u>	<u>6.92</u>	<u>572</u>	<u>1.67</u>	<u>-109</u>	<u>6.2</u>

Purging was completed based on: stabilization of water quality parameters removal of three well volumes removal of at least one half well volume (low yield well)

Bottles Collected				Filtration	Preserved	Notes and Observations
Time	Volume	Composition (G / P)	No.	(10µm / 45µm)	(type)	(quality control sample, other)
<u>0955</u>	<u>60ML</u>	<u>P</u>	<u>1</u>	<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HNO3</u>	<u>METALS</u>
<u>0955</u>	<u>40ML / 1L</u>	<u>G/G</u>	<u>1</u>	<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HCL / NONE</u>	<u>VOCS / SVOCs</u>

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader JOHN BRAYTON
name

John Brayton
signature

Groundwater Sample Collection



Project/Phase	<u>19119232</u>	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	<u>8.71</u>	ft. BMP
Site Location	<u>UPRR-HWPW</u>		<input type="checkbox"/> Decon between locations	Casing Stickup	<u>-</u>	ft.
Date	<u>7-21-20</u>	Reference Point	<input checked="" type="checkbox"/> Top of casing	<input type="checkbox"/> Depth to Water	<u>8.71</u>	ft. BGL
MW ID	<u>MW59A</u>	Location	Other _____	Total MW Depth	<u>20.60</u>	ft. BGL
Sample ID	<u>WG-1620-MW59A-20200721</u>	Water Quality		MW Diameter	<u>2.0</u>	inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	<u>HORIBA</u>	MW Volume	<u>1</u>	gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	<u>U-50</u>	Pump Intake Depth	<u>1</u>	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C)	pH	Conductivity (µS/m or mS/cm)	Dissolved Oxygen (mg/L)	Redox Potential (mV)	Turbidity (NTU)
<u>1636</u>	<u>1.2</u>	<u>/</u>	<u>9.06</u>	<u>24.6</u>	<u>6.79</u>	<u>636</u>	<u>1.34</u>	<u>-71</u>	<u>6.7</u>
<u>1651</u>	<u>↓</u>	<u>/</u>	<u>9.11</u>	<u>24.6</u>	<u>6.71</u>	<u>669</u>	<u>1.46</u>	<u>-61</u>	<u>5.4</u>
<u>1656</u>	<u>↓</u>	<u>/</u>	<u>9.12</u>	<u>24.7</u>	<u>6.72</u>	<u>679</u>	<u>1.41</u>	<u>-62</u>	<u>5.2</u>
Purging was completed based on: <input checked="" type="checkbox"/> stabilization of water quality parameters <input type="checkbox"/> removal of three well volumes <input type="checkbox"/> removal of at least one half well volume (low yield well)									

Bottles Collected				Filtration (10µm / 45µm)	Preserved (type)	Notes and Observations (quality control sample, other)
Time	Volume	Composition (G / P)	No.			
<u>1710</u>	<u>60ML</u>	<u>P</u>	<u>1</u>	<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HNO₃</u>	<u>METALS</u>
<u>1710</u>	<u>40ML/1L</u>	<u>G/G</u>	<u>1</u>	<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HCL/NONE</u>	<u>VOCS/SVCS</u>

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader JOHN BRAYTON name John Brayton signature

Groundwater Sample Collection



Project/Phase	<u>19119232</u>	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	<u>8.62</u>	ft. BMP
Site Location	<u>UPRR-HWPW</u>		<input type="checkbox"/> Decon between locations	Casing Stickup	<u>-</u>	ft.
Date	<u>7-21-20</u>	Reference Point	<input checked="" type="checkbox"/> Top of casing	<input type="checkbox"/> Depth to Water	<u>8.62</u>	ft. BGL
MW ID	<u>MW59B</u>	Location	Other _____	Total MW Depth	<u>32.90</u>	ft. BGL
Sample ID	<u>WG-1620-MW59B-20200721</u>	Water Quality		MW Diameter	<u>2.0</u>	inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	<u>HORIBA</u>	MW Volume	<u>1</u>	gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	<u>U-50</u>	Pump Intake Depth	<u>1</u>	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C)	pH	Conductivity (µS/m or mS/cm)	Dissolved Oxygen (mg/L)	Redox Potential (mV)	Turbidity (NTU)
1552				<input type="checkbox"/> NM	<input type="checkbox"/> NM	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> NM
1602	<u>1.3</u>	<u>/</u>	<u>8.91</u>	<u>24.1</u>	<u>6.62</u>	<u>739</u>	<u>1.36</u>	<u>-76</u>	<u>4.1</u>
1607	<u>↓</u>	<u>/</u>	<u>8.92</u>	<u>24.3</u>	<u>6.51</u>	<u>728</u>	<u>1.19</u>	<u>-82</u>	<u>2.6</u>
1612	<u>↓</u>	<u>/</u>	<u>8.91</u>	<u>24.3</u>	<u>6.56</u>	<u>729</u>	<u>1.21</u>	<u>-81</u>	<u>3.1</u>
Purging was completed based on: <input checked="" type="checkbox"/> stabilization of water quality parameters <input type="checkbox"/> removal of three well volumes <input type="checkbox"/> removal of at least one half well volume (low yield well)									

Bottles Collected				Filtration (10µm / 45µm)	Preserved (type)	Notes and Observations (quality control sample, other)
Time	Volume	Composition (G / P)	No.			
<u>1625</u>	<u>60ML</u>	<u>P</u>	<u>1</u>	<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HNO₃</u>	<u>METALS</u>
<u>1625</u>	<u>40ML / 1L</u>	<u>G / G</u>		<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HCL / NONE</u>	<u>VOCs / SVOCs</u>

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader JOHN BRAYTON name John Brayton signature

Groundwater Sample Collection

Project/Phase	19119232	Equipment Decon	<input type="checkbox"/> Dedicated equipment	Depth to Water	80.01	ft. BMP
Site Location	FWPW		<input type="checkbox"/> Decon between locations	Casing Stickup	0	ft.
Date	8-3-20	Reference Point	<input checked="" type="checkbox"/> Top of casing	Depth to Water	8.01	ft. BGL
MW ID	MW 590	Location	<input type="checkbox"/> Other _____	Total MW Depth	102.1	ft. BGL
Sample ID	WG1620 MW 590 2020 0803	Water Quality		MW Diameter	2"	inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model		MW Volume		gallons
	<input type="checkbox"/> Peristaltic <input checked="" type="checkbox"/> Bladder	Unit Number		Pump Intake Depth		ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C)	pH	Conductivity (µS/m or mS/cm)	Dissolved Oxygen (mg/L)	Redox Potential (mV)	Turbidity (NTU)
				<input type="checkbox"/> NM	<input type="checkbox"/> NM	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> NM
13:15	.2	.2	80.01	36.48	6.22	0.882	4.76	136	23.0
13:25	.2	.3		36.38	6.31	0.883	4.41	126	22.4
13:30	.2	.4		36.72	6.53	0.882	4.01	119	26.8
13:35	.2	.5		36.51	6.70	0.870	4.03	114	38.0
13:40				36.47	6.68	0.837	3.88	118	46.2
13:45				36.21	6.78	0.787	3.14	107	52.3

Purging was completed based on: stabilization of water quality parameters removal of three well volumes removal of at least one half well volume (low yield well)

Bottles Collected				Filtration	Preserved (type)	Notes and Observations (quality control sample, other)
Time	Volume	Composition (G / P)	No.	10µm / 45µm		
13:45		P	6	<input checked="" type="checkbox"/> filtered <input type="checkbox"/> unfiltered		denial sample for metals
				<input type="checkbox"/> filtered <input type="checkbox"/> unfiltered		

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader Tim McSpald [Signature]
 name signature

WG1620 MW 590 2020 0803
 13:45

FB081500
 TB MC SP

Groundwater Sample Collection



Project/Phase	<u>19119232</u>	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	<u>7.29</u>	ft. BMP
Site Location	<u>UPRR-HWPW</u>		<input type="checkbox"/> Decon between locations	Casing Stickup		ft.
Date	<u>7-20-20</u>	Reference Point	<input checked="" type="checkbox"/> Top of casing	<input type="checkbox"/> Depth to Water	<u>7.29</u>	ft. BGL
MW ID	<u>MW 60AR</u>	Location	Other _____	Total MW Depth	<u>29.40</u>	ft. BGL
Sample ID	<u>WG-162D-MW60AR-20200720</u>	Water Quality		MW Diameter	<u>2.0</u>	inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	<u>HDRISA</u>	MW Volume	<u>1</u>	gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	<u>U-50</u>	Pump Intake Depth	<u>1</u>	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C)	pH	Conductivity (µS/m or mS/cm)	Dissolved Oxygen (mg/L)	Redox Potential (mV)	Turbidity (NTU)
<u>1417</u>				<input type="checkbox"/> NM	<input type="checkbox"/> NM	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> NM
<u>1427</u>	<u>1.2</u>	<u>/</u>	<u>7.61</u>	<u>24.3</u>	<u>6.46</u>	<u>936</u>	<u>0.86</u>	<u>-39</u>	<u>12</u>
<u>1432</u>	<u>↓</u>	<u>/</u>	<u>7.63</u>	<u>24.1</u>	<u>6.37</u>	<u>917</u>	<u>0.71</u>	<u>-32</u>	<u>6.1</u>
<u>1437</u>	<u>↓</u>	<u>/</u>	<u>7.64</u>	<u>24.2</u>	<u>6.39</u>	<u>921</u>	<u>0.71</u>	<u>-34</u>	<u>7.7</u>

Purging was completed based on:

stabilization of water quality parameters removal of three well volumes removal of at least one half well volume (low yield well)

Bottles Collected				Filtration (10µm / 45µm)	Preserved (type)	Notes and Observations (quality control sample, other)
Time	Volume	Composition (G / P)	No.			
<u>1450</u>	<u>60ML</u>	<u>P</u>	<u>1</u>	<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HNO₃</u>	<u>METALS</u>
<u>1450</u>	<u>40ML / 1L</u>	<u>G / G</u>		<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HCL / NONE</u>	<u>VOCS / SVOCS</u>

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader

JOHN BRAYTON
name

signature

John Brayton

Groundwater Sample Collection



Project/Phase	<u>19119232</u>	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	<u>12.41</u>	ft. BMP
Site Location	<u>UPRR-HWPW</u>		<input type="checkbox"/> Decon between locations	Casing Stickup	<u>-</u>	ft.
Date	<u>7-20-20</u>	Reference Point	<input checked="" type="checkbox"/> Top of casing	<input type="checkbox"/> Depth to Water	<u>12.41</u>	ft. BGL
MW ID	<u>MW60B</u>	Location	Other _____	Total MW Depth	<u>39.50</u>	ft. BGL
Sample ID	<u>WG-162D-MW60B-20200679D</u>	Water Quality		MW Diameter	<u>2.0</u>	inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	<u>HORIBA</u>	MW Volume	<u>1</u>	gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	<u>U-50</u>	Pump Intake Depth	<u>1</u>	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C)	pH	Conductivity (µS/m or mS/cm)	Dissolved Oxygen (mg/L)	Redox Potential (mV)	Turbidity (NTU)
<u>1502</u>				<input type="checkbox"/> NM	<input type="checkbox"/> NM	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> NM
<u>1512</u>	<u>.2</u>	<u>/</u>	<u>12.72</u>	<u>25.2</u>	<u>6.91</u>	<u>639</u>	<u>0.86</u>	<u>-106</u>	<u>21</u>
<u>1517</u>	<u>↓</u>	<u>/</u>	<u>12.74</u>	<u>25.1</u>	<u>6.84</u>	<u>641</u>	<u>0.72</u>	<u>-102</u>	<u>16</u>
<u>1522</u>	<u>↓</u>	<u>/</u>	<u>12.75</u>	<u>25.1</u>	<u>6.86</u>	<u>634</u>	<u>0.71</u>	<u>-101</u>	<u>17</u>

Purging was completed based on: stabilization of water quality parameters removal of three well volumes removal of at least one half well volume (low yield well)

Bottles Collected				Filtration (10µm / 45µm)	Preserved (type)	Notes and Observations (quality control sample, other)
Time	Volume	Composition (G / P)	No.			
<u>1535</u>	<u>60ML</u>	<u>P</u>	<u>1</u>	<input checked="" type="checkbox"/> filtered <input type="checkbox"/> unfiltered	<u>HNO3</u>	<u>METALS</u>
<u>1535</u>	<u>40ML / 1L</u>	<u>G/G</u>		<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HCL / NONE</u>	<u>VOCS / SVOCS</u>

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader JOHN BRAYTON name John Brayton signature

Groundwater Sample Collection



Project/Phase	<u>19119232</u>	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	<u>6.47</u> ft. BMP
Site Location	<u>UPRR-HWPW</u>		<input type="checkbox"/> Decon between locations	Casing Stickup	<u>-</u> ft.
Date	<u>7-20-20</u>	Reference Point	<input checked="" type="checkbox"/> Top of casing	<input type="checkbox"/> Depth to Water	<u>6.47</u> ft. BGL
MW ID	<u>MW61A</u>	Location	Other _____	Total MW Depth	<u>26.20</u> ft. BGL
Sample ID	<u>WG-162D-MW61A-20200720</u>	Water Quality		MW Diameter	<u>2.0</u> inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	<u>HORIBA</u>	MW Volume	<u>1</u> gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	<u>U-50</u>	Pump Intake Depth	<u>1</u> ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C)	pH	Conductivity (µS/m or mS/cm)	Dissolved Oxygen (mg/L)	Redox Potential (mV)	Turbidity (NTU)
1146				<input type="checkbox"/> NM	<input type="checkbox"/> NM	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> NM
1156	<u>1.2</u>	<u>/</u>	<u>6.74</u>	<u>24.6</u>	<u>6.47</u>	<u>1060</u>	<u>0.61</u>	<u>-77</u>	<u>21</u>
1261	<u>↓</u>	<u>/</u>	<u>6.76</u>	<u>24.9</u>	<u>6.42</u>	<u>1020</u>	<u>0.51</u>	<u>-71</u>	<u>18</u>
1266	<u>↓</u>	<u>/</u>	<u>6.76</u>	<u>24.9</u>	<u>6.41</u>	<u>1030</u>	<u>0.52</u>	<u>-72</u>	<u>19</u>

Purging was completed based on: stabilization of water quality parameters removal of three well volumes removal of at least one half well volume (low yield well)

Bottles Collected				Filtration (10µm / 45µm)	Preserved (type)	Notes and Observations (quality control sample, other)
Time	Volume	Composition (G / P)	No.			
<u>1230</u>	<u>60mL</u>	<u>P</u>	<u>1</u>	<input checked="" type="checkbox"/> filtered <input type="checkbox"/> unfiltered	<u>HNO₃</u>	<u>METALS</u>
<u>1230</u>	<u>40mL / 1L</u>	<u>G/G</u>		<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HCL / NONE</u>	<u>VOCS / SVOCS</u>

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader JOHN BRAYTON name John Brayton signature

Groundwater Sample Collection



Project/Phase	<u>19119232</u>	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	<u>5.13</u>	ft. BMP
Site Location	<u>UPRR-HWPW</u>		<input type="checkbox"/> Decon between locations	Casing Stickup	<u>-</u>	ft.
Date	<u>7-20-20</u>	Reference Point	<input checked="" type="checkbox"/> Top of casing	<input type="checkbox"/> Depth to Water	<u>5.13</u>	ft. BGL
MW ID	<u>MW61B</u>	Location	Other _____	Total MW Depth	<u>33.00</u>	ft. BGL
Sample ID	<u>WG-162D-MW61B-20200720</u>	Water Quality		MW Diameter	<u>2.0</u>	inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	<u>HORIBA</u>	MW Volume	<u>1</u>	gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	<u>U-50</u>	Pump Intake Depth	<u>1</u>	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C)	pH	Conductivity (µS/m or mS/cm)	Dissolved Oxygen (mg/L)	Redox Potential (mV)	Turbidity (NTU)
<u>1321</u>				<input type="checkbox"/> NM	<input type="checkbox"/> NM	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> NM
<u>1331</u>	<u>.2</u>	<u>/</u>	<u>5.32</u>	<u>23.2</u>	<u>6.71</u>	<u>926</u>	<u>0.74</u>	<u>-26</u>	<u>4.7</u>
<u>1336</u>	<u>↓</u>	<u>/</u>	<u>5.34</u>	<u>23.6</u>	<u>6.77</u>	<u>827</u>	<u>0.71</u>	<u>-21</u>	<u>6.2</u>
<u>1341</u>	<u>↓</u>	<u>/</u>	<u>5.33</u>	<u>23.7</u>	<u>6.78</u>	<u>839</u>	<u>0.72</u>	<u>-22</u>	<u>6.3</u>
Purging was completed based on: <input checked="" type="checkbox"/> stabilization of water quality parameters <input type="checkbox"/> removal of three well volumes <input type="checkbox"/> removal of at least one half well volume (low yield well)									

Bottles Collected				Filtration	Preserved	Notes and Observations
Time	Volume	Composition (G / P)	No.	(10µm / 45µm)	(type)	(quality control sample, other)
<u>1355</u>	<u>60ML</u>	<u>P</u>	<u>1</u>	<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HNO3</u>	<u>METALS</u>
<u>1355</u>	<u>40ML/1L</u>	<u>G/G</u>		<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HCL/NONE</u>	<u>VOCS/SVOCS</u>

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader JOHN BRAYTON name John Brayton signature

Groundwater Sample Collection

Page ___ of ___

Project/Phase	19119232	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	7.19	ft. BMP
Site Location	HWPW		<input type="checkbox"/> Decon between locations	Casing Stickup	3	ft.
Date	7-16-2020	Reference Point	<input checked="" type="checkbox"/> Top of casing	Depth to Water	7.19	ft. BGL
MW ID	MW 62B	Location	<input type="checkbox"/> Other _____	Total MW Depth	35.46	ft. BGL
Sample ID	WG-1620mw62B20200716	Water Quality		MW Diameter	2"	inches
Pump	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Waterra <input type="checkbox"/> Submersible <input type="checkbox"/> Bladder	Meter Model	C1108	MW Volume	4.52	gallons
		Unit Number	PIIS	Pump Intake Depth	30.	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C) <input type="checkbox"/> NM	pH <input type="checkbox"/> NM	Conductivity (µS/m or mS/cm) <input type="checkbox"/> not measured	Dissolved Oxygen (mg/L) <input type="checkbox"/> not measured	Redox Potential (mV) <input type="checkbox"/> not measured	Turbidity (NTU) <input type="checkbox"/> NM
11:00	.2	.2	7.19	25.32	6.65	1.39	3.57	-118	12.7
11:10	.2	.3	7.58	26.30	6.52	1.36	2.60	-124	11.4
11:15	.2	.4	7.47	26.39	6.39	1.37	1.58	-128	6.7
11:20	.2	.5	7.39	25.65	6.34	1.39	1.23	-132	4.7
11:25	.2	.6	7.34	25.52	6.32	1.40	0.91	-135	0.0

 Purging was completed based on: stabilization of water quality parameters removal of three well volumes removal of at least one half well volume (low yield well)

Bottles Collected				Filtration	Preserved	Notes and Observations
Time	Volume	Composition (G / P)	No.	(10µm / 45µm)	(type)	(quality control sample, other)
11:25		P	6	<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered		Clear
				<input type="checkbox"/> filtered <input type="checkbox"/> unfiltered		

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

 Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader

 name TIM McSpalden

 signature [Signature]

WG 1620 MW 62B 20200716 - 11:25

Groundwater Sample Collection



Project/Phase	<u>19119232</u>	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	<u>6.69</u> ft. BMP
Site Location	<u>UPRR-HWPW</u>		<input type="checkbox"/> Decon between locations	Casing Stickup	<u>-</u> ft.
Date	<u>7-23-20</u>	Reference Point	<input checked="" type="checkbox"/> Top of casing	<input type="checkbox"/> Depth to Water	<u>6.69</u> ft. BGL
MW ID	<u>MW63B</u>	Location	Other _____	Total MW Depth	<u>36.30</u> ft. BGL
Sample ID	<u>WG-1620-MW63B-20200723</u>	Water Quality		MW Diameter	<u>2.0</u> inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	<u>HORIBA</u>	MW Volume	<u>1</u> gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	<u>U-50</u>	Pump Intake Depth	<u>1</u> ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C)	pH	Conductivity (µS/m or mS/cm)	Dissolved Oxygen (mg/L)	Redox Potential (mV)	Turbidity (NTU)
0944				<input type="checkbox"/> NM	<input type="checkbox"/> NM	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> NM
0954	<u>.2</u>	<u>/</u>	<u>6.97</u>	<u>25.4</u>	<u>6.46</u>	<u>730</u>	<u>1.07</u>	<u>-21</u>	<u>5.1</u>
0959	<u>↓</u>	<u>/</u>	<u>6.96</u>	<u>25.0</u>	<u>6.37</u>	<u>712</u>	<u>0.91</u>	<u>-15</u>	<u>4.1</u>
1004	<u>↓</u>	<u>/</u>	<u>6.96</u>	<u>25.1</u>	<u>6.38</u>	<u>716</u>	<u>0.93</u>	<u>-16</u>	<u>4.6</u>
Purging was completed based on: <input checked="" type="checkbox"/> stabilization of water quality parameters <input type="checkbox"/> removal of three well volumes <input type="checkbox"/> removal of at least one half well volume (low yield well)									

Bottles Collected				Filtration (10µm / 45µm)	Preserved (type)	Notes and Observations (quality control sample, other)
Time	Volume	Composition (G / P)	No.			
<u>1015</u>	<u>60ML</u>	<u>P</u>	<u>1</u>	<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HNO₃</u>	<u>METALS</u>
<u>1015</u>	<u>40ML / 1L</u>	<u>G/G</u>		<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HCL / NONE</u>	<u>VOCs / SVOCs</u>

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader JOHN BRAYTON
name

John Brayton
signature

Groundwater Sample Collection



Project/Phase	19119232	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	8.80	ft. BMP
Site Location	HWPW		<input type="checkbox"/> Decon between locations	Casing Stickup	31	ft.
Date	7-15-20	Reference Point	<input checked="" type="checkbox"/> Top of casing	Depth to Water	8.80	ft. BGL
MW ID	MW 64A	Location	<input type="checkbox"/> Other _____	Total MW Depth	22.20	ft. BGL
Sample ID	WG-MW 64A 2020 0715	Water Quality		MW Diameter	3/4"	inches
Pump	<input type="checkbox"/> Watterra <input type="checkbox"/> Submersible	Meter Model	C1108	MW Volume	10.53	gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	P1115	Pump Intake Depth	20	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C) <input type="checkbox"/> NM	pH <input type="checkbox"/> NM	Conductivity (µS/m or mS/cm) <input type="checkbox"/> not measured	Dissolved Oxygen (mg/L) <input type="checkbox"/> not measured	Redox Potential (mV) <input type="checkbox"/> not measured	Turbidity (NTU) <input type="checkbox"/> NM
11:15	.2	.2	8.80	25.94	6.44	1.58	5.62	93	0.0
11:20	.2	.3		25.83	6.29	1.59	4.68	94	0.0
11:25	.2	.4		25.77	6.25	1.59	4.16	91	0.0
11:30	.2	.5		26.05	6.21	1.60	2.13	91	0.0
11:35	.2	.6		26.12	6.20	1.60	1.43	92	0.0
11:40	.2	.7	16.11	25.99	6.19	1.60	1.27	94	0.0

Purging was completed based on: stabilization of water quality parameters removal of three well volumes removal of at least one half well volume (low yield well)

Bottles Collected				Filtration	Preserved	Notes and Observations
Time	Volume	Composition (G / P)	No.	(10µm / 45µm)	(type)	(quality control sample, other)
11:40		P	6	<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered		clean
				<input type="checkbox"/> filtered <input type="checkbox"/> unfiltered		

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader T. McSpald T. McSpald
name signature

WG 1620 MW 64A 2020 0715 - 11:40

Groundwater Sample Collection

Page ___ of ___

Project/Phase	19119232	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	82.65	ft. BMP
Site Location	Harlow Hooster		<input type="checkbox"/> Decon between locations	Casing Stickup	0	ft.
Date	7-29-20	Reference Point	<input checked="" type="checkbox"/> Top of casing	Depth to Water	82.65	ft. BGL
MW ID	MW 65D	Location	<input type="checkbox"/> Other _____	Total MW Depth	102.7	ft. BGL
Sample ID	WG-1620 MW 65D 20200729	Water Quality		MW Diameter	2"	inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	C1108	MW Volume		gallons
	<input type="checkbox"/> Peristaltic <input checked="" type="checkbox"/> Bladder	Unit Number	AN131	Pump Intake Depth	100.	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C) <input type="checkbox"/> NM	pH <input type="checkbox"/> NM	Conductivity (µS/m or mS/cm) <input type="checkbox"/> not measured	Dissolved Oxygen (mg/L) <input type="checkbox"/> not measured	Redox Potential (mV) <input type="checkbox"/> not measured	Turbidity (NTU) <input type="checkbox"/> NM
12:50	.2	.2	82.65	26.98	8.93	0.251	6.07	-61	0.0
1300	.2	.3	82.97	26.94	9.21	0.252	5.91	-65	0.0
1305	.2	.4	83.11	26.72	9.98	0.268	5.89	-88	0.0
1310	.2	.5	83.41	26.64	10.14	0.283	5.75	-93	0.0
1315	.2	.6	83.64	26.51	10.26	0.293	5.80	-90	0.0
1320	.2	.7	83.79	26.29	10.25	0.313	5.61	-94	0.0

Purging was completed based on: stabilization of water quality parameters removal of three well volumes removal of at least one half well volume (low yield well)

Bottles Collected				Filtration	Preserved	Notes and Observations
Time	Volume	Composition (G / P)	No.	(10µm / 45µm)	(type)	(quality control sample, other)
		P	18	<input type="checkbox"/> filtered <input type="checkbox"/> unfiltered		Clear
				<input type="checkbox"/> filtered <input type="checkbox"/> unfiltered		

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

 Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader

 name TIMM Spodde

 signature T. Spodde

 WG-1620 MW 65D 20200729
 WG-1620 MW 65D MS 20200729

- 1320

 WG-1620 FB 11 20200729-1600
 WG-1620 TR 07 20200729

Groundwater Sample Collection

Page ___ of ___



Project/Phase	19119232	Equipment Decon	<input type="checkbox"/> Dedicated equipment	Depth to Water	81.56	ft. BMP
Site Location	HWPu		<input type="checkbox"/> Decon between locations	Casing Stickup	0	ft.
Date	8-3-20	Reference Point	<input checked="" type="checkbox"/> Top of casing	Depth to Water	102 + 81.56	BGL
MW ID	MW 66D	Location	<input type="checkbox"/> Other _____	Total MW Depth	102+	ft. BGL
Sample ID	WG1620 MW 66D 2020 0802	Water Quality		MW Diameter	2"	inches
Pump	<input type="checkbox"/> Werra <input type="checkbox"/> Submersible	Meter Model		MW Volume		gallons
	<input type="checkbox"/> Peristaltic <input checked="" type="checkbox"/> Bladder	Unit Number		Pump Intake Depth	97	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C)	pH	Conductivity (µS/m or mS/cm)	Dissolved Oxygen (mg/L)	Redox Potential (mV)	Turbidity (NTU)
				<input type="checkbox"/> NM	<input type="checkbox"/> NM	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> NM
9:30	.2	.2	81.56	28.38	5.01	0.657	5.44	156	0.0
9:40	.2	.3		28.81	5.15	0.643	5.45	132	0.0
9:45	.2	.4		29.99	5.55	0.675	5.95	129	0.0
9:50	.2	.5		28.91	5.70	0.722	5.61	121	0.0
9:55	.2	.6		28.35	6.01	0.799	2.10	-98	0.0
10:00	.2	.7	83.96	28.32	6.10	0.803	1.04	-105	0.0

Purging was completed based on: stabilization of water quality parameters removal of three well volumes removal of at least one half well volume (low yield well)

Bottles Collected				Filtration	Preserved	Notes and Observations
Time	Volume	Composition (G / P)	No.	(10µm / 45µm)	(type)	(quality control sample, other)
				<input type="checkbox"/> filtered <input type="checkbox"/> unfiltered		
				<input type="checkbox"/> filtered <input type="checkbox"/> unfiltered		

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader Tim Spald Tim Spald
 name signature

WG1620 MW 66D 2020 0802 - 945

CONF call @ 10:00
 pre labeled sample

GROUNDWATER SAMPLING RECORD

Project Number: 19119232 Project Name: HURPU Date: 10-08-2020
 Sample Number: WG-1620 MW 66D 2020 1008 Starting Water Level (ft. BMP): 81.78
 Sampling Location (well ID, etc.): MW66D Casing Stickup (ft.): 0
 Sampled by: T.M. McSpadden Starting Water Level (ft. BGL): 81.78
 Measuring Point (MP) of Well: TOC Total Depth (ft. BMP): 103+
 Screened Interval (ft. BGL): Casing Diameter (In ID): 2" PVC
 Filter Pack Interval (ft. BGL): Casing Volume (gal.):

QUALITY ASSURANCE

METHODS (describe):
 Cleaning Equipment: DI/ALCONOX
 Purging: Sampling:
 Disposal of Discharged Water: 55 gallon drum 8-18-2020

INSTRUMENTS (Indicate make, model, I.D.)

Water Level: Heron H-oil D2125 Thermometer: 11/1
 pH Meter: Hanna CI124 Field Calibration: AJAY
 Conductivity Meter: 11/1 Field Calibration:
 Filter / Filter Size: 10 micron Other:

SAMPLING MEASUREMENTS


Time	Water Depth (ft BMP)	Cum. Vol. (gal. or L)	Purge Rate (L/m)	Temp. (°C)	pH (S.U.)	Spec. Cond. (mS/cm)	D.O. (mg/L)	Redox (mV)	Turbidity (NTU)	Color
--	--	--	--	± 3%	± 0.1	± 3%	± 10% if >0.5	± 10	± 10%	--
12:30	81.78	0.1	.2	28.61	7.68	0.795	3.99	71	796	Brown
12:40	82.91	.3	.2	28.57	7.64	0.789	3.12	68	665	
12:45	83.88	.4	.2	28.59	7.63	0.787	3.16	69	584	
12:50	83.91	.5	.2	28.52	7.63	0.787	3.14	69	489	
12:55	83.89	.6	.2	28.69	7.59	0.783	3.15	70	515	
13:10	83.84	.7	.2	28.80	7.58	0.782	3.17	69	501	
13:20	83.78	.8	.2	28.89	7.57	0.780	3.21	69	477	

Water Level (ft. BMP) at End of Purge: Sample Intake Depth (ft. BMP): 90

SAMPLE INVENTORY

Bottles Collected				Filtration (Y/N)	Preservation	Remarks (quality control sample, other)
Time	Volume	Composition (G, P)	No.			
13:30	250 mL	P	1	10 micron	with Acid	

Comments:

 Golder Associates Inc.
 11231 Richmond Avenue, Suite D104
 Houston, TX 77082
 (832) 916-3690

WG1620 MW 66D 2020 1008
 WG1620 DUP 01 2020 1008 1330

Groundwater Sample Collection

Page ___ of ___



Project/Phase	19119232	Equipment Decon	<input type="checkbox"/> Dedicated equipment	Depth to Water	9.89	ft. BMP
Site Location	HWPU		<input checked="" type="checkbox"/> Decon between locations	Casing Stickup	0	ft.
Date	7-22-20	Reference Point	<input checked="" type="checkbox"/> Top of casing	Depth to Water	9.89	ft. BGL
MW ID	MW 67B	Location	<input type="checkbox"/> Other _____	Total MW Depth	39.60	ft. BGL
Sample ID	WG1620 MW 67B 20200722	Water Quality		MW Diameter	2 1/4	inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	C1118	MW Volume	4.75	gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	P1115	Pump Intake Depth	32.0	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C)	pH	Conductivity (µS/m or mS/cm)	Dissolved Oxygen (mg/L)	Redox Potential (mV)	Turbidity (NTU)
12:00	.2	.2	9.89	27.21	7.10	0.380	3.88	-30	0.0
12:05	.2	.3	11.16	27.29	7.09	0.320	2.91	-31	0.0
12:10	.2	.4	11.51	27.04	7.12	0.278	3.19	-30	0.0
12:15	.2	.5	11.59	27.47	7.09	0.239	2.93	-27	0.0
12:20	.2	.6	11.72	27.70	7.10	0.234	2.81	-29	0.0
12:30	.2	.7	11.84	27.91	7.11	0.230	2.68	-29	0.0

Purging was completed based on: stabilization of water quality parameters removal of three well volumes removal of at least one half well volume (low yield well)

Bottles Collected				Filtration	Preserved	Notes and Observations
Time	Volume	Composition (G / P)	No.	(10µm / 45µm)	(type)	(quality control sample, other)
12:30		P	18	<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered		Clear
				<input type="checkbox"/> filtered <input type="checkbox"/> unfiltered		

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader Tim McSpadden T. McSp
 name signature

WG1620 MW 67B 20200722
 WG1620 MW 67B MS 20200722 - 1230

Groundwater Sample Collection

Page ___ of ___

Project/Phase	19119232	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	3.26	ft. BMP
Site Location	HWPW		<input type="checkbox"/> Decon between locations	Casing Stickup	0	ft.
Date	7-27-20	Reference Point	<input checked="" type="checkbox"/> Top of casing	Depth to Water	3.26	ft. BGL
MW ID	MW 68A	Location	<input type="checkbox"/> Other _____	Total MW Depth	22.90	ft. BGL
Sample ID	WG1020MW68A20200727	Water Quality		MW Diameter	2.1	inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	C1108	MW Volume		gallons
	<input checked="" type="checkbox"/> Resistaltic <input type="checkbox"/> Bladder	Unit Number	P1115	Pump Intake Depth		ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C) <input type="checkbox"/> NM	pH <input type="checkbox"/> NM	Conductivity (µS/m or mS/cm) <input type="checkbox"/> not measured	Dissolved Oxygen (mg/L) <input type="checkbox"/> not measured	Redox Potential (mV) <input type="checkbox"/> not measured	Turbidity (NTU) <input type="checkbox"/> NM
11:25	.2	.2	3.26	28.86	6.72	0.660	3.03	-145	1000
11:35	.2	.3	4.58	28.85	6.94	0.645	1.17	-165	7.15 7.15
11:40	.2	.4	4.51	29.02	6.94	0.633	0.85	-168	6.10
11:45	.2	.5	4.55	29.29	6.96	0.625	0.71	-172	6.33
11:50	.2	.6	4.54	29.95	6.94	0.620	0.58	-174	4.29

Purging was completed based on: stabilization of water quality parameters removal of three well volumes removal of at least one half well volume (low yield well)

Bottles Collected				Filtration	Preserved	Notes and Observations
Time	Volume	Composition (G / P)	No.	10µm / 45µm <input checked="" type="checkbox"/> filtered <input type="checkbox"/> unfiltered	(type)	(quality control sample, other)
11:50		P	6	<input type="checkbox"/> filtered <input type="checkbox"/> unfiltered		Clear

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

 Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader




WG1020MW68A20200727-11:50

Groundwater Sample Collection

Project/Phase	19119232	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	4.21	ft. BMP
Site Location	HWPW		<input type="checkbox"/> Decon between locations	Casing Stickup	0	ft.
Date	7-27-20	Reference Point	<input checked="" type="checkbox"/> Top of casing	Depth to Water	4.21	ft. BGL
MW ID	MW 68B	Location	<input type="checkbox"/> Other _____	Total MW Depth	37.45	ft. BGL
Sample ID	WG-1620 MW 68B 20200727	Water Quality		MW Diameter	2"	inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model		MW Volume		gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	C1108 P1115	Pump Intake Depth	32.	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C)	pH	Conductivity (µS/m or mS/cm)	Dissolved Oxygen (mg/L)	Redox Potential (mV)	Turbidity (NTU)
				<input type="checkbox"/> NM	<input type="checkbox"/> NM	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> NM
12:20	.2	.2	4.21	29.30	6.64	1.92	2.28	-54	114
12:30	.2	.3	5.09	29.33	6.47	1.93	1.16	-60	82.4
12:35	.2	.4	5.27	29.24	6.43	1.94	0.92	-58	83.6
12:40	.2	.5	5.54	29.76	6.27	2.01	0.40	-53	46.0
12:45	.2	.6	5.59	32.26	6.27	2.01	0.21	-51	32.7

Purging was completed based on: stabilization of water quality parameters removal of three well volumes removal of at least one half well volume (low yield well)

Bottles Collected				Filtration	Preserved	Notes and Observations
Time	Volume	Composition (G / P)	No.	(10µm / 45µm)	(type)	(quality control sample, other)
12:45		P	6	<input checked="" type="checkbox"/> filtered <input type="checkbox"/> unfiltered		clear
				<input type="checkbox"/> filtered <input type="checkbox"/> unfiltered		

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

 Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader

 name Tim McSpadden

 signature [Signature]

 WG-1620 MW 68B 20200727
 WG-1620 DUP 05 20200727

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Groundwater Sample Collection

Page ___ of ___

Project/Phase	19119232	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	15.85	ft. BMP
Site Location	HWPW		<input type="checkbox"/> Decon between locations	Casing Stickup	0	ft.
Date	7.27.20	Reference Point	<input checked="" type="checkbox"/> Top of casing	Depth to Water	15.85	ft. BGL
MW ID	MW 68C	Location	<input type="checkbox"/> Other _____	Total MW Depth	67.55	ft. BGL
Sample ID	WG1620 MW 68C 20200727	Water Quality		MW Diameter	2"	inches *
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	C1108	MW Volume		gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	P1115	Pump Intake Depth		ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C) <input type="checkbox"/> NM	pH <input type="checkbox"/> NM	Conductivity (µS/m or mS/cm) <input type="checkbox"/> not measured	Dissolved Oxygen (mg/L) <input type="checkbox"/> not measured	Redox Potential (mV) <input type="checkbox"/> not measured	Turbidity (NTU) <input type="checkbox"/> NM
13:25	.2	.2	15.85	33.83	7.53	0.263	2.04	32	32.9
13:35	.2	.3	17.71	32.67	7.40	0.268	1.10	36	19.0
13:40	.2	.4	17.64	32.10	7.38	0.266	0.97	35	20.5
13:45	.2	.5	17.62	31.91	7.36	0.261	0.87	34	14.1
13:50	.2	.6	17.59	31.81	7.36	0.262	0.78	32	10.0

Purging was completed based on: stabilization of water quality parameters removal of three well volumes removal of at least one half well volume (low yield well)

Bottles Collected				Filtration	Preserved	Notes and Observations
Time	Volume	Composition (G / P)	No.	(10µm / 45µm)	(type)	(quality control sample, other)
13:50		P	6	<input type="checkbox"/> filtered <input type="checkbox"/> unfiltered		Clear
				<input type="checkbox"/> filtered <input type="checkbox"/> unfiltered		

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

 Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

 Field Team Leader TIM McSpadden T. McSpadden
 name signature

WG1620 MW 68C 20200727 1350

Groundwater Sample Collection



Project/Phase	<u>19119232</u>	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	<u>11.34</u>	ft. BMP
Site Location	<u>UPRR-HWPW</u>		<input type="checkbox"/> Decon between locations	Casing Stickup	<u>-</u>	ft.
Date	<u>7-21-20</u>	Reference Point	<input checked="" type="checkbox"/> Top of casing	<input type="checkbox"/> Depth to Water	<u>11.34</u>	ft. BGL
MW ID	<u>MW69A</u>	Location	Other _____	Total MW Depth	<u>18.0</u>	ft. BGL
Sample ID	<u>WG-162D-MW69A-20200672</u>	Water Quality		MW Diameter	<u>2.0</u>	inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	<u>HORIBA</u>	MW Volume	<u>1</u>	gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	<u>U-50</u>	Pump Intake Depth	<u>1</u>	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C)	pH	Conductivity (µS/m or mS/cm)	Dissolved Oxygen (mg/L)	Redox Potential (mV)	Turbidity (NTU)
1741				<input type="checkbox"/> NM	<input type="checkbox"/> NM	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> NM
1751	<u>1.2</u>	<u>/</u>	<u>11.59</u>	<u>25.0</u>	<u>6.86</u>	<u>1060</u>	<u>1.46</u>	<u>-411</u>	<u>46</u>
1756	<u>↓</u>	<u>/</u>	<u>11.61</u>	<u>25.1</u>	<u>6.77</u>	<u>1010</u>	<u>1.32</u>	<u>-38</u>	<u>26</u>
1801	<u>↓</u>	<u>/</u>	<u>11.62</u>	<u>25.1</u>	<u>6.79</u>	<u>1020</u>	<u>1.34</u>	<u>-39</u>	<u>29</u>
Purging was completed based on: <input checked="" type="checkbox"/> stabilization of water quality parameters <input type="checkbox"/> removal of three well volumes <input type="checkbox"/> removal of at least one half well volume (low yield well)									

Bottles Collected				Filtration	Preserved	Notes and Observations
Time	Volume	Composition (G / P)	No.	(10µm / 45µm)	(type)	(quality control sample, other)
<u>1815</u>	<u>60ML</u>	<u>P</u>	<u>1</u>	<input checked="" type="checkbox"/> filtered <input type="checkbox"/> unfiltered	<u>HNO3</u>	<u>METALS</u>
<u>1815</u>	<u>40ML / 1L</u>	<u>G/G</u>		<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HCL / NONE</u>	<u>VOCS / SVOCS</u>

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader JOHN BRAYTON name John Brayton signature

Groundwater Sample Collection



Project/Phase	<u>19119232</u>	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	<u>5.62</u>	ft. BMP
Site Location	<u>UPRR-HWPW</u>		<input type="checkbox"/> Decon between locations	Casing Stickup	<u>-</u>	ft.
Date	<u>7-23-20</u>	Reference Point	<input checked="" type="checkbox"/> Top of casing	<input type="checkbox"/> Depth to Water	<u>5162</u>	ft. BGL
MW ID	<u>MW70B</u>	Location	Other _____	Total MW Depth	<u>35.30</u>	ft. BGL
Sample ID	<u>WG-1620-MW70B-20200723</u>	Water Quality		MW Diameter	<u>2.0</u>	inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	<u>HDR13A</u>	MW Volume	<u>1</u>	gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	<u>U-50</u>	Pump Intake Depth	<u>1</u>	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C)	pH	Conductivity (µS/m or mS/cm)	Dissolved Oxygen (mg/L)	Redox Potential (mV)	Turbidity (NTU)
<u>1454</u>				<input type="checkbox"/> NM	<input type="checkbox"/> NM	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> NM
<u>1504</u>	<u>.2</u>	<u>/</u>	<u>5.89</u>	<u>23.4</u>	<u>7.13</u>	<u>440</u>	<u>1.29</u>	<u>-79</u>	<u>3.6</u>
<u>1509</u>	<u>↓</u>	<u>/</u>	<u>5.91</u>	<u>23.4</u>	<u>7.08</u>	<u>460</u>	<u>1.15</u>	<u>-76</u>	<u>4.1</u>
<u>1519</u>	<u>↓</u>	<u>/</u>	<u>5.92</u>	<u>23.6</u>	<u>7.09</u>	<u>470</u>	<u>1.16</u>	<u>-77</u>	<u>4.2</u>
Purging was completed based on: <input checked="" type="checkbox"/> stabilization of water quality parameters <input type="checkbox"/> removal of three well volumes <input type="checkbox"/> removal of at least one half well volume (low yield well)									

Bottles Collected				Filtration	Preserved	Notes and Observations
Time	Volume	Composition (G / P)	No.	(10µm / 45µm)	(type)	(quality control sample, other)
<u>1525</u>	<u>60ML</u>	<u>P</u>	<u>1</u>	<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HNO₃</u>	<u>METALS</u>
<u>1525</u>	<u>40ML / 1L</u>	<u>G/G</u>		<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HCL / NONE</u>	<u>VOCs / SVOCs</u>

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader JOHN BRAYTON name John Brayton signature

Groundwater Sample Collection



Project/Phase	191192.32	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	16.34	ft. BMP
Site Location	MWPW Houston		<input checked="" type="checkbox"/> Decon between locations	Casing Stickup	2	ft.
Date	7-28-20	Reference Point	<input checked="" type="checkbox"/> Top of casing	Depth to Water	16.34	ft. BGL
MW ID	MW 70C	Location	<input type="checkbox"/> Other _____	Total MW Depth	66.80	ft. BGL
Sample ID	WG-1620 MW 70C 20200728	Water Quality		MW Diameter	2"	inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	C1108	MW Volume		gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	P1115	Pump Intake Depth		ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C) <input type="checkbox"/> NM	pH <input type="checkbox"/> NM	Conductivity (µS/m or mS/cm) <input type="checkbox"/> not measured	Dissolved Oxygen (mg/L) <input type="checkbox"/> not measured	Redox Potential (mV) <input type="checkbox"/> not measured	Turbidity (NTU) <input type="checkbox"/> NM
14:45	.2	.2	16.34	30.60	7.29	1.45	2.11	-186	27.3
14:50	.2	.3	17.23	30.57	7.28	1.45	1.55	-196	23.1
14:55	.2	.4	17.43	29.35	7.29	1.49	1.22	-208	21.1
15:00	.2	.5	17.61	29.48	7.28	1.49	0.91	-214	16.2
15:05	.2	.6	17.79	29.28	7.28	1.51	0.63	-226	10.1

Purging was completed based on: stabilization of water quality parameters removal of three well volumes removal of at least one half well volume (low yield well)

Bottles Collected				Filtration	Preserved	Notes and Observations
Time	Volume	Composition (G / P)	No.	(10µm / 45µm)	(type)	(quality control sample, other)
15:05		P	6	<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered		clear
				<input type="checkbox"/> filtered <input type="checkbox"/> unfiltered		

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader T. M. Spade T. M. Spade
name signature

WG-1620 MW 70C 20200728 - 15:05 WG-1620 FB/10 20200728/1530

GROUNDWATER SAMPLING RECORD

PAGE ___ of ___

Project Number: 19119232 Project Name: 19119232 HWPW Date: 8-18-20
 Sampling Location (well ID, etc.): MW 70C Starting Water Level (ft. BMP): 16.72
 Sample Number: WG1620 MW 70C 20200818 Casing Stickup (ft.): 0
 Sampled by: Tim McSpadden WL (ft. BMP): 16.72 (ft. BGL): _____
 Measuring Point (MP) of Well: TOC Steel or PVC TD (ft. BMP): 66.70 (ft. BGL): _____
 Screened Interval (ft. BGL): _____ Ft. water: _____ Casing Dia. (In ID): 2"
 Filter Pack Interval (ft. BGL): _____ IX Casing Vol (gal.): _____ 3X (gal): _____

QUALITY ASSURANCE Gallons/Foot: 2": 0.16 4": 0.65 5.25": 1.12 6": 1.47 6.25": 1.59

METHODS (describe): Low Flow - Dedicated Tubing/Equipment
 Cleaning Equipment: DI/Alconox Rinse
 Purge: Peristaltic Pump / SS Pump / Bailer / Bladder Sampling: Peristaltic Pump / SS Pump / Bailer / Bladder
 Disposal of Discharged Water: SS gal drum 8-18-20

INSTRUMENTS (Indicate make, model, I.d.)

Water Level: D1134 Other: P1118 Pump
 Multi Meter: C1130
 Field Calibration: ATAY
 Filter / Filter Size: 0

SAMPLING MEASUREMENTS Begin Purge:


Time	DTW (ft BTOC)	Cum. Vol. (gal. or L)	Purge Rate (gal. or L /m)	Temp. (oC)	DO (mg/L)	Spec. Cond. (us/cm)	pH	ORP (mV)	Turbidity (NTU)	Color & Sediment
12:35	16.72	.2	.2	29.42	4.97	1.09	7.63	-205	70.5	clear
12:45	16.84	.3	.3	28.54	1.78	1.12	7.64	-210	64.9	
12:50	16.84	.3	.4	28.42	0.74	1.12	7.62	-214	59.3	
12:55	16.90	.3	.5	28.58	0.36	1.13	7.60	-215	56.2	
1:00	16.99	.2	.6	25.74	0.0	1.13	7.58	-216	54.2	

WL (ft. BMP) at End of Purge: 16.84 Sample Intake Depth (ft. BMP): 40.

SAMPLE INVENTORY

Time	Bottles Collected			Filtration (Y/N)	Preservation (type)	Remarks (quality control sample, other)
	Volume	Composition (G, P)	No.			
1:00	2LT	P	2	N	0	

Comments: _____



GOLDER
 2201 Double Creek Dr., Suite 4004
 Round Rock, Texas 78664
 Phone: (512) 671-3434 Fax: (512) 671-3446

WG 1620 MW 70C 2020 08/18 - 13:00

Groundwater Sample Collection

Page 1 of 1



Project/Phase	<u>19119232</u>	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	<u>0.86</u>	ft. BMP
Site Location	<u>UPRR-HWPW</u>		<input type="checkbox"/> Decon between locations	Casing Stickup	<u>-</u>	ft.
Date	<u>7-23-20</u>	Reference Point	<input checked="" type="checkbox"/> Top of casing	<input type="checkbox"/> Depth to Water	<u>0.86</u>	ft. BGL
MW ID	<u>MW71B</u>	Location	Other _____	Total MW Depth	<u>36.70</u>	ft. BGL
Sample ID	<u>WG-1620-MW71B-20200723</u>	Water Quality		MW Diameter	<u>2.0</u>	inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	<u>HORIBA</u>	MW Volume	<u>1</u>	gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	<u>U-50</u>	Pump Intake Depth	<u>-</u>	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C)	pH	Conductivity (µS/m or mS/cm)	Dissolved Oxygen (mg/L)	Redox Potential (mV)	Turbidity (NTU)
0857				<input type="checkbox"/> NM	<input type="checkbox"/> NM	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> NM
0907	<u>2</u>	<u>/</u>	<u>1.46</u>	<u>24.1</u>	<u>6.81</u>	<u>679</u>	<u>1.92</u>	<u>-111</u>	<u>6.2</u>
0912	<u>↓</u>	<u>/</u>	<u>1.48</u>	<u>24.2</u>	<u>6.80</u>	<u>667</u>	<u>1.75</u>	<u>-108</u>	<u>7.2</u>
0917	<u>↓</u>	<u>/</u>	<u>1.47</u>	<u>24.2</u>	<u>6.81</u>	<u>672</u>	<u>1.76</u>	<u>-109</u>	<u>7.7</u>
Purging was completed based on: <input checked="" type="checkbox"/> stabilization of water quality parameters <input type="checkbox"/> removal of three well volumes <input type="checkbox"/> removal of at least one half well volume (low yield well)									

Bottles Collected				Filtration	Preserved	Notes and Observations
Time	Volume	Composition (G / P)	No.	(10µm / 45µm)	(type)	(quality control sample, other)
<u>0930</u>	<u>60mL</u>	<u>P</u>	<u>1</u>	<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HNO3</u>	<u>METALS</u>
<u>0933</u>	<u>40mL / 1L</u>	<u>G / G</u>		<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HCL / NONE</u>	<u>VOCs / SVOCs</u>

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader JOHN BRAYTON name John Brayton signature

Groundwater Sample Collection



Project/Phase	<u>19119232</u>	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	<u>17.01</u>	ft. BMP
Site Location	<u>UPRR - HWPW</u>		<input type="checkbox"/> Decon between locations	Casing Stickup	<u>-</u>	ft.
Date	<u>7-14-20</u>	Reference Point	<input checked="" type="checkbox"/> Top of casing	<input type="checkbox"/> Depth to Water	<u>17.01</u>	ft. BGL
MW ID	<u>MW72B</u>	Location	Other _____	Total MW Depth	<u>40.30</u>	ft. BGL
Sample ID	<u>WG-1620-MW72B-20200714</u>	Water Quality		MW Diameter	<u>2.0</u>	inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	<u>HORIBA</u>	MW Volume	<u>1</u>	gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	<u>U-50</u>	Pump Intake Depth	<u>1</u>	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C)	pH	Conductivity (µS/m or mS/cm)	Dissolved Oxygen (mg/L)	Redox Potential (mV)	Turbidity (NTU)
1337				<input type="checkbox"/> NM	<input type="checkbox"/> NM	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> NM
1346	<u>.2</u>	<u>/</u>	<u>17.29</u>	<u>24.6</u>	<u>6.92</u>	<u>349</u>	<u>0.96</u>	<u>-61</u>	<u>7.2</u>
1351	<u>↓</u>	<u>/</u>	<u>17.28</u>	<u>24.6</u>	<u>6.79</u>	<u>316</u>	<u>0.70</u>	<u>-60</u>	<u>5.2</u>
1356	<u>↓</u>	<u>/</u>	<u>17.29</u>	<u>24.7</u>	<u>6.81</u>	<u>321</u>	<u>0.71</u>	<u>-62</u>	<u>6.1</u>

Purging was completed based on: stabilization of water quality parameters removal of three well volumes removal of at least one half well volume (low yield well)

Bottles Collected				Filtration	Preserved	Notes and Observations
Time	Volume	Composition (G / P)	No.	(10µm / 45µm)	(type)	(quality control sample, other)
1410	<u>60mL</u>	<u>P</u>	<u>1</u>	<input type="checkbox"/> filtered <input type="checkbox"/> unfiltered	<u>HNO₃</u>	<u>METALS</u>
1410	<u>40mL / 1L</u>	<u>G/G</u>		<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HCL / NONE</u>	<u>VOCS / SVOCs</u>

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader JOHN BRAYTON
name

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signature

Groundwater Sample Collection



Project/Phase	<u>19119232</u>	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	<u>7.39</u>	ft. BMP
Site Location	<u>UPRR-HWPW</u>		<input type="checkbox"/> Decon between locations	Casing Stickup	<u>-</u>	ft.
Date	<u>7-21-20</u>	Reference Point	<input checked="" type="checkbox"/> Top of casing	<input type="checkbox"/> Depth to Water	<u>7.39</u>	ft. BGL
MW ID	<u>MW748</u>	Location	Other _____	Total MW Depth	<u>35.10</u>	ft. BGL
Sample ID	<u>WG-162D-MW748-2006721</u>	Water Quality		MW Diameter	<u>2.0</u>	inches
Pump	<input type="checkbox"/> Watterra <input type="checkbox"/> Submersible	Meter Model	<u>HORIBA</u>	MW Volume	<u>1</u>	gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	<u>U-50</u>	Pump Intake Depth	<u>1</u>	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C)	pH	Conductivity (µS/m or mS/cm)	Dissolved Oxygen (mg/L)	Redox Potential (mV)	Turbidity (NTU)
1217				<input type="checkbox"/> NM	<input type="checkbox"/> NM	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> NM
1227	<u>.2</u>	<u>/</u>	<u>7.61</u>	<u>24.6</u>	<u>6.63</u>	<u>926</u>	<u>0.92</u>	<u>-63</u>	<u>6.5</u>
1232	<u>↓</u>	<u>/</u>	<u>7.64</u>	<u>24.9</u>	<u>6.61</u>	<u>911</u>	<u>0.82</u>	<u>-50</u>	<u>5.0</u>
1237	<u>↓</u>	<u>/</u>	<u>7.65</u>	<u>24.8</u>	<u>6.62</u>	<u>919</u>	<u>0.87</u>	<u>-51</u>	<u>5.2</u>

Purging was completed based on:

stabilization of water quality parameters removal of three well volumes removal of at least one half well volume (low yield well)

Bottles Collected				Filtration	Preserved	Notes and Observations
Time	Volume	Composition (G / P)	No.	(10µm / 45µm)	(type)	(quality control sample, other)
	<u>60ML</u>	<u>P</u>	<u>1</u>	<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HNO3</u>	<u>METALS</u>
	<u>40ML / 1L</u>	<u>G/G</u>		<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HCL / NONE</u>	<u>VOCS / SVOCS</u>

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader

JOHN BRAYTON
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Groundwater Sample Collection



Project/Phase	<u>19119232</u>	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	<u>8.96</u>	ft. BMP
Site Location	<u>UPRR-HWPW</u>		<input type="checkbox"/> Decon between locations	Casing Stickup	<u>-</u>	ft.
Date	<u>7-21-20</u>	Reference Point	<input checked="" type="checkbox"/> Top of casing	<input type="checkbox"/> Depth to Water	<u>8.96</u>	ft. BGL
MW ID	<u>MW75B</u>	Location	Other _____	Total MW Depth	<u>37.10</u>	ft. BGL
Sample ID	<u>WG-162D-MW75B-20200721</u>	Water Quality		MW Diameter	<u>2.0</u>	inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	<u>HORIBA</u>	MW Volume	<u>1</u>	gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	<u>U-50</u>	Pump Intake Depth	<u>1</u>	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C)	pH	Conductivity (µS/m or mS/cm)	Dissolved Oxygen (mg/L)	Redox Potential (mV)	Turbidity (NTU)
1358				<input type="checkbox"/> NM	<input type="checkbox"/> NM	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> NM
1408	<u>.2</u>	<u>/</u>	<u>9.17</u>	<u>25.4</u>	<u>6.67</u>	<u>761</u>	<u>0.79</u>	<u>-37</u>	<u>21</u>
1413	<u>↓</u>	<u>/</u>	<u>9.21</u>	<u>25.1</u>	<u>6.34</u>	<u>721</u>	<u>0.61</u>	<u>-27</u>	<u>16</u>
1418	<u>↓</u>	<u>/</u>	<u>9.23</u>	<u>25.3</u>	<u>6.41</u>	<u>713</u>	<u>0.62</u>	<u>-32</u>	<u>19</u>

Purging was completed based on: stabilization of water quality parameters removal of three well volumes removal of at least one half well volume (low yield well)

Bottles Collected				Filtration (10µm / 45µm)	Preserved (type)	Notes and Observations (quality control sample, other)
Time	Volume	Composition (G / P)	No.			
<u>1430</u>	<u>60mL</u>	<u>P</u>	<u>1</u>	<input checked="" type="checkbox"/> filtered <input type="checkbox"/> unfiltered	<u>HNO3</u>	<u>METALS</u>
<u>1430</u>	<u>40mL / 1L</u>	<u>G/G</u>		<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HCL / NONE</u>	<u>VOCS / SVOCS</u>

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader JOHN BRAYTON
name

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Groundwater Sample Collection



Project/Phase	<u>19119232</u>	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	<u>6.16</u>	ft. BMP
Site Location	<u>UPRR-HWPW</u>		<input type="checkbox"/> Decon between locations	Casing Stickup	<u>-</u>	ft.
Date	<u>7-20-20</u>	Reference Point	<input checked="" type="checkbox"/> Top of casing	<input type="checkbox"/> Depth to Water	<u>6.16</u>	ft. BGL
MW ID	<u>MW76B</u>	Location	Other _____	Total MW Depth	<u>25.35</u>	ft. BGL
Sample ID	<u>WG-1620-MW76B-20200720</u>	Water Quality		MW Diameter	<u>2.0</u>	inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	<u>HDR13A</u>	MW Volume	<u>1</u>	gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	<u>U-50</u>	Pump Intake Depth	<u>1</u>	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C)	pH	Conductivity (µS/m or mS/cm)	Dissolved Oxygen (mg/L)	Redox Potential (mV)	Turbidity (NTU)
0917				<input type="checkbox"/> NM	<input type="checkbox"/> NM	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> NM
0927	<u>1.2</u>	<u>/</u>	<u>6.39</u>	<u>24.3</u>	<u>6.41</u>	<u>729</u>	<u>1.59</u>	<u>-29</u>	<u>5.2</u>
0932	<u>↓</u>	<u>/</u>	<u>6.41</u>	<u>24.6</u>	<u>6.33</u>	<u>707</u>	<u>1.44</u>	<u>-26</u>	<u>4.7</u>
0937	<u>↓</u>	<u>/</u>	<u>6.40</u>	<u>24.7</u>	<u>6.34</u>	<u>717</u>	<u>1.46</u>	<u>-29</u>	<u>6.2</u>
Purging was completed based on:			<input checked="" type="checkbox"/> stabilization of water quality parameters <input type="checkbox"/> removal of three well volumes <input type="checkbox"/> removal of at least one half well volume (low yield well)						

Bottles Collected				Filtration (10µm / 45µm)	Preserved (type)	Notes and Observations (quality control sample, other)
Time	Volume	Composition (G / P)	No.			
<u>0950</u>	<u>60ML</u>	<u>P</u>	<u>1</u>	<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HNO₃</u>	<u>METALS</u>
<u>0950</u>	<u>40ML / 1L</u>	<u>G / G</u>		<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HCL / NONE</u>	<u>VOCS / SVOCS</u>

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader JOHN BRAYTON name John Brayton signature

Groundwater Sample Collection



Project/Phase	<u>19119232</u>	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	<u>19.87</u> ft. BMP
Site Location	<u>UPRR-HWPW</u>		<input type="checkbox"/> Decon between locations	Casing Stickup	<u>-</u> ft.
Date	<u>7-20-20</u>	Reference Point	<input checked="" type="checkbox"/> Top of casing	<input type="checkbox"/> Depth to Water	<u>19.87</u> ft. BGL
MW ID	<u>MW76C</u>	Location	Other _____	Total MW Depth	<u>70.50</u> ft. BGL
Sample ID	<u>WG-1620-MW76C-20200672P</u>	Water Quality		MW Diameter	<u>2.0</u> inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	<u>HDR13A</u>	MW Volume	<u>1</u> gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	<u>U-50</u>	Pump Intake Depth	<u>1</u> ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C)	pH	Conductivity (µS/m or mS/cm)	Dissolved Oxygen (mg/L)	Redox Potential (mV)	Turbidity (NTU)
1003				<input type="checkbox"/> NM	<input type="checkbox"/> NM	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> NM
1013	<u>2</u>	<u>/</u>	<u>20.09</u>	<u>23.6</u>	<u>6.42</u>	<u>1170</u>	<u>0.74</u>	<u>-21</u>	<u>4.4</u>
1018	<u>↓</u>	<u>/</u>	<u>20.08</u>	<u>23.1</u>	<u>6.59</u>	<u>1140</u>	<u>0.52</u>	<u>-26</u>	<u>5.1</u>
1023	<u>↓</u>	<u>/</u>	<u>20.07</u>	<u>23.1</u>	<u>6.59</u>	<u>1150</u>	<u>0.51</u>	<u>-26</u>	<u>5.2</u>
Purging was completed based on: <input checked="" type="checkbox"/> stabilization of water quality parameters <input type="checkbox"/> removal of three well volumes <input type="checkbox"/> removal of at least one half well volume (low yield well)									

Bottles Collected				Filtration (10µm / 45µm)	Preserved (type)	Notes and Observations (quality control sample, other)
Time	Volume	Composition (G / P)	No.			
1035	<u>60ML</u>	<u>P</u>	<u>1</u>	<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HNO3</u>	<u>METALS</u>
1035	<u>40ML / 1L</u>	<u>G / G</u>		<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HCL / NONE</u>	<u>VOCS / SVOCS</u>

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader JOHN BRAYTON
name

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Groundwater Sample Collection



Project/Phase	<u>19119232</u>	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	<u>6.63</u>	ft. BMP
Site Location	<u>UPRR - HWPW</u>		<input type="checkbox"/> Decon between locations	Casing Stickup	<u>-</u>	ft.
Date	<u>7-20-20</u>	Reference Point	<input checked="" type="checkbox"/> Top of casing	<input type="checkbox"/> Depth to Water	<u>6.63</u>	ft. BGL
MW ID	<u>MW77A</u>	Location	Other _____	Total MW Depth	<u>22.20</u>	ft. BGL
Sample ID	<u>WG-162D-MW77A-20200720</u>	Water Quality		MW Diameter	<u>2.0</u>	inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	<u>HDRISA</u>	MW Volume	<u>1</u>	gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	<u>U-50</u>	Pump Intake Depth	<u>1</u>	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C)	pH	Conductivity (µS/m or mS/cm)	Dissolved Oxygen (mg/L)	Redox Potential (mV)	Turbidity (NTU)
0826				<input type="checkbox"/> NM	<input type="checkbox"/> NM	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> NM
0836	<u>.2</u>	<u>/</u>	<u>6.91</u>	<u>23.6</u>	<u>8.21</u>	<u>651</u>	<u>0.46</u>	<u>-11</u>	<u>3.9</u>
0841	<u>↓</u>	<u>/</u>	<u>6.92</u>	<u>23.1</u>	<u>8.17</u>	<u>623</u>	<u>0.33</u>	<u>-9</u>	<u>4.9</u>
0846	<u>↓</u>	<u>/</u>	<u>6.91</u>	<u>23.2</u>	<u>8.16</u>	<u>618</u>	<u>0.34</u>	<u>-9</u>	<u>2.6</u>

Purging was completed based on: stabilization of water quality parameters removal of three well volumes removal of at least one half well volume (low yield well)

Bottles Collected				Filtration (10µm / 45µm)	Preserved (type)	Notes and Observations (quality control sample, other)
Time	Volume	Composition (G / P)	No.			
0900	<u>60ml</u>	<u>P</u>	<u>1</u>	<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HNO₃</u>	<u>METALS</u>
0900	<u>40ml / 1L</u>	<u>G/G</u>		<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HCL / NONE</u>	<u>VOCS / SVOCS</u>

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader JOHN BRAYTON name John Brayton signature

Groundwater Sample Collection



Project/Phase	<u>19119232</u>	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	<u>8.62</u>	ft. BMP
Site Location	<u>UPRR-HWPW</u>		<input type="checkbox"/> Decon between locations	Casing Stickup	<u>0</u>	ft.
Date	<u>7-20-20</u>	Reference Point	<input checked="" type="checkbox"/> Top of casing	<input type="checkbox"/> Depth to Water	<u>8.62</u>	ft. BGL
MW ID	<u>MW 78A</u>	Location	Other _____	Total MW Depth	<u>25.20</u>	ft. BGL
Sample ID	<u>WG-162D-MW78A-20A00P0</u>	Water Quality		MW Diameter	<u>2.0</u>	inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	<u>HDRISA</u>	MW Volume	<u>1</u>	gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	<u>U-50</u>	Pump Intake Depth	<u>1</u>	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C)	pH	Conductivity (µS/m or mS/cm)	Dissolved Oxygen (mg/L)	Redox Potential (mV)	Turbidity (NTU)
1054				<input type="checkbox"/> NM	<input type="checkbox"/> NM	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> NM
1104	<u>.2</u>	<u>/</u>	<u>8.92</u>	<u>24.4</u>	<u>779</u>	<u>1130</u>	<u>1.59</u>	<u>-31</u>	<u>11</u>
1109	<u>↓</u>	<u>/</u>	<u>8.91</u>	<u>24.3</u>	<u>761</u>	<u>1120</u>	<u>1.41</u>	<u>-26</u>	<u>7.8</u>
1114	<u>↓</u>	<u>/</u>	<u>8.91</u>	<u>24.7</u>	<u>762</u>	<u>1110</u>	<u>1.42</u>	<u>-27</u>	<u>7.2</u>
Purging was completed based on: <input checked="" type="checkbox"/> stabilization of water quality parameters <input type="checkbox"/> removal of three well volumes <input type="checkbox"/> removal of at least one half well volume (low yield well)									

Bottles Collected				Filtration	Preserved	Notes and Observations
Time	Volume	Composition (G / P)	No.	(10µm / 45µm)	(type)	(quality control sample, other)
<u>1125</u>	<u>60mL</u>	<u>P</u>	<u>1</u>	<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HNO3</u>	<u>METALS</u>
<u>1125</u>	<u>40mL / 1L</u>	<u>G/G</u>		<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HCL / NONE</u>	<u>VOCS / SVOCS</u>

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader JOHN BRAYTON name John Brayton signature

Groundwater Sample Collection



Project/Phase	<u>19119232</u>	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	<u>9.06</u>	ft. BMP
Site Location	<u>UPRR-HWPW</u>		<input type="checkbox"/> Decon between locations	Casing Stickup	<u>-</u>	ft.
Date	<u>7-21-20</u>	Reference Point	<input checked="" type="checkbox"/> Top of casing	<input type="checkbox"/> Depth to Water	<u>9.06</u>	ft. BGL
MW ID	<u>MW79A</u>	Location	Other _____	Total MW Depth	<u>25.10</u>	ft. BGL
Sample ID	<u>WG-162D-MW79A-2020-70</u>	Water Quality		MW Diameter	<u>2.0</u>	inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	<u>HDRISA</u>	MW Volume	<u>1</u>	gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	<u>U-50</u>	Pump Intake Depth	<u>1</u>	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C)	pH	Conductivity (µS/m or mS/cm)	Dissolved Oxygen (mg/L)	Redox Potential (mV)	Turbidity (NTU)
1313				<input type="checkbox"/> NM	<input type="checkbox"/> NM	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> NM
1323	<u>1.2</u>	<u>/</u>	<u>9.29</u>	<u>24.2</u>	<u>7.13</u>	<u>926</u>	<u>6.67</u>	<u>-31</u>	<u>2.1</u>
1328	<u>↓</u>	<u>/</u>	<u>9.34</u>	<u>24.1</u>	<u>7.06</u>	<u>906</u>	<u>0.96</u>	<u>-38</u>	<u>6.1</u>
1334	<u>↓</u>	<u>/</u>	<u>9.36</u>	<u>24.2</u>	<u>7.07</u>	<u>919</u>	<u>0.99</u>	<u>-39</u>	<u>6.6</u>
Purging was completed based on: <input checked="" type="checkbox"/> stabilization of water quality parameters <input type="checkbox"/> removal of three well volumes <input type="checkbox"/> removal of at least one half well volume (low yield well)									

Bottles Collected				Filtration (10µm / 45µm)	Preserved (type)	Notes and Observations (quality control sample, other)
Time	Volume	Composition (G / P)	No.			
1345	<u>60ML</u>	<u>P</u>	<u>1</u>	<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HNO3</u>	<u>METALS</u>
1345	<u>40ML/1L</u>	<u>G/G</u>		<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HCL/NONE</u>	<u>VOCS/SVOCS</u>

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader JOHN BRAYTON
name

John Brayton
signature

Groundwater Sample Collection



Project/Phase	<u>19119232</u>	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	<u>10.36</u>	ft. BMP
Site Location	<u>UPRR-HWPW</u>		<input type="checkbox"/> Decon between locations	Casing Stickup	<u>-</u>	ft.
Date	<u>7-20-20</u>	Reference Point	<input checked="" type="checkbox"/> Top of casing	<input type="checkbox"/> Depth to Water	<u>10.36</u>	ft. BGL
MW ID	<u>MW80B</u>	Location	Other _____	Total MW Depth	<u>34.75</u>	ft. BGL
Sample ID	<u>WG-162D-MW80B-20200720</u>	Water Quality		MW Diameter	<u>2.0</u>	inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	<u>HORIBA</u>	MW Volume	<u>1</u>	gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	<u>U-50</u>	Pump Intake Depth	<u>1</u>	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C)	pH	Conductivity (µS/m or mS/cm)	Dissolved Oxygen (mg/L)	Redox Potential (mV)	Turbidity (NTU)
0729				<input type="checkbox"/> NM	<input type="checkbox"/> NM	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> NM
0739	<u>.2</u>	<u>/</u>	<u>10.59</u>	<u>24.6</u>	<u>6.77</u>	<u>801</u>	<u>1.43</u>	<u>-106</u>	<u>11</u>
0744	<u>↓</u>	<u>/</u>	<u>10.61</u>	<u>24.6</u>	<u>6.82</u>	<u>779</u>	<u>1.06</u>	<u>-101</u>	<u>6.2</u>
0749	<u>↓</u>	<u>/</u>	<u>10.62</u>	<u>24.7</u>	<u>6.81</u>	<u>786</u>	<u>1.14</u>	<u>-102</u>	<u>7.7</u>
Purging was completed based on: <input checked="" type="checkbox"/> stabilization of water quality parameters <input type="checkbox"/> removal of three well volumes <input type="checkbox"/> removal of at least one half well volume (low yield well)									

Bottles Collected				Filtration	Preserved	Notes and Observations
Time	Volume	Composition (G / P)	No.	(10µm / 45µm)	(type)	(quality control sample, other)
<u>0805</u>	<u>60mL</u>	<u>P</u>	<u>1</u>	<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HNO3</u>	<u>METALS</u>
<u>0805</u>	<u>40mL / 1L</u>	<u>G / G</u>		<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HCL / NONE</u>	<u>VOCS / SVOCS</u>

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader JOHN BRAYTON name John Brayton signature

Groundwater Sample Collection



Project/Phase	<u>19119232</u>	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	<u>6.36</u>	ft. BMP
Site Location	<u>UPRR-HWPW</u>		<input type="checkbox"/> Decon between locations	Casing Stickup	<u>-</u>	ft.
Date	<u>7-20-20</u>	Reference Point	<input checked="" type="checkbox"/> Top of casing	<input type="checkbox"/> Depth to Water	<u>6.36</u>	ft. BGL
MW ID	<u>MWB1B</u>	Location	Other _____	Total MW Depth	<u>33.90</u>	ft. BGL
Sample ID	<u>WG-1620-MWB1B-20200720</u>	Water Quality		MW Diameter	<u>2.0</u>	inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	<u>HORIBA</u>	MW Volume	<u>1</u>	gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	<u>U-50</u>	Pump Intake Depth	<u>1</u>	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C)	pH	Conductivity (µS/m or mS/cm)	Dissolved Oxygen (mg/L)	Redox Potential (mV)	Turbidity (NTU)
1651				<input type="checkbox"/> NM	<input type="checkbox"/> NM	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> NM
1701	<u>.2</u>	<u>/</u>	<u>6.47</u>	<u>25.1</u>	<u>6.91</u>	<u>961</u>	<u>0.86</u>	<u>-71</u>	<u>21</u>
1706	<u>↓</u>	<u>/</u>	<u>6.51</u>	<u>25.1</u>	<u>6.91</u>	<u>979</u>	<u>0.72</u>	<u>-79</u>	<u>14</u>
1711	<u>↓</u>	<u>/</u>	<u>6.50</u>	<u>25.2</u>	<u>6.92</u>	<u>977</u>	<u>0.76</u>	<u>-77</u>	<u>16</u>

Purging was completed based on: stabilization of water quality parameters removal of three well volumes removal of at least one half well volume (low yield well)

Bottles Collected				Filtration (10µm / 45µm)	Preserved (type)	Notes and Observations (quality control sample, other)
Time	Volume	Composition (G / P)	No.			
<u>1725</u>	<u>60ML</u>	<u>P</u>	<u>1</u>	<input checked="" type="checkbox"/> filtered <input type="checkbox"/> unfiltered	<u>HNO3</u>	<u>METALS</u>
<u>1725</u>	<u>40ML / 1L</u>	<u>G / G</u>		<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HCL / NONE</u>	<u>VOCS / SVOCS</u>

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader JOHN BRAYTON
name

John Brayton
signature



Groundwater Sample Collection

Page ___ of ___

Project/Phase	19119232	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	5.01	ft. BMP
Site Location	HWPB		<input type="checkbox"/> Decon between locations	Casing Stickup	0	ft.
Date	7-20-20	Reference Point	<input checked="" type="checkbox"/> Top of casing	Depth to Water	5.01	ft. BGL
MW ID	MW 823	Location	<input type="checkbox"/> Other _____	Total MW Depth	34.85	ft. BGL
Sample ID	WG-1620 MW 823 20200720	Water Quality		MW Diameter	2"	inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	C1108	MW Volume	4.77	gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	P1118	Pump Intake Depth	32.	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C) <input type="checkbox"/> NM	pH <input type="checkbox"/> NM	Conductivity (µS/m or mS/cm) <input type="checkbox"/> not measured	Dissolved Oxygen (mg/L) <input type="checkbox"/> not measured	Redox Potential (mV) <input type="checkbox"/> not measured	Turbidity (NTU) <input type="checkbox"/> NM
15:15	.2	.2	5.01	29.27	6.58	1.86	2.09	-42	0.0
15:20	.2	.3	5.35	29.29	6.59	1.89	1.30	-46	0.0
15:25	.2	.4	5.33	29.35	6.51	1.92	0.88	-58	0.0
15:30	.2	.5	5.30	29.33	6.50	1.92	0.63	-61	0.0
15:35	.2	.6	5.29	29.26	6.57	1.94	0.47	-61	0.0
	7								

Purging was completed based on: stabilization of water quality parameters removal of three well volumes removal of at least one half well volume (low yield well)

Bottles Collected				Filtration	Preserved	Notes and Observations
Time	Volume	Composition (G / P)	No.	(10µm / 45µm)	(type)	(quality control sample, other)
15:35		P	6	<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered		clean
				<input type="checkbox"/> filtered <input type="checkbox"/> unfiltered		

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader T. M. McSpedick T. McSpedick
name signature

WG-1620 MW 823 20200720 - 15:35

Groundwater Sample Collection



Project/Phase	<u>19119232</u>	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	<u>5.12</u>	ft. BMP
Site Location	<u>UPRR-HWPW</u>		<input type="checkbox"/> Decon between locations	Casing Stickup	<u>-</u>	ft.
Date	<u>7-22-20</u>	Reference Point	<input checked="" type="checkbox"/> Top of casing	<input type="checkbox"/> Depth to Water	<u>5.12</u>	ft. BGL
MW ID	<u>MW83B</u>	Location	Other _____	Total MW Depth	<u>35.30</u>	ft. BGL
Sample ID	<u>WG-1620-MW83B-20200722</u>	Water Quality		MW Diameter	<u>2.0</u>	inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	<u>HORIBA</u>	MW Volume	<u>1</u>	gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	<u>U-50</u>	Pump Intake Depth	<u>1</u>	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C)	pH	Conductivity (µS/m or mS/cm)	Dissolved Oxygen (mg/L)	Redox Potential (mV)	Turbidity (NTU)
<u>0746</u>	<u>1.2</u>	<u>/</u>	<u>5.49</u>	<u>23.6</u>	<u>7.21</u>	<u>1020</u>	<u>0.56</u>	<u>-30</u>	<u>2.6</u>
<u>0801</u>	<u>↓</u>	<u>/</u>	<u>5.52</u>	<u>23.9</u>	<u>7.15</u>	<u>1070</u>	<u>0.41</u>	<u>-30</u>	<u>7.4</u>
<u>0802</u>	<u>↓</u>	<u>/</u>	<u>5.53</u>	<u>23.9</u>	<u>7.16</u>	<u>1060</u>	<u>0.42</u>	<u>-31</u>	<u>5.1</u>
Purging was completed based on:		<input checked="" type="checkbox"/> stabilization of water quality parameters <input type="checkbox"/> removal of three well volumes <input type="checkbox"/> removal of at least one half well volume (low yield well)							

Bottles Collected				Filtration	Preserved	Notes and Observations
Time	Volume	Composition (G / P)	No.	(10µm / 45µm)	(type)	(quality control sample, other)
<u>0825</u>	<u>60ML</u>	<u>P</u>	<u>1</u>	<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HNO3</u>	<u>METALS</u>
<u>0825</u>	<u>40ML / 1L</u>	<u>G/G</u>		<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HCL / NONE</u>	<u>VOCS / SVOCS</u>

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader JOHN BRAYTON name John Brayton signature

WG-1620-DUP03-20200722
0825 Sample

Groundwater Sample Collection



Project/Phase	<u>19119232</u>	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	<u>15.63</u>	ft. BMP
Site Location	<u>UPRR-HWPW</u>		<input type="checkbox"/> Decon between locations	Casing Stickup	<u>-</u>	ft.
Date	<u>7-22-20</u>	Reference Point	<input checked="" type="checkbox"/> Top of casing	<input type="checkbox"/> Depth to Water	<u>15.63</u>	ft. BGL
MW ID	<u>MW83C</u>	Location	Other _____	Total MW Depth	<u>62.0</u>	ft. BGL
Sample ID	<u>WG-162D-MW83C-20200722</u>	Water Quality		MW Diameter	<u>2.0</u>	inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	<u>HORIBA</u>	MW Volume	<u>1</u>	gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	<u>U-50</u>	Pump Intake Depth	<u>1</u>	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C)	pH	Conductivity (µS/m or mS/cm)	Dissolved Oxygen (mg/L)	Redox Potential (mV)	Turbidity (NTU)
0702				<input type="checkbox"/> NM	<input type="checkbox"/> NM	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> NM
0712	<u>.2</u>	<u>/</u>	<u>15.81</u>	<u>24.0</u>	<u>6.51</u>	<u>1110</u>	<u>0.92</u>	<u>-71</u>	<u>7.2</u>
0717	<u>↓</u>	<u>/</u>	<u>15.80</u>	<u>24.1</u>	<u>6.45</u>	<u>1120</u>	<u>0.72</u>	<u>-71</u>	<u>4.6</u>
0722	<u>↓</u>	<u>/</u>	<u>15.80</u>	<u>24.1</u>	<u>6.46</u>	<u>1120</u>	<u>0.71</u>	<u>-72</u>	<u>5.7</u>

Purging was completed based on: stabilization of water quality parameters removal of three well volumes removal of at least one half well volume (low yield well)

Bottles Collected				Filtration (10µm / 45µm)	Preserved (type)	Notes and Observations (quality control sample, other)
Time	Volume	Composition (G / P)	No.			
0735	<u>60ML</u>	<u>P</u>	<u>1</u>	<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HNO3</u>	<u>METALS</u>
0735	<u>40ML / 1L</u>	<u>G / G</u>		<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HCL / NONE</u>	<u>VOCS / SVOCS</u>

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader JOHN BRAYTON name John Brayton signature

Groundwater Sample Collection

Page ___ of ___

Project/Phase	19119232	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	4.29	ft. BMP
Site Location	HWPW		<input type="checkbox"/> Decon between locations	Casing Stickup	0	ft.
Date	7-27-20	Reference Point	<input checked="" type="checkbox"/> Top of casing	Depth to Water	4.29	ft. BGL
MW ID	MW 84A	Location	<input type="checkbox"/> Other _____	Total MW Depth	23.80	ft. BGL
Sample ID	WG1620MWS84A20200727	Water Quality		MW Diameter	2"	inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	C1108	MW Volume	2.12	gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	P1115	Pump Intake Depth	21.0	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C) <input type="checkbox"/> NM	pH <input type="checkbox"/> NM	Conductivity (µS/m or mS/cm) <input type="checkbox"/> not measured	Dissolved Oxygen (mg/L) <input type="checkbox"/> not measured	Redox Potential (mV) <input type="checkbox"/> not measured	Turbidity (NTU) <input type="checkbox"/> NM
8:30	.2	.2	4.29	25.01	5.85	1.25	4.01	-61	158
8:40	.2	.3	4.47	25.10	6.00	1.23	3.83	-87	393
8:45	.2	.4	4.41	25.39	6.09	1.22	3.37	-93	194
8:50	.2	.5	4.38	25.45	6.11	1.22	3.11	-94	152
8:55	.2	.6	4.30	25.50	6.13	1.22	3.00	-95	142

Purging was completed based on: stabilization of water quality parameters removal of three well volumes removal of at least one half well volume (low yield well)

Bottles Collected				Filtration	Preserved	Notes and Observations
Time	Volume	Composition (G / P)	No.	10µm / 45µm <input checked="" type="checkbox"/> filtered <input type="checkbox"/> unfiltered	(type)	(quality control sample, other)
8:55		P	6	<input checked="" type="checkbox"/> filtered <input type="checkbox"/> unfiltered		Clear
				<input type="checkbox"/> filtered <input type="checkbox"/> unfiltered		

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

 Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader

 T.M. McSpedden
name


signature

WG-1620 MW84A20200727-8:55

Groundwater Sample Collection

Project/Phase	19169232	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	5.69	ft. BMP
Site Location	HWPW		<input type="checkbox"/> Decon between locations	Casing Stickup	0	ft.
Date	7-27-20	Reference Point	<input checked="" type="checkbox"/> Top of casing	Depth to Water	5.69	ft. BGL
MW ID	MW 84B	Location	<input type="checkbox"/> Other	Total MW Depth	40.20	ft. BGL
Sample ID	WG-1620 MW 84B 20200727	Water Quality		MW Diameter	2"	inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	C1108	MW Volume	5.52	gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	P1115	Pump Intake Depth	33	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C)	pH	Conductivity (µS/m or mS/cm)	Dissolved Oxygen (mg/L)	Redox Potential (mV)	Turbidity (NTU)
				<input type="checkbox"/> NM	<input type="checkbox"/> NM	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> NM
9:20	.2	.2	5.69	25.57	6.06	1.72	2.11	-97	20.8
9:30	.2	.3	5.74	25.49	6.12	1.73	1.39	-109	9.3
9:35	.2	.4	5.69	25.77	6.17	1.74	0.84	-123	5.2
9:40	.2	.5	5.69	25.84	6.21	1.75	0.61	-128	4.8
9:45	.2	.6	5.69	26.00	6.29	1.76	0.50	-138	0.8
9:50	.2	.7	5.69	26.05	6.29	1.77	0.38	-139	0.0

Purging was completed based on: stabilization of water quality parameters removal of three well volumes removal of at least one half well volume (low yield well)

Bottles Collected				Filtration	Preserved	Notes and Observations
Time	Volume	Composition (G / P)	No.	(10µm / 45µm)	(type)	(quality control sample, other)
		P	6	<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered		clear
				<input type="checkbox"/> filtered <input type="checkbox"/> unfiltered		

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader T. M. Spodden T. M. Spodden
 name signature

WG-1620 MW 84B 20200727-9:50

Groundwater Sample Collection



Project/Phase	<u>19119232</u>	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	<u>22.47</u>	ft. BMP
Site Location	<u>UPRR-HWPW</u>		<input type="checkbox"/> Decon between locations	Casing Stickup	<u>-</u>	ft.
Date	<u>7-16-20</u>	Reference Point	<input checked="" type="checkbox"/> Top of casing	<input type="checkbox"/> Depth to Water	<u>22.47</u>	ft. BGL
MW ID	<u>MW85C</u>	Location	Other _____	Total MW Depth	<u>70.0</u>	ft. BGL
Sample ID	<u>WG-1620-MW85C-20106716</u>	Water Quality		MW Diameter	<u>2.0</u>	inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	<u>HORIBA</u>	MW Volume	<u>1</u>	gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	<u>U-50</u>	Pump Intake Depth	<u>1</u>	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C)	pH	Conductivity (µS/m or mS/cm)	Dissolved Oxygen (mg/L)	Redox Potential (mV)	Turbidity (NTU)
1419				<input type="checkbox"/> NM	<input type="checkbox"/> NM	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> NM
1429	<u>.2</u>	<u>/</u>	<u>22.71</u>	<u>24.6</u>	<u>9.17</u>	<u>671</u>	<u>0.86</u>	<u>-71</u>	<u>2.3</u>
1434	<u>↓</u>	<u>/</u>	<u>22.72</u>	<u>24.8</u>	<u>9.31</u>	<u>620</u>	<u>0.71</u>	<u>-64</u>	<u>3.4</u>
1439	<u>↓</u>	<u>/</u>	<u>22.72</u>	<u>24.8</u>	<u>9.29</u>	<u>617</u>	<u>0.72</u>	<u>-66</u>	<u>3.6</u>
Purging was completed based on: <input checked="" type="checkbox"/> stabilization of water quality parameters <input type="checkbox"/> removal of three well volumes <input type="checkbox"/> removal of at least one half well volume (low yield well)									

Bottles Collected				Filtration	Preserved	Notes and Observations
Time	Volume	Composition (G / P)	No.	(10µm / 45µm)	(type)	(quality control sample, other)
<u>1450</u>	<u>60ML</u>	<u>P</u>	<u>1</u>	<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HNO3</u>	<u>METALS</u>
<u>1450</u>	<u>40ML/1L</u>	<u>G/G</u>		<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HCL/NONE</u>	<u>VOCS/SVOCS</u>

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader JOHN BRAYTON name John Brayton signature

GROUNDWATER SAMPLING RECORD

PAGE ___ of ___

Project Number: 19119232 Project Name: HWPW Date: 10-08-2020
 Sample Number: MWG-1620 MW 85C 20201008 Starting Water Level (ft. BMP): 22.31
 Sampling Location (well ID, etc.): MW 85C Casing Stickup (ft): 0
 Sampled by: TIM McSpadden Starting Water Level (ft. BGL): 22.31
 Measuring Point (MP) of Well: TOC Total Depth (ft. BMP): 76.10
 Screened Interval (ft. BGL): Casing Diameter (In ID): 2" PVC
 Filter Pack Interval (ft. BGL): Casing Volume (gal.): 7.64

QUALITY ASSURANCE

METHODS (describe):
 Cleaning Equipment: DI/Alconex
 Purging: _____ Sampling: _____
 Disposal of Discharged Water: 55 gallon drum 8-18-2020

INSTRUMENTS (Indicate make, model, I.D.)

Water Level: Heraeus H-oil D2125 Thermometer: " "
 pH Meter: Hanna C1129 Field Calibration: Atax
 Conductivity Meter: " " Field Calibration: _____
 Filter / Filter Size: 10 microns Other: _____

SAMPLING MEASUREMENTS


Time	Water Depth (ft BMP)	Cum. Vol. (gal. or L)	Purge Rate (L/m)	Temp. (°C)	pH (S.U.)	Spec. Cond. (mS/cm)	D.O. (mg/L)	Redox (mV)	Turbidity (NTU)	Color
				± 3%	± 0.1	± 3%	± 10% if >0.5	± 10	± 10%	
11:30	22.31	.2	.2	26.57	10.53	1.46	60.2	-249	59.2	clear
11:40	22.63	.3	.2	26.69	10.66	1.52	60.5	-251	60.7	
11:45	22.69	.4	.2	26.63	10.78	2.14	60.6	-259	61.6	
11:50	22.74	.5	.2	26.68	10.69	2.75	62.4	-252	61.9	LT Brown
11:55	22.77	.6	.2	26.73	10.43	3.49	62.8	-237	61.2	LT Brown
12:00	22.78	.7	.2	26.59	10.37	3.85	62.5	-236	62.2	LT Brown
12:05	22.80	.8	.2	26.56	10.45	3.73	63.8	-242	63.2	cloudy-
12:10	22.81	.9	.2	26.60	10.59	3.49	60.4	-250	59.2	

Water Level (ft. BMP) at End of Purge: 22.81 Sample Intake Depth (ft. BMP): 65.0

SAMPLE INVENTORY

Time	Bottles Collected			Filtration (Y/N)	Preservation	Remarks (quality control sample, other)
	Volume	Composition (G, P)	No.			
12:10	250ml	P	1	10 microns	Antic acid	

Comments: _____


Golder Associates Inc.
 11231 Richmond Avenue, Suite D104
 Houston, TX 77082
 (832) 916-3690

MWG-1620 MW 85C 20201008 12:10

Groundwater Sample Collection



Project/Phase	<u>19119232</u>	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	<u>19.79</u> ft. BMP
Site Location	<u>UPRR-HWPW</u>		<input type="checkbox"/> Decon between locations	Casing Stickup	<u>-</u> ft.
Date	<u>7-16-20</u>	Reference Point	<input checked="" type="checkbox"/> Top of casing	<input type="checkbox"/> Depth to Water	<u>19.79</u> ft. BGL
MW ID	<u>MW26C</u>	Location	Other _____	Total MW Depth	<u>69.80</u> ft. BGL
Sample ID	<u>WG-1620-MW26C-20200716</u>	Water Quality		MW Diameter	<u>2.0</u> inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	<u>HORIBA</u>	MW Volume	<u>1</u> gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	<u>U-50</u>	Pump Intake Depth	<u>1</u> ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C)	pH	Conductivity (µS/m or mS/cm)	Dissolved Oxygen (mg/L)	Redox Potential (mV)	Turbidity (NTU)
0944				<input type="checkbox"/> NM	<input type="checkbox"/> NM	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> NM
0954	<u>2</u>	<u>/</u>	<u>18.09</u>	<u>24.3</u>	<u>7.29</u>	<u>417</u>	<u>0.78</u>	<u>-91</u>	<u>10</u>
0959	<u>↓</u>	<u>/</u>	<u>18.07</u>	<u>24.7</u>	<u>7.22</u>	<u>391</u>	<u>0.51</u>	<u>-94</u>	<u>8.2</u>
1004	<u>↓</u>	<u>/</u>	<u>18.07</u>	<u>24.6</u>	<u>7.21</u>	<u>391</u>	<u>0.52</u>	<u>-92</u>	<u>9.1</u>
Purging was completed based on: <input checked="" type="checkbox"/> stabilization of water quality parameters <input type="checkbox"/> removal of three well volumes <input type="checkbox"/> removal of at least one half well volume (low yield well)									

Bottles Collected				Filtration (10µm / 45µm)	Preserved (type)	Notes and Observations (quality control sample, other)
Time	Volume	Composition (G / P)	No.			
<u>1015</u>	<u>60ML</u>	<u>P</u>	<u>1</u>	<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HNO₃</u>	<u>METALS</u>
<u>1015</u>	<u>40ML/1L</u>	<u>G/G</u>		<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HCL / NONE</u>	<u>VOCs / SVOCs</u>

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader JOHN BRAYTON name John Brayton signature

Groundwater Sample Collection



Project/Phase	<u>19119232</u>	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	<u>16.07</u>	ft. BMP
Site Location	<u>UPRR-HWPW</u>		<input type="checkbox"/> Decon between locations	Casing Stickup	<u>-</u>	ft.
Date	<u>7-23-20</u>	Reference Point	<input checked="" type="checkbox"/> Top of casing	<input type="checkbox"/> Depth to Water	<u>16.07</u>	ft. BGL
MW ID	<u>MW87C</u>	Location	Other _____	Total MW Depth	<u>64.70</u>	ft. BGL
Sample ID	<u>WG-1620-MW87C-20200723</u>	Water Quality		MW Diameter	<u>2.0</u>	inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	<u>HORIBA</u>	MW Volume	<u>1</u>	gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	<u>U-50</u>	Pump Intake Depth	<u>1</u>	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C)	pH	Conductivity (µS/m or mS/cm)	Dissolved Oxygen (mg/L)	Redox Potential (mV)	Turbidity (NTU)
0807				<input type="checkbox"/> NM	<input type="checkbox"/> NM	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> NM
0817	<u>1.2</u>	<u>/</u>	<u>16.29</u>	<u>24.8</u>	<u>7.67</u>	<u>529</u>	<u>1.07</u>	<u>-91</u>	<u>6.2</u>
0822	<u>↓</u>	<u>/</u>	<u>16.30</u>	<u>24.8</u>	<u>7.76</u>	<u>516</u>	<u>0.90</u>	<u>-86</u>	<u>7.2</u>
0827	<u>↓</u>	<u>/</u>	<u>16.29</u>	<u>24.7</u>	<u>7.74</u>	<u>517</u>	<u>0.91</u>	<u>-87</u>	<u>7.1</u>
Purging was completed based on: <input checked="" type="checkbox"/> stabilization of water quality parameters <input type="checkbox"/> removal of three well volumes <input type="checkbox"/> removal of at least one half well volume (low yield well)									

Bottles Collected				Filtration (10µm / 45µm)	Preserved (type)	Notes and Observations (quality control sample, other)
Time	Volume	Composition (G / P)	No.			
<u>0840</u>	<u>60ML</u>	<u>P</u>	<u>1</u>	<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HNO₃</u>	<u>METALS</u>
<u>0840</u>	<u>40ML / 1L</u>	<u>G / G</u>		<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HCL / NONE</u>	<u>VOCS / SVOCs</u>

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader JOHN BEAYTON name John Beayton signature

Groundwater Sample Collection



Project/Phase	<u>19119232</u>	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	<u>7.97</u>	ft. BMP
Site Location	<u>UPRR-HWPW</u>		<input type="checkbox"/> Decon between locations	Casing Stickup	<u>-</u>	ft.
Date	<u>7-15-20</u>	Reference Point	<input checked="" type="checkbox"/> Top of casing	<input type="checkbox"/> Depth to Water	<u>7.47</u>	ft. BGL
MW ID	<u>MWB8A</u>	Location	Other _____	Total MW Depth	<u>25.45</u>	ft. BGL
Sample ID	<u>WG-162D-MWB8A-20200715</u>	Water Quality		MW Diameter	<u>2.0</u>	inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	<u>HORIBA</u>	MW Volume	<u>1</u>	gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	<u>U-50</u>	Pump Intake Depth	<u>1</u>	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C)	pH	Conductivity (µS/m or mS/cm)	Dissolved Oxygen (mg/L)	Redox Potential (mV)	Turbidity (NTU)
1324				<input type="checkbox"/> NM	<input type="checkbox"/> NM	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> NM
1334	<u>.2</u>	<u>/</u>	<u>7.96</u>	<u>24.6</u>	<u>6.41</u>	<u>1140</u>	<u>0.61</u>	<u>-67</u>	<u>6.2</u>
1339	<u>↓</u>	<u>/</u>	<u>7.94</u>	<u>24.7</u>	<u>6.42</u>	<u>1160</u>	<u>0.47</u>	<u>-71</u>	<u>5.1</u>
1344	<u>↓</u>	<u>/</u>	<u>7.93</u>	<u>24.7</u>	<u>6.42</u>	<u>1170</u>	<u>0.49</u>	<u>-72</u>	<u>5.6</u>
Purging was completed based on:		<input checked="" type="checkbox"/> stabilization of water quality parameters <input type="checkbox"/> removal of three well volumes <input type="checkbox"/> removal of at least one half well volume (low yield well)							

Bottles Collected				Filtration (10µm / 45µm)	Preserved (type)	Notes and Observations (quality control sample, other)
Time	Volume	Composition (G / P)	No.			
<u>1400</u>	<u>60mL</u>	<u>P</u>	<u>1</u>	<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HNO3</u>	<u>METALS</u>
<u>1400</u>	<u>40mL / 1L</u>	<u>G / G</u>		<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HCL / NONE</u>	<u>VOCS / SVOCs</u>

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader JOHN BRAYTON name John Brayton signature

Groundwater Sample Collection

Project/Phase	19119252	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth-to Water	8.35	ft. BMP
Site Location	HWPW		<input type="checkbox"/> Decon between locations	Casing Stickup	3'	ft.
Date	7-16-20	Reference Point	<input checked="" type="checkbox"/> Top of casing	Depth to Water	8.35	ft. BGL
MW ID	MW 88B	Location	<input type="checkbox"/> Other _____	Total MW Depth	43.0	ft. BGL
Sample ID	WG1620 MW 88B 20200716	Water Quality		MW Diameter	2"	inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	C1108	MW Volume		gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	P1115	Pump Intake Depth		ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C) <input type="checkbox"/> NM	pH <input type="checkbox"/> NM	Conductivity (µS/m or mS/cm) <input type="checkbox"/> not measured	Dissolved Oxygen (mg/L) <input type="checkbox"/> not measured	Redox Potential (mV) <input type="checkbox"/> not measured	Turbidity (NTU) <input type="checkbox"/> NM
12:00	.2	.2	8.35	32.31	6.52	1.25	2.74	-66	0.0
12:05	.2	.3	9.14	30.85	6.58	1.22	1.49	-64	0.0
12:10	.2	.4	9.19	30.77	6.57	1.22	1.22	-63	0.0
12:15	.2	.5	9.21	30.57	6.53	1.23	1.04	-65	0.0
12:20	.2	.6		30.50	6.52	1.25	0.88	-66	0.0
12:25	.2	.7		30.77	6.50	1.26	0.61	-69	0.0

Purging was completed based on: stabilization of water quality parameters removal of three well volumes removal of at least one half well volume (low yield well)

Bottles Collected				Filtration	Preserved	Notes and Observations
Time	Volume	Composition (G / P)	No.	(10µm / 45µm)	(type)	(quality control sample, other)
12:25		P	6	<input checked="" type="checkbox"/> filtered <input type="checkbox"/> unfiltered		Clear
				<input type="checkbox"/> filtered <input type="checkbox"/> unfiltered		

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

 Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

 Field Team Leader Tim McSpadden 
 name signature

 WG1620 MW 88B 20200716
 WG1620 MW 88B MS 20200716

12:25

Groundwater Sample Collection



Project/Phase	<u>19119232</u>	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	<u>24.59</u>	ft. BMP
Site Location	<u>UPRR-HWPW</u>		<input type="checkbox"/> Decon between locations	Casing Stickup	<u>-</u>	ft.
Date	<u>7-15-20</u>	Reference Point	<input checked="" type="checkbox"/> Top of casing	<input type="checkbox"/> Depth to Water	<u>24.59</u>	ft. BGL
MW ID	<u>MW88C</u>	Location	Other _____	Total MW Depth	<u>75.65</u>	ft. BGL
Sample ID	<u>WG-162D-MW88C-20200715</u>	Water Quality		MW Diameter	<u>2.0</u>	inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	<u>HORIBA</u>	MW Volume	<u>1</u>	gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	<u>U-50</u>	Pump Intake Depth	<u>1</u>	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C)	pH	Conductivity (µS/m or mS/cm)	Dissolved Oxygen (mg/L)	Redox Potential (mV)	Turbidity (NTU)
<u>1222</u>				<input type="checkbox"/> NM	<input type="checkbox"/> NM	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> NM
<u>1231</u>	<u>.2</u>	<u>/</u>	<u>24.81</u>	<u>24.7</u>	<u>7.11</u>	<u>656</u>	<u>1.38</u>	<u>-86</u>	<u>4.2</u>
<u>1236</u>	<u>↓</u>	<u>/</u>	<u>24.80</u>	<u>25.1</u>	<u>7.03</u>	<u>674</u>	<u>1.17</u>	<u>-93</u>	<u>8.1</u>
<u>1241</u>	<u>↓</u>	<u>/</u>	<u>24.80</u>	<u>25.0</u>	<u>7.04</u>	<u>679</u>	<u>1.23</u>	<u>-92</u>	<u>6.6</u>
Purging was completed based on: <input checked="" type="checkbox"/> stabilization of water quality parameters <input type="checkbox"/> removal of three well volumes <input type="checkbox"/> removal of at least one half well volume (low yield well)									

Bottles Collected				Filtration (10µm / 45µm)	Preserved (type)	Notes and Observations (quality control sample, other)
Time	Volume	Composition (G / P)	No.			
<u>1255</u>	<u>60ML</u>	<u>P</u>	<u>1</u>	<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HNO3</u>	<u>METALS</u>
<u>1255</u>	<u>40ML / 1L</u>	<u>G/G</u>		<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HCL / NONE</u>	<u>VOCS / SVOCS</u>

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader JOHN BRAYTON name John Brayton signature

Groundwater Sample Collection



Project/Phase	19119232	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	6.83	ft. BMP
Site Location	HWPW		<input type="checkbox"/> Decon between locations	Casing Stickup	0	ft.
Date	7-22-20	Reference Point	<input checked="" type="checkbox"/> Top of casing	Depth to Water	6.83	ft. BGL
MW ID	MW 89B	Location	<input type="checkbox"/> Other _____	Total MW Depth	40.80	ft. BGL
Sample ID	WG-1620 MW 89B 20200722	Meter Model		MW Diameter	2 1/2	inches
Pump	<input type="checkbox"/> Watterra <input type="checkbox"/> Submersible	Unit Number	C1108 P1115	MW Volume	543	gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder			Pump Intake Depth	32.0	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C) <input type="checkbox"/> NM	pH <input type="checkbox"/> NM	Conductivity (µS/m or mS/cm) <input type="checkbox"/> not measured	Dissolved Oxygen (mg/L) <input type="checkbox"/> not measured	Redox Potential (mV) <input type="checkbox"/> not measured	Turbidity (NTU) <input type="checkbox"/> NM
11:00	.2	.2	6.83	27.43	6.74	0.454	2.68	-135	1.2
11:05	.2	.3	7.88	27.00	6.66	0.466	1.47	-138	0.0
11:10	.2	.4	7.99	26.58	6.58	0.465	1.0	-143	0.0
11:15	.2	.5	8.08	26.55	6.54	0.454	0.71	-146	0.0
11:20	.2	.6	8.19	26.53	6.52	0.456	0.44	-146/46	0.0
11:25	.2	.7	8.27	26.58	6.51	0.450	0.27	-147	0.0

Purging was completed based on: stabilization of water quality parameters removal of three well volumes removal of at least one half well volume (low yield well)

Bottles Collected				Filtration	Preserved	Notes and Observations
Time	Volume	Composition (G / P)	No.	(10µm / 45µm)	(type)	(quality control sample, other)
11:25		P	6	<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered		clear
				<input type="checkbox"/> filtered <input type="checkbox"/> unfiltered		

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader Tim McSpadden T. McSpadden
name signature

WG-1620 MW 89B 20200722- 1125

Groundwater Sample Collection

Page ___ of ___

Project/Phase	19119232	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	2.99	ft. BMP
Site Location	HWPW		<input type="checkbox"/> Decon between locations	Casing Stickup	0	ft.
Date	7-22-20	Reference Point	<input checked="" type="checkbox"/> Top of casing	Depth to Water	2.99	ft. BGL
MW ID	MW 903	Location	<input type="checkbox"/> Other _____	Total MW Depth	35.35	ft. BGL
Sample ID	WG1620MW903 20200722	Water Quality		MW Diameter	2"	inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	C1108	MW Volume	5.17	gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	P1115	Pump Intake Depth	32.0	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C) <input type="checkbox"/> NM	pH <input type="checkbox"/> NM	Conductivity (µS/m or mS/cm) <input type="checkbox"/> not measured	Dissolved Oxygen (mg/L) <input type="checkbox"/> not measured	Redox Potential (mV) <input type="checkbox"/> not measured	Turbidity (NTU) <input type="checkbox"/> NM
9:20	.2	.2	2.99	28.32	6.67	0.784	1.91	-96	5.2
9:30	.2	.3	5.19	28.48	6.68	0.770	1.20	-87	1.7
9:35	.2	.4	5.35	28.65	6.69	0.756	0.94	-73	0.8
9:40	.2	.5	5.20	28.70	6.70	0.753	0.73	-63	0.0
9:45	.2	.6	6.14	28.78	6.69	0.751	0.43	-57	0.0

 Purging was completed based on: stabilization of water quality parameters removal of three well volumes removal of at least one half well volume (low yield well)

Bottles Collected				Filtration	Preserved	Notes and Observations
Time	Volume	Composition (G / P)	No.	(10µm / 45µm)	(type)	(quality control sample, other)
9:45		P	6	<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered		clear
				<input type="checkbox"/> filtered <input type="checkbox"/> unfiltered		

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

 Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

 Field Team Leader TIM McSpadden T. McSpadden
 name signature

WG1620MW90320200722. 9:45

Groundwater Sample Collection



Project/Phase	<u>19119232</u>	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	<u>6.06</u>	ft. BMP
Site Location	<u>UPRR-HWPW</u>		<input type="checkbox"/> Decon between locations	Casing Stickup	<u>-</u>	ft.
Date	<u>7-23-20</u>	Reference Point	<input checked="" type="checkbox"/> Top of casing	<input type="checkbox"/> Depth to Water	<u>6.06</u>	ft. BGL
MW ID	<u>MW91A</u>	Location	Other _____	Total MW Depth	<u>29.0</u>	ft. BGL
Sample ID	<u>WG-1620-MW91A-20200723</u>	Water Quality		MW Diameter	<u>2.0</u>	inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	<u>HORIBA</u>	MW Volume	<u>1</u>	gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	<u>U-50</u>	Pump Intake Depth	<u>1</u>	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C)	pH	Conductivity (µS/m or mS/cm)	Dissolved Oxygen (mg/L)	Redox Potential (mV)	Turbidity (NTU)
1314				<input type="checkbox"/> NM	<input type="checkbox"/> NM	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> NM
1324	<u>.2</u>	<u>/</u>	<u>6.21</u>	<u>24.6</u>	<u>7.11</u>	<u>1060</u>	<u>0.46</u>	<u>-101</u>	<u>36</u>
1329	<u>↓</u>	<u>/</u>	<u>6.19</u>	<u>24.1</u>	<u>7.12</u>	<u>1070</u>	<u>0.36</u>	<u>-94</u>	<u>26</u>
1334	<u>↓</u>	<u>/</u>	<u>6.19</u>	<u>24.2</u>	<u>7.09</u>	<u>1020</u>	<u>0.39</u>	<u>-96</u>	<u>29</u>
Purging was completed based on: <input checked="" type="checkbox"/> stabilization of water quality parameters <input type="checkbox"/> removal of three well volumes <input type="checkbox"/> removal of at least one half well volume (low yield well)									

Bottles Collected				Filtration (10µm / 45µm)	Preserved (type)	Notes and Observations (quality control sample, other)
Time	Volume	Composition (G / P)	No.			
<u>1345</u>	<u>60ml</u>	<u>P</u>	<u>1</u>	<input checked="" type="checkbox"/> filtered <input type="checkbox"/> unfiltered	<u>HNO₃</u>	<u>METALS</u>
<u>1345</u>	<u>40ml / 1L</u>	<u>G/G</u>		<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HCL / NONE</u>	<u>VOCS / SVOCs</u>

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader JOHN BRAYTON John Brayton
signature

Groundwater Sample Collection

Project/Phase	19119232	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	5.71	ft. BMP
Site Location	HWPCW		<input type="checkbox"/> Decon between locations	Casing Stickup	0	ft.
Date	7-22-20	Reference Point	<input checked="" type="checkbox"/> Top of casing	Depth to Water	5.71	ft. BGL
MW ID	MW-92B	Location	<input type="checkbox"/> Other _____	Total MW Depth	34.60	ft. BGL
Sample ID	WG1620MW92B20200722	Water Quality		MW Diameter	2"	inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	C1108	MW Volume	4.62	gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	P1115	Pump Intake Depth	32.0	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C) <input type="checkbox"/> NM	pH <input type="checkbox"/> NM	Conductivity (µS/m or mS/cm) <input type="checkbox"/> not measured	Dissolved Oxygen (mg/L) <input type="checkbox"/> not measured	Redox Potential (mV) <input type="checkbox"/> not measured	Turbidity (NTU) <input type="checkbox"/> NM
10:15	.2	.2	5.71	29.79	6.66	1.95	3.15	-127	0.0
10:20	.2	.3	6.37	28.55	6.58	1.95	2.13	-132	0.0
10:25	.2	.4	6.39	27.62	6.50	1.97	1.18	-137	0.0
10:30	.2	.5	6.41	27.69	6.30	1.98	0.73	-142	0.0
10:35	.2	.6	6.39	27.58	6.30	1.98	0.50	-144	0.0

Purging was completed based on: stabilization of water quality parameters removal of three well volumes removal of at least one half well volume (low yield well)

Bottles Collected				Filtration	Preserved	Notes and Observations
Time	Volume	Composition (G / P)	No.	(10µm / 45µm)	(type)	(quality control sample, other)
10:35		P	6	<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered		clear
				<input type="checkbox"/> filtered <input type="checkbox"/> unfiltered		

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

 Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

 Field Team Leader Tim McSpaulde J. M. Latta
 name signature

WG1620MW92B20200722 · 10:35

Groundwater Sample Collection

Project/Phase	19119232	Equipment Decon	<input type="checkbox"/> Dedicated equipment	Depth to Water	5.42	ft. BMP
Site Location	HWDU		<input checked="" type="checkbox"/> Decon between locations	Casing Stickup	0	ft.
Date	7-22-20	Reference Point	<input checked="" type="checkbox"/> Top of casing	Depth to Water	5.42	ft. BGL
MW ID	MW93B	Location	<input type="checkbox"/> Other	Total MW Depth	33.90	ft. BGL
Sample ID	WG-1620 MW93B 20200722	Water Quality		MW Diameter	2.7	inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model		MW Volume	4.5	gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number		Pump Intake Depth	30	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C) <input type="checkbox"/> NM	pH <input type="checkbox"/> NM	Conductivity (µS/m or mS/cm) <input type="checkbox"/> not measured	Dissolved Oxygen (mg/L) <input type="checkbox"/> not measured	Redox Potential (mV) <input type="checkbox"/> not measured	Turbidity (NTU) <input type="checkbox"/> NM
8:20	.2	.2	5.42	25.80	5.73	1.32	1.34	-74	0.0
8:30	.2	.3	5.99	25.73	5.83	1.31	1.03	-78	0.0
8:35	.2	.4	6.01	25.97	5.88	1.31	0.74	-84	0.0
8:40	.2	.5	6.00	25.99	5.91	1.30	0.61	-92	0.0
8:45	.2	.6	5.98	26.0	5.91	1.30	0.26	-96	0.0

Purging was completed based on: stabilization of water quality parameters removal of three well volumes removal of at least one half well volume (low yield well)

Bottles Collected				Filtration	Preserved	Notes and Observations
Time	Volume	Composition (G / P)	No.	(10µm / 45µm)	(type)	(quality control sample, other)
8:45		D	6	<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered		clear
				<input type="checkbox"/> filtered <input type="checkbox"/> unfiltered		

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader T.M. McSpadden T. McSpadden
name signature

WG-1620 MW93B 20200722 - 8:45

Groundwater Sample Collection

Project/Phase	19119232	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	5.19	ft. BMP
Site Location	MWPW		<input type="checkbox"/> Decon between locations	Casing Stickup	0	ft.
Date	7-20-20	Reference Point	<input checked="" type="checkbox"/> Top of casing	Depth to Water	5.19	ft. BGL
MW ID	MW 94A	Location	<input type="checkbox"/> Other _____	Total MW Depth	11.60	ft. BGL
Sample ID	WG1020MW94A20200720	Water Quality		MW Diameter	2.7	inches
Pump	<input checked="" type="checkbox"/> Watera <input type="checkbox"/> Submersible	Meter Model	C1108	MW Volume		gallons
	<input checked="" type="checkbox"/> Crystalline <input type="checkbox"/> Bladder	Unit Number	P1115	Pump Intake Depth		ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C) <input type="checkbox"/> NM	pH <input type="checkbox"/> NM	Conductivity (µS/m or mS/cm) <input type="checkbox"/> not measured	Dissolved Oxygen (mg/L) <input type="checkbox"/> not measured	Redox Potential (mV) <input type="checkbox"/> not measured	Turbidity (NTU) <input type="checkbox"/> NM
14:25	.2	.2	5.19	28.83	7.14	0.752	1.54	-120	0.0
14:30	.2	.3	5.33	29.44	7.12	0.742	1.11	-127	0.0
14:35	.2	.4	5.37	29.29	6.97	0.738	0.94	-131	0.0
14:40	.2	.5	5.38	29.18	6.89	0.739	0.88	-134	0.0
14:45	.2	.6	5.40	28.93	6.88	0.741	0.42	-137	0.0

Purging was completed based on: stabilization of water quality parameters removal of three well volumes removal of at least one half well volume (low yield well)

Bottles Collected				Filtration	Preserved	Notes and Observations
Time	Volume	Composition (G / P)	No.	(10µm / 45µm)	(type)	(quality control sample, other)
1445		P	6	<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered		clear
				<input type="checkbox"/> filtered <input type="checkbox"/> unfiltered		

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader T. McSpaldh T. McSpaldh
 name signature

WG1020MW94A20200720-1445

Groundwater Sample Collection

Page ___ of ___

Project/Phase	19110232	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	4.91	ft. BMP
Site Location	HWP6		<input type="checkbox"/> Decon between locations	Casing Stickup	0	ft.
Date	7-20-20	Reference Point	<input checked="" type="checkbox"/> Top of casing	Depth to Water	4.91	ft. BGL
MW ID	MW 95A	Location	<input type="checkbox"/> Other _____	Total MW Depth	24.90	ft. BGL
Sample ID	WG1620MW95A20200720	Water Quality		MW Diameter	2"	inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	C1108	MW Volume	3.19	gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	P1115	Pump Intake Depth	22	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C) <input type="checkbox"/> NM	pH <input type="checkbox"/> NM	Conductivity (µS/m or mS/cm) <input type="checkbox"/> not measured	Dissolved Oxygen (mg/L) <input type="checkbox"/> not measured	Redox Potential (mV) <input type="checkbox"/> not measured	Turbidity (NTU) <input type="checkbox"/> NM
8:45	.2	.2	4.91	26.95	5.59	1.19	5.98	39	0.0
8:55	.2	.3	5.71	26.95	5.76	1.27	5.27	-83	0.0
9:00	.2	.4	5.78	26.84	5.83	1.27	4.41	-99	0.0
9:05	.2	.5	5.99	26.86	5.99	1.28	4.11	-112	0.0
9:10	.2	.6	6.06	26.82	6.09	1.26	3.88	-129	0.0
9:15	.2	.7	6.19	26.89	6.14	1.26	2.74	-132	0.0

Purging was completed based on:
 stabilization of water quality parameters removal of three well volumes removal of at least one half well volume (low yield well)

Bottles Collected				Filtration	Preserved	Notes and Observations
Time	Volume	Composition (G / P)	No.	(10µm / 45µm)	(type)	(quality control sample, other)
9:15		P	6	<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered		clear
				<input type="checkbox"/> filtered <input type="checkbox"/> unfiltered		

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader Tim McSpedde T. McSpedde
 name signature

WG 1620 MW 95A 20200720 → 9:15

Groundwater Sample Collection



Project/Phase	19119032	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	6.01	ft. BMP
Site Location	HWPW		<input type="checkbox"/> Decon between locations	Casing Stickup	0	ft.
Date	7.20.20	Reference Point	<input checked="" type="checkbox"/> Top of casing	Depth to Water	6.01	ft. BGL
MW ID	MW 96B	Location	<input type="checkbox"/> Other _____	Total MW Depth	35.50	ft. BGL
Sample ID	WG1620 MW 96B 20200720	Water Quality		MW Diameter	2"	inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	C1108	MW Volume		gallons
	<input checked="" type="checkbox"/> Beristaltic <input type="checkbox"/> Bladder	Unit Number	P0115	Pump Intake Depth	32.	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C) <input type="checkbox"/> NM	pH <input type="checkbox"/> NM	Conductivity (µS/m or mS/cm) <input type="checkbox"/> not measured	Dissolved Oxygen (mg/L) <input type="checkbox"/> not measured	Redox Potential (mV) <input type="checkbox"/> not measured	Turbidity (NTU) <input type="checkbox"/> NM
13:35	.2	.2	6.01	29.79	6.99	0.602	1.88	+108	0.0
13:40	.2	.3	7.09	29.62	7.08	0.588	1.34	-124	0.0
13:45	.2	.4	7.27	29.54	7.18	0.568	0.90	-141	0.0
13:50	.2	.5	7.29	29.24	7.26	0.563	0.72	-146	0.0
13:55	.2	.6	7:33	28.72	7.25	0.563	0.47	-148	0.0

Purging was completed based on: stabilization of water quality parameters removal of three well volumes removal of at least one half well volume (low yield well)

Bottles Collected				Filtration	Preserved	Notes and Observations
Time	Volume	Composition (G / P)	No.	(10µm / 45µm)	(type)	(quality control sample, other)
				<input type="checkbox"/> filtered <input type="checkbox"/> unfiltered		
				<input type="checkbox"/> filtered <input type="checkbox"/> unfiltered		

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader Tim McSpedden T. McSpedden
name signature

WG1620 MW 96B 20200720

13:55

Groundwater Sample Collection



Project/Phase	<u>19119232</u>	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	<u>5.93</u>	ft. BMP
Site Location	<u>UPRR-HWPW</u>		<input type="checkbox"/> Decon between locations	Casing Stickup	<u>-</u>	ft.
Date	<u>7-16-20</u>	Reference Point	<input checked="" type="checkbox"/> Top of casing	<input type="checkbox"/> Depth to Water	<u>5.93</u>	ft. BGL
MW ID	<u>MW97A</u>	Location	Other _____	Total MW Depth	<u>19.90</u>	ft. BGL
Sample ID	<u>WG-162D-MW97A-20200716</u>	Water Quality		MW Diameter	<u>2.0</u>	inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	<u>HORIBA</u>	MW Volume	<u>1</u>	gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	<u>U-50</u>	Pump Intake Depth	<u>1</u>	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C)	pH	Conductivity (µS/m or mS/cm)	Dissolved Oxygen (mg/L)	Redox Potential (mV)	Turbidity (NTU)
1033				<input type="checkbox"/> NM	<input type="checkbox"/> NM	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> NM
1043	<u>2</u>	<u>/</u>	<u>6.21</u>	<u>23.2</u>	<u>6.71</u>	<u>1060</u>	<u>1.31</u>	<u>-61</u>	<u>5.2</u>
1048	<u>↓</u>	<u>/</u>	<u>6.23</u>	<u>23.5</u>	<u>6.56</u>	<u>1090</u>	<u>0.96</u>	<u>-66</u>	<u>3.7</u>
1053	<u>↓</u>	<u>/</u>	<u>6.23</u>	<u>23.6</u>	<u>6.59</u>	<u>1090</u>	<u>0.99</u>	<u>-67</u>	<u>4.1</u>
Purging was completed based on: <input checked="" type="checkbox"/> stabilization of water quality parameters <input type="checkbox"/> removal of three well volumes <input type="checkbox"/> removal of at least one half well volume (low yield well)									

Bottles Collected				Filtration	Preserved	Notes and Observations
Time	Volume	Composition (G / P)	No.	(10µm / 45µm)	(type)	(quality control sample, other)
<u>1105</u>	<u>60ML</u>	<u>P</u>	<u>1</u>	<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HNO3</u>	<u>METALS</u>
<u>1105</u>	<u>40ML/1L</u>	<u>G/G</u>		<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HCL/NONE</u>	<u>VOCS/SVCS</u>

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader JOHN BRAYTON
name

John Brayton
signature

Groundwater Sample Collection



Project/Phase	<u>19119232</u>	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	<u>7.13</u>	ft. BMP
Site Location	<u>UPRR-HWPW</u>		<input type="checkbox"/> Decon between locations	Casing Stickup	<u>-</u>	ft.
Date	<u>7-16-20</u>	Reference Point	<input checked="" type="checkbox"/> Top of casing	<input type="checkbox"/> Depth to Water	<u>7.13</u>	ft. BGL
MW ID	<u>MW98A-88</u>	Location	Other _____	Total MW Depth	<u>21.25</u>	ft. BGL
Sample ID	<u>WG-162D-MW98A-20200716</u>	Water Quality		MW Diameter	<u>2.0</u>	inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	<u>HORIBA</u>	MW Volume	<u>(</u>	gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	<u>U-50</u>	Pump Intake Depth	<u>(</u>	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C)	pH	Conductivity (µS/m or mS/cm)	Dissolved Oxygen (mg/L)	Redox Potential (mV)	Turbidity (NTU)
<u>1239</u>				<input type="checkbox"/> NM	<input type="checkbox"/> NM	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> NM
<u>1249</u>	<u>2</u>	<u>/</u>	<u>7.31</u>	<u>24.6</u>	<u>7.13</u>	<u>491</u>	<u>0.86</u>	<u>-26</u>	<u>8.1</u>
<u>1254</u>	<u>↓</u>	<u>/</u>	<u>7.32</u>	<u>24.7</u>	<u>7.11</u>	<u>467</u>	<u>0.71</u>	<u>-20</u>	<u>6.2</u>
<u>1259</u>	<u>↓</u>	<u>/</u>	<u>7.31</u>	<u>24.7</u>	<u>7.09</u>	<u>472</u>	<u>0.72</u>	<u>-21</u>	<u>7.2</u>
Purging was completed based on:			<input checked="" type="checkbox"/> stabilization of water quality parameters <input type="checkbox"/> removal of three well volumes <input type="checkbox"/> removal of at least one half well volume (low yield well)						

Bottles Collected				Filtration (10µm / 45µm)	Preserved (type)	Notes and Observations (quality control sample, other)
Time	Volume	Composition (G / P)	No.			
<u>1310</u>	<u>60mL</u>	<u>P</u>	<u>1</u>	<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HNO3</u>	<u>METALS</u>
<u>1310</u>	<u>40mL/1L</u>	<u>G/G</u>		<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HCL/NONE</u>	<u>VOCS/SVOCS</u>

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader JOHN BRAYTON name John Brayton signature

Groundwater Sample Collection



Project/Phase	<u>19119232</u>	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	<u>7.81</u>	ft. BMP
Site Location	<u>UPRR-HWPW</u>		<input type="checkbox"/> Decon between locations	Casing Stickup	<u>-</u>	ft.
Date	<u>7-16-20</u>	Reference Point	<input checked="" type="checkbox"/> Top of casing	<input type="checkbox"/> Depth to Water	<u>7.81</u>	ft. BGL
MW ID	<u>MW98B</u>	Location	Other _____	Total MW Depth	<u>39.70</u>	ft. BGL
Sample ID	<u>WG-1620-MW98B-20200716</u>	Water Quality		MW Diameter	<u>2.0</u>	inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	<u>HORIBA</u>	MW Volume	<u>1</u>	gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	<u>U-50</u>	Pump Intake Depth	<u>1</u>	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C)	pH	Conductivity (µS/m or mS/cm)	Dissolved Oxygen (mg/L)	Redox Potential (mV)	Turbidity (NTU)
1120				<input type="checkbox"/> NM	<input type="checkbox"/> NM	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> NM
1130	<u>1.2</u>	<u>/</u>	<u>8.16</u>	<u>23.6</u>	<u>6.46</u>	<u>1120</u>	<u>1.06</u>	<u>-26</u>	<u>6.2</u>
1135	<u>↓</u>	<u>/</u>	<u>8.19</u>	<u>23.7</u>	<u>6.51</u>	<u>1110</u>	<u>0.89</u>	<u>-31</u>	<u>7.7</u>
1140	<u>↓</u>	<u>/</u>	<u>8.19</u>	<u>23.6</u>	<u>6.52</u>	<u>1110</u>	<u>0.88</u>	<u>-30</u>	<u>7.9</u>

Purging was completed based on: stabilization of water quality parameters removal of three well volumes removal of at least one half well volume (low yield well)

Bottles Collected				Filtration (10µm / 45µm)	Preserved (type)	Notes and Observations (quality control sample, other)
Time	Volume	Composition (G / P)	No.			
1150	<u>60ML</u>	<u>P</u>	<u>1</u>	<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HNO3</u>	<u>METALS</u>
1150	<u>40ML / 1L</u>	<u>G/G</u>		<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HCL / NONE</u>	<u>VOCS / SVOCS</u>

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader JOHN BRAYTON name John Brayton signature

Groundwater Sample Collection



Project/Phase	<u>19119232</u>	Equipment Decon	<input checked="" type="checkbox"/> Dedicated equipment	Depth to Water	<u>16.12</u>	ft. BMP
Site Location	<u>UPRR-HWPW</u>		<input type="checkbox"/> Decon between locations	Casing Stickup	<u>-</u>	ft.
Date	<u>7-22-20</u>	Reference Point	<input checked="" type="checkbox"/> Top of casing	<input type="checkbox"/> Depth to Water	<u>16.12</u>	ft. BGL
MW ID	<u>MW99C</u>	Location	Other _____	Total MW Depth	<u>68.0</u>	ft. BGL
Sample ID	<u>WG-1620-MW99C-20A06P2</u>	Water Quality		MW Diameter	<u>2.0</u>	inches
Pump	<input type="checkbox"/> Waterra <input type="checkbox"/> Submersible	Meter Model	<u>HORIBA</u>	MW Volume	<u>1</u>	gallons
	<input checked="" type="checkbox"/> Peristaltic <input type="checkbox"/> Bladder	Unit Number	<u>U-50</u>	Pump Intake Depth	<u>1</u>	ft. BGL

Standard volume capacity of monitoring wells: Schedule 40 PVC (1-inch OD, 0.04 gallons/foot; 2-inch OD, 0.16 gallons/foot; 4-inch OD, 0.65 gallons/foot)

Time	Purge Rate (L/min)	Cumulative Purge Volume (L)	Depth to Water (ft)	Temp (°C)	pH	Conductivity (µS/m or mS/cm)	Dissolved Oxygen (mg/L)	Redox Potential (mV)	Turbidity (NTU)
<u>1602</u>				<input type="checkbox"/> NM	<input type="checkbox"/> NM	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> not measured	<input type="checkbox"/> NM
<u>1613</u>	<u>1.2</u>	<u>/</u>	<u>16.39</u>	<u>24.2</u>	<u>6.70</u>	<u>992</u>	<u>1.39</u>	<u>-81</u>	<u>2.6</u>
<u>1617</u>	<u>↓</u>	<u>/</u>	<u>16.36</u>	<u>24.0</u>	<u>6.72</u>	<u>951</u>	<u>1.06</u>	<u>-77</u>	<u>3.4</u>
<u>1622</u>	<u>↓</u>	<u>/</u>	<u>16.35</u>	<u>24.1</u>	<u>6.71</u>	<u>946</u>	<u>1.12</u>	<u>-76</u>	<u>5.9</u>
Purging was completed based on: <input checked="" type="checkbox"/> stabilization of water quality parameters <input type="checkbox"/> removal of three well volumes <input type="checkbox"/> removal of at least one half well volume (low yield well)									

Bottles Collected				Filtration (10µm / 45µm)	Preserved (type)	Notes and Observations (quality control sample, other)
Time	Volume	Composition (G / P)	No.			
<u>1635</u>	<u>60ML</u>	<u>P</u>	<u>1</u>	<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HNO3</u>	<u>METALS</u>
<u>1635</u>	<u>40ML / 1L</u>	<u>G / G</u>		<input type="checkbox"/> filtered <input checked="" type="checkbox"/> unfiltered	<u>HCL / NONE</u>	<u>VOCS / SVOCS</u>

Notes: record time at which purging is started. For low flow sampling, recommended stabilization criteria: temp ± 0.5°C; pH ± 0.1 units; conductivity ± 3%; DO ± 1 mg/L; ORP ± 10 mV; for at least three successive measurements that are made every 3-5 minutes with <1 foot of stable draw down.

Unless otherwise noted, groundwater sample collection was completed in accordance with the applicable requirements of Golder's Quality Assurance Program and Standard Operating Procedure 9 Conventional Groundwater Sample Collection 10 Low Flow Groundwater Sample Collection.

Field Team Leader JOHN BRAYTON name John Brayton signature

ATTACHMENT B

Data Usability Summary and
Analytical Reports from July 2020
Site-Wide Sampling Event and
October 2020 Re-sampling Event



Memorandum

September 15, 2020

Revision: October 26, 2020

To: Eric Matzner Ref. No.: 11183954-1620

From: ^{CK} Chris G. Knight/eew/739-NF Tel: 512-506-8803

CC: Jesse Orth, Jon Lang; Julie Lidstone

**Subject: Data Usability Summary
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR) / Houston TX-Wood Preserving Works
Houston, Texas
July-October 2020**

1. Scope of Data Usability Study

This document details a Data Usability Summary (DUS) of analytical results for groundwater samples collected in support of the HWPW - Site-Wide Monitoring at the Union Pacific Railroad (UPRR) / Houston TX-Wood Preserving Works site during July-October 2020. Samples were submitted to ALS Environmental (ALS), located in Houston, Texas and are reported in data packages HS20070656, HS20070774, HS20070941, HS20071089, HS20071137, HS20071329, HS20071344, HS20080053, HS20080775, and HS20100432. The intended use of the data is to support the HWPW - Site-Wide Monitoring at the site by providing current concentration of chemicals of concern.

Data were reviewed and validated by Chris G. Knight of GHD, in accordance with Title 30 of the Texas Administrative Code Section 350.54 (30 TAC 350.54) as described in the Texas Commission on Environmental Quality (TCEQ) Regulatory Guidance document entitled "Review and Reporting of COC Concentration Data under TRRP", (RG-366/TRRP-13), revised May 2010, herein referred to as "TRRP-13 Guidance". Evaluation of the data was based on information obtained from the chain of custody forms, the finished report forms, method blank data, recovery data from surrogate spikes/laboratory control samples (LCS)/matrix spikes (MS), duplicate data, field quality assurance/quality control (QA/QC) samples, the laboratory review checklists (LRC), and the laboratory exception reports (ER).

A sample collection and analysis summary is presented in Table 1. This summary provides a cross-reference of field sample identification numbers and location identification. Each sample is assigned a unique field identification number.

The validated sample results are presented in Table 2. A summary of the analytical methodology is presented in Table 3.



2. Laboratory Qualifications

The Laboratory's quality assurance program is consistent with the quality standards outlined in the National Environmental Laboratory Accreditation Program (NELAP). This laboratory was accredited under Texas Certification number # TX104704231 at the time the analysis was performed and the certificate is included in Attachment A.

3. Project Objectives

3.1 Sampling/Analytical QA/QC Objectives

The QA/QC program was designed to identify contamination resulting from the sampling, sample transport and analytical process through the analysis of trip blank samples, field blank samples, field duplicate sample sets, and method blanks. The QA/QC program was designed to evaluate the quality of the resulting data with respect to bias and precision through analysis of LCS, MS, and duplicate analyses.

4. Data Review/Validation Results

4.1 Sample Holding Time and Preservation

Samples were shipped with a chain of custody and the paper work was filled out properly with the following exception:

- i) HS20070941: The collection time for WG-1620-MW22BR-20200720 on sample containers for semi-volatile organic compounds (SVOCs) analysis differs from the chain of custody. Sample logged in using the time listed on the chain of custody. No further actions were required.

All samples were properly preserved, delivered on ice, and stored by the laboratory at the required temperature (0-6°C) with the following exceptions:

- i) HS20080053: WG-1620-MW59D-20200803 and WG-1620-DUP08-20200803 were received with no arsenic sample containers. Arsenic was requested on the chain of custody. The laboratory took an aliquot from the SVOCs container and properly acidified with nitric acid preservative. No further action was required.
- ii) HS20100432: GW-1620-MW 85C 20201008 was received in a properly preserved sample container for arsenic analysis. However the preservative was insufficient to lower the pH to the method requirement of <2. Additional preservative was added by the laboratory to lower the pH to <2. No further action was required.

The sample chain of custody documents and the analytical report were used to determine sample holding times. All samples were prepared and analyzed within the required holding times with the following exception:

- i) HS20071329: The following samples were originally extracted for SVOCs however the extraction technician inadvertently spiked the samples with the LCS spike instead of surrogate spike:



WG-1620-MW33A-20200728, WG-1620-MW34CR-20200728, WG-1620-MW36A-20200728, WG-1620-MW44C-20200728, WG-1620-MW70C-20200728, WG-1620-DUP06-20200728, and WG-1620-FB10-20200728. The re-extraction of these samples would have been reported outside the hold time. SVOCs analysis was cancelled for these samples. No further action was required.

4.2 Sample Containers

Sample containers used were certified pre-cleaned glass and plastic containers provided by the laboratory. These containers meet or exceed analyte specifications established in the United States Environmental Protection Agency (USEPA) *Specifications and Guidance for Contaminant-free Sample Containers*.

4.3 Calibrations

According to the LRC, initial calibration and continuing calibration data met the criteria for the selected method.

4.4 Laboratory Method Blank Analyses

Method blanks are prepared from a purified matrix and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the analytical procedures. As these were not discrete samples handled in the field, these blanks are not listed on the sample identification cross-reference list found in the data packages.

For this study, laboratory method blanks were analyzed at a minimum frequency of one per twenty investigative samples and/or one per analytical batch and results are reported in the laboratory data packages.

The method blank results were non-detect or below the method quantitation limit (MQL), indicating that laboratory contamination was not a factor for this investigation.

4.5 Internal Standard and Surrogate Spike Recoveries

Recoveries of internal standards are addressed in the LRC of the data packages. All internal standard recoveries associated with the compounds of interest were acceptable per the LRC.

In accordance with the methods employed, all samples, blanks, and QC samples analyzed for volatile organic compounds (VOCs) and SVOCs are spiked with surrogate compounds prior to sample analysis. Surrogate recoveries provide a means to evaluate the effects of laboratory performance on individual sample matrices. The recovery ranges established by the laboratory are adopted as the acceptance criteria for the project. Each individual surrogate compound is expected to meet the laboratory control limits. According to the TRRP-13 Guidelines, one outlying surrogate is acceptable for methods with multiple surrogate spike compounds as long as the recovery is at least ten percent. Sample analyzed at elevated sample dilutions (five times or greater) were not assessed.

Surrogate recoveries were assessed against laboratory control limits and/or the guidance in TRRP-13. All surrogate recoveries met the above criteria with the following exceptions (see Table 4):



- i) The following samples were reported with multiple low surrogate recoveries: WG-1620-MW44A-20200722, WG-1620-MW45C-20200722, WG-1620-MW46C-20200722, WG-1620-MW63B-20200723, and WG-1620-MW71B-20200723. All associated sample results were qualified as estimated; biased low.

4.6 Laboratory Control Sample Analysis

LCS or LCS/laboratory control sample duplicate (LCSD) are prepared and analyzed as samples to assess the analytical efficiencies of the methods employed, independent of sample matrix effects. The relative percent difference (RPD) of the LCS/LCSD recoveries is used to evaluate analytical precision. The recovery ranges established by the laboratory are adopted as the acceptance criteria for the project.

For this study, LCS or LCS/LCSD were analyzed at a minimum frequency of one per twenty investigative samples and/or one per analytical batch.

The LCS or LCS/LCSD contained all analytes specified in the methods. All LCS recoveries and/or RPDs were within the laboratory control limits, demonstrating acceptable analytical accuracy and precision (where applicable) with the following exceptions (see Table 5):

- i) Two LCS were reported with elevated recoveries for methylene chloride. All associated sample results were non-detect and not affected by the indicated high bias. No further action was required.
- ii) Several LCS/LCSD were reported with elevated RPDs for multiple SVOCs. Associated non-detect sample results would not be affected by the indicated variability. No further actions were required. All associated detected sample results were qualified as estimated.
- iii) One LCS/LCSD was reported with elevated recoveries for 4,6-dinitro-2-methylphenol. All associated sample results were non-detect and not affected by the indicated high bias. No further action was required.

4.7 Matrix Spike Analysis

To evaluate the effects of sample matrices on the preparation process, measurement procedures, and accuracy of a particular analysis, samples are spiked with known concentrations of the analytes of interest and analyzed as MS/matrix spike duplicate (MSD) samples. The RPD between the MS and MSD is used to assess analytical precision.

MS/MSD analyses were performed as specified in Table 1. The recovery ranges established by the laboratory is adopted as the acceptance criteria for the project.

The MS/MSD samples were spiked with all analytes specified in the methods. All percent recoveries and the RPD value were within the laboratory control limits, demonstrating acceptable analytical accuracy and precision with the following exceptions:

- i) One MS/MSD was reported with a low MSD recovery for ethylbenzene. If only the MS or MSD recovery was outside of control limits, no qualification of the data was performed based on the acceptable recovery of the companion spike and the acceptable RPD. No further action was required.



- ii) One MS/MSD was reported with low recoveries for the following VOCs due to possible matrix interferences and was not assessed. No further action was required.
- iii) One MS/MSD was reported with elevated recoveries for benzo(a)pyrene. The associated sample result was non-detect and not affected by the indicated high bias. No further action was required.
- iv) One MS/MSD was reported with an elevated RPD for phenol. The associated sample result was non-detect and not affected by the indicated variability. No further action was required.

The laboratory also performed additional MS/MSD on non-site samples. These cannot be used to assess accuracy and precision for the site samples.

4.8 Duplicate Sample Analyses

Analytical precision is evaluated based on the analysis of laboratory duplicate samples. For this study, duplicate samples were prepared and analyzed by the laboratory as specified in Table 1 for arsenic. The RPD established by the laboratory are adopted as the acceptance criteria for the project.

All duplicate analyses performed were acceptable, demonstrating acceptable analytical precision.

The laboratory also performed additional duplicate analyses on non-site samples. These cannot be used to assess precision for the site samples.

4.9 Field QA/QC Samples

The field QA/QC consisted of nine trip blank samples, eleven field blank samples, and seven field duplicate sample sets.

Trip Blank Sample Analysis

To evaluate contamination from sample collection, transportation, storage, and analytical activities, nine trip blank samples were submitted to the laboratory for VOCs analysis. All results were non-detect for the compounds of interest.

Field Blank Sample Analysis

To assess ambient conditions at the site, eleven field blank samples were submitted for analysis, as identified in Table 1. All results were non-detect for the compounds of interest with the following exceptions (see Table 6):

- i) The following field blanks submitted yielded low level detections for multiple VOCs and/or SVOCs: WG-1620-FB01-20200714, WG-1620-FB02-20200715, WG-1620-FB03-20200716, WG-1620-FB04-20200717, WG-1620-FB05-20200720, WG-1620-FB06-20200722, WG-1620-FB08-20200803, WG-1620-FB09-20200727, and WG-1620-FB11-20200729. Associated sample results that were significantly greater than the concentrations found in the field blanks or were non-detect were not impacted. No further action was required. Associated sample results with comparable concentrations to the field blank detections were qualified as non-detect.



Field Duplicate Sample Analysis

To assess the analytical and sampling protocol precision, eight field duplicate sample sets were collected and submitted "blind" to the laboratory, as specified in Table 1. The RPDs associated with these duplicate samples must be less than thirty percent for water samples. The RPDs are only used when sample concentrations are above the estimated regions of detection.

Field duplicate summary data are presented in Table 2. All field duplicate results were within acceptable agreement, demonstrating acceptable sampling and analytical precision with the following exceptions (see Table 7):

- i) WG-1620-MW21C-20200716 and WG-1620-DUP01-20200716 did show some variability in SVOCs results and were qualified as estimated.
- ii) WG-1620-MW83B-20200722 and WG-1620-DUP02-20200722 did show some variability in VOCs, SVOCs, and arsenic results and were qualified as estimated.
- iii) WG-1620-MW54C-20200722 and WG-1620-DUP03-20200722 did show some variability in SVOCs results and were qualified as estimated.
- iv) WG-1620-MW68B-20200727 and WG-1620-DUP05-20200727 did show some variability in SVOCs results and were qualified as estimated.
- v) GW-1620-MW66D-20201008 and GW-1620-DUP01-20201008 did show some variability in arsenic results and were qualified as estimated.

4.10 Field Procedures

Golder Associates, Inc. collected groundwater samples in accordance with their Standard Operating Procedures (SOP) for sample collection.

4.11 Analyte Reporting

The laboratory reported detected results for each analyte down to the sample detection limit (SDL), which is defined as the method detection limit (MDL) with sample-specific adjustments for dilutions, aliquot size, volumes, etc. Positive analyte detections less than the MQL but greater than the SDL were qualified as estimated (J) in Table 2 unless qualified otherwise in this memorandum.

- i) Multiple samples were analyzed at elevated sample dilutions for VOCs and SVOCs analyses due high concentrations of non-target compounds and/or high levels of matrix interferences. No further actions were required.

The detectability check standard (DCS) results supported the laboratory MDLs.



5. Conclusion

Based on the assessment detailed in the foregoing, the data summarized in Table 2 are usable for the purpose of supporting the HWPW - Site-Wide Monitoring at the site by providing current concentration of chemicals of concern with the specific qualifications noted herein.

Table 1

Sample Collection and Analysis Summary
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020

Sample Identification	Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters			Comments
					VOCs	SVOCs	Arsenic	
WG-1620-MW20A-20200714	MW-20A	Water	07/14/2020	08:35	X	X	X	MS/MSD-P; DUP
WG-1620-MW15A-20200714	MW-15A	Water	07/14/2020	09:25	X	X	X	
WG-1620-MW15C-20200714	MW-15C	Water	07/14/2020	10:10	X	X	X	
WG-1620-MW15B-20200714	MW-15B	Water	07/14/2020	10:55	X	X	X	
WG-1620-MW19C-20200714	MW-19C	Water	07/14/2020	11:40	X	X	X	
WG-1620-MW23C-20200714	MW-23C	Water	07/14/2020	12:25	X	X	X	
WG-1620-MW72B-20200714	MW-72B	Water	07/14/2020	14:10	X	X	X	
WG-1620-MW18A-20200714	MW-18A	Water	07/14/2020	15:00	X	X	X	
WG-1620-MW18C-20200714	MW-18C	Water	07/14/2020	15:50	X	X	X	
WG-1620-MW17-20200714	MW-17	Water	07/14/2020	16:50	X	X	X	
WG-1620-MW17C-20200714	MW-17C	Water	07/14/2020	17:40	X	X	X	
WG-1620-FB01-20200714	-	Water	07/14/2020	18:00	X	X	X	Field Blank
WG-1620-MW57B-20200715	MW-57B	Water	07/15/2020	08:15	X	X	X	
WG-1620-MW57A-20200715	MW-57A	Water	07/15/2020	09:10	X	X	X	
WG-1620-MW58A-20200715	MW-58A	Water	07/15/2020	09:55	X	X	X	
WG-1620-MW09-20200715	MW-09	Water	07/15/2020	10:25	X	X	X	
WG-1620-MW14-20200715	MW-14	Water	07/15/2020	10:45	X	X	X	
WG-1620-MW13-20200715	MW-13	Water	07/15/2020	11:40	X	X	X	
WG-1620-MW64A-20200715	MW-64A	Water	07/15/2020	11:40	X	X	X	

Table 1

Sample Collection and Analysis Summary
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020

Sample Identification	Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters			Comments
					VOCs	SVOCs	Arsenic	
WG-1620-MW03-20200715	MW-03	Water	07/15/2020	12:40	X	X	X	
WG-1620-MW88C-20200715	MW-88C	Water	07/15/2020	12:55	X	X	X	
WG-1620-MW05-20200715	MW-05	Water	07/15/2020	13:35	X	X	X	
WG-1620-MW88A-20200715	MW-88A	Water	07/15/2020	14:00	X	X	X	
WG-1620-MW04-20200715	MW-04	Water	07/15/2020	14:25	X	X	X	
WG-1620-FB02-20200715	-	Water	07/15/2020	14:45	X	X	X	Field Blank
WQ-1620-TB01-20200715	-	Water	07/15/2020	-	X			Trip Blank
WG-1620-MW51C-20200716	MW-51C	Water	07/16/2020	08:35	X	X	X	
WG-1620-MW21C-20200716	MW-21C	Water	07/16/2020	08:40	X	X	X	
WG-1620-DUP01-20200716	MW-21C	Water	07/16/2020	08:40	X	X	X	Field duplicate of MW-21C
WG-1620-MW51A-20200716	MW-51A	Water	07/16/2020	09:25	X	X	X	
WG-1620-MW86C-20200716	MW-86C	Water	07/16/2020	10:15	X	X	X	
WG-1620-P11-20200716	P-11	Water	07/16/2020	10:25	X	X	X	
WG-1620-MW97A-20200716	MW-97A	Water	07/16/2020	11:05	X	X	X	
WG-1620-MW62B-20200716	MW-62B	Water	07/16/2020	11:25	X	X	X	
WG-1620-MW98B-20200716	MW-98B	Water	07/16/2020	11:50	X	X	X	
WG-1620-MW88B-20200716	MW-88B	Water	07/16/2020	12:25	X	X	X	MS/MSD; DUP
WG-1620-MW98A-20200716	MW-98A	Water	07/16/2020	13:10	X	X	X	
WG-1620-MW42B-20200716	MW-42B	Water	07/16/2020	13:45	X	X	X	

Table 1

Sample Collection and Analysis Summary
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020

Sample Identification	Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters			Comments
					VOCs	SVOCs	Arsenic	
WG-1620-MW50B-20200716	MW-50B	Water	07/16/2020	14:00	X	X	X	
WG-1620-MW40B-20200716	MW-40B	Water	07/16/2020	14:45	X	X	X	
WG-1620-MW85C-20200716	MW-85C	Water	07/16/2020	14:50	X	X	X	
WG-1620-MW39B-20200716	MW-39B	Water	07/16/2020	15:40	X	X	X	
WG-1620-MW47C-20200716	MW-47C	Water	07/16/2020	15:50	X	X	X	
WG-1620-FB03-20200716	-	Water	07/16/2020	16:00	X	X	X	Field Blank
WG-1620-MW49A-20200716	MW-49A	Water	07/16/2020	16:45	X	X	X	
WG-1620-MW48C-20200716	MW-48C	Water	07/16/2020	17:35	X	X	X	
WQ-1620-TB02-20200716	-	Water	07/16/2020	-	X			Trip Blank
WG-1620-TW41B-20200717	TW-41B	Water	07/17/2020	09:00	X	X	X	MS/MSD-P
WG-1620-MW12A-20200717	MW-12A	Water	07/17/2020	10:10	X	X	X	
WG-1620-MW12C-20200717	MW-12C	Water	07/17/2020	10:40	X	X	X	
WG-1620-FB04-20200717	-	Water	07/17/2020	11:30	X	X	X	Field Blank
WG-1620-MW80B-20200720	MW-80B	Water	07/20/2020	08:05	X	X	X	
WG-1620-MW77A-20200720	MW-77A	Water	07/20/2020	09:00	X	X	X	
WG-1620-MW95A-20200720	MW-95A	Water	07/20/2020	09:15	X	X	X	
WG-1620-MW76B-20200720	MW-76B	Water	07/20/2020	09:50	X	X	X	
WG-1620-MW38A-20200720	MW-38A	Water	07/20/2020	10:20	X	X	X	
WG-1620-MW76C-20200720	MW-76C	Water	07/20/2020	10:35	X	X	X	

Table 1

Sample Collection and Analysis Summary
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020

Sample Identification	Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters			Comments
					VOCs	SVOCs	Arsenic	
WG-1620-MW38B-20200720	MW-38B	Water	07/20/2020	11:20	X	X	X	
WG-1620-MW78A-20200720	MW-78A	Water	07/20/2020	11:25	X	X	X	
WG-1620-MW22AR-20200720	MW-22AR	Water	07/20/2020	12:15	X	X	X	
WG-1620-MW61A-20200720	MW-61A	Water	07/20/2020	12:30	X	X	X	MS/MSD; DUP
WG-1620-MW22BR-20200720	MW-22BR	Water	07/20/2020	13:00	X	X	X	
WG-1620-MW61B-20200720	MW-61B	Water	07/20/2020	13:55	X	X	X	
WG-1620-MW96B-20200720	MW-96B	Water	07/20/2020	13:55	X	X	X	
WG-1620-MW94A-20200720	MW-94A	Water	07/20/2020	14:45	X	X	X	
WG-1620-MW60AR-20200720	MW-60AR	Water	07/20/2020	14:50	X	X	X	
WG-1620-MW60B-20200720	MW-60B	Water	07/20/2020	15:35	X	X	X	
WG-1620-MW82B-20200720	MW-82B	Water	07/20/2020	15:35	X	X	X	
WG-1620-FB05-20200720	-	Water	07/20/2020	16:00	X	X	X	Field Blank
WG-1620-MW50A-20200720	MW-50A	Water	07/20/2020	16:35	X	X	X	
WG-1620-MW81B-20200720	MW-81B	Water	07/20/2020	17:25	X	X	X	
WQ-1620-TB04-20200722	-	Water	07/20/2020	-	X			Trip Blank
WG-1620-MW49B-20200721	MW-49B	Water	07/21/2020	11:55	X	X	X	
WG-1620-MW74B-20200721	MW-74B	Water	07/21/2020	12:50	X	X	X	

Table 1

Sample Collection and Analysis Summary
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020

Sample Identification	Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters			Comments
					VOCs	SVOCs	Arsenic	
WG-1620-MW79A-20200721	MW-79A	Water	07/21/2020	13:45	X	X	X	
WG-1620-MW75B-20200721	MW-75B	Water	07/21/2020	14:30	X	X	X	
WG-1620-MW47A-20200721	MW-47A	Water	07/21/2020	15:30	X	X	X	
WG-1620-MW59B-20200721	MW-59B	Water	07/21/2020	16:25	X	X	X	
WG-1620-MW59A-20200721	MW-59A	Water	07/21/2020	17:10	X	X	X	
WG-1620-MW69A-20200721	MW-69A	Water	07/21/2020	18:15	X	X	X	
WQ-1620-TB03-20200721	-	Water	07/21/2020	-	X			Trip Blank
WG-1620-MW83C-20200722	MW-83C	Water	07/22/2020	07:35	X	X	X	
WG-1620-MW83B-20200722	MW-83B	Water	07/22/2020	08:25	X	X	X	
WG-1620-DUP02-20200722	MW-83B	Water	07/22/2020	08:25	X	X	X	Field duplicate of MW-83B
WG-1620-MW93B-20200722	MW-93B	Water	07/22/2020	08:45	X	X	X	
WG-1620-MW25A-20200722	MW-25A	Water	07/22/2020	09:20	X	X	X	
WG-1620-MW90B-20200722	MW-90B	Water	07/22/2020	09:45	X	X	X	
WG-1620-MW25C-20200722	MW-25C	Water	07/22/2020	10:10	X	X	X	
WG-1620-MW92B-20200722	MW-92B	Water	07/22/2020	10:35	X	X	X	
WG-1620-MW44A-20200722	MW-44A	Water	07/22/2020	11:05	X	X	X	
WG-1620-MW89B-20200722	MW-89B	Water	07/22/2020	11:25	X	X	X	

Table 1

Sample Collection and Analysis Summary
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020

Sample Identification	Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters			Comments
					VOCs	SVOCs	Arsenic	
WG-1620-MW67B-20200722	MW-67B	Water	07/22/2020	12:30	X	X	X	MS/MSD; DUP
WG-1620-MW45C-20200722	MW-45C	Water	07/22/2020	12:50	X	X	X	
WG-1620-MW46C-20200722	MW-46C	Water	07/22/2020	13:50	X	X	X	
WG-1620-MW35A-20200722	MW-35A	Water	07/22/2020	14:05	X	X	X	
WG-1620-MW54C-20200722	MW-54C	Water	07/22/2020	14:50	X	X	X	
WG-1620-DUP03-20200722	MW-54C	Water	07/22/2020	14:50	X	X	X	Field duplicate of MW-54C
WG-1620-MW35B-20200722	MW-35B	Water	07/22/2020	15:10	X	X	X	
WG-1620-MW54B-20200722	MW-54B	Water	07/22/2020	15:45	X	X	X	
WG-1620-FB06-20200722	-	Water	07/22/2020	16:00	X	X	X	Field Blank
WG-1620-MW99C-20200722	MW-99C	Water	07/22/2020	16:35	X	X	X	
WQ-1620-TB05-20200723	-	Water	07/22/2020	-	X			Trip Blank
WG-1620-MW53C-20200723	MW-53C	Water	07/23/2020	07:45	X	X	X	
WG-1620-MW87C-20200723	MW-87C	Water	07/23/2020	08:40	X	X	X	
WG-1620-MW71B-20200723	MW-71B	Water	07/23/2020	09:30	X	X	X	
WG-1620-MW63B-20200723	MW-63B	Water	07/23/2020	10:15	X	X	X	MS/MSD-P
WG-1620-MW32AR-20200723	MW-32AR	Water	07/23/2020	12:50	X	X	X	
WG-1620-MW91A-20200723	MW-91A	Water	07/23/2020	13:45	X	X	X	
WG-1620-MW28A-20200723	MW-28A	Water	07/23/2020	14:40	X	X	X	
WG-1620-MW70B-20200723	MW-70B	Water	07/23/2020	15:25	X	X	X	

Table 1

Sample Collection and Analysis Summary
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020

Sample Identification	Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters			Comments
					VOCs	SVOCs	Arsenic	
WG-1620-MW84A-20200727	MW-84A	Water	07/27/2020	08:55	X	X	X	
WG-1620-MW84B-20200727	MW-84B	Water	07/27/2020	09:50	X	X	X	
WG-1620-MW26A-20200727	MW-26A	Water	07/27/2020	10:55	X	X	X	
WG-1620-MW68A-20200727	MW-68A	Water	07/27/2020	11:50	X	X	X	
WG-1620-MW68B-20200727	MW-68B	Water	07/27/2020	12:45	X	X	X	
WG-1620-DUP05-20200727	MW-68B	Water	07/27/2020	12:45	X	X	X	Field duplicate of MW-68B
WG-1620-MW68C-20200727	MW-68C	Water	07/27/2020	13:50	X	X	X	
WG-1620-MW32B-20200727	MW-32B	Water	07/27/2020	14:50	X	X	X	
WG-1620-MW33BR-20200727	MW-33BR	Water	07/27/2020	15:55	X	X	X	
WG-1620-FB09-20200727	-	Water	07/27/2020	16:30	X	X	X	Field Blank
WG-1620-MW28C-20200728	MW-28C	Water	07/28/2020	08:15	X	X	X	MS/MSD; DUP
WG-1620-MW36B-20200728	MW-36B	Water	07/28/2020	10:00	X	X	X	
WG-1620-MW36A-20200728	MW-36A	Water	07/28/2020	11:10	X		X	
WG-1620-MW44C-20200728	MW-44C	Water	07/28/2020	12:05	X		X	
WG-1620-MW34CR-20200728	MW-34CR	Water	07/28/2020	13:05	X		X	
WG-1620-MW33A-20200728	MW-33A	Water	07/28/2020	14:10	X		X	
WG-1620-DUP06-20200728	MW-33A	Water	07/28/2020	14:10	X		X	Field duplicate of MW-33A
WG-1620-MW70C-20200728	MW-70C	Water	07/28/2020	15:05	X		X	
WG-1620-FB10-20200728	-	Water	07/28/2020	15:30	X		X	Field Blank

Table 1

Sample Collection and Analysis Summary
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020

Sample Identification	Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters			Comments
					VOCs	SVOCs	Arsenic	
WQ-1620-TB06-20200728	-	Water	07/28/2020	-	X			Trip Blank
WG-1620-MW41B-20200729	MW-41B	Water	07/29/2020	09:00	X	X	X	
WG-1620-MW12B-20200729	MW-12B	Water	07/29/2020	09:55	X	X	X	
WG-1620-MW36D-20200729	MW-36D	Water	07/29/2020	11:30	X	X	X	
WG-1620-MW65D-20200729	MW-65D	Water	07/29/2020	13:20	X	X	X	MS/MSD; DUP
WG-1620-FB11-20200729	-	Water	07/29/2020	16:00	X	X	X	Field Blank
WQ-1620-TB07-20200729	-	Water	07/29/2020	-	X			Trip Blank
WG-1620-MW66D-20200803	MW-66D	Water	08/03/2020	09:45	X	X	X	
WG-1620-MW59D-20200803	MW-59D	Water	08/03/2020	13:45	X	X	X	
WG-1620-DUP08-20200803	MW-59D	Water	08/03/2020	13:45	X	X	X	Field duplicate of MW-59D
WG-1620-FB08-20200803	-	Water	08/03/2020	15:00	X	X	X	Field Blank
WQ-1620-TB009-20200803	-	Water	08/03/2020	-	X			Trip Blank
WG-1620-MW36A-20200818	MW-36A	Water	08/18/2020	09:20		X		
WG-1620-MW44C-20200818	MW-44C	Water	08/18/2020	10:10		X		
WG-1620-MW34CR-20200818	MW-34CR	Water	08/18/2020	11:05		X		
WG-1620-MW33A-20200818	MW-33A	Water	08/18/2020	12:05		X		
WG-1620-DUP09-20200818	MW-33A	Water	08/18/2020	12:05		X		Field duplicate of MW-33A
WG-1620-MW70C-20200818	MW-70C	Water	08/18/2020	13:00		X		
WG-1620-MW27C-20200818	MW-27C	Water	08/18/2020	14:00	X	X	X	MS/MSD-P; DUP

Table 1

Sample Collection and Analysis Summary
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020

Sample Identification	Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters			Comments
					VOCs	SVOCs	Arsenic	
WG-1620-FB13-20200818	-	Water	08/18/2020	14:30		X		Field Blank
WQ-1620-TB09-20200818	-	Water	08/18/2020	-	X			Trip Blank
GW-1620-MW85C-20201008	MW-85C	Water	10/08/2020	12:10			X	
GW-1620-MW66D-20201008	MW-66D	Water	10/08/2020	13:30			X	
GW-1620-DUP01-20201008	MW-66D	Water	10/08/2020	13:30			X	Field duplicate of MW-66D

Notes:

- VOCs - Volatile Organic Compounds
SVOCs - Semi-volatile Organic Compounds
TPH - Total Petroleum Hydrocarbons
MS/MSD - Matrix Spike/ Matrix Spike Duplicate
MS/MSD-P - Matrix Spike/ Matrix Spike Duplicate (partial parameters)
DUP - Laboratory Duplicate
"_" - Not Applicable

Table 2

Analytical Results Summary
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020

Location ID:	MW-03	MW-04	MW-05	MW-09	MW-12A
Sample Name:	WG-1620-MW03-20200715	WG-1620-MW04-20200715	WG-1620-MW05-20200715	WG-1620-MW09-20200715	WG-1620-MW12A-20200717
Sample Date:	07/15/2020	07/15/2020	07/15/2020	07/15/2020	07/17/2020
Parameters	Unit				
Volatile Organic Compounds					
1,2-Dichloroethane	mg/L	<0.00020	<0.00020	<0.00020	<0.00020
Benzene	mg/L	<0.00020	<0.00020	<0.00020	<0.00020
Chlorobenzene	mg/L	<0.00030	<0.00030	<0.00030	<0.00030
Ethylbenzene	mg/L	<0.00030	<0.00030	<0.00030	<0.00030
Methylene chloride	mg/L	<0.0010	<0.0010	<0.0010	<0.0010
Toluene	mg/L	<0.00020	<0.00020	<0.00020	<0.00020
Vinyl chloride	mg/L	--	--	--	--
Xylenes (total)	mg/L	<0.00030	<0.00030	<0.00030	<0.00030
Semi-volatile Organic Compounds					
1,2-Diphenylhydrazine	mg/L	<0.000021	<0.000021	<0.000021	<0.000021
2,4-Dimethylphenol	mg/L	<0.000040	<0.000040	<0.000040	<0.000040
2,4-Dinitrotoluene	mg/L	<0.000058	<0.000058	<0.000058	<0.000058
2,6-Dinitrotoluene	mg/L	<0.000042	<0.000042	<0.000042	<0.000042
2-Chloronaphthalene	mg/L	<0.000021	<0.000021	<0.000021	<0.000021
2-Methylnaphthalene	mg/L	<0.000019	<0.000019	<0.000019	0.012
4,6-Dinitro-2-methylphenol	mg/L	<0.000020	<0.000020	<0.000020	<0.000020
4-Nitrophenol	mg/L	<0.000047	<0.000047	<0.000047	<0.000047
Acenaphthene	mg/L	0.00070	0.00011	<0.000027	0.093
Acenaphthylene	mg/L	0.000022 J	<0.000015	<0.000015	0.00096
Anthracene	mg/L	0.00010	0.00014	0.000059 J	0.0076
Benzo(a)anthracene	mg/L	<0.000050	<0.000050	<0.000050	0.00015
Benzo(a)pyrene	mg/L	<0.000020	<0.000020	<0.000020	0.000051 J
bis(2-Chloroethoxy)methane	mg/L	<0.000030	<0.000030	<0.000030	<0.000030
bis(2-Ethylhexyl)phthalate (DEHP)	mg/L	<0.000095	0.00034	<0.000066	<0.00013
Chrysene	mg/L	<0.000021	<0.000021	<0.000021	0.00015

Table 2

**Analytical Results Summary
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020**

Location ID:	MW-03	MW-04	MW-05	MW-09	MW-12A
Sample Name:	WG-1620-MW03-20200715	WG-1620-MW04-20200715	WG-1620-MW05-20200715	WG-1620-MW09-20200715	WG-1620-MW12A-20200717
Sample Date:	07/15/2020	07/15/2020	07/15/2020	07/15/2020	07/17/2020

Parameters	Unit	MW-03	MW-04	MW-05	MW-09	MW-12A
Semi-volatile Organic Compounds (Continued)						
Di-n-butylphthalate (DBP)	mg/L	<0.000054	<0.000059	<0.000030	<0.000034	<0.000042
Dibenzofuran	mg/L	0.00013	0.000040 J	<0.000020	<0.000020	0.064
Fluoranthene	mg/L	0.00020	<0.000067	<0.000044	<0.000010	0.0089
Fluorene	mg/L	0.00012	0.000050 J	0.000047 J	<0.000030	0.078
N-Nitrosodiphenylamine	mg/L	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025
Naphthalene	mg/L	0.000081 J	0.000070 J	<0.000020	<0.000020	0.00048
Nitrobenzene	mg/L	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024
Pentachlorophenol	mg/L	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079
Phenanthrene	mg/L	0.000038 J	0.000029 J	0.000070 J	<0.000021	0.041
Phenol	mg/L	<0.000035	<0.000035	<0.000035	<0.000035	<0.000035
Pyrene	mg/L	0.00010	0.000036 J	0.00011	0.000031 J	0.0044
Metals						
Arsenic	mg/L	0.00187 J	0.00365	0.0111	0.00287	<0.000400

Table 2

Analytical Results Summary
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020

	Location ID:	MW-12B	MW-12C	MW-13	MW-14	MW-15A
	Sample Name:	WG-1620-MW12B-20200729	WG-1620-MW12C-20200717	WG-1620-MW13-20200715	WG-1620-MW14-20200715	WG-1620-MW15A-20200714
	Sample Date:	07/29/2020	07/17/2020	07/15/2020	07/15/2020	07/14/2020
Parameters	Unit					
Volatile Organic Compounds						
1,2-Dichloroethane	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Benzene	mg/L	0.0027	<0.00020	<0.00020	<0.00020	0.00064 J
Chlorobenzene	mg/L	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030
Ethylbenzene	mg/L	0.012	<0.00030	<0.00030	<0.00030	0.00037 J
Methylene chloride	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Toluene	mg/L	0.0025	<0.00020	<0.00020	<0.00020	<0.00020
Vinyl chloride	mg/L	--	--	--	--	--
Xylenes (total)	mg/L	0.019	<0.00030	<0.00030	<0.00030	0.0026
Semi-volatile Organic Compounds						
1,2-Diphenylhydrazine	mg/L	<0.00021	<0.000021	<0.000021	<0.000021	<0.000021
2,4-Dimethylphenol	mg/L	<0.00040	<0.000040	0.00037	0.00013 J	<0.000040
2,4-Dinitrotoluene	mg/L	<0.00058	<0.000058	<0.000058	<0.000058	<0.000058
2,6-Dinitrotoluene	mg/L	0.00051 J	<0.000042	<0.000042	<0.000042	<0.000042
2-Chloronaphthalene	mg/L	<0.00021	0.000029 J	<0.000021	0.000053 J	<0.000021
2-Methylnaphthalene	mg/L	0.84	0.000052 J	0.00042	0.00024	0.014
4,6-Dinitro-2-methylphenol	mg/L	<0.00020	<0.000020	<0.000020	<0.000020	<0.000020
4-Nitrophenol	mg/L	<0.00047	<0.000047	<0.000047	<0.000047	<0.000047
Acenaphthene	mg/L	0.82	0.000070 J	0.00014	0.000083 J	0.091
Acenaphthylene	mg/L	0.015	<0.000015	<0.000015	<0.000015	0.00047
Anthracene	mg/L	0.40	0.000019 J	0.000071 J	0.000034 J	0.0028
Benzo(a)anthracene	mg/L	0.23	<0.000050	<0.000050	<0.000050	<0.000050
Benzo(a)pyrene	mg/L	0.041	<0.000020	<0.000020	<0.000020	<0.000020
bis(2-Chloroethoxy)methane	mg/L	<0.00030	<0.000030	<0.000030	<0.000030	<0.000030
bis(2-Ethylhexyl)phthalate (DEHP)	mg/L	<0.00037	<0.000053	<0.000037	<0.000037	<0.000037
Chrysene	mg/L	0.19	<0.000021	<0.000021	<0.000021	<0.000021

Table 2

Analytical Results Summary
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020

	Location ID:	MW-12B	MW-12C	MW-13	MW-14	MW-15A
	Sample Name:	WG-1620-MW12B-20200729	WG-1620-MW12C-20200717	WG-1620-MW13-20200715	WG-1620-MW14-20200715	WG-1620-MW15A-20200714
	Sample Date:	07/29/2020	07/17/2020	07/15/2020	07/15/2020	07/14/2020
Parameters	Unit					
Semi-volatile Organic Compounds (Continued)						
Di-n-butylphthalate (DBP)	mg/L	<0.00020	<0.00021	<0.00020	<0.00020	<0.00020
Dibenzofuran	mg/L	0.76	0.000041 J	0.00014	0.000062 J	0.024
Fluoranthene	mg/L	1.2	<0.00021	<0.00010	<0.00010	0.0021
Fluorene	mg/L	0.96	<0.00030	0.000088 J	<0.00030	0.041
N-Nitrosodiphenylamine	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
Naphthalene	mg/L	2.4	<0.00023	0.0044	0.0042	<0.00092
Nitrobenzene	mg/L	<0.00024	<0.00024	<0.00024	<0.00024	<0.00024
Pentachlorophenol	mg/L	<0.00079	<0.00079	<0.00079	<0.00079	<0.00079
Phenanthrene	mg/L	2.6	0.000037 J	0.000077 J	0.000053 J	0.0096
Phenol	mg/L	<0.00035	0.000042 J	<0.00035	0.00020 J	<0.00035
Pyrene	mg/L	0.74	<0.00019	0.000053 J	<0.00019	0.00098
Metals						
Arsenic	mg/L	0.0195	0.00171 J	0.0376	0.000949 J	0.0220

Table 2

Analytical Results Summary
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020

Location ID:	MW-15B	MW-15C	MW-17	MW-17C	MW-18A
Sample Name:	WG-1620-MW15B-20200714	WG-1620-MW15C-20200714	WG-1620-MW17-20200714	WG-1620-MW17C-20200714	WG-1620-MW18A-20200714
Sample Date:	07/14/2020	07/14/2020	07/14/2020	07/14/2020	07/14/2020
Parameters	Unit				
Volatile Organic Compounds					
1,2-Dichloroethane	mg/L	<0.00020	<0.00020	<0.00020	<0.00020
Benzene	mg/L	0.0025	0.00045 J	0.41	0.0071
Chlorobenzene	mg/L	<0.00030	<0.00030	<0.00030	<0.00030
Ethylbenzene	mg/L	0.0016	<0.00030	0.20	0.11
Methylene chloride	mg/L	<0.0010	<0.0010	<0.0010	<0.0010
Toluene	mg/L	<0.00020	<0.00020	0.65	0.0036
Vinyl chloride	mg/L	--	--	--	--
Xylenes (total)	mg/L	0.0026	<0.00030	0.60	0.056
Semi-volatile Organic Compounds					
1,2-Diphenylhydrazine	mg/L	<0.000021	<0.000021	<0.00021	<0.00021
2,4-Dimethylphenol	mg/L	<0.000040	<0.000040	11	0.17
2,4-Dinitrotoluene	mg/L	<0.000058	<0.000058	<0.00058	<0.00058
2,6-Dinitrotoluene	mg/L	<0.000042	<0.000042	<0.00042	<0.00042
2-Chloronaphthalene	mg/L	<0.000021	<0.000021	<0.00021	<0.00021
2-Methylnaphthalene	mg/L	0.013	<0.000019	0.62	0.048
4,6-Dinitro-2-methylphenol	mg/L	<0.000020	<0.000020	<0.00020	<0.00020
4-Nitrophenol	mg/L	<0.000047	<0.000047	<0.00047	<0.00047
Acenaphthene	mg/L	0.019	0.0049	0.25	0.079
Acenaphthylene	mg/L	0.00018	0.00055	0.0039	0.0011
Anthracene	mg/L	0.0018	0.000038 J	0.0086	0.0063
Benzo(a)anthracene	mg/L	0.00018	<0.000050	<0.00050	<0.00050
Benzo(a)pyrene	mg/L	<0.000020	<0.000020	<0.00020	<0.00020
bis(2-Chloroethoxy)methane	mg/L	<0.000030	<0.000030	<0.00030	<0.00030
bis(2-Ethylhexyl)phthalate (DEHP)	mg/L	<0.000037	0.000065 J	<0.00037	<0.00037
Chrysene	mg/L	0.00015	<0.000021	<0.00021	<0.00021

Table 2

Analytical Results Summary
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020

	Location ID:	MW-15B	MW-15C	MW-17	MW-17C	MW-18A
	Sample Name:	WG-1620-MW15B-20200714	WG-1620-MW15C-20200714	WG-1620-MW17-20200714	WG-1620-MW17C-20200714	WG-1620-MW18A-20200714
	Sample Date:	07/14/2020	07/14/2020	07/14/2020	07/14/2020	07/14/2020
Parameters	Unit					
Semi-volatile Organic Compounds (Continued)						
Di-n-butylphthalate (DBP)	mg/L	<0.000020	<0.000020	<0.00020	<0.00020	<0.00020
Dibenzofuran	mg/L	0.0097	0.00074	0.100	0.068	0.097
Fluoranthene	mg/L	0.0037	0.00032	0.0030	0.0034	0.0014
Fluorene	mg/L	0.0098	0.00017	0.066	0.042	0.075
N-Nitrosodiphenylamine	mg/L	<0.000025	<0.000025	<0.00025	<0.00025	<0.00025
Naphthalene	mg/L	0.32	<0.00016	18	2.6	7.8
Nitrobenzene	mg/L	<0.000024	<0.000024	<0.00024	<0.00024	<0.00024
Pentachlorophenol	mg/L	<0.000079	<0.000079	<0.00079	<0.00079	<0.00079
Phenanthrene	mg/L	0.0087	0.00031	0.048	0.047	0.056
Phenol	mg/L	<0.000035	<0.000035	33	0.18	0.0018 J
Pyrene	mg/L	0.0021	0.00029	0.0017	0.0017	0.00085 J
Metals						
Arsenic	mg/L	0.0131	0.000914 J	0.0514	0.00531	0.0428

Table 2

Analytical Results Summary
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020

	Location ID:	MW-18C	MW-19C	MW-20A	MW-21C	MW-21C
	Sample Name:	WG-1620-MW18C-20200714	WG-1620-MW19C-20200714	WG-1620-MW20A-20200714	WG-1620-MW21C-20200716	WG-1620-DUP01-20200716
	Sample Date:	07/14/2020	07/14/2020	07/14/2020	07/16/2020	07/16/2020 Duplicate
Parameters	Unit					
Volatile Organic Compounds						
1,2-Dichloroethane	mg/L	<0.0010	<0.00020	<0.00020	<0.00020	<0.00020
Benzene	mg/L	0.96	0.00058 J	0.024	<0.00020	<0.00020
Chlorobenzene	mg/L	<0.0015	<0.00030	<0.00030	<0.00030	<0.00030
Ethylbenzene	mg/L	0.26	0.0011	0.070	<0.00030	<0.00030
Methylene chloride	mg/L	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010
Toluene	mg/L	0.71	0.00058 J	0.011	<0.00020	<0.00020
Vinyl chloride	mg/L	<0.0010	<0.00020	--	--	--
Xylenes (total)	mg/L	0.82	0.0020	0.091	<0.00030	<0.00030
Semi-volatile Organic Compounds						
1,2-Diphenylhydrazine	mg/L	<0.00021	<0.000021	<0.00021	<0.000021	<0.000021
2,4-Dimethylphenol	mg/L	0.067	<0.000040	0.010	<0.000040	<0.000040
2,4-Dinitrotoluene	mg/L	<0.00058	<0.000058	<0.00058	<0.000058	<0.000058
2,6-Dinitrotoluene	mg/L	<0.00042	<0.000042	<0.00042	0.0021 J	<0.000042 J
2-Chloronaphthalene	mg/L	<0.00021	<0.000021	<0.00021	<0.000021	<0.000021
2-Methylnaphthalene	mg/L	0.32	<0.000019	0.23	<0.000021	<0.000046
4,6-Dinitro-2-methylphenol	mg/L	<0.00020	<0.000020	<0.00020	<0.000020	<0.000020
4-Nitrophenol	mg/L	<0.00047	<0.000047	<0.00047	0.00014 J	<0.000047
Acenaphthene	mg/L	0.053	0.00084	0.14	<0.000027 J	0.00061 J
Acenaphthylene	mg/L	0.0018	<0.000015	0.0013	<0.000015	<0.000015
Anthracene	mg/L	0.0071	0.000070 J	0.0054	<0.000014	0.000034 J
Benzo(a)anthracene	mg/L	<0.00050	<0.000050	<0.00050	<0.000050	<0.000050
Benzo(a)pyrene	mg/L	<0.00020	<0.000020	<0.00020	<0.000020	<0.000020
bis(2-Chloroethoxy)methane	mg/L	<0.00030	<0.000030	<0.00030	<0.000030	<0.000030
bis(2-Ethylhexyl)phthalate (DEHP)	mg/L	<0.00037	0.000060 J	<0.00037	<0.000061	<0.000087
Chrysene	mg/L	<0.00021	0.000038 J	<0.00021	<0.000021	<0.000021

Table 2

Analytical Results Summary
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020

	Location ID:	MW-18C	MW-19C	MW-20A	MW-21C	MW-21C
	Sample Name:	WG-1620-MW18C-20200714	WG-1620-MW19C-20200714	WG-1620-MW20A-20200714	WG-1620-MW21C-20200716	WG-1620-DUP01-20200716
	Sample Date:	07/14/2020	07/14/2020	07/14/2020	07/16/2020	07/16/2020 Duplicate
Parameters	Unit					
Semi-volatile Organic Compounds (Continued)						
Di-n-butylphthalate (DBP)	mg/L	<0.00020	<0.00020	<0.00020	<0.00028	<0.00033
Dibenzofuran	mg/L	0.049	0.00057	0.086	<0.00020	<0.00020
Fluoranthene	mg/L	0.0033	0.00052	0.0016	<0.00019	<0.00067
Fluorene	mg/L	0.027	0.00029	0.078	<0.00030	<0.00060
N-Nitrosodiphenylamine	mg/L	<0.00025	<0.00025	<0.00025	<0.00025	<0.00025
Naphthalene	mg/L	10	<0.00020	5.8	<0.00042	<0.00016
Nitrobenzene	mg/L	<0.00024	<0.00024	<0.00024	<0.00024	<0.00024
Pentachlorophenol	mg/L	0.015	<0.00079	<0.00079	<0.00079	<0.00079
Phenanthrene	mg/L	0.027	0.00015	0.046	<0.00021	<0.00026
Phenol	mg/L	0.0031	<0.00035	<0.00035	<0.00035	<0.00035
Pyrene	mg/L	0.0025	0.00072	0.00095 J	<0.00019	0.00044 J
Metals						
Arsenic	mg/L	0.00240	0.00108 J	0.00530	0.000873 J	0.000910 J

Table 2

Analytical Results Summary
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020

	Location ID:	MW-22AR	MW-22BR	MW-23C	MW-25A	MW-25C
	Sample Name:	WG-1620-MW22AR-20200720	WG-1620-MW22BR-20200720	WG-1620-MW23C-20200714	WG-1620-MW25A-20200722	WG-1620-MW25C-20200722
	Sample Date:	07/20/2020	07/20/2020	07/14/2020	07/22/2020	07/22/2020
Parameters	Unit					
Volatile Organic Compounds						
1,2-Dichloroethane	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Benzene	mg/L	<0.00020	<0.00020	0.0014	<0.00020	0.0016
Chlorobenzene	mg/L	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030
Ethylbenzene	mg/L	<0.00030	<0.00030	0.021	<0.00030	0.029
Methylene chloride	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Toluene	mg/L	<0.00020	<0.00020	0.0022	<0.00020	0.0081
Vinyl chloride	mg/L	--	--	<0.00020	<0.00020	<0.00020
Xylenes (total)	mg/L	<0.00030	<0.00030	0.017	<0.00030	0.19
Semi-volatile Organic Compounds						
1,2-Diphenylhydrazine	mg/L	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021
2,4-Dimethylphenol	mg/L	<0.000040	<0.000040	0.022	<0.000040	0.018
2,4-Dinitrotoluene	mg/L	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058
2,6-Dinitrotoluene	mg/L	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042
2-Chloronaphthalene	mg/L	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021
2-Methylnaphthalene	mg/L	<0.000019	<0.000019	0.041	0.00015	0.51
4,6-Dinitro-2-methylphenol	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	0.00065 J
4-Nitrophenol	mg/L	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047
Acenaphthene	mg/L	<0.000027	0.0024	0.060	0.000078 J	0.099
Acenaphthylene	mg/L	<0.000015	<0.000015	0.0014	<0.000015	0.0016
Anthracene	mg/L	<0.000014	<0.000014	0.016	<0.000014	0.012
Benzo(a)anthracene	mg/L	<0.000050	<0.000050	0.0053	<0.000050	0.0013
Benzo(a)pyrene	mg/L	<0.000020	<0.000020	0.0017	<0.000020	0.00043 J
bis(2-Chloroethoxy)methane	mg/L	<0.000030	<0.000030	<0.000030	<0.000030	<0.000030
bis(2-Ethylhexyl)phthalate (DEHP)	mg/L	<0.000037	0.000064 J	0.00015 J	0.000054 J	<0.000037
Chrysene	mg/L	<0.000021	<0.000021	0.0040	<0.000021	0.00099 J

Table 2

Analytical Results Summary
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020

	Location ID:	MW-22AR	MW-22BR	MW-23C	MW-25A	MW-25C
	Sample Name:	WG-1620-MW22AR-20200720	WG-1620-MW22BR-20200720	WG-1620-MW23C-20200714	WG-1620-MW25A-20200722	WG-1620-MW25C-20200722
	Sample Date:	07/20/2020	07/20/2020	07/14/2020	07/22/2020	07/22/2020
Parameters	Unit					
Semi-volatile Organic Compounds (Continued)						
Di-n-butylphthalate (DBP)	mg/L	<0.000020	0.000052 J	<0.000020	<0.000020	<0.00020
Dibenzofuran	mg/L	<0.000020	0.000057 J	0.051	0.00011	0.094
Fluoranthene	mg/L	<0.000010	0.00050	0.029	0.000075 J	0.010
Fluorene	mg/L	<0.000030	0.00036	0.041	0.000090 J	0.051
N-Nitrosodiphenylamine	mg/L	<0.000025	<0.000025	<0.000025	<0.000025	<0.00025
Naphthalene	mg/L	<0.000020	<0.000020	0.92	0.0010	2.4
Nitrobenzene	mg/L	<0.000024	<0.000024	<0.000024	<0.000024	<0.00024
Pentachlorophenol	mg/L	<0.000079	<0.000079	0.00065	<0.000079	<0.00079
Phenanthrene	mg/L	<0.000021	<0.000021	0.098	0.00016	0.073
Phenol	mg/L	<0.000035	<0.000035	0.0098	0.000069 J	0.0080
Pyrene	mg/L	<0.000019	0.00023	0.018	0.000057 J	0.0060
Metals						
Arsenic	mg/L	0.00822	0.00882	0.00196 J	0.00190 J	0.00433

Table 2

Analytical Results Summary
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020

Location ID:	MW-26A	MW-27C	MW-28A	MW-28C	MW-32AR
Sample Name:	WG-1620-MW26A-20200727	WG-1620-MW27C-20200818	WG-1620-MW28A-20200723	WG-1620-MW28C-20200728	WG-1620-MW32AR-20200723
Sample Date:	07/27/2020	08/18/2020	07/23/2020	07/28/2020	07/23/2020
Parameters	Unit				
Volatile Organic Compounds					
1,2-Dichloroethane	mg/L	<0.00020	<0.00020	<0.00020	<0.00020
Benzene	mg/L	<0.00020	<0.00020	<0.00020	<0.00020
Chlorobenzene	mg/L	<0.00030	<0.00030	<0.00030	<0.00030
Ethylbenzene	mg/L	<0.00030	<0.00030	<0.00030	<0.00030
Methylene chloride	mg/L	<0.0010	<0.0010	<0.0010	<0.0010
Toluene	mg/L	<0.00020	<0.00020	<0.00020	<0.00020
Vinyl chloride	mg/L	--	--	<0.00020	--
Xylenes (total)	mg/L	<0.00030	<0.00030	<0.00030	<0.00030
Semi-volatile Organic Compounds					
1,2-Diphenylhydrazine	mg/L	<0.00013	<0.000021	<0.000021	<0.000021
2,4-Dimethylphenol	mg/L	<0.000040	<0.000040	<0.000040	<0.000040
2,4-Dinitrotoluene	mg/L	<0.000058	<0.000059	<0.000058	<0.000058
2,6-Dinitrotoluene	mg/L	<0.000042	<0.000042	<0.000042	<0.000042
2-Chloronaphthalene	mg/L	0.000070 J	<0.000021	<0.000021	<0.000021
2-Methylnaphthalene	mg/L	<0.000019	<0.000019	<0.000019	0.000088 J
4,6-Dinitro-2-methylphenol	mg/L	<0.000020	<0.000020	<0.000020	<0.000020
4-Nitrophenol	mg/L	<0.000047	<0.000047	<0.000047	<0.000047
Acenaphthene	mg/L	0.0092	<0.000027	0.000038 J	0.000074 J
Acenaphthylene	mg/L	0.000077 J	<0.000015	<0.000015	<0.000015
Anthracene	mg/L	<0.00014	<0.000014	<0.000014	0.00010
Benzo(a)anthracene	mg/L	<0.000050	<0.000051	<0.000050	0.00013
Benzo(a)pyrene	mg/L	<0.000026	<0.000020	<0.000020	<0.000020
bis(2-Chloroethoxy)methane	mg/L	<0.000030	<0.000030	<0.000030	<0.000030
bis(2-Ethylhexyl)phthalate (DEHP)	mg/L	0.000068 J	<0.000037	<0.000037	0.00064
Chrysene	mg/L	<0.000041	<0.000021	<0.000021	0.00014

Table 2

Analytical Results Summary
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020

	Location ID:	MW-26A	MW-27C	MW-28A	MW-28C	MW-32AR
	Sample Name:	WG-1620-MW26A-20200727	WG-1620-MW27C-20200818	WG-1620-MW28A-20200723	WG-1620-MW28C-20200728	WG-1620-MW32AR-20200723
	Sample Date:	07/27/2020	08/18/2020	07/23/2020	07/28/2020	07/23/2020
Parameters	Unit					
Semi-volatile Organic Compounds (Continued)						
Di-n-butylphthalate (DBP)	mg/L	<0.000020	<0.000020	<0.000020	0.00025	<0.000020
Dibenzofuran	mg/L	<0.000030	<0.000020	<0.000020	0.000086 J	0.00011 J
Fluoranthene	mg/L	<0.0017	<0.000010	<0.000010	0.00063	0.00019 J
Fluorene	mg/L	0.00061	<0.000030	<0.000030	0.000091 J	0.00011 J
N-Nitrosodiphenylamine	mg/L	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025
Naphthalene	mg/L	<0.000049	<0.000020	0.00015 J	0.00053	0.00026 J
Nitrobenzene	mg/L	0.0010	<0.000024	<0.000024	<0.000024	<0.000024
Pentachlorophenol	mg/L	<0.000079	<0.000080	<0.000079	<0.000079	<0.000079
Phenanthrene	mg/L	<0.000021	<0.000021	<0.000021	0.00056	0.00023 J
Phenol	mg/L	<0.000035	<0.000035	<0.000035	<0.000035	<0.000035
Pyrene	mg/L	<0.00094	<0.000019	<0.000019	0.00044	0.00021 J
Metals						
Arsenic	mg/L	0.0695	0.00264	<0.000400	0.00121 J	0.104

Table 2

Analytical Results Summary
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020

	Location ID:	MW-32B	MW-33A	MW-33A	MW-33A	MW-33A
	Sample Name:	WG-1620-MW32B-20200727	WG-1620-MW33A-20200728	WG-1620-DUP06-20200728	WG-1620-MW33A-20200818	WG-1620-DUP09-20200818
	Sample Date:	07/27/2020	07/28/2020	07/28/2020 Duplicate	08/18/2020	08/18/2020 Duplicate
Parameters	Unit					
Volatile Organic Compounds						
1,2-Dichloroethane	mg/L	0.10	<0.00020	<0.00020	--	--
Benzene	mg/L	3.7	<0.00020	<0.00020	--	--
Chlorobenzene	mg/L	<0.030	<0.00030	<0.00030	--	--
Ethylbenzene	mg/L	0.83	<0.00030	<0.00030	--	--
Methylene chloride	mg/L	<0.10	<0.0010	<0.0010	--	--
Toluene	mg/L	3.2	<0.00020	<0.00020	--	--
Vinyl chloride	mg/L	--	--	--	--	--
Xylenes (total)	mg/L	2.2	<0.00030	<0.00030	--	--
Semi-volatile Organic Compounds						
1,2-Diphenylhydrazine	mg/L	<0.021	--	--	<0.000021	<0.000022
2,4-Dimethylphenol	mg/L	41	--	--	<0.000040	<0.000041
2,4-Dinitrotoluene	mg/L	<0.058	--	--	<0.000058	<0.000060
2,6-Dinitrotoluene	mg/L	<0.042	--	--	<0.000042	<0.000043
2-Chloronaphthalene	mg/L	<0.021	--	--	<0.000021	<0.000022
2-Methylnaphthalene	mg/L	540	--	--	<0.000019	<0.000020
4,6-Dinitro-2-methylphenol	mg/L	<0.020	--	--	<0.000020	<0.000021
4-Nitrophenol	mg/L	<0.047	--	--	<0.000047	<0.000048
Acenaphthene	mg/L	230	--	--	<0.000027	<0.000028
Acenaphthylene	mg/L	1.7	--	--	<0.000015	<0.000015
Anthracene	mg/L	170	--	--	<0.000014	<0.000014
Benzo(a)anthracene	mg/L	16	--	--	0.00011	0.00014
Benzo(a)pyrene	mg/L	4.8	--	--	<0.000020	<0.000021
bis(2-Chloroethoxy)methane	mg/L	<0.030	--	--	<0.000030	<0.000031
bis(2-Ethylhexyl)phthalate (DEHP)	mg/L	<0.037	--	--	<0.000037	<0.000038
Chrysene	mg/L	27	--	--	<0.000021	<0.000022

Table 2

Analytical Results Summary
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020

	Location ID:	MW-32B	MW-33A	MW-33A	MW-33A	MW-33A
	Sample Name:	WG-1620-MW32B-20200727	WG-1620-MW33A-20200728	WG-1620-DUP06-20200728	WG-1620-MW33A-20200818	WG-1620-DUP09-20200818
	Sample Date:	07/27/2020	07/28/2020	07/28/2020 Duplicate	08/18/2020	08/18/2020 Duplicate
Parameters	Unit					
Semi-volatile Organic Compounds (Continued)						
Di-n-butylphthalate (DBP)	mg/L	<0.020	--	--	<0.000020	<0.000021
Dibenzofuran	mg/L	250	--	--	<0.000020	<0.000021
Fluoranthene	mg/L	210	--	--	0.00067	0.00097
Fluorene	mg/L	180	--	--	<0.000030	<0.000031
N-Nitrosodiphenylamine	mg/L	<0.025	--	--	<0.000025	<0.000026
Naphthalene	mg/L	2300	--	--	<0.000020	<0.000021
Nitrobenzene	mg/L	<0.024	--	--	<0.000024	<0.000025
Pentachlorophenol	mg/L	<0.079	--	--	<0.000079	<0.000081
Phenanthrene	mg/L	660	--	--	<0.000021	<0.000022
Phenol	mg/L	23	--	--	<0.000035	<0.000036
Pyrene	mg/L	120	--	--	0.0011	0.0015
Metals						
Arsenic	mg/L	0.00166 J	0.00119 J	0.00125 J	--	--

Table 2

Analytical Results Summary
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020

Location ID:	MW-33BR	MW-34CR	MW-34CR	MW-35A	MW-35B	
Sample Name:	WG-1620-MW33BR-20200727	WG-1620-MW34CR-20200728	WG-1620-MW34CR-20200818	WG-1620-MW35A-20200722	WG-1620-MW35B-20200722	
Sample Date:	07/27/2020	07/28/2020	08/18/2020	07/22/2020	07/22/2020	
Parameters	Unit					
Volatile Organic Compounds						
1,2-Dichloroethane	mg/L	0.0032	<0.00020	--	<0.00020	<0.00020
Benzene	mg/L	0.14	0.0013	--	<0.00020	0.045
Chlorobenzene	mg/L	<0.00030	<0.00030	--	0.00058 J	<0.00030
Ethylbenzene	mg/L	0.099	0.00098 J	--	<0.00030	0.056
Methylene chloride	mg/L	<0.0010	<0.0010	--	<0.0010	<0.0010
Toluene	mg/L	0.0067	0.00086 J	--	<0.00020	0.0025
Vinyl chloride	mg/L	<0.00020	--	--	--	--
Xylenes (total)	mg/L	0.033	0.00070 J	--	<0.00030	0.042
Semi-volatile Organic Compounds						
1,2-Diphenylhydrazine	mg/L	<0.000021	--	<0.000021	<0.000021	<0.000021
2,4-Dimethylphenol	mg/L	<0.000040	--	<0.000041	<0.000040	<0.000040
2,4-Dinitrotoluene	mg/L	<0.000058	--	<0.000059	<0.000058	<0.000058
2,6-Dinitrotoluene	mg/L	<0.000042	--	<0.000043	<0.000042	<0.000042
2-Chloronaphthalene	mg/L	<0.000021	--	<0.000021	<0.000021	<0.000021
2-Methylnaphthalene	mg/L	0.022	--	<0.000019	0.000092 J	0.068
4,6-Dinitro-2-methylphenol	mg/L	<0.000020	--	<0.000020	<0.000020	<0.000020
4-Nitrophenol	mg/L	<0.000047	--	<0.000048	<0.000047	<0.000047
Acenaphthene	mg/L	0.0066	--	<0.000028	0.0031	0.044
Acenaphthylene	mg/L	0.00015	--	<0.000015	<0.000015	0.00034
Anthracene	mg/L	0.0018	--	<0.000014	0.000099 J	0.0044
Benzo(a)anthracene	mg/L	<0.00059	--	<0.000051	<0.000050	0.00013
Benzo(a)pyrene	mg/L	<0.00016	--	<0.000020	<0.000020	0.000058 J
bis(2-Chloroethoxy)methane	mg/L	<0.000030	--	<0.000031	<0.000030	<0.000030
bis(2-Ethylhexyl)phthalate (DEHP)	mg/L	0.000072 J	--	<0.000038	0.00014 J	<0.000037
Chrysene	mg/L	0.00052	--	<0.000021	<0.000021	0.00013

Table 2

Analytical Results Summary
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020

	Location ID:	MW-33BR	MW-34CR	MW-34CR	MW-35A	MW-35B
	Sample Name:	WG-1620-MW33BR-20200727	WG-1620-MW34CR-20200728	WG-1620-MW34CR-20200818	WG-1620-MW35A-20200722	WG-1620-MW35B-20200722
	Sample Date:	07/27/2020	07/28/2020	08/18/2020	07/22/2020	07/22/2020
Parameters	Unit					
Semi-volatile Organic Compounds (Continued)						
Di-n-butylphthalate (DBP)	mg/L	<0.000038	--	0.00027	<0.000020	<0.000020
Dibenzofuran	mg/L	0.0085	--	<0.000020	0.00072	0.054
Fluoranthene	mg/L	0.0035	--	<0.000010	0.00028	0.0029
Fluorene	mg/L	0.0041	--	<0.000031	0.00060	0.028
N-Nitrosodiphenylamine	mg/L	<0.000025	--	<0.000026	<0.000025	<0.000025
Naphthalene	mg/L	0.95	--	<0.000020	0.0012	2.1
Nitrobenzene	mg/L	<0.000024	--	<0.000024	<0.000024	<0.000024
Pentachlorophenol	mg/L	<0.000079	--	<0.000081	<0.000079	<0.000079
Phenanthrene	mg/L	0.010	--	<0.000021	<0.000021	0.042
Phenol	mg/L	0.00023	--	<0.000036	<0.000035	<0.000035
Pyrene	mg/L	0.0023	--	<0.000019	0.00024	0.0014
Metals						
Arsenic	mg/L	0.000565 J	<0.000400	--	0.0302	0.00758

Table 2

Analytical Results Summary
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020

	Location ID:	MW-36A	MW-36A	MW-36B	MW-36D	MW-38A
	Sample Name:	WG-1620-MW36A-20200728	WG-1620-MW36A-20200818	WG-1620-MW36B-20200728	WG-1620-MW36D-20200729	WG-1620-MW38A-20200720
	Sample Date:	07/28/2020	08/18/2020	07/28/2020	07/29/2020	07/20/2020
Parameters	Unit					
Volatile Organic Compounds						
1,2-Dichloroethane	mg/L	<0.00020	--	<0.00020	<0.00020	<0.00020
Benzene	mg/L	<0.00020	--	<0.00020	<0.00020	<0.00020
Chlorobenzene	mg/L	<0.00030	--	<0.00030	<0.00030	<0.00030
Ethylbenzene	mg/L	<0.00030	--	<0.00030	<0.00030	<0.00030
Methylene chloride	mg/L	<0.0010	--	<0.0010	<0.0010	<0.0010
Toluene	mg/L	<0.00020	--	<0.00020	<0.00020	<0.00020
Vinyl chloride	mg/L	<0.00020	--	<0.00020	--	--
Xylenes (total)	mg/L	<0.00030	--	<0.00030	<0.00030	<0.00030
Semi-volatile Organic Compounds						
1,2-Diphenylhydrazine	mg/L	--	<0.000022	<0.000021	<0.000021	<0.000021
2,4-Dimethylphenol	mg/L	--	<0.000042	<0.000040	<0.000040	<0.000040
2,4-Dinitrotoluene	mg/L	--	<0.000060	<0.000058	<0.000058	<0.000058
2,6-Dinitrotoluene	mg/L	--	<0.000044	<0.000042	<0.000042	<0.000042
2-Chloronaphthalene	mg/L	--	<0.000022	<0.000021	<0.000021	<0.000021
2-Methylnaphthalene	mg/L	--	<0.000020	0.0011	0.000069 J	<0.000019
4,6-Dinitro-2-methylphenol	mg/L	--	<0.000021	<0.000020	<0.000020	<0.000020
4-Nitrophenol	mg/L	--	<0.000049	<0.000047	<0.000047	<0.000047
Acenaphthene	mg/L	--	<0.000028	0.00034	0.000067 J	0.000089 J
Acenaphthylene	mg/L	--	<0.000016	<0.000015	<0.000015	<0.000015
Anthracene	mg/L	--	<0.000015	0.00034	0.000066 J	<0.000014
Benzo(a)anthracene	mg/L	--	<0.000052	0.00015	0.000052 J	<0.000050
Benzo(a)pyrene	mg/L	--	<0.000021	0.000071 J	0.000056 J	<0.000020
bis(2-Chloroethoxy)methane	mg/L	--	<0.000031	<0.000030	<0.000030	<0.000030
bis(2-Ethylhexyl)phthalate (DEHP)	mg/L	--	<0.000039	0.00013 J	0.00010 J	<0.000037
Chrysene	mg/L	--	<0.000022	0.00014	<0.000062	<0.000021

Table 2

Analytical Results Summary
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020

	Location ID:	MW-36A	MW-36A	MW-36B	MW-36D	MW-38A
	Sample Name:	WG-1620-MW36A-20200728	WG-1620-MW36A-20200818	WG-1620-MW36B-20200728	WG-1620-MW36D-20200729	WG-1620-MW38A-20200720
	Sample Date:	07/28/2020	08/18/2020	07/28/2020	07/29/2020	07/20/2020
Parameters	Unit					
Semi-volatile Organic Compounds (Continued)						
Di-n-butylphthalate (DBP)	mg/L	--	<0.000021	0.000042 J	0.000062 J	<0.000020
Dibenzofuran	mg/L	--	<0.000021	0.00040	0.000080 J	<0.000020
Fluoranthene	mg/L	--	<0.000010	0.00081	0.00014	<0.000010
Fluorene	mg/L	--	<0.000031	0.00026	0.000081 J	<0.000030
N-Nitrosodiphenylamine	mg/L	--	<0.000026	<0.000025	<0.000025	<0.000025
Naphthalene	mg/L	--	<0.000021	0.0100	0.00047	<0.000020
Nitrobenzene	mg/L	--	<0.000025	<0.000024	<0.000024	<0.000024
Pentachlorophenol	mg/L	--	<0.000082	<0.000079	<0.000079	<0.000079
Phenanthrene	mg/L	--	<0.000022	0.0012	0.00026	<0.000021
Phenol	mg/L	--	<0.000036	0.00012 J	<0.000035	<0.000035
Pyrene	mg/L	--	<0.000020	0.00049	<0.00010	<0.000019
Metals						
Arsenic	mg/L	0.0112	--	0.000923 J	<0.000400	0.00512

Table 2

Analytical Results Summary
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020

Location ID:	MW-38B	MW-39B	MW-40B	MW-41B	MW-42B
Sample Name:	WG-1620-MW38B-20200720	WG-1620-MW39B-20200716	WG-1620-MW40B-20200716	WG-1620-MW41B-20200729	WG-1620-MW42B-20200716
Sample Date:	07/20/2020	07/16/2020	07/16/2020	07/29/2020	07/16/2020
Parameters	Unit				
Volatile Organic Compounds					
1,2-Dichloroethane	mg/L	<0.00020	<0.00020	<0.00020	<0.00020
Benzene	mg/L	<0.00020	<0.00020	0.010	<0.00020
Chlorobenzene	mg/L	<0.00030	<0.00030	<0.00030	<0.00030
Ethylbenzene	mg/L	<0.00030	0.00078 J	0.086	<0.00030
Methylene chloride	mg/L	<0.0010	<0.0010	<0.0010	<0.0010
Toluene	mg/L	<0.00020	0.00038 J	0.016	<0.00020
Vinyl chloride	mg/L	--	--	--	--
Xylenes (total)	mg/L	<0.00030	0.0031	0.12	<0.00030
Semi-volatile Organic Compounds					
1,2-Diphenylhydrazine	mg/L	<0.000021	<0.000021	<0.000021	<0.000021
2,4-Dimethylphenol	mg/L	<0.000040	<0.000040	<0.000040	<0.000040
2,4-Dinitrotoluene	mg/L	<0.000058	<0.000058	<0.000058	<0.000058
2,6-Dinitrotoluene	mg/L	<0.000042	<0.000042	<0.000042	0.00070
2-Chloronaphthalene	mg/L	<0.000021	0.000090 J	<0.000021	0.000025 J
2-Methylnaphthalene	mg/L	<0.000019	<0.000067	0.27	<0.000019
4,6-Dinitro-2-methylphenol	mg/L	<0.000020	<0.000020	<0.000020	<0.000020
4-Nitrophenol	mg/L	<0.000047	<0.000047	<0.000047	<0.000047
Acenaphthene	mg/L	<0.000027	0.024	0.27	<0.000027
Acenaphthylene	mg/L	<0.000015	0.00015	0.0018	<0.000015
Anthracene	mg/L	<0.000014	0.00063	0.0080	0.000026 J
Benzo(a)anthracene	mg/L	<0.000050	<0.000050	0.000069 J	<0.000050
Benzo(a)pyrene	mg/L	<0.000020	<0.000020	<0.000020	0.000027 J
bis(2-Chloroethoxy)methane	mg/L	<0.000030	<0.000030	<0.000030	<0.000030
bis(2-Ethylhexyl)phthalate (DEHP)	mg/L	<0.000037	<0.000071	<0.000061	0.00089 J
Chrysene	mg/L	<0.000021	0.000028 J	0.000051 J	0.000022 J

Table 2

Analytical Results Summary
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020

	Location ID:	MW-38B	MW-39B	MW-40B	MW-41B	MW-42B
	Sample Name:	WG-1620-MW38B-20200720	WG-1620-MW39B-20200716	WG-1620-MW40B-20200716	WG-1620-MW41B-20200729	WG-1620-MW42B-20200716
	Sample Date:	07/20/2020	07/16/2020	07/16/2020	07/29/2020	07/16/2020
Parameters	Unit					
Semi-volatile Organic Compounds (Continued)						
Di-n-butylphthalate (DBP)	mg/L	<0.000020	<0.000020	<0.000069	<0.00020	<0.000026
Dibenzofuran	mg/L	<0.000020	<0.00011	0.081	0.033	<0.000020
Fluoranthene	mg/L	<0.000010	0.0013	0.0055	0.031	<0.000053
Fluorene	mg/L	<0.000030	0.0014	0.078	0.042	<0.000030
N-Nitrosodiphenylamine	mg/L	<0.000025	<0.000025	<0.000025	<0.00025	<0.000025
Naphthalene	mg/L	<0.000020	<0.0011	2.3	2.3	<0.000031
Nitrobenzene	mg/L	<0.000024	<0.000024	<0.000024	<0.00024	<0.000024
Pentachlorophenol	mg/L	<0.000079	<0.000079	<0.000079	<0.00079	<0.000079
Phenanthrene	mg/L	<0.000021	<0.000047	0.066	0.087	<0.000021
Phenol	mg/L	<0.000035	<0.000035	<0.000035	<0.00035	<0.000035
Pyrene	mg/L	<0.000019	0.00095	0.0026	0.019	0.000059 J
Metals						
Arsenic	mg/L	0.000612 J	0.0489	0.0442	0.0801	0.00127 J

Table 2

Analytical Results Summary
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020

	Location ID:	MW-44A	MW-44C	MW-44C	MW-45C	MW-46C
	Sample Name:	WG-1620-MW44A-20200722	WG-1620-MW44C-20200728	WG-1620-MW44C-20200818	WG-1620-MW45C-20200722	WG-1620-MW46C-20200722
	Sample Date:	07/22/2020	07/28/2020	08/18/2020	07/22/2020	07/22/2020
Parameters	Unit					
Volatile Organic Compounds						
1,2-Dichloroethane	mg/L	<0.00020	<0.00020	--	<0.00020	<0.00020
Benzene	mg/L	<0.00020	<0.00020	--	0.0026	0.0037
Chlorobenzene	mg/L	<0.00030	<0.00030	--	<0.00030	<0.00030
Ethylbenzene	mg/L	<0.00030	0.024	--	0.011	0.018
Methylene chloride	mg/L	<0.0010	<0.0010	--	<0.0010	<0.0010
Toluene	mg/L	<0.00020	0.0099	--	0.0094	<0.0014
Vinyl chloride	mg/L	<0.00020	--	--	--	--
Xylenes (total)	mg/L	<0.00030	0.055	--	0.029	0.047
Semi-volatile Organic Compounds						
1,2-Diphenylhydrazine	mg/L	0.00034 JL	--	<0.000021	<0.000021 JL	<0.000021 JL
2,4-Dimethylphenol	mg/L	<0.000040 JL	--	<0.000040	<0.000040 JL	<0.000040 JL
2,4-Dinitrotoluene	mg/L	<0.000058 JL	--	<0.000059	<0.000058 JL	<0.000058 JL
2,6-Dinitrotoluene	mg/L	<0.000042 JL	--	<0.000042	<0.000042 JL	<0.000042 JL
2-Chloronaphthalene	mg/L	<0.000021 JL	--	<0.000021	<0.000021 JL	<0.000021 JL
2-Methylnaphthalene	mg/L	<0.000019 JL	--	<0.000019	0.044 J	0.059 J
4,6-Dinitro-2-methylphenol	mg/L	0.00011 JL	--	<0.000020	<0.000020 JL	<0.000020 JL
4-Nitrophenol	mg/L	<0.000047 JL	--	<0.000047	<0.000047 JL	<0.000047 JL
Acenaphthene	mg/L	0.075 J	--	<0.000027	0.035 J	0.054 J
Acenaphthylene	mg/L	<0.000015 JL	--	<0.000015	<0.000015 JL	<0.000015 JL
Anthracene	mg/L	0.00022 JL	--	0.00015	0.025 J	0.026 J
Benzo(a)anthracene	mg/L	<0.000050 JL	--	0.00034	0.0048 JL	0.0051 JL
Benzo(a)pyrene	mg/L	<0.000020 JL	--	0.00029	0.0016 JL	0.0019 JL
bis(2-Chloroethoxy)methane	mg/L	<0.000030 JL	--	<0.000030	<0.000030 JL	<0.000030 JL
bis(2-Ethylhexyl)phthalate (DEHP)	mg/L	<0.000037 JL	--	0.00020	<0.000037 JL	0.00032 JL
Chrysene	mg/L	<0.000021 JL	--	0.00030	0.0041 JL	0.0040 JL

Table 2

Analytical Results Summary
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020

	Location ID:	MW-44A	MW-44C	MW-44C	MW-45C	MW-46C
	Sample Name:	WG-1620-MW44A-20200722	WG-1620-MW44C-20200728	WG-1620-MW44C-20200818	WG-1620-MW45C-20200722	WG-1620-MW46C-20200722
	Sample Date:	07/22/2020	07/28/2020	08/18/2020	07/22/2020	07/22/2020
Parameters	Unit					
Semi-volatile Organic Compounds (Continued)						
Di-n-butylphthalate (DBP)	mg/L	<0.000020 JL	--	<0.000020	<0.000020 JL	<0.000020 JL
Dibenzofuran	mg/L	<0.000020 JL	--	<0.000020	0.033 J	0.050 J
Fluoranthene	mg/L	0.0025 JL	--	0.00077	0.042 J	0.049 J
Fluorene	mg/L	0.020 J	--	<0.000030	0.031 J	0.042 J
N-Nitrosodiphenylamine	mg/L	<0.000025 JL	--	<0.000025	<0.000025 JL	<0.000025 JL
Naphthalene	mg/L	<0.00016 JL	--	<0.000020	0.27 J	0.29 J
Nitrobenzene	mg/L	<0.000024 JL	--	<0.000024	<0.000024 JL	<0.000024 JL
Pentachlorophenol	mg/L	<0.000079 JL	--	<0.000080	<0.000079 JL	<0.000079 JL
Phenanthrene	mg/L	<0.000021 JL	--	0.00030	0.14 J	0.14 J
Phenol	mg/L	<0.000035 JL	--	<0.000035	<0.000035 JL	<0.000035 JL
Pyrene	mg/L	0.0022 JL	--	0.00057	0.026 J	0.028 J
Metals						
Arsenic	mg/L	0.0321	0.00752	--	<0.000400	0.000899 J

Table 2

Analytical Results Summary
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020

	Location ID:	MW-47A	MW-47C	MW-48C	MW-49A	MW-49B
	Sample Name:	WG-1620-MW47A-20200721	WG-1620-MW47C-20200716	WG-1620-MW48C-20200716	WG-1620-MW49A-20200716	WG-1620-MW49B-20200721
	Sample Date:	07/21/2020	07/16/2020	07/16/2020	07/16/2020	07/21/2020
Parameters	Unit					
Volatile Organic Compounds						
1,2-Dichloroethane	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Benzene	mg/L	<0.00020	<0.00020	<0.00020	0.13	0.50
Chlorobenzene	mg/L	<0.00030	<0.00030	<0.00030	0.0027	<0.00030
Ethylbenzene	mg/L	<0.00030	<0.00030	<0.00030	0.077	0.15
Methylene chloride	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Toluene	mg/L	<0.00020	<0.00020	<0.00020	0.13	0.56
Vinyl chloride	mg/L	--	--	--	<0.00020	0.0058
Xylenes (total)	mg/L	<0.00030	<0.00030	<0.00030	0.18	0.39
Semi-volatile Organic Compounds						
1,2-Diphenylhydrazine	mg/L	<0.000021	<0.000021	<0.000021	<0.000021	<0.00021
2,4-Dimethylphenol	mg/L	0.00020 J	<0.000040	<0.000040	0.58	2.1
2,4-Dinitrotoluene	mg/L	<0.000058	<0.000058	<0.000058	<0.000058	<0.00058
2,6-Dinitrotoluene	mg/L	<0.000042	<0.000042	0.00031	<0.000042	<0.00042
2-Chloronaphthalene	mg/L	<0.000021	<0.000021	<0.000021	<0.000021	<0.00021
2-Methylnaphthalene	mg/L	<0.000019	<0.000019	<0.000019	0.095	0.28
4,6-Dinitro-2-methylphenol	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.00020
4-Nitrophenol	mg/L	<0.000047	<0.000047	<0.000047	<0.000047	<0.00047
Acenaphthene	mg/L	<0.000027	<0.000027	<0.000027	0.057	0.12
Acenaphthylene	mg/L	<0.000015	<0.000015	<0.000015	0.0019	0.0031
Anthracene	mg/L	<0.000014	<0.000014	<0.000014	0.024	0.022
Benzo(a)anthracene	mg/L	<0.000050	<0.000050	<0.000050	0.0094	0.0040
Benzo(a)pyrene	mg/L	<0.000020	<0.000020	<0.000020	0.0045	0.0016
bis(2-Chloroethoxy)methane	mg/L	<0.000030	<0.000030	<0.000030	<0.000030	<0.00030
bis(2-Ethylhexyl)phthalate (DEHP)	mg/L	0.00025	<0.00020	<0.000057	<0.00018	0.0023
Chrysene	mg/L	<0.000021	<0.000021	<0.000021	0.0086	0.0042

Table 2

Analytical Results Summary
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020

	Location ID:	MW-47A	MW-47C	MW-48C	MW-49A	MW-49B
	Sample Name:	WG-1620-MW47A-20200721	WG-1620-MW47C-20200716	WG-1620-MW48C-20200716	WG-1620-MW49A-20200716	WG-1620-MW49B-20200721
	Sample Date:	07/21/2020	07/16/2020	07/16/2020	07/16/2020	07/21/2020
Parameters	Unit					
Semi-volatile Organic Compounds (Continued)						
Di-n-butylphthalate (DBP)	mg/L	0.000046 J	0.00089	<0.000026	<0.000020	<0.00020
Dibenzofuran	mg/L	<0.000020	<0.000020	<0.000020	0.044	0.088
Fluoranthene	mg/L	0.000067 J	<0.000037	<0.000052	0.046	0.026
Fluorene	mg/L	<0.000030	<0.000030	<0.000030	0.046	0.070
N-Nitrosodiphenylamine	mg/L	<0.000025	<0.000025	<0.000025	<0.000025	<0.00025
Naphthalene	mg/L	0.00025	<0.000020	<0.000071	2.0	4.1
Nitrobenzene	mg/L	<0.000024	<0.000024	<0.000024	<0.000024	<0.00024
Pentachlorophenol	mg/L	<0.000079	<0.000079	<0.000079	<0.000079	<0.00079
Phenanthrene	mg/L	0.00011	<0.000022	<0.000021	0.22	0.12
Phenol	mg/L	0.000093 J	<0.000035	<0.000035	0.0017	0.0060
Pyrene	mg/L	0.000042 J	0.000022 J	0.000043 J	0.030	0.014
Metals						
Arsenic	mg/L	<0.000400	0.00142 J	0.00102 J	0.00113 J	0.00553

Table 2

Analytical Results Summary
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020

	Location ID:	MW-50A	MW-50B	MW-51A	MW-51C	MW-53C
	Sample Name:	WG-1620-MW50A-20200720	WG-1620-MW50B-20200716	WG-1620-MW51A-20200716	WG-1620-MW51C-20200716	WG-1620-MW53C-20200723
	Sample Date:	07/20/2020	07/16/2020	07/16/2020	07/16/2020	07/23/2020
Parameters	Unit					
Volatile Organic Compounds						
1,2-Dichloroethane	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Benzene	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Chlorobenzene	mg/L	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030
Ethylbenzene	mg/L	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030
Methylene chloride	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Toluene	mg/L	<0.00020	0.00048 J	<0.00020	<0.00020	<0.00020
Vinyl chloride	mg/L	--	--	--	--	--
Xylenes (total)	mg/L	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030
Semi-volatile Organic Compounds						
1,2-Diphenylhydrazine	mg/L	<0.000021	<0.000021	<0.000021	0.000032 J	<0.000021
2,4-Dimethylphenol	mg/L	<0.000040	<0.000040	<0.000040	0.000070 J	<0.000040
2,4-Dinitrotoluene	mg/L	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058
2,6-Dinitrotoluene	mg/L	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042
2-Chloronaphthalene	mg/L	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021
2-Methylnaphthalene	mg/L	<0.000019	<0.000040	<0.000019	<0.00015	0.00013 J
4,6-Dinitro-2-methylphenol	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
4-Nitrophenol	mg/L	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047
Acenaphthene	mg/L	<0.000027	0.00091	<0.000027	0.00033	0.00012 J
Acenaphthylene	mg/L	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015
Anthracene	mg/L	<0.000014	0.000078 J	0.000015 J	0.00045	<0.000014
Benzo(a)anthracene	mg/L	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
Benzo(a)pyrene	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
bis(2-Chloroethoxy)methane	mg/L	<0.000030	<0.000030	<0.000030	<0.000030	<0.000030
bis(2-Ethylhexyl)phthalate (DEHP)	mg/L	<0.000037	<0.000037	<0.000042	<0.000051	<0.000037
Chrysene	mg/L	<0.000021	<0.000021	<0.000021	0.000050 J	<0.000021

Table 2

Analytical Results Summary
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020

	Location ID:	MW-50A	MW-50B	MW-51A	MW-51C	MW-53C
	Sample Name:	WG-1620-MW50A-20200720	WG-1620-MW50B-20200716	WG-1620-MW51A-20200716	WG-1620-MW51C-20200716	WG-1620-MW53C-20200723
	Sample Date:	07/20/2020	07/16/2020	07/16/2020	07/16/2020	07/23/2020
Parameters	Unit					
Semi-volatile Organic Compounds (Continued)						
Di-n-butylphthalate (DBP)	mg/L	<0.000020	<0.000053	<0.000036	<0.000020	<0.000020
Dibenzofuran	mg/L	<0.000020	0.00058	<0.000020	0.00032	0.000095 J
Fluoranthene	mg/L	<0.000010	0.00011	<0.000028	0.0011	0.000072 J
Fluorene	mg/L	<0.000030	<0.00026	<0.000030	0.00049	0.000061 J
N-Nitrosodiphenylamine	mg/L	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025
Naphthalene	mg/L	<0.00014	<0.000064	<0.000020	<0.00061	0.0042 J
Nitrobenzene	mg/L	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024
Pentachlorophenol	mg/L	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079
Phenanthrene	mg/L	0.000081 J	<0.00034	<0.000021	0.0027	0.00010 J
Phenol	mg/L	<0.000035	<0.000035	<0.000035	<0.000035	<0.000035
Pyrene	mg/L	<0.000019	0.000064 J	0.000043 J	0.00062	0.000047 J
Metals						
Arsenic	mg/L	<0.000400	0.00707	0.000588 J	<0.000400	<0.000400

Table 2

Analytical Results Summary
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020

Location ID:	MW-54B	MW-54C	MW-54C	MW-57A	MW-57B
Sample Name:	WG-1620-MW54B-20200722	WG-1620-MW54C-20200722	WG-1620-DUP03-20200722	WG-1620-MW57A-20200715	WG-1620-MW57B-20200715
Sample Date:	07/22/2020	07/22/2020	07/22/2020 Duplicate	07/15/2020	07/15/2020
Parameters	Unit				
Volatile Organic Compounds					
1,2-Dichloroethane	mg/L	<0.00020	<0.00020	<0.00020	<0.0010
Benzene	mg/L	<0.00020	<0.00020	<0.00020	0.71
Chlorobenzene	mg/L	<0.00030	<0.00030	<0.00030	<0.0015
Ethylbenzene	mg/L	<0.00030	<0.00030	<0.00030	0.23
Methylene chloride	mg/L	<0.0010	<0.0010	<0.0010	<0.0050
Toluene	mg/L	<0.00020	<0.00020	<0.00020	0.70
Vinyl chloride	mg/L	--	--	--	--
Xylenes (total)	mg/L	<0.00030	<0.00030	<0.00030	0.68
Semi-volatile Organic Compounds					
1,2-Diphenylhydrazine	mg/L	<0.000021	<0.000021	<0.000021	<0.00021
2,4-Dimethylphenol	mg/L	<0.000040	<0.000040	<0.000040	11
2,4-Dinitrotoluene	mg/L	<0.000058	<0.000058	<0.000058	<0.00058
2,6-Dinitrotoluene	mg/L	<0.000042	<0.000042	<0.000042	<0.00042
2-Chloronaphthalene	mg/L	<0.000021	<0.000021	<0.000021	<0.00021
2-Methylnaphthalene	mg/L	<0.000019	0.000095 J	0.00021 J	0.41
4,6-Dinitro-2-methylphenol	mg/L	<0.000020	<0.000020	<0.000020	<0.00020
4-Nitrophenol	mg/L	<0.000047	<0.000047	<0.000047	<0.00047
Acenaphthene	mg/L	0.000079 J	0.0075 J	0.0072 J	0.061
Acenaphthylene	mg/L	<0.000015	0.00010 J	0.00011 J	0.0027
Anthracene	mg/L	<0.000014	0.00019 J	0.00061 J	0.013
Benzo(a)anthracene	mg/L	<0.000050	<0.000050	<0.000050	0.00070 J
Benzo(a)pyrene	mg/L	<0.000020	<0.000020	<0.000020	<0.00020
bis(2-Chloroethoxy)methane	mg/L	<0.000030	<0.000030	<0.000030	<0.00030
bis(2-Ethylhexyl)phthalate (DEHP)	mg/L	<0.000037	<0.000037	<0.000037	<0.00037
Chrysene	mg/L	<0.000021	<0.000021	<0.000021	0.00073 J

Table 2

Analytical Results Summary
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020

	Location ID:	MW-54B	MW-54C	MW-54C	MW-57A	MW-57B
	Sample Name:	WG-1620-MW54B-20200722	WG-1620-MW54C-20200722	WG-1620-DUP03-20200722	WG-1620-MW57A-20200715	WG-1620-MW57B-20200715
	Sample Date:	07/22/2020	07/22/2020	07/22/2020 Duplicate	07/15/2020	07/15/2020
Parameters	Unit					
Semi-volatile Organic Compounds (Continued)						
Di-n-butylphthalate (DBP)	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Dibenzofuran	mg/L	<0.000020	0.0018 J	0.0040 J	0.067	0.056
Fluoranthene	mg/L	<0.000010	0.00097 J	0.00097 J	0.0075	0.0049
Fluorene	mg/L	<0.000030	0.0029 J	0.0038 J	0.056	0.034
N-Nitrosodiphenylamine	mg/L	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025
Naphthalene	mg/L	<0.000036	0.0011 J	<0.00050 J	0.20	22
Nitrobenzene	mg/L	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024
Pentachlorophenol	mg/L	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079
Phenanthrene	mg/L	0.000052 J	<0.000021 J	0.00086 J	0.065	0.042
Phenol	mg/L	<0.000035	<0.000035	<0.000035	<0.000035	0.71
Pyrene	mg/L	<0.000019	0.00056 J	0.00055 J	0.0047	0.0027
Metals						
Arsenic	mg/L	0.00129 J	0.00157 J	0.00126 J	0.0488	0.00241

Table 2

Analytical Results Summary
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020

Location ID:	MW-58A	MW-59A	MW-59B	MW-59D	MW-59D
Sample Name:	WG-1620-MW58A-20200715	WG-1620-MW59A-20200721	WG-1620-MW59B-20200721	WG-1620-MW59D-20200803	WG-1620-DUP08-20200803
Sample Date:	07/15/2020	07/21/2020	07/21/2020	08/03/2020	08/03/2020 Duplicate
Parameters	Unit				
Volatile Organic Compounds					
1,2-Dichloroethane	mg/L	<0.00020	<0.00020	<0.00020	<0.00020
Benzene	mg/L	0.0030	<0.00020	<0.00020	<0.00020
Chlorobenzene	mg/L	0.00035 J	<0.00030	<0.00030	<0.00030
Ethylbenzene	mg/L	0.0029	<0.00030	<0.00030	<0.00030
Methylene chloride	mg/L	<0.0010	<0.0010	<0.0010	<0.0010
Toluene	mg/L	0.00045 J	0.0021	<0.00020	<0.00020
Vinyl chloride	mg/L	<0.00020	<0.00020	<0.00020	--
Xylenes (total)	mg/L	0.011	<0.00030	<0.00030	<0.00030
Semi-volatile Organic Compounds					
1,2-Diphenylhydrazine	mg/L	<0.000021	<0.000021	<0.000021	<0.000021
2,4-Dimethylphenol	mg/L	0.00067	0.00016 J	0.00019 J	<0.000040
2,4-Dinitrotoluene	mg/L	<0.000058	<0.000058	<0.000058	<0.000058
2,6-Dinitrotoluene	mg/L	<0.000042	<0.000042	<0.000042	<0.000042
2-Chloronaphthalene	mg/L	<0.000021	<0.000021	<0.000021	<0.000021
2-Methylnaphthalene	mg/L	0.048	<0.000019	<0.000019	<0.000019
4,6-Dinitro-2-methylphenol	mg/L	<0.000020	<0.000020	<0.000020	<0.000020
4-Nitrophenol	mg/L	<0.000047	<0.000047	<0.000047	<0.000047
Acenaphthene	mg/L	0.082	<0.000027	<0.000027	<0.000027
Acenaphthylene	mg/L	0.00090	<0.000015	<0.000015	<0.000015
Anthracene	mg/L	0.0069	<0.000014	<0.000014	<0.000014
Benzo(a)anthracene	mg/L	0.00015	<0.000050	<0.000050	<0.000050
Benzo(a)pyrene	mg/L	0.000053 J	<0.000020	<0.000020	<0.000020
bis(2-Chloroethoxy)methane	mg/L	<0.000030	<0.000030	<0.000030	<0.000030
bis(2-Ethylhexyl)phthalate (DEHP)	mg/L	<0.000037	<0.000037	0.00011 J	0.00025
Chrysene	mg/L	0.00012	<0.000021	<0.000021	<0.000021

Table 2

Analytical Results Summary
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020

	Location ID:	MW-58A	MW-59A	MW-59B	MW-59D	MW-59D
	Sample Name:	WG-1620-MW58A-20200715	WG-1620-MW59A-20200721	WG-1620-MW59B-20200721	WG-1620-MW59D-20200803	WG-1620-DUP08-20200803
	Sample Date:	07/15/2020	07/21/2020	07/21/2020	08/03/2020	08/03/2020 Duplicate
Parameters	Unit					
Semi-volatile Organic Compounds (Continued)						
Di-n-butylphthalate (DBP)	mg/L	0.00017 J	<0.000020	<0.000020	<0.000020	<0.000020
Dibenzofuran	mg/L	0.047	<0.000020	<0.000020	<0.000020	<0.000020
Fluoranthene	mg/L	0.0076	<0.000010	0.000071 J	<0.000010	<0.000010
Fluorene	mg/L	0.083	<0.000030	<0.000030	<0.000030	<0.000030
N-Nitrosodiphenylamine	mg/L	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025
Naphthalene	mg/L	0.35	0.00017	0.00020	<0.000099	<0.000049
Nitrobenzene	mg/L	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024
Pentachlorophenol	mg/L	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079
Phenanthrene	mg/L	0.037	0.000070 J	0.00012	<0.000021	<0.000021
Phenol	mg/L	0.00023	0.000097 J	0.000087 J	<0.000035	<0.000035
Pyrene	mg/L	0.0034	<0.000019	0.000051 J	<0.000019	<0.000019
Metals						
Arsenic	mg/L	0.00204	0.00172 J	<0.000400	0.00111 J	0.00113 J

Table 2

Analytical Results Summary
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020

Location ID:	MW-60AR	MW-60B	MW-61A	MW-61B	MW-62B
Sample Name:	WG-1620-MW60AR-20200720	WG-1620-MW60B-20200720	WG-1620-MW61A-20200720	WG-1620-MW61B-20200720	WG-1620-MW62B-20200716
Sample Date:	07/20/2020	07/20/2020	07/20/2020	07/20/2020	07/16/2020
Parameters	Unit				
Volatile Organic Compounds					
1,2-Dichloroethane	mg/L	<0.00020	<0.00020	<0.00020	<0.00020
Benzene	mg/L	<0.00020	<0.00020	<0.00020	0.0022
Chlorobenzene	mg/L	<0.00030	<0.00030	<0.00030	<0.00030
Ethylbenzene	mg/L	<0.00030	<0.00030	<0.00030	0.018
Methylene chloride	mg/L	<0.0010	<0.0010	<0.0010	<0.0010
Toluene	mg/L	<0.00020	<0.00020	<0.00020	0.0052
Vinyl chloride	mg/L	--	--	<0.00020	--
Xylenes (total)	mg/L	<0.00030	<0.00030	<0.00030	0.023
Semi-volatile Organic Compounds					
1,2-Diphenylhydrazine	mg/L	<0.000021	<0.000021	<0.000021	<0.000021
2,4-Dimethylphenol	mg/L	<0.000040	<0.000040	<0.000040	<0.000040
2,4-Dinitrotoluene	mg/L	<0.000058	<0.000058	<0.000058	<0.000058
2,6-Dinitrotoluene	mg/L	<0.000042	<0.000042	<0.000042	<0.000042
2-Chloronaphthalene	mg/L	<0.000021	<0.000021	<0.000021	<0.000021
2-Methylnaphthalene	mg/L	<0.000019	0.000022 J	<0.000019	0.00058
4,6-Dinitro-2-methylphenol	mg/L	<0.000020	<0.000020	<0.000020	<0.000020
4-Nitrophenol	mg/L	<0.000047	<0.000047	<0.000047	<0.000047
Acenaphthene	mg/L	<0.000027	0.000042 J	<0.000027	0.064
Acenaphthylene	mg/L	<0.000015	<0.000015	<0.000015	0.00086
Anthracene	mg/L	0.000019 J	<0.000014	0.000024 J	0.0034
Benzo(a)anthracene	mg/L	<0.000050	<0.000050	<0.000050	<0.000050
Benzo(a)pyrene	mg/L	<0.000020	<0.000020	<0.000020	0.000024 J
bis(2-Chloroethoxy)methane	mg/L	<0.000030	<0.000030	<0.000030	<0.000030
bis(2-Ethylhexyl)phthalate (DEHP)	mg/L	<0.000037	0.000065 J	0.00030	<0.00011
Chrysene	mg/L	<0.000021	<0.000021	<0.000021	<0.000021

Table 2

Analytical Results Summary
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020

	Location ID:	MW-60AR	MW-60B	MW-61A	MW-61B	MW-62B
	Sample Name:	WG-1620-MW60AR-20200720	WG-1620-MW60B-20200720	WG-1620-MW61A-20200720	WG-1620-MW61B-20200720	WG-1620-MW62B-20200716
	Sample Date:	07/20/2020	07/20/2020	07/20/2020	07/20/2020	07/16/2020
Parameters	Unit					
Semi-volatile Organic Compounds (Continued)						
Di-n-butylphthalate (DBP)	mg/L	<0.000020	0.000021 J	<0.000020	0.000024 J	<0.000020
Dibenzofuran	mg/L	<0.000020	0.000023 J	<0.000020	<0.000020	0.038
Fluoranthene	mg/L	0.000013 J	<0.000010	0.000040 J	0.000024 J	0.0035
Fluorene	mg/L	<0.000030	<0.000030	<0.000030	<0.000030	0.030
N-Nitrosodiphenylamine	mg/L	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025
Naphthalene	mg/L	<0.000020	<0.00012	<0.000073	<0.000032	0.092
Nitrobenzene	mg/L	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024
Pentachlorophenol	mg/L	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079
Phenanthrene	mg/L	<0.000021	<0.000021	0.000069 J	<0.000021	0.0089
Phenol	mg/L	<0.000035	<0.000035	<0.000035	<0.000035	<0.000035
Pyrene	mg/L	<0.000019	<0.000019	0.000028 J	<0.000019	0.0016
Metals						
Arsenic	mg/L	0.00370	0.00932	0.000524 J	0.00691	0.0285

Table 2

**Analytical Results Summary
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020**

	Location ID:	MW-63B	MW-64A	MW-65D	MW-66D	MW-66D
	Sample Name:	WG-1620-MW63B-20200723	WG-1620-MW64A-20200715	WG-1620-MW65D-20200729	WG-1620-MW66D-20200803	GW-1620-MW66D-20201008
	Sample Date:	07/23/2020	07/15/2020	07/29/2020	08/03/2020	10/08/2020
Parameters	Unit					
Volatile Organic Compounds						
1,2-Dichloroethane	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	--
Benzene	mg/L	0.10	<0.00020	<0.00020	<0.00020	--
Chlorobenzene	mg/L	<0.00030	<0.00030	<0.00030	<0.00030	--
Ethylbenzene	mg/L	0.14	<0.00030	<0.00030	<0.00030	--
Methylene chloride	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	--
Toluene	mg/L	0.0073	<0.00020	<0.00020	<0.00020	--
Vinyl chloride	mg/L	--	--	<0.00020	--	--
Xylenes (total)	mg/L	0.040	<0.00030	<0.00030	<0.00030	--
Semi-volatile Organic Compounds						
1,2-Diphenylhydrazine	mg/L	<0.000021 JL	<0.000021	<0.000021	<0.000021	--
2,4-Dimethylphenol	mg/L	<0.000040 JL	<0.000040	<0.000040	<0.000040	--
2,4-Dinitrotoluene	mg/L	<0.000058 JL	<0.000058	<0.000058	<0.000058	--
2,6-Dinitrotoluene	mg/L	<0.000042 JL	<0.000042	<0.000042	<0.000042	--
2-Chloronaphthalene	mg/L	<0.000021 JL	<0.000021	<0.000021	<0.000021	--
2-Methylnaphthalene	mg/L	0.0060 JL	<0.000019	0.000051 J	<0.000019	--
4,6-Dinitro-2-methylphenol	mg/L	<0.000020 JL	<0.000020	<0.000020	<0.000020	--
4-Nitrophenol	mg/L	<0.000047 JL	<0.000047	<0.000047	<0.000047	--
Acenaphthene	mg/L	0.0028 JL	<0.000027	0.000041 J	<0.000027	--
Acenaphthylene	mg/L	<0.000015 JL	<0.000015	<0.000015	<0.000015	--
Anthracene	mg/L	0.000072 JL	0.000082 J	0.000022 J	0.000028 J	--
Benzo(a)anthracene	mg/L	<0.000050 JL	<0.000050	0.000058 J	<0.000050	--
Benzo(a)pyrene	mg/L	<0.000020 JL	<0.000020	0.000034 J	0.000025 J	--
bis(2-Chloroethoxy)methane	mg/L	<0.000030 JL	<0.000030	<0.000030	<0.000030	--
bis(2-Ethylhexyl)phthalate (DEHP)	mg/L	<0.000037 JL	0.000060	0.000073 J	0.000058 J	--
Chrysene	mg/L	<0.000021 JL	0.000023 J	<0.000040	0.000034 J	--

Table 2

Analytical Results Summary
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020

	Location ID:	MW-63B	MW-64A	MW-65D	MW-66D	MW-66D
	Sample Name:	WG-1620-MW63B-20200723	WG-1620-MW64A-20200715	WG-1620-MW65D-20200729	WG-1620-MW66D-20200803	GW-1620-MW66D-20201008
	Sample Date:	07/23/2020	07/15/2020	07/29/2020	08/03/2020	10/08/2020
Parameters	Unit					
Semi-volatile Organic Compounds (Continued)						
Di-n-butylphthalate (DBP)	mg/L	<0.000020 JL	<0.000075	0.000025 J	<0.000020	--
Dibenzofuran	mg/L	0.0021 JL	<0.000020	0.000029 J	0.000025 J	--
Fluoranthene	mg/L	<0.000010 JL	0.00040	<0.000048	0.000029 J	--
Fluorene	mg/L	0.00091 JL	0.000050 J	<0.000030	<0.000030	--
N-Nitrosodiphenylamine	mg/L	<0.000025 JL	<0.000025	<0.000025	<0.000025	--
Naphthalene	mg/L	0.29 J	0.000083 J	0.00057	<0.000075	--
Nitrobenzene	mg/L	<0.000024 JL	<0.000024	<0.000024	<0.000024	--
Pentachlorophenol	mg/L	<0.000079 JL	<0.000079	<0.000079	<0.000079	--
Phenanthrene	mg/L	0.00036 JL	0.000086 J	<0.000067	<0.000021	--
Phenol	mg/L	<0.000035 JL	0.000073 J	<0.000035	<0.000035	--
Pyrene	mg/L	<0.000019 JL	0.00022	<0.000039	0.000030 J	--
Metals						
Arsenic	mg/L	<0.000400	0.00490	0.00142 J	0.0188	0.0163 J

Table 2

Analytical Results Summary
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020

	Location ID:	MW-66D	MW-67B	MW-68A	MW-68B	MW-68B
	Sample Name:	GW-1620-DUP01-20201008	WG-1620-MW67B-20200722	WG-1620-MW68A-20200727	WG-1620-MW68B-20200727	WG-1620-DUP05-20200727
	Sample Date:	10/08/2020	07/22/2020	07/27/2020	07/27/2020	07/27/2020
		Duplicate				Duplicate
Parameters	Unit					
Volatile Organic Compounds						
1,2-Dichloroethane	mg/L	--	<0.00020	<0.00020	<0.0010	<0.0010
Benzene	mg/L	--	<0.00020	<0.00020	2.3	2.3
Chlorobenzene	mg/L	--	<0.00030	<0.00030	<0.0015	<0.0015
Ethylbenzene	mg/L	--	<0.00030	<0.00030	0.55	0.57
Methylene chloride	mg/L	--	<0.0010	<0.0010	<0.0050	<0.0050
Toluene	mg/L	--	<0.00036	<0.00020	0.70	0.70
Vinyl chloride	mg/L	--	<0.00020	--	--	--
Xylenes (total)	mg/L	--	<0.00030	<0.00030	1.5	1.5
Semi-volatile Organic Compounds						
1,2-Diphenylhydrazine	mg/L	--	<0.000021	<0.000021	<0.00021	<0.00021
2,4-Dimethylphenol	mg/L	--	<0.000040	0.00023	0.018 J	0.025 J
2,4-Dinitrotoluene	mg/L	--	<0.000058	<0.000058	<0.00058	<0.00058
2,6-Dinitrotoluene	mg/L	--	<0.000042	<0.000042	<0.00042	<0.00042
2-Chloronaphthalene	mg/L	--	<0.000021	<0.000021	<0.00021	<0.00021
2-Methylnaphthalene	mg/L	--	0.00012	<0.000019	2.9 J	0.63 J
4,6-Dinitro-2-methylphenol	mg/L	--	<0.000020	<0.000020	<0.00020	<0.00020
4-Nitrophenol	mg/L	--	<0.000047	<0.000047	<0.00047	<0.00047
Acenaphthene	mg/L	--	0.000050 J	0.00032	1.0	0.23
Acenaphthylene	mg/L	--	<0.000015	<0.000015	<0.00015 J	0.0025 J
Anthracene	mg/L	--	<0.000014	<0.000024	0.50 J	0.061 J
Benzo(a)anthracene	mg/L	--	<0.000050	<0.000050	0.14 J	0.015 J
Benzo(a)pyrene	mg/L	--	<0.000020	<0.000020	0.039 J	0.0046 J
bis(2-Chloroethoxy)methane	mg/L	--	<0.000030	<0.000030	<0.00030	<0.00030
bis(2-Ethylhexyl)phthalate (DEHP)	mg/L	--	0.00030	0.000077 J	<0.00037	<0.00037
Chrysene	mg/L	--	<0.000021	<0.000029	0.099 J	0.012 J

Table 2

Analytical Results Summary
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020

	Location ID:	MW-66D	MW-67B	MW-68A	MW-68B	MW-68B
	Sample Name:	GW-1620-DUP01-20201008	WG-1620-MW67B-20200722	WG-1620-MW68A-20200727	WG-1620-MW68B-20200727	WG-1620-DUP05-20200727
	Sample Date:	10/08/2020	07/22/2020	07/27/2020	07/27/2020	07/27/2020
		Duplicate				Duplicate
Parameters	Unit					
Semi-volatile Organic Compounds (Continued)						
Di-n-butylphthalate (DBP)	mg/L	--	0.000054 J	<0.000046	<0.00020	<0.00020
Dibenzofuran	mg/L	--	<0.000020	<0.000027	1.3 J	0.27 J
Fluoranthene	mg/L	--	<0.000010	<0.00014	1.0 J	0.11 J
Fluorene	mg/L	--	<0.000030	<0.000041	0.80 J	0.17 J
N-Nitrosodiphenylamine	mg/L	--	<0.000025	<0.000025	<0.00025	<0.00025
Naphthalene	mg/L	--	0.00064	<0.000029	29 J	13 J
Nitrobenzene	mg/L	--	<0.000024	<0.000024	<0.00024	<0.00024
Pentachlorophenol	mg/L	--	<0.000079	<0.000079	<0.00079	<0.00079
Phenanthrene	mg/L	--	0.000053 J	<0.00011	3.1 J	0.39 J
Phenol	mg/L	--	<0.000035	<0.000035	<0.00035	<0.00035
Pyrene	mg/L	--	<0.000019	<0.000072	0.61 J	0.065 J
Metals						
Arsenic	mg/L	0.0237 J	<0.000400	0.0825	0.0113	0.0119

Table 2

Analytical Results Summary
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020

	Location ID:	MW-68C	MW-69A	MW-70B	MW-70C	MW-70C
	Sample Name:	WG-1620-MW68C-20200727	WG-1620-MW69A-20200721	WG-1620-MW70B-20200723	WG-1620-MW70C-20200728	WG-1620-MW70C-20200818
	Sample Date:	07/27/2020	07/21/2020	07/23/2020	07/28/2020	08/18/2020
Parameters	Unit					
Volatile Organic Compounds						
1,2-Dichloroethane	mg/L	<0.00020	<0.00020	<0.0020	<0.00020	--
Benzene	mg/L	<0.00020	<0.00020	1.5	0.021	--
Chlorobenzene	mg/L	<0.00030	<0.00030	<0.0030	<0.00030	--
Ethylbenzene	mg/L	<0.00030	<0.00030	0.75	0.11	--
Methylene chloride	mg/L	<0.0010	<0.0010	<0.010	<0.0010	--
Toluene	mg/L	<0.00020	<0.00020	2.3	0.056	--
Vinyl chloride	mg/L	--	<0.00020	--	--	--
Xylenes (total)	mg/L	<0.00030	<0.00030	2.1	0.11	--
Semi-volatile Organic Compounds						
1,2-Diphenylhydrazine	mg/L	<0.000021	<0.000021	<0.0021	--	<0.000021
2,4-Dimethylphenol	mg/L	<0.000040	0.00018 J	16 J	--	<0.000040
2,4-Dinitrotoluene	mg/L	<0.000058	<0.000058	<0.0058	--	<0.000058
2,6-Dinitrotoluene	mg/L	<0.000042	<0.000042	<0.0042	--	<0.000042
2-Chloronaphthalene	mg/L	<0.000021	<0.000021	<0.0021	--	<0.000021
2-Methylnaphthalene	mg/L	<0.00013	<0.000019	2.0 J	--	<0.000019
4,6-Dinitro-2-methylphenol	mg/L	<0.000020	<0.000020	<0.0020	--	<0.000020
4-Nitrophenol	mg/L	<0.000047	<0.000047	<0.0047	--	<0.000047
Acenaphthene	mg/L	0.00038	<0.000027	0.58 J	--	0.00023
Acenaphthylene	mg/L	0.000074 J	<0.000015	0.017 J	--	<0.000015
Anthracene	mg/L	0.00071	<0.000014	0.27 J	--	<0.000014
Benzo(a)anthracene	mg/L	<0.00039	<0.000050	0.054 J	--	<0.000050
Benzo(a)pyrene	mg/L	<0.00014	<0.000020	0.019 J	--	<0.000020
bis(2-Chloroethoxy)methane	mg/L	<0.000030	<0.000030	<0.0030	--	<0.000030
bis(2-Ethylhexyl)phthalate (DEHP)	mg/L	0.00016 J	0.000063 J	<0.0037	--	<0.000037
Chrysene	mg/L	<0.00030	<0.000021	0.044 J	--	<0.000021

Table 2

Analytical Results Summary
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020

	Location ID:	MW-68C	MW-69A	MW-70B	MW-70C	MW-70C
	Sample Name:	WG-1620-MW68C-20200727	WG-1620-MW69A-20200721	WG-1620-MW70B-20200723	WG-1620-MW70C-20200728	WG-1620-MW70C-20200818
	Sample Date:	07/27/2020	07/21/2020	07/23/2020	07/28/2020	08/18/2020
Parameters	Unit					
Semi-volatile Organic Compounds (Continued)						
Di-n-butylphthalate (DBP)	mg/L	<0.000021	<0.000020	<0.0020	--	<0.000020
Dibenzofuran	mg/L	0.00042	<0.000020	0.57 J	--	<0.000020
Fluoranthene	mg/L	0.0019	<0.000010	0.39 J	--	<0.000010
Fluorene	mg/L	0.00047	<0.000030	0.52 J	--	0.00013
N-Nitrosodiphenylamine	mg/L	<0.000025	<0.000025	<0.0025	--	<0.000025
Naphthalene	mg/L	<0.00066	0.00019	15 J	--	<0.000020
Nitrobenzene	mg/L	<0.000024	<0.000024	<0.0024	--	<0.000024
Pentachlorophenol	mg/L	<0.000079	<0.000079	<0.0079	--	<0.000079
Phenanthrene	mg/L	0.0024	<0.000021	2.3 J	--	0.00012
Phenol	mg/L	<0.000035	0.000099 J	1.7 J	--	<0.000035
Pyrene	mg/L	0.0013	<0.000019	0.24 J	--	<0.000019
Metals						
Arsenic	mg/L	<0.000400	0.0278	0.00168 J	0.00579	--

Table 2

Analytical Results Summary
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020

	Location ID:	MW-71B	MW-72B	MW-74B	MW-75B	MW-76B
	Sample Name:	WG-1620-MW71B-20200723	WG-1620-MW72B-20200714	WG-1620-MW74B-20200721	WG-1620-MW75B-20200721	WG-1620-MW76B-20200720
	Sample Date:	07/23/2020	07/14/2020	07/21/2020	07/21/2020	07/20/2020
Parameters	Unit					
Volatile Organic Compounds						
1,2-Dichloroethane	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Benzene	mg/L	0.082	0.92	0.78	0.0072	<0.00020
Chlorobenzene	mg/L	<0.00030	0.00030 J	<0.00030	<0.00030	<0.00030
Ethylbenzene	mg/L	0.017	0.23	0.16	0.040	<0.00030
Methylene chloride	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Toluene	mg/L	0.0024	0.75	0.69	0.050	<0.00020
Vinyl chloride	mg/L	--	--	--	--	--
Xylenes (total)	mg/L	0.0087	0.54	0.41	0.13	<0.00030
Semi-volatile Organic Compounds						
1,2-Diphenylhydrazine	mg/L	<0.000021 JL	<0.00021	<0.00021	<0.00021	<0.000021
2,4-Dimethylphenol	mg/L	<0.000040 JL	22	8.3	0.0046	0.00021
2,4-Dinitrotoluene	mg/L	<0.000058 JL	<0.00058	<0.00058	<0.00058	<0.000058
2,6-Dinitrotoluene	mg/L	<0.000042 JL	<0.00042	<0.00042	<0.00042	<0.000042
2-Chloronaphthalene	mg/L	<0.000021 JL	<0.00021	<0.00021	<0.00021	<0.000021
2-Methylnaphthalene	mg/L	0.0026 JL	0.099	0.60	0.11	0.00020
4,6-Dinitro-2-methylphenol	mg/L	<0.000020 JL	<0.00020	<0.00020	<0.00020	<0.000020
4-Nitrophenol	mg/L	<0.000047 JL	<0.00047	<0.00047	<0.00047	<0.000047
Acenaphthene	mg/L	0.0019 JL	0.063	0.32	0.057	0.00017
Acenaphthylene	mg/L	<0.000015 JL	0.0018	0.0083	0.0013	<0.000015
Anthracene	mg/L	0.00054 JL	0.0059	0.083	0.0090	0.000076 J
Benzo(a)anthracene	mg/L	0.00041 JL	0.00062 J	0.037	0.0019	0.00011
Benzo(a)pyrene	mg/L	0.00026 JL	<0.00020	0.012	0.00064 J	0.000066 J
bis(2-Chloroethoxy)methane	mg/L	<0.000030 JL	<0.00030	<0.00030	<0.00030	<0.000030
bis(2-Ethylhexyl)phthalate (DEHP)	mg/L	<0.000037 JL	<0.00037	<0.00037	<0.00037	0.000046 J
Chrysene	mg/L	0.00043 JL	0.00027 J	0.030	0.0015	0.00011

Table 2

Analytical Results Summary
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020

	Location ID:	MW-71B	MW-72B	MW-74B	MW-75B	MW-76B
	Sample Name:	WG-1620-MW71B-20200723	WG-1620-MW72B-20200714	WG-1620-MW74B-20200721	WG-1620-MW75B-20200721	WG-1620-MW76B-20200720
	Sample Date:	07/23/2020	07/14/2020	07/21/2020	07/21/2020	07/20/2020
Parameters	Unit					
Semi-volatile Organic Compounds (Continued)						
Di-n-butylphthalate (DBP)	mg/L	<0.000020 JL	<0.00020	<0.00020	<0.00020	0.000027 J
Dibenzofuran	mg/L	0.0015 JL	0.052	0.27	0.047	0.00013
Fluoranthene	mg/L	0.0015 JL	0.0012	0.20	0.0098	0.00025
Fluorene	mg/L	0.0011 JL	0.031	0.29	0.041	0.00013
N-Nitrosodiphenylamine	mg/L	<0.000025 JL	<0.00025	<0.00025	<0.00025	<0.000025
Naphthalene	mg/L	0.23 J	8.8	5.9	1.4	0.0020
Nitrobenzene	mg/L	<0.000024 JL	<0.00024	<0.00024	<0.00024	<0.000024
Pentachlorophenol	mg/L	<0.000079 JL	<0.00079	<0.00079	<0.00079	<0.000079
Phenanthrene	mg/L	0.0022 JL	0.028	0.58	0.052	0.00023
Phenol	mg/L	<0.000035 JL	6.4	5.5	<0.00035	<0.000035
Pyrene	mg/L	0.00100 JL	0.00093 J	0.15	0.0063	0.00015
Metals						
Arsenic	mg/L	<0.000400	0.00106 J	0.00137 J	<0.000400	0.00383

Table 2

Analytical Results Summary
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020

	Location ID:	MW-76C	MW-77A	MW-78A	MW-79A	MW-80B
	Sample Name:	WG-1620-MW76C-20200720	WG-1620-MW77A-20200720	WG-1620-MW78A-20200720	WG-1620-MW79A-20200721	WG-1620-MW80B-20200720
	Sample Date:	07/20/2020	07/20/2020	07/20/2020	07/21/2020	07/20/2020
Parameters	Unit					
Volatile Organic Compounds						
1,2-Dichloroethane	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Benzene	mg/L	<0.00020	0.021	0.15	0.18	<0.00020
Chlorobenzene	mg/L	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030
Ethylbenzene	mg/L	<0.00030	0.022	0.13	0.087	<0.00030
Methylene chloride	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Toluene	mg/L	<0.00020	0.0024	0.27	0.31	<0.00020
Vinyl chloride	mg/L	--	--	--	--	--
Xylenes (total)	mg/L	<0.00030	0.026	0.40	0.22	<0.00030
Semi-volatile Organic Compounds						
1,2-Diphenylhydrazine	mg/L	<0.000021	<0.000021	<0.00021	<0.000021	<0.000021
2,4-Dimethylphenol	mg/L	0.00012 J	0.0013	0.93	1.2	<0.000040
2,4-Dinitrotoluene	mg/L	<0.000058	<0.000058	<0.00058	<0.000058	<0.000058
2,6-Dinitrotoluene	mg/L	<0.000042	<0.000042	<0.00042	<0.000042	<0.000042
2-Chloronaphthalene	mg/L	<0.000021	<0.000021	<0.00021	<0.000021	<0.000021
2-Methylnaphthalene	mg/L	<0.000019	0.0023	0.44	0.070	<0.000019
4,6-Dinitro-2-methylphenol	mg/L	<0.000020	<0.000020	<0.00020	<0.000020	<0.000020
4-Nitrophenol	mg/L	<0.000047	<0.000047	<0.00047	<0.000047	<0.000047
Acenaphthene	mg/L	0.000049 J	0.0090	0.30	0.031	<0.000027
Acenaphthylene	mg/L	<0.000015	<0.000015	<0.00015	0.00057	<0.000015
Anthracene	mg/L	<0.000014	0.00033	0.100	0.00074	0.000027 J
Benzo(a)anthracene	mg/L	0.000069 J	<0.000050	0.042	0.000067 J	<0.000050
Benzo(a)pyrene	mg/L	0.000058 J	<0.000020	0.015	<0.000020	<0.000020
bis(2-Chloroethoxy)methane	mg/L	<0.000030	<0.000030	<0.00030	<0.000030	<0.000030
bis(2-Ethylhexyl)phthalate (DEHP)	mg/L	<0.000037	<0.000037	0.00054 J	<0.000037	0.000055 J
Chrysene	mg/L	0.000039 J	<0.000021	0.038	0.000058 J	<0.000021

Table 2

Analytical Results Summary
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020

	Location ID:	MW-76C	MW-77A	MW-78A	MW-79A	MW-80B
	Sample Name:	WG-1620-MW76C-20200720	WG-1620-MW77A-20200720	WG-1620-MW78A-20200720	WG-1620-MW79A-20200721	WG-1620-MW80B-20200720
	Sample Date:	07/20/2020	07/20/2020	07/20/2020	07/21/2020	07/20/2020
Parameters	Unit					
Semi-volatile Organic Compounds (Continued)						
Di-n-butylphthalate (DBP)	mg/L	<0.000020	<0.000020	0.00059 J	<0.000020	0.000034 J
Dibenzofuran	mg/L	<0.000020	0.0040	0.26	0.024	<0.000020
Fluoranthene	mg/L	0.000092 J	0.00012	0.29	0.00034	0.000047 J
Fluorene	mg/L	<0.000030	0.0042	0.28	0.0090	<0.000030
N-Nitrosodiphenylamine	mg/L	<0.000025	<0.000025	<0.00025	<0.000025	<0.000025
Naphthalene	mg/L	<0.000020	0.010	2.5	1.3	<0.000070
Nitrobenzene	mg/L	<0.000024	<0.000024	<0.00024	<0.000024	<0.000024
Pentachlorophenol	mg/L	<0.000079	<0.000079	<0.00079	<0.000079	<0.000079
Phenanthrene	mg/L	<0.000021	0.0018	0.72	0.0048	0.000049 J
Phenol	mg/L	<0.000035	<0.000035	0.015	0.25	<0.000035
Pyrene	mg/L	0.000069 J	0.000067 J	0.16	0.00020	0.000027 J
Metals						
Arsenic	mg/L	0.000427 J	0.0233	0.00915	0.0108	0.00122 J

Table 2

Analytical Results Summary
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020

	Location ID:	MW-81B	MW-82B	MW-83B	MW-83B	MW-83C
	Sample Name:	WG-1620-MW81B-20200720	WG-1620-MW82B-20200720	WG-1620-MW83B-20200722	WG-1620-DUP02-20200722	WG-1620-MW83C-20200722
	Sample Date:	07/20/2020	07/20/2020	07/22/2020	07/22/2020 Duplicate	07/22/2020
Parameters	Unit					
Volatile Organic Compounds						
1,2-Dichloroethane	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Benzene	mg/L	<0.00020	<0.00020	0.0070 J	0.0026 J	<0.00020
Chlorobenzene	mg/L	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030
Ethylbenzene	mg/L	<0.00030	<0.00030	0.027 J	0.019 J	<0.00030
Methylene chloride	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Toluene	mg/L	<0.00020	<0.00020	0.0026	<0.0015	<0.00020
Vinyl chloride	mg/L	--	--	--	--	--
Xylenes (total)	mg/L	<0.00030	<0.00030	0.031 J	0.021 J	<0.00030
Semi-volatile Organic Compounds						
1,2-Diphenylhydrazine	mg/L	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021
2,4-Dimethylphenol	mg/L	0.00063	<0.000040	0.00076 J	0.00050 J	0.00061
2,4-Dinitrotoluene	mg/L	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058
2,6-Dinitrotoluene	mg/L	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042
2-Chloronaphthalene	mg/L	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021
2-Methylnaphthalene	mg/L	0.000065 J	<0.000019	0.015 J	0.025 J	0.00019
4,6-Dinitro-2-methylphenol	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
4-Nitrophenol	mg/L	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047
Acenaphthene	mg/L	<0.000027	<0.000027	0.0080	0.014	0.00029
Acenaphthylene	mg/L	<0.000015	<0.000015	0.000099 J	0.00012	<0.000015
Anthracene	mg/L	<0.000014	<0.000014	0.00043	0.00057	0.000075 J
Benzo(a)anthracene	mg/L	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
Benzo(a)pyrene	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
bis(2-Chloroethoxy)methane	mg/L	<0.000030	<0.000030	<0.000030	<0.000030	<0.000030
bis(2-Ethylhexyl)phthalate (DEHP)	mg/L	<0.000037	0.000052 J	<0.000037	0.000061 J	0.000077 J
Chrysene	mg/L	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021

Table 2

Analytical Results Summary
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020

	Location ID:	MW-81B	MW-82B	MW-83B	MW-83B	MW-83C
	Sample Name:	WG-1620-MW81B-20200720	WG-1620-MW82B-20200720	WG-1620-MW83B-20200722	WG-1620-DUP02-20200722	WG-1620-MW83C-20200722
	Sample Date:	07/20/2020	07/20/2020	07/22/2020	07/22/2020 Duplicate	07/22/2020
Parameters	Unit					
Semi-volatile Organic Compounds (Continued)						
Di-n-butylphthalate (DBP)	mg/L	<0.000020	0.000022 J	<0.000020	<0.000020	<0.000020
Dibenzofuran	mg/L	<0.000020	<0.000020	0.0050 J	0.0077 J	0.00030
Fluoranthene	mg/L	<0.000010	0.000015 J	0.00012	0.00018	0.000079 J
Fluorene	mg/L	<0.000030	<0.000030	0.0030 J	0.0050 J	0.00026
N-Nitrosodiphenylamine	mg/L	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025
Naphthalene	mg/L	0.00097	<0.000020	0.16 J	0.32 J	0.0020
Nitrobenzene	mg/L	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024
Pentachlorophenol	mg/L	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079
Phenanthrene	mg/L	0.000061 J	<0.000021	0.0031 J	0.0045 J	0.00050
Phenol	mg/L	0.00016 J	<0.000035	0.00046 J	0.00015 J	0.000099 J
Pyrene	mg/L	<0.000019	<0.000019	0.000069 J	0.00010 J	<0.000019
Metals						
Arsenic	mg/L	0.00244	0.00299	0.0342 J	0.00371 J	0.00398

Table 2

Analytical Results Summary
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020

	Location ID:	MW-84A	MW-84B	MW-85C	MW-85C	MW-86C
	Sample Name:	WG-1620-MW84A-20200727	WG-1620-MW84B-20200727	WG-1620-MW85C-20200716	GW-1620-MW85C-20201008	WG-1620-MW86C-20200716
	Sample Date:	07/27/2020	07/27/2020	07/16/2020	10/08/2020	07/16/2020
Parameters	Unit					
Volatile Organic Compounds						
1,2-Dichloroethane	mg/L	<0.00020	<0.00020	<0.0050	--	<0.00020
Benzene	mg/L	<0.00020	0.0022	<0.0050	--	<0.00020
Chlorobenzene	mg/L	<0.00030	<0.00030	<0.0075	--	<0.00030
Ethylbenzene	mg/L	<0.00030	0.0037	<0.0075	--	<0.00030
Methylene chloride	mg/L	<0.0010	<0.0010	<0.025	--	<0.0010
Toluene	mg/L	<0.00020	0.00075 J	<0.0050	--	<0.00020
Vinyl chloride	mg/L	--	--	--	--	--
Xylenes (total)	mg/L	<0.00030	0.0019	<0.0075	--	<0.00030
Semi-volatile Organic Compounds						
1,2-Diphenylhydrazine	mg/L	<0.000021	<0.000021	<0.000021	--	<0.000021
2,4-Dimethylphenol	mg/L	<0.000040	<0.000040	<0.000040	--	<0.000040
2,4-Dinitrotoluene	mg/L	<0.000058	<0.000058	<0.000058	--	<0.000058
2,6-Dinitrotoluene	mg/L	<0.000042	<0.000042	<0.000042	--	<0.000042
2-Chloronaphthalene	mg/L	<0.000021	<0.000021	<0.000021	--	<0.000021
2-Methylnaphthalene	mg/L	<0.000019	0.00040	<0.000031	--	<0.000019
4,6-Dinitro-2-methylphenol	mg/L	<0.000020	<0.000020	<0.000020	--	<0.000020
4-Nitrophenol	mg/L	<0.000047	<0.000047	<0.000047	--	<0.000047
Acenaphthene	mg/L	<0.000027	0.0030	0.0012	--	<0.000027
Acenaphthylene	mg/L	<0.000015	0.000053 J	<0.000015	--	<0.000015
Anthracene	mg/L	<0.000014	<0.00019	0.00015	--	0.000015 J
Benzo(a)anthracene	mg/L	<0.000052	<0.000050	<0.000050	--	<0.000050
Benzo(a)pyrene	mg/L	<0.000042	<0.000020	<0.000020	--	<0.000020
bis(2-Chloroethoxy)methane	mg/L	<0.000030	<0.000030	<0.000030	--	<0.000030
bis(2-Ethylhexyl)phthalate (DEHP)	mg/L	0.00024	0.000074 J	<0.000089	--	<0.000037
Chrysene	mg/L	<0.000045	<0.000025	<0.000021	--	<0.000021

Table 2

Analytical Results Summary
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020

	Location ID:	MW-84A	MW-84B	MW-85C	MW-85C	MW-86C
	Sample Name:	WG-1620-MW84A-20200727	WG-1620-MW84B-20200727	WG-1620-MW85C-20200716	GW-1620-MW85C-20201008	WG-1620-MW86C-20200716
	Sample Date:	07/27/2020	07/27/2020	07/16/2020	10/08/2020	07/16/2020
Parameters	Unit					
Semi-volatile Organic Compounds (Continued)						
Di-n-butylphthalate (DBP)	mg/L	<0.000047	<0.000023	<0.000038	--	<0.000083
Dibenzofuran	mg/L	<0.000020	0.0023	0.00070	--	<0.000020
Fluoranthene	mg/L	<0.000038	<0.00015	0.000100 J	--	<0.000028
Fluorene	mg/L	<0.000030	0.0012	0.00059	--	<0.000030
N-Nitrosodiphenylamine	mg/L	<0.000025	<0.000025	<0.000025	--	<0.000025
Naphthalene	mg/L	<0.00013	0.025	0.0031	--	<0.000034
Nitrobenzene	mg/L	<0.000024	<0.000024	<0.000024	--	<0.000024
Pentachlorophenol	mg/L	<0.000079	<0.000079	0.00061 J	--	<0.000079
Phenanthrene	mg/L	<0.000024	<0.0012	<0.00026	--	<0.000086
Phenol	mg/L	<0.000035	<0.000035	0.000048 J	--	<0.000035
Pyrene	mg/L	<0.000038	<0.000097	0.000065 J	--	<0.000019
Metals						
Arsenic	mg/L	0.0143	0.00462	0.170	0.0659	0.00209

Table 2

Analytical Results Summary
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020

	Location ID:	MW-87C	MW-88A	MW-88B	MW-88C	MW-89B
	Sample Name:	WG-1620-MW87C-20200723	WG-1620-MW88A-20200715	WG-1620-MW88B-20200716	WG-1620-MW88C-20200715	WG-1620-MW89B-20200722
	Sample Date:	07/23/2020	07/15/2020	07/16/2020	07/15/2020	07/22/2020
Parameters	Unit					
Volatile Organic Compounds						
1,2-Dichloroethane	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Benzene	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Chlorobenzene	mg/L	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030
Ethylbenzene	mg/L	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030
Methylene chloride	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Toluene	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Vinyl chloride	mg/L	--	--	<0.00020	--	--
Xylenes (total)	mg/L	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030
Semi-volatile Organic Compounds						
1,2-Diphenylhydrazine	mg/L	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021
2,4-Dimethylphenol	mg/L	<0.000040	0.00029	<0.000040	<0.000040	<0.000040
2,4-Dinitrotoluene	mg/L	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058
2,6-Dinitrotoluene	mg/L	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042
2-Chloronaphthalene	mg/L	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021
2-Methylnaphthalene	mg/L	<0.000019	0.00045	<0.000019	0.00034	<0.000019
4,6-Dinitro-2-methylphenol	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
4-Nitrophenol	mg/L	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047
Acenaphthene	mg/L	0.00024 J	0.0035	<0.000037	0.000051 J	<0.000027
Acenaphthylene	mg/L	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015
Anthracene	mg/L	0.00010 J	0.000045 J	0.000043 J	<0.000014	<0.000014
Benzo(a)anthracene	mg/L	0.00025 J	<0.000050	<0.000050	<0.000050	<0.000050
Benzo(a)pyrene	mg/L	0.00016 J	<0.000020	<0.000020	<0.000020	<0.000020
bis(2-Chloroethoxy)methane	mg/L	<0.000030	<0.000030	<0.000030	<0.000030	<0.000030
bis(2-Ethylhexyl)phthalate (DEHP)	mg/L	<0.000037	<0.000037	<0.000060	<0.000037	<0.000037
Chrysene	mg/L	0.00024 J	<0.000021	<0.000021	<0.000021	<0.000021

Table 2

Analytical Results Summary
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020

	Location ID:	MW-87C	MW-88A	MW-88B	MW-88C	MW-89B
	Sample Name:	WG-1620-MW87C-20200723	WG-1620-MW88A-20200715	WG-1620-MW88B-20200716	WG-1620-MW88C-20200715	WG-1620-MW89B-20200722
	Sample Date:	07/23/2020	07/15/2020	07/16/2020	07/15/2020	07/22/2020
Parameters	Unit					
Semi-volatile Organic Compounds (Continued)						
Di-n-butylphthalate (DBP)	mg/L	<0.000020	<0.000053	<0.000020	<0.000020	<0.000020
Dibenzofuran	mg/L	0.00012 J	0.00038	<0.000024	0.000052 J	<0.000020
Fluoranthene	mg/L	0.00057 J	0.00025	<0.000044	<0.000010	<0.000010
Fluorene	mg/L	0.00022 J	0.00089	<0.000030	<0.000030	<0.000030
N-Nitrosodiphenylamine	mg/L	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025
Naphthalene	mg/L	<0.000020	0.0097	<0.000083	0.0058	<0.000020
Nitrobenzene	mg/L	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024
Pentachlorophenol	mg/L	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079
Phenanthrene	mg/L	0.00058 J	0.000071 J	<0.000075	<0.000021	0.000058 J
Phenol	mg/L	<0.000035	0.00026	<0.000035	<0.000035	<0.000035
Pyrene	mg/L	0.00042 J	0.00068	0.000025 J	<0.000019	<0.000019
Metals						
Arsenic	mg/L	0.00135 J	0.00345	0.00268	0.000557 J	0.00193 J

Table 2

Analytical Results Summary
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020

Location ID:	MW-90B	MW-91A	MW-92B	MW-93B	MW-94A
Sample Name:	WG-1620-MW90B-20200722	WG-1620-MW91A-20200723	WG-1620-MW92B-20200722	WG-1620-MW93B-20200722	WG-1620-MW94A-20200720
Sample Date:	07/22/2020	07/23/2020	07/22/2020	07/22/2020	07/20/2020
Parameters	Unit				
Volatile Organic Compounds					
1,2-Dichloroethane	mg/L	<0.00020	<0.00020	<0.00020	<0.00020
Benzene	mg/L	<0.00020	<0.00020	<0.00020	<0.00020
Chlorobenzene	mg/L	<0.00030	<0.00030	<0.00030	<0.00030
Ethylbenzene	mg/L	<0.00030	<0.00030	<0.00030	<0.00030
Methylene chloride	mg/L	<0.0010	<0.0010	<0.0010	<0.0010
Toluene	mg/L	<0.00020	<0.00020	<0.00020	<0.00020
Vinyl chloride	mg/L	--	--	--	--
Xylenes (total)	mg/L	<0.00030	<0.00030	<0.00030	<0.00030
Semi-volatile Organic Compounds					
1,2-Diphenylhydrazine	mg/L	<0.000021	<0.000021	<0.000021	<0.000021
2,4-Dimethylphenol	mg/L	<0.000040	<0.000040	<0.000040	<0.000040
2,4-Dinitrotoluene	mg/L	<0.000058	<0.000058	<0.000058	<0.000058
2,6-Dinitrotoluene	mg/L	<0.000042	<0.000042	<0.000042	<0.000042
2-Chloronaphthalene	mg/L	<0.000021	<0.000021	<0.000021	<0.000021
2-Methylnaphthalene	mg/L	<0.000019	<0.000019	<0.000019	<0.000019
4,6-Dinitro-2-methylphenol	mg/L	<0.000020	<0.000020	<0.000020	<0.000020
4-Nitrophenol	mg/L	<0.000047	<0.000047	<0.000047	<0.000047
Acenaphthene	mg/L	<0.000027	<0.000027	<0.000027	<0.000027
Acenaphthylene	mg/L	<0.000015	<0.000015	<0.000015	<0.000015
Anthracene	mg/L	<0.000014	<0.000014	<0.000014	<0.000014
Benzo(a)anthracene	mg/L	<0.000050	<0.000050	<0.000050	<0.000050
Benzo(a)pyrene	mg/L	<0.000020	<0.000020	<0.000020	<0.000020
bis(2-Chloroethoxy)methane	mg/L	<0.000030	<0.000030	<0.000030	<0.000030
bis(2-Ethylhexyl)phthalate (DEHP)	mg/L	<0.000037	<0.000037	0.00013 J	0.000040 J
Chrysene	mg/L	<0.000021	<0.000021	<0.000021	<0.000021

Table 2

Analytical Results Summary
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020

	Location ID:	MW-90B	MW-91A	MW-92B	MW-93B	MW-94A
	Sample Name:	WG-1620-MW90B-20200722	WG-1620-MW91A-20200723	WG-1620-MW92B-20200722	WG-1620-MW93B-20200722	WG-1620-MW94A-20200720
	Sample Date:	07/22/2020	07/23/2020	07/22/2020	07/22/2020	07/20/2020
Parameters	Unit					
Semi-volatile Organic Compounds (Continued)						
Di-n-butylphthalate (DBP)	mg/L	0.000071 J	<0.000020	<0.000020	0.000052 J	<0.000020
Dibenzofuran	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
Fluoranthene	mg/L	0.000055 J	<0.000010	<0.000010	<0.000010	0.000019 J
Fluorene	mg/L	<0.000030	<0.000030	<0.000030	<0.000030	<0.000030
N-Nitrosodiphenylamine	mg/L	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025
Naphthalene	mg/L	<0.000020	<0.000020	<0.000010	<0.000020	<0.000020
Nitrobenzene	mg/L	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024
Pentachlorophenol	mg/L	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079
Phenanthrene	mg/L	0.000040 J	<0.000021	<0.000021	<0.000021	<0.000021
Phenol	mg/L	<0.000035	<0.000035	<0.000035	<0.000035	<0.000035
Pyrene	mg/L	<0.000019	<0.000019	<0.000019	<0.000019	<0.000019
Metals						
Arsenic	mg/L	0.00814	0.0197	0.00478	0.00967	0.00455

Table 2

**Analytical Results Summary
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020**

	Location ID:	MW-95A	MW-96B	MW-97A	MW-98A	MW-98B
	Sample Name:	WG-1620-MW95A-20200720	WG-1620-MW96B-20200720	WG-1620-MW97A-20200716	WG-1620-MW98A-20200716	WG-1620-MW98B-20200716
	Sample Date:	07/20/2020	07/20/2020	07/16/2020	07/16/2020	07/16/2020
Parameters	Unit					
Volatile Organic Compounds						
1,2-Dichloroethane	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Benzene	mg/L	<0.00020	<0.00020	<0.00020	0.00024 J	<0.00020
Chlorobenzene	mg/L	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030
Ethylbenzene	mg/L	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030
Methylene chloride	mg/L	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Toluene	mg/L	<0.00020	<0.00020	<0.00020	<0.00020	0.00060 J
Vinyl chloride	mg/L	--	--	--	--	--
Xylenes (total)	mg/L	<0.00030	<0.00030	<0.00030	<0.00030	<0.00030
Semi-volatile Organic Compounds						
1,2-Diphenylhydrazine	mg/L	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021
2,4-Dimethylphenol	mg/L	<0.000040	<0.000040	<0.000040	<0.000040	<0.000040
2,4-Dinitrotoluene	mg/L	<0.000058	<0.000058	<0.000058	<0.000058	<0.000058
2,6-Dinitrotoluene	mg/L	<0.000042	<0.000042	<0.000042	<0.000042	<0.000042
2-Chloronaphthalene	mg/L	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021
2-Methylnaphthalene	mg/L	<0.000019	<0.000019	<0.000019	<0.000019	<0.000020
4,6-Dinitro-2-methylphenol	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
4-Nitrophenol	mg/L	<0.000047	<0.000047	<0.000047	<0.000047	<0.000047
Acenaphthene	mg/L	<0.000027	<0.000027	<0.000027	<0.000030	<0.000047
Acenaphthylene	mg/L	<0.000015	<0.000015	<0.000015	<0.000015	<0.000015
Anthracene	mg/L	<0.000014	<0.000014	0.000046 J	0.000080 J	0.000028 J
Benzo(a)anthracene	mg/L	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
Benzo(a)pyrene	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000020
bis(2-Chloroethoxy)methane	mg/L	<0.000030	<0.000030	<0.000030	<0.000030	<0.000030
bis(2-Ethylhexyl)phthalate (DEHP)	mg/L	<0.000037	<0.000037	<0.000037	<0.000037	<0.000037
Chrysene	mg/L	<0.000021	<0.000021	<0.000021	<0.000021	<0.000021

Table 2

Analytical Results Summary
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020

	Location ID:	MW-95A	MW-96B	MW-97A	MW-98A	MW-98B
	Sample Name:	WG-1620-MW95A-20200720	WG-1620-MW96B-20200720	WG-1620-MW97A-20200716	WG-1620-MW98A-20200716	WG-1620-MW98B-20200716
	Sample Date:	07/20/2020	07/20/2020	07/16/2020	07/16/2020	07/16/2020
Parameters	Unit					
Semi-volatile Organic Compounds (Continued)						
Di-n-butylphthalate (DBP)	mg/L	<0.000020	<0.000020	<0.000020	<0.000020	<0.000030
Dibenzofuran	mg/L	<0.000020	<0.000020	<0.000024	<0.000021	<0.000038
Fluoranthene	mg/L	<0.000010	<0.000010	<0.000033	<0.000033	<0.000038
Fluorene	mg/L	<0.000030	<0.000030	<0.000030	<0.000051	<0.000060
N-Nitrosodiphenylamine	mg/L	<0.000025	<0.000025	<0.000025	<0.000025	<0.000025
Naphthalene	mg/L	<0.000020	<0.000020	<0.00018	<0.00011	<0.00016
Nitrobenzene	mg/L	<0.000024	<0.000024	<0.000024	<0.000024	<0.000024
Pentachlorophenol	mg/L	<0.000079	<0.000079	<0.000079	<0.000079	<0.000079
Phenanthrene	mg/L	<0.000021	<0.000021	<0.000087	<0.00010	<0.00013
Phenol	mg/L	<0.000035	<0.000035	<0.000035	<0.000035	<0.000035
Pyrene	mg/L	<0.000019	<0.000019	0.000025 J	0.000031 J	0.000022 J
Metals						
Arsenic	mg/L	0.00378	0.00192 J	0.00478	0.0187	0.00302

Table 2

Analytical Results Summary
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020

	Location ID:	MW-99C	P-11	TW-41B
	Sample Name:	WG-1620-MW99C-20200722	WG-1620-P11-20200716	WG-1620-TW41B-20200717
	Sample Date:	07/22/2020	07/16/2020	07/17/2020
Parameters	Unit			
Volatile Organic Compounds				
1,2-Dichloroethane	mg/L	<0.00020	<0.00020	<0.00020
Benzene	mg/L	<0.00020	<0.00020	0.0017
Chlorobenzene	mg/L	<0.00030	<0.00030	<0.00030
Ethylbenzene	mg/L	<0.00030	<0.00030	0.0015
Methylene chloride	mg/L	<0.0010	<0.0010	<0.0010
Toluene	mg/L	<0.00020	<0.00020	0.0016
Vinyl chloride	mg/L	--	--	--
Xylenes (total)	mg/L	<0.00030	<0.00030	0.021
Semi-volatile Organic Compounds				
1,2-Diphenylhydrazine	mg/L	<0.000021	0.00014 J	<0.000021
2,4-Dimethylphenol	mg/L	<0.000040	<0.000040	<0.000040
2,4-Dinitrotoluene	mg/L	<0.000058	<0.000058	<0.000058
2,6-Dinitrotoluene	mg/L	<0.000042	<0.000042	<0.000042
2-Chloronaphthalene	mg/L	<0.000021	<0.000021	<0.000021
2-Methylnaphthalene	mg/L	0.000050 J	<0.000019	0.029
4,6-Dinitro-2-methylphenol	mg/L	<0.000020	<0.000020	<0.000020
4-Nitrophenol	mg/L	<0.000047	<0.000047	<0.000047
Acenaphthene	mg/L	0.000068 J	0.00080	0.065
Acenaphthylene	mg/L	<0.000015	<0.000015	0.0011
Anthracene	mg/L	<0.000014	0.000078 J	0.0039
Benzo(a)anthracene	mg/L	<0.000050	<0.000050	<0.000050
Benzo(a)pyrene	mg/L	<0.000020	<0.000020	<0.000020
bis(2-Chloroethoxy)methane	mg/L	<0.000030	<0.000030	<0.000030
bis(2-Ethylhexyl)phthalate (DEHP)	mg/L	<0.000037	<0.000068	<0.000037
Chrysene	mg/L	<0.000021	<0.000021	<0.000021

Table 2

Analytical Results Summary
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020

Location ID:	MW-99C	P-11	TW-41B
Sample Name:	WG-1620-MW99C-20200722	WG-1620-P11-20200716	WG-1620-TW41B-20200717
Sample Date:	07/22/2020	07/16/2020	07/17/2020

Parameters	Unit			
Semi-volatile Organic Compounds (Continued)				
Di-n-butylphthalate (DBP)	mg/L	0.00019 J	<0.000025	<0.000020
Dibenzofuran	mg/L	<0.000020	<0.00019	0.034
Fluoranthene	mg/L	<0.000010	0.00022	0.0025
Fluorene	mg/L	<0.000030	<0.00017	0.044
N-Nitrosodiphenylamine	mg/L	<0.000025	<0.000025	<0.000025
Naphthalene	mg/L	0.00077 J	<0.00011	0.60
Nitrobenzene	mg/L	<0.000024	<0.000024	<0.000024
Pentachlorophenol	mg/L	<0.000079	<0.000079	<0.000079
Phenanthrene	mg/L	<0.000021	<0.00024	0.018
Phenol	mg/L	<0.000035	<0.000035	<0.000035
Pyrene	mg/L	<0.000019	0.00010	0.0011
Metals				
Arsenic	mg/L	0.00102 J	0.0116	0.0883

Notes:

- < - Not detected at the associated reporting limit
- J - Estimated concentration
- JL - Estimated concentration; biased low
- "-" - Not applicable

Table 3

Analytical Methods
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020

Parameter	Method	Matrix	Holding Time	
			Collection to Extraction (Days)	Extraction to Analysis (Days)
VOCs	SW-846 8260C	Water	-	14
SVOCs	SW-846 8270D	Water	7	40
Arsenic	SW-846 6020A	Water	-	180

Notes:

- VOCs - Volatile Organic Compounds
SVOCs - Semi-volatile Organic Compounds
TPH - Total Petroleum Hydrocarbons
"-" - Not Applicable

Method References:

- SW-846 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, 1986, with subsequent revisions

Table 4

Qualified Sample Data Due to Outlying of Surrogate Recoveries
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020

Parameter	Sample ID	Surrogate	Surrogate	Control Limits	Analyte	Qualified	Units
			% Recovery	% Recovery		Result	
SVOCs	WG-1620-MW44A-20200722	2-Fluorobiphenyl	37.1	40-125	1,2-Diphenylhydrazine	0.00034 JL	mg/L
		Nitrobenzene-d5	38.6	41-120	2,4-Dimethylphenol	<0.000040 JL	mg/L
					2,4-Dinitrotoluene	<0.000058 JL	mg/L
					2,6-Dinitrotoluene	<0.000042 JL	mg/L
					2-Chloronaphthalene	<0.000021 JL	mg/L
					2-Methylnaphthalene	<0.000019 JL	mg/L
					4,6-Dinitro-2-methylphenol	0.00011 JL	mg/L
					4-Nitrophenol	<0.000047 JL	mg/L
					Acenaphthylene	<0.000015 JL	mg/L
					Anthracene	0.00022 JL	mg/L
					Benzo(a)anthracene	<0.000050 JL	mg/L
					Benzo(a)pyrene	<0.000020 JL	mg/L
					bis(2-Chloroethoxy)methane	<0.000030 JL	mg/L
					bis(2-Ethylhexyl)phthalate (DEHP)	<0.000037 JL	mg/L
					Chrysene	<0.000021 JL	mg/L
					Dibenzofuran	<0.000020 JL	mg/L
			Di-n-butylphthalate (DBP)	<0.000020 JL	mg/L		
			Fluoranthene	0.0025 JL	mg/L		

Table 4

Qualified Sample Data Due to Outlying of Surrogate Recoveries
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020

Parameter	Sample ID	Surrogate	Surrogate % Recovery	Control Limits % Recovery	Analyte	Qualified Result	Units
SVOCs	WG-1620-MW44A-20200722	2-Fluorobiphenyl	37.1	40-125	Naphthalene	<0.00016 JL	mg/L
		Nitrobenzene-d5	38.6	41-120	Nitrobenzene	<0.000024 JL	mg/L
					N-Nitrosodiphenylamine	<0.000025 JL	mg/L
					Pentachlorophenol	<0.000079 JL	mg/L
					Phenanthrene	<0.000021 JL	mg/L
					Phenol	<0.000035 JL	mg/L
					Pyrene	0.0022 JL	mg/L
SVOCs	WG-1620-MW45C-20200722	2-Fluorobiphenyl	31.4	40-125	1,2-Diphenylhydrazine	<0.000021 JL	mg/L
		Nitrobenzene-d5	30.8	41-120	2,4-Dimethylphenol	<0.000040 JL	mg/L
					2,4-Dinitrotoluene	<0.000058 JL	mg/L
					2,6-Dinitrotoluene	<0.000042 JL	mg/L
					2-Chloronaphthalene	<0.000021 JL	mg/L
					4,6-Dinitro-2-methylphenol	<0.000020 JL	mg/L
					4-Nitrophenol	<0.000047 JL	mg/L
					Acenaphthylene	<0.000015 JL	mg/L
					Benzo(a)anthracene	0.0048 JL	mg/L
					Benzo(a)pyrene	0.0016 JL	mg/L

Table 4

Qualified Sample Data Due to Outlying of Surrogate Recoveries
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020

Parameter	Sample ID	Surrogate	Surrogate	Control Limits	Analyte	Qualified	Units
			% Recovery	% Recovery		Result	
SVOCs	WG-1620-MW45C-20200722	2-Fluorobiphenyl	31.4	40-125	bis(2-Chloroethoxy)methane	<0.000030 JL	mg/L
		Nitrobenzene-d5	30.8	41-120	bis(2-Ethylhexyl)phthalate (DEHP)	<0.000037 JL	mg/L
					Chrysene	0.0041 JL	mg/L
					Di-n-butylphthalate (DBP)	<0.000020 JL	mg/L
					Nitrobenzene	<0.000024 JL	mg/L
					N-Nitrosodiphenylamine	<0.000025 JL	mg/L
					Pentachlorophenol	<0.000079 JL	mg/L
					Phenol	<0.000035 JL	mg/L
SVOCs	WG-1620-MW46C-20200722	2-Fluorobiphenyl	30.4	40-125	1,2-Diphenylhydrazine	<0.000021 JL	mg/L
		Nitrobenzene-d5	36.9	41-120	2,4-Dimethylphenol	<0.000040 JL	mg/L
					2,4-Dinitrotoluene	<0.000058 JL	mg/L
					2,6-Dinitrotoluene	<0.000042 JL	mg/L
					2-Chloronaphthalene	<0.000021 JL	mg/L
					4,6-Dinitro-2-methylphenol	<0.000020 JL	mg/L
					4-Nitrophenol	<0.000047 JL	mg/L
					Acenaphthylene	<0.000015 JL	mg/L
					Benzo(a)anthracene	0.0051 JL	mg/L

Table 4

Qualified Sample Data Due to Outlying of Surrogate Recoveries
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020

Parameter	Sample ID	Surrogate	Surrogate	Control Limits	Analyte	Qualified	Units
			% Recovery	% Recovery		Result	
SVOCs	WG-1620-MW46C-20200722	2-Fluorobiphenyl	30.4	40-125	Benzo(a)pyrene	0.0019 JL	mg/L
		Nitrobenzene-d5	36.9	41-120	bis(2-Chloroethoxy)methane	<0.000030 JL	mg/L
			bis(2-Ethylhexyl)phthalate (DEHP)	0.00032 JL	mg/L		
			Chrysene	0.0040 JL	mg/L		
			Di-n-butylphthalate (DBP)	<0.000020 JL	mg/L		
			Nitrobenzene	<0.000024 JL	mg/L		
			N-Nitrosodiphenylamine	<0.000025 JL	mg/L		
			Pentachlorophenol	<0.000079 JL	mg/L		
Phenol	<0.000035 JL	mg/L					
SVOCs	WG-1620-MW63B-20200723	2-Fluorobiphenyl	27.1	40-125	1,2-Diphenylhydrazine	<0.000021 JL	mg/L
		Nitrobenzene-d5	31.8	41-120	2,4-Dimethylphenol	<0.000040 JL	mg/L
			2,4-Dinitrotoluene	<0.000058 JL	mg/L		
			2,6-Dinitrotoluene	<0.000042 JL	mg/L		
			2-Chloronaphthalene	<0.000021 JL	mg/L		
			2-Methylnaphthalene	0.0060 JL	mg/L		
			4,6-Dinitro-2-methylphenol	<0.000020 JL	mg/L		
			4-Nitrophenol	<0.000047 JL	mg/L		

Table 4

Qualified Sample Data Due to Outlying of Surrogate Recoveries
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
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July-October 2020

Parameter	Sample ID	Surrogate	Surrogate	Control Limits	Analyte	Qualified	Units
			% Recovery	% Recovery		Result	
SVOCs	WG-1620-MW63B-20200723	2-Fluorobiphenyl	27.1	40-125	Acenaphthene	0.0028 JL	mg/L
		Nitrobenzene-d5	31.8	41-120	Acenaphthylene	<0.000015 JL	mg/L
					Anthracene	0.000072 JL	mg/L
					Benzo(a)anthracene	<0.000050 JL	mg/L
					Benzo(a)pyrene	<0.000020 JL	mg/L
					bis(2-Chloroethoxy)methane	<0.000030 JL	mg/L
					bis(2-Ethylhexyl)phthalate (DEHP)	<0.000037 JL	mg/L
					Chrysene	<0.000021 JL	mg/L
					Dibenzofuran	0.0021 JL	mg/L
					Di-n-butylphthalate (DBP)	<0.000020 JL	mg/L
					Fluoranthene	<0.000010 JL	mg/L
					Fluorene	0.00091 JL	mg/L
					Nitrobenzene	<0.000024 JL	mg/L
					N-Nitrosodiphenylamine	<0.000025 JL	mg/L
					Pentachlorophenol	<0.000079 JL	mg/L
					Phenanthrene	0.00036 JL	mg/L
					Phenol	<0.000035 JL	mg/L
			Pyrene	<0.000019 JL	mg/L		

Table 4

Qualified Sample Data Due to Outlying of Surrogate Recoveries
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020

Parameter	Sample ID	Surrogate	Surrogate % Recovery	Control Limits % Recovery	Analyte	Qualified Result	Units
SVOCs	WG-1620-MW71B-20200723	2-Fluorobiphenyl	32.1	40-125	1,2-Diphenylhydrazine	<0.000021 JL	mg/L
		Nitrobenzene-d5	36.9	41-120	2,4-Dimethylphenol	<0.000040 JL	mg/L
					2,4-Dinitrotoluene	<0.000058 JL	mg/L
					2,6-Dinitrotoluene	<0.000042 JL	mg/L
					2-Chloronaphthalene	<0.000021 JL	mg/L
					2-Methylnaphthalene	0.0026 JL	mg/L
					4,6-Dinitro-2-methylphenol	<0.000020 JL	mg/L
					4-Nitrophenol	<0.000047 JL	mg/L
					Acenaphthene	0.0019 JL	mg/L
					Acenaphthylene	<0.000015 JL	mg/L
					Anthracene	0.00054 JL	mg/L
					Benzo(a)anthracene	0.00041 JL	mg/L
					Benzo(a)pyrene	0.00026 JL	mg/L
					bis(2-Chloroethoxy)methane	<0.000030 JL	mg/L
					bis(2-Ethylhexyl)phthalate (DEHP)	<0.000037 JL	mg/L
					Chrysene	0.00043 JL	mg/L
					Dibenzofuran	0.0015 JL	mg/L
			Di-n-butylphthalate (DBP)	<0.000020 JL	mg/L		

Table 4

**Qualified Sample Data Due to Outlying of Surrogate Recoveries
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020**

Parameter	Sample ID	Surrogate	Surrogate % Recovery	Control Limits % Recovery	Analyte	Qualified Result	Units
SVOCs	WG-1620-MW71B-20200723	2-Fluorobiphenyl	32.1	40-125	Fluoranthene	0.0015 JL	mg/L
		Nitrobenzene-d5	36.9	41-120	Fluorene	0.0011 JL	mg/L
					Nitrobenzene	<0.000024 JL	mg/L
					N-Nitrosodiphenylamine	<0.000025 JL	mg/L
					Pentachlorophenol	<0.000079 JL	mg/L
					Phenanthrene	0.0022 JL	mg/L
					Phenol	<0.000035 JL	mg/L
					Pyrene	0.00100 JL	mg/L

Notes:

SVOCs - Semi-volatile Organic Compounds

< - Not detected at the associated reporting limit

JL - Estimated concentration; biased low

Table 5

Qualified Sample Results Due to Outlying LCS/LCSD Results
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020

Parameter	Analyte	LCS Date (mm/dd/yyyy)	LCS % Recovery	LCSD % Recovery	RPD (percent)	Control Limits		Associated Sample ID	Qualified Result	Units
						% Recovery	RPD			
SVOCs	Pentachlorophenol	07/25/2020	50.2	39.2	24.7	19-121	20	WG-1620-MW85C-20200716	0.00061 J	mg/L
SVOCs	1,2-Diphenylhydrazine	07/28/2020	100	69.4	36.1	39-127	20	WG-1620-MW44A-20200722	0.00034 JL	mg/L
	2,4-Dimethylphenol		74.2	56.9	26.4	35-120	20	WG-1620-MW70B-20200723	16 J	mg/L
	2-Methylnaphthalene		79.5	61.7	25.2	50-120	20	WG-1620-DUP03-20200722	0.00021 J	mg/L
								WG-1620-MW32AR-20200723	0.000088 J	mg/L
								WG-1620-MW45C-20200722	0.044 J	mg/L
								WG-1620-MW46C-20200722	0.059 J	mg/L
								WG-1620-MW53C-20200723	0.00013 J	mg/L
								WG-1620-MW54C-20200722	0.000095 J	mg/L
								WG-1620-MW63B-20200723	0.0060 JL	mg/L
								WG-1620-MW70B-20200723	2.0 J	mg/L
								WG-1620-MW71B-20200723	0.0026 JL	mg/L
								WG-1620-MW99C-20200722	0.000050 J	mg/L
	4,6-Dinitro-2-methylphenol		115	80.6	34.8	25-121	20	WG-1620-MW44A-20200722	0.00011 JL	mg/L
	Acenaphthene		94.1	65.9	35.2	45-120	20	WG-1620-DUP03-20200722	0.0072 J	mg/L
								WG-1620-MW28A-20200723	0.000038 J	mg/L

Table 5

Qualified Sample Results Due to Outlying LCS/LCSD Results
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020

Parameter	Analyte	LCS Date (mm/dd/yyyy)	LCS % Recovery	LCSD % Recovery	RPD (percent)	Control Limits		Associated Sample ID	Qualified Result	Units
						% Recovery	RPD			
SVOCs	Acenaphthene	07/28/2020	94.1	65.9	35.2	45-120	20	WG-1620-MW32AR-20200723	0.00028 J	mg/L
								WG-1620-MW44A-20200722	0.075 J	mg/L
								WG-1620-MW45C-20200722	0.035 J	mg/L
								WG-1620-MW46C-20200722	0.054 J	mg/L
								WG-1620-MW53C-20200723	0.00012 J	mg/L
								WG-1620-MW54B-20200722	0.000079 J	mg/L
								WG-1620-MW54C-20200722	0.0075 J	mg/L
								WG-1620-MW63B-20200723	0.0028 JL	mg/L
								WG-1620-MW70B-20200723	0.58 J	mg/L
								WG-1620-MW71B-20200723	0.0019 JL	mg/L
	WG-1620-MW87C-20200723	0.00024 J	mg/L							
	WG-1620-MW99C-20200722	0.000068 J	mg/L							
	Acenaphthylene	84.7	64.3	27.3	47-120	20	WG-1620-DUP03-20200722	0.00011 J	mg/L	
							WG-1620-MW54C-20200722	0.00010 J	mg/L	
Anthracene	106	71.8	38.3	45-120	20	WG-1620-DUP03-20200722	0.00061 J	mg/L		
						WG-1620-MW32AR-20200723	0.000080 J	mg/L		

Table 5

**Qualified Sample Results Due to Outlying LCS/LCSD Results
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020**

Parameter	Analyte	LCS Date (mm/dd/yyyy)	LCS % Recovery	LCSD % Recovery	RPD (percent)	Control Limits		Associated Sample ID	Qualified		
						% Recovery	RPD		Result	Units	
SVOCs	Anthracene	07/28/2020	106	71.8	38.3	45-120	20	WG-1620-MW44A-20200722	0.00022	JL	mg/L
								WG-1620-MW45C-20200722	0.025	J	mg/L
								WG-1620-MW46C-20200722	0.026	J	mg/L
								WG-1620-MW54C-20200722	0.00019	J	mg/L
								WG-1620-MW63B-20200723	0.000072	JL	mg/L
								WG-1620-MW70B-20200723	0.27	J	mg/L
								WG-1620-MW71B-20200723	0.00054	JL	mg/L
	Benzo(a)anthracene	117	89.6	26.9	40-120	20	WG-1620-MW87C-20200723	0.00010	J	mg/L	
							WG-1620-MW32AR-20200723	0.000088	J	mg/L	
							WG-1620-MW45C-20200722	0.0048	JL	mg/L	
							WG-1620-MW46C-20200722	0.0051	JL	mg/L	
							WG-1620-MW70B-20200723	0.054	J	mg/L	
							WG-1620-MW71B-20200723	0.00041	JL	mg/L	
							WG-1620-MW87C-20200723	0.00025	J	mg/L	
							Benzo(a)pyrene	118	95.3	21.2	45-120
WG-1620-MW46C-20200722	0.0019	JL	mg/L								
WG-1620-MW70B-20200723	0.019	J	mg/L								

Table 5

Qualified Sample Results Due to Outlying LCS/LCSD Results
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020

Parameter	Analyte	LCS Date (mm/dd/yyyy)	LCS % Recovery	LCSD % Recovery	RPD (percent)	Control Limits		Associated Sample ID	Qualified								
						% Recovery	RPD		Result	Units							
SVOCs	Benzo(a)pyrene	07/28/2020	118	95.3	21.2	45-120	20	WG-1620-MW71B-20200723	0.00026	JL	mg/L						
								WG-1620-MW87C-20200723	0.00016	J	mg/L						
	bis(2-Ethylhexyl)phthalate (DEHP)		116	78.2	38.6	40-139	20	WG-1620-MW46C-20200722	0.00032	JL	mg/L						
			Chrysene	102	72.3	34.3	43-120	20	WG-1620-MW32AR-20200723	0.000026	J	mg/L					
	WG-1620-MW45C-20200722								0.0041	JL	mg/L						
	Chrysene		102	72.3	34.3	43-120	20	WG-1620-MW46C-20200722	0.0040	JL	mg/L						
								WG-1620-MW70B-20200723	0.044	J	mg/L						
								WG-1620-MW71B-20200723	0.00043	JL	mg/L						
								WG-1620-MW87C-20200723	0.00024	J	mg/L						
								Dibenzofuran	90.3	64.6	33.2	50-120	20	WG-1620-DUP03-20200722	0.0040	J	mg/L
														WG-1620-MW32AR-20200723	0.00011	J	mg/L
								WG-1620-MW45C-20200722	0.033	J	mg/L						
								WG-1620-MW46C-20200722	0.050	J	mg/L						
								WG-1620-MW53C-20200723	0.000095	J	mg/L						
								WG-1620-MW54C-20200722	0.0018	J	mg/L						
								WG-1620-MW63B-20200723	0.0021	JL	mg/L						
						WG-1620-MW70B-20200723	0.57	J	mg/L								

Table 5

Qualified Sample Results Due to Outlying LCS/LCSD Results
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020

Parameter	Analyte	LCS Date (mm/dd/yyyy)	LCS % Recovery	LCSD % Recovery	RPD (percent)	Control Limits		Associated Sample ID	Qualified			
						% Recovery	RPD		Result	Units		
SVOCs	Dibenzofuran	07/28/2020	90.3	64.6	33.2	50-120	20	WG-1620-MW71B-20200723	0.0015	JL	mg/L	
								WG-1620-MW87C-20200723	0.00012	J	mg/L	
	Di-n-butylphthalate (DBP)		102	72.3	34.4	45-123	20	WG-1620-MW99C-20200722	0.00019	J	mg/L	
			Fluoranthene	115	74.3	43.1	45-125	20	WG-1620-DUP03-20200722	0.00097	J	mg/L
	WG-1620-MW32AR-20200723								0.00019	J	mg/L	
									WG-1620-MW44A-20200722	0.0025	JL	mg/L
									WG-1620-MW45C-20200722	0.042	J	mg/L
									WG-1620-MW46C-20200722	0.049	J	mg/L
									WG-1620-MW53C-20200723	0.000072	J	mg/L
									WG-1620-MW54C-20200722	0.00097	J	mg/L
									WG-1620-MW70B-20200723	0.39	J	mg/L
									WG-1620-MW71B-20200723	0.0015	JL	mg/L
									WG-1620-MW87C-20200723	0.00057	J	mg/L
			Fluorene	95.1	71.4	28.5	49-120	20	WG-1620-DUP03-20200722	0.0038	J	mg/L
	WG-1620-MW32AR-20200723								0.00011	J	mg/L	
WG-1620-MW44A-20200722	0.020	J							mg/L			
							WG-1620-MW45C-20200722	0.031	J	mg/L		

Table 5

**Qualified Sample Results Due to Outlying LCS/LCSD Results
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020**

Parameter	Analyte	LCS	LCS	LCSD	RPD	Control Limits		Associated Sample ID	Qualified Result	Units	
		Date (mm/dd/yyyy)	% Recovery	% Recovery		% Recovery	RPD				
SVOCs	Fluorene	07/28/2020	95.1	71.4	28.5	49-120	20	WG-1620-MW46C-20200722	0.042 J	mg/L	
								WG-1620-MW53C-20200723	0.000061 J	mg/L	
								WG-1620-MW54C-20200722	0.0029 J	mg/L	
								WG-1620-MW63B-20200723	0.00091 JL	mg/L	
								WG-1620-MW70B-20200723	0.52 J	mg/L	
								WG-1620-MW71B-20200723	0.0011 JL	mg/L	
SVOCs	Fluorene	07/28/2020	95.1	71.4	28.5	49-120	20	WG-1620-MW87C-20200723	0.00022 J	mg/L	
								Naphthalene	WG-1620-MW28A-20200723	0.00015 J	mg/L
									WG-1620-MW32AR-20200723	0.00026 J	mg/L
									WG-1620-MW45C-20200722	0.27 J	mg/L
									WG-1620-MW46C-20200722	0.29 J	mg/L
									WG-1620-MW53C-20200723	0.0042 J	mg/L
									WG-1620-MW54C-20200722	0.0011 J	mg/L
									WG-1620-MW63B-20200723	0.29 J	mg/L
									WG-1620-MW70B-20200723	15 J	mg/L
									WG-1620-MW71B-20200723	0.23 J	mg/L
									WG-1620-MW99C-20200722	0.00077 J	mg/L

Table 5

**Qualified Sample Results Due to Outlying LCS/LCSD Results
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020**

Parameter	Analyte	LCS Date (mm/dd/yyyy)	LCS % Recovery	LCSD % Recovery	RPD (percent)	Control Limits		Associated Sample ID	Qualified Result	Units	
						% Recovery	RPD				
SVOCs	Phenanthrene	07/28/2020	101	66.2	41.4	45-121	20	WG-1620-DUP03-20200722	0.00086 J	mg/L	
								WG-1620-MW32AR-20200723	0.00023 J	mg/L	
								WG-1620-MW45C-20200722	0.14 J	mg/L	
								WG-1620-MW46C-20200722	0.14 J	mg/L	
								WG-1620-MW53C-20200723	0.00010 J	mg/L	
								WG-1620-MW54B-20200722	0.000052 J	mg/L	
								WG-1620-MW63B-20200723	0.00036 JL	mg/L	
								WG-1620-MW70B-20200723	2.3 J	mg/L	
								WG-1620-MW71B-20200723	0.0022 JL	mg/L	
	WG-1620-MW87C-20200723	0.00058 J	mg/L								
	Phenol			78.0	59.9	26.2	20-124	20	WG-1620-MW70B-20200723	1.7 J	mg/L
									WG-1620-DUP03-20200722	0.00055 J	mg/L
	Pyrene			101	73.6	31.3	40-130	20	WG-1620-DUP03-20200722	0.00021 J	mg/L
									WG-1620-MW32AR-20200723	0.00021 J	mg/L
									WG-1620-MW44A-20200722	0.0022 JL	mg/L
WG-1620-MW45C-20200722									0.026 J	mg/L	
								WG-1620-MW46C-20200722	0.028 J	mg/L	
								WG-1620-MW53C-20200723	0.000047 J	mg/L	

Table 5

**Qualified Sample Results Due to Outlying LCS/LCSD Results
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020**

Parameter	Analyte	LCS	LCS	LCSD	RPD	Control Limits		Associated Sample ID	Qualified Result	Units
		Date (mm/dd/yyyy)	% Recovery	% Recovery		% Recovery	RPD			
SVOCs	Phenol	07/28/2020	78.0	59.9	26.2	20-124	20	WG-1620-MW54C-20200722	0.00056 J	mg/L
	Pyrene		101	73.6	31.3	40-130	20	WG-1620-MW70B-20200723	0.24 J	mg/L
								WG-1620-MW71B-20200723	0.00100 JL	mg/L
								WG-1620-MW87C-20200723	0.00042 J	mg/L

Notes:

- LCS - Laboratory Control Sample
- LCSD - Laboratory Control Sample Duplicate
- RPD - Relative Percent Difference
- SVOCs - Semi-volatile Organic Compounds
- J - Estimated concentration
- JL - Estimated concentration; biased low

Table 6

Qualified Sample Data Due to Analyte Concentrations in the Field Blanks
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020

Parameter	Field Blank ID	Blank Date (mm/dd/yyyy)	Analyte	Blank Result	Associated Sample ID	Original Result	Qualified Result	Units
SVOCs	WG-1620-FB01-20200714	07/14/2020	Naphthalene	0.00019	WG-1620-MW15A-20200714	0.00092	<0.00092	mg/L
					WG-1620-MW15C-20200714	0.00016	<0.00016	mg/L
SVOCs	WG-1620-FB02-20200715	07/15/2020	bis(2-Ethylhexyl)phthalate (DEHP)	0.000042 J	WG-1620-MW03-20200715	0.000095 J	<0.000095	mg/L
					WG-1620-MW05-20200715	0.000066 J	<0.000066	mg/L
					WG-1620-MW09-20200715	0.000040 J	<0.000040	mg/L
			Di-n-butylphthalate (DBP)	0.000022 J	WG-1620-MW03-20200715	0.000054 J	<0.000054	mg/L
					WG-1620-MW04-20200715	0.000059 J	<0.000059	mg/L
					WG-1620-MW05-20200715	0.000030 J	<0.000030	mg/L
					WG-1620-MW09-20200715	0.000034 J	<0.000034	mg/L
			Fluoranthene	0.000014 J	WG-1620-MW64A-20200715	0.000075 J	<0.000075	mg/L
					WG-1620-MW88A-20200715	0.000053 J	<0.000053	mg/L
					WG-1620-MW04-20200715	0.000067 J	<0.000067	mg/L
WG-1620-MW05-20200715	0.000044 J	<0.000044	mg/L					
SVOCs	WG-1620-FB03-20200716	07/16/2020	2-Methylnaphthalene	0.000036 J	WG-1620-MW21C-20200716	0.000021 J	<0.000021	mg/L
					WG-1620-DUP01-20200716	0.000046 J	<0.000046	mg/L
					WG-1620-MW39B-20200716	0.000067 J	<0.000067	mg/L
					WG-1620-MW50B-20200716	0.000040 J	<0.000040	mg/L

Table 6

Qualified Sample Data Due to Analyte Concentrations in the Field Blanks
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020

Parameter	Field Blank ID	Blank Date (mm/dd/yyyy)	Analyte	Blank Result	Associated Sample ID	Original Result	Qualified Result	Units
SVOCs	WG-1620-FB03-20200716	07/16/2020	2-Methylnaphthalene	0.000036 J	WG-1620-MW51C-20200716	0.00015	<0.00015	mg/L
					WG-1620-MW85C-20200716	0.000031 J	<0.000031	mg/L
					WG-1620-MW98B-20200716	0.000020 J	<0.000020	mg/L
			Acenaphthene	0.000062 J	WG-1620-MW88B-20200716	0.000037 J	<0.000037	mg/L
					WG-1620-MW98A-20200716	0.000030 J	<0.000030	mg/L
					WG-1620-MW98B-20200716	0.000047 J	<0.000047	mg/L
			bis(2-Ethylhexyl)phthalate (DEHP)	0.000068 J	WG-1620-MW21C-20200716	0.000061 J	<0.000061	mg/L
					WG-1620-DUP01-20200716	0.000087 J	<0.000087	mg/L
					WG-1620-MW39B-20200716	0.000071 J	<0.000071	mg/L
					WG-1620-MW40B-20200716	0.000061 J	<0.000061	mg/L
					WG-1620-MW42B-20200716	0.00015 J	<0.00015	mg/L
					WG-1620-MW47C-20200716	0.00020	<0.00020	mg/L
					WG-1620-MW48C-20200716	0.000057 J	<0.000057	mg/L
					WG-1620-MW49A-20200716	0.00018 J	<0.00018	mg/L
					WG-1620-MW51A-20200716	0.000042 J	<0.000042	mg/L
					WG-1620-MW51C-20200716	0.000051 J	<0.000051	mg/L
					WG-1620-MW62B-20200716	0.00011 J	<0.00011	mg/L
					WG-1620-MW85C-20200716	0.000089 J	<0.000089	mg/L
					WG-1620-MW88B-20200716	0.000060 J	<0.000060	mg/L

Table 6

Qualified Sample Data Due to Analyte Concentrations in the Field Blanks
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020

Parameter	Field Blank ID	Blank Date (mm/dd/yyyy)	Analyte	Blank Result	Associated Sample ID	Original Result	Qualified Result	Units
SVOCs	WG-1620-FB03-20200716	07/16/2020	bis(2-Ethylhexyl)phthalate (DEHP)	0.000068 J	WG-1620-P11-20200716	0.000068 J	<0.000068	mg/L
				0.000061 J	WG-1620-MW39B-20200716	0.00011	<0.00011	mg/L
				WG-1620-MW88B-20200716	0.000024 J	<0.000024	mg/L	
				WG-1620-MW97A-20200716	0.000024 J	<0.000024	mg/L	
				WG-1620-MW98A-20200716	0.000021 J	<0.000021	mg/L	
				WG-1620-MW98B-20200716	0.000038 J	<0.000038	mg/L	
				WG-1620-P11-20200716	0.00019	<0.00019	mg/L	
			Di-n-butylphthalate (DBP)	0.000020 J	WG-1620-MW21C-20200716	0.000028 J	<0.000028	mg/L
					WG-1620-DUP01-20200716	0.000033 J	<0.000033	mg/L
					WG-1620-MW40B-20200716	0.000069 J	<0.000069	mg/L
					WG-1620-MW42B-20200716	0.000026 J	<0.000026	mg/L
					WG-1620-MW48C-20200716	0.000026 J	<0.000026	mg/L
					WG-1620-MW50B-20200716	0.000053 J	<0.000053	mg/L
					WG-1620-MW51A-20200716	0.000036 J	<0.000036	mg/L
					WG-1620-MW85C-20200716	0.000038 J	<0.000038	mg/L
					WG-1620-MW86C-20200716	0.000083 J	<0.000083	mg/L
					WG-1620-MW98B-20200716	0.000030 J	<0.000030	mg/L
				WG-1620-P11-20200716	0.000025 J	<0.000025	mg/L	

Table 6

Qualified Sample Data Due to Analyte Concentrations in the Field Blanks
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020

Parameter	Field Blank ID	Blank Date (mm/dd/yyyy)	Analyte	Blank Result	Associated Sample ID	Original Result	Qualified Result	Units
SVOCs	WG-1620-FB03-20200716	07/16/2020	Fluoranthene	0.000018 J	WG-1620-MW21C-20200716	0.000019 J	<0.000019	mg/L
					WG-1620-DUP01-20200716	0.000067 J	<0.000067	mg/L
					WG-1620-MW42B-20200716	0.000053 J	<0.000053	mg/L
					WG-1620-MW47C-20200716	0.000037 J	<0.000037	mg/L
					WG-1620-MW48C-20200716	0.000052 J	<0.000052	mg/L
					WG-1620-MW51A-20200716	0.000028 J	<0.000028	mg/L
					WG-1620-MW86C-20200716	0.000028 J	<0.000028	mg/L
					WG-1620-MW88B-20200716	0.000044 J	<0.000044	mg/L
					WG-1620-MW97A-20200716	0.000033 J	<0.000033	mg/L
					WG-1620-MW98A-20200716	0.000033 J	<0.000033	mg/L
			Fluorene	0.000072 J	WG-1620-MW50B-20200716	0.00026	<0.00026	mg/L
					WG-1620-MW98A-20200716	0.000051 J	<0.000051	mg/L
					WG-1620-MW98B-20200716	0.000060 J	<0.000060	mg/L
					WG-1620-P11-20200716	0.00017	<0.00017	mg/L
			Naphthalene	0.00023	WG-1620-DUP01-20200716	0.000060 J	<0.000060	mg/L
					WG-1620-MW21C-20200716	0.000042 J	<0.000042	mg/L
					WG-1620-DUP01-20200716	0.00016	<0.00016	mg/L
					WG-1620-MW39B-20200716	0.0011	<0.0011	mg/L

Table 6

Qualified Sample Data Due to Analyte Concentrations in the Field Blanks
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020

Parameter	Field Blank ID	Blank Date (mm/dd/yyyy)	Analyte	Blank Result	Associated Sample ID	Original Result	Qualified Result	Units
SVOCs	WG-1620-FB03-20200716	07/16/2020	Naphthalene	0.00023	WG-1620-MW42B-20200716	0.000031 J	<0.000031	mg/L
					WG-1620-MW48C-20200716	0.000071 J	<0.000071	mg/L
					WG-1620-MW50B-20200716	0.000064 J	<0.000064	mg/L
					WG-1620-MW51C-20200716	0.000061	<0.000061	mg/L
					WG-1620-MW86C-20200716	0.000034 J	<0.000034	mg/L
					WG-1620-MW88B-20200716	0.000083 J	<0.000083	mg/L
					WG-1620-MW97A-20200716	0.000018	<0.000018	mg/L
					WG-1620-MW98A-20200716	0.000011	<0.000011	mg/L
					WG-1620-MW98B-20200716	0.000016	<0.000016	mg/L
					WG-1620-P11-20200716	0.000011	<0.000011	mg/L
			Phenanthrene	0.00018	WG-1620-MW39B-20200716	0.000047 J	<0.000047	mg/L
					WG-1620-MW47C-20200716	0.000022 J	<0.000022	mg/L
					WG-1620-MW50B-20200716	0.000034	<0.000034	mg/L
					WG-1620-MW85C-20200716	0.000026	<0.000026	mg/L
					WG-1620-MW86C-20200716	0.000086 J	<0.000086	mg/L
					WG-1620-MW88B-20200716	0.000075 J	<0.000075	mg/L
					WG-1620-MW97A-20200716	0.000087 J	<0.000087	mg/L
					WG-1620-MW98A-20200716	0.000010	<0.000010	mg/L
					WG-1620-MW98B-20200716	0.000013	<0.000013	mg/L

Table 6

Qualified Sample Data Due to Analyte Concentrations in the Field Blanks
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020

Parameter	Field Blank ID	Blank Date (mm/dd/yyyy)	Analyte	Blank Result	Associated Sample ID	Original Result	Qualified Result	Units
SVOCs	WG-1620-FB03-20200716	07/16/2020	Phenanthrene	0.00018	WG-1620-P11-20200716	0.00024	<0.00024	mg/L
					WG-1620-DUP01-20200716	0.000026 J	<0.000026	mg/L
SVOCs	WG-1620-FB04-20200717	07/17/2020	bis(2-Ethylhexyl)phthalate (DEHP)	0.000040 J	WG-1620-MW12A-20200717	0.00013 J	<0.00013	mg/L
					WG-1620-MW12C-20200717	0.000053 J	<0.000053	mg/L
			Di-n-butylphthalate (DBP)	0.000025 J	WG-1620-MW12A-20200717	0.000042 J	<0.000042	mg/L
					WG-1620-MW12C-20200717	0.000021 J	<0.000021	mg/L
					Fluoranthene	0.000011 J	<0.000011	mg/L
Naphthalene	0.000073 J	<0.000073	mg/L					
SVOCs	WG-1620-FB05-20200720	07/20/2020	Naphthalene	0.000038 J	WG-1620-MW50A-20200720	0.00014	<0.00014	mg/L
					WG-1620-MW60B-20200720	0.00012	<0.00012	mg/L
					WG-1620-MW61A-20200720	0.000073 J	<0.000073	mg/L
					WG-1620-MW61B-20200720	0.000032 J	<0.000032	mg/L
					WG-1620-MW80B-20200720	0.000070 J	<0.000070	mg/L
VOCs	WG-1620-FB06-20200722	07/22/2020	Toluene	0.00049 J	WG-1620-MW46C-20200722	0.0014	<0.0014	mg/L
					WG-1620-MW67B-20200722	0.00036 J	<0.00036	mg/L
					WG-1620-DUP02-20200722	0.0015	<0.0015	mg/L

Table 6

Qualified Sample Data Due to Analyte Concentrations in the Field Blanks
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020

Parameter	Field Blank ID	Blank Date (mm/dd/yyyy)	Analyte	Blank Result	Associated Sample ID	Original Result	Qualified Result	Units
SVOCs	WG-1620-FB06-20200722	07/22/2020	Naphthalene	0.00011	WG-1620-MW44A-20200722	0.00016	<0.00016 JL	mg/L
					WG-1620-MW54B-20200722	0.00036	<0.00036	mg/L
					WG-1620-MW89B-20200722	0.00020	<0.00020	mg/L
					WG-1620-MW92B-20200722	0.00010	<0.00010	mg/L
					WG-1620-DUP03-20200722	0.00050	<0.00050 J	mg/L
SVOCs	WG-1620-FB09-20200727	07/27/2020	1,2-Diphenylhydrazine	0.00018 J	WG-1620-MW26A-20200727	0.00013 J	<0.00013	mg/L
			2-Methylnaphthalene	0.000066 J	WG-1620-MW68C-20200727	0.00013	<0.00013	mg/L
			Anthracene	0.00010	WG-1620-MW26A-20200727	0.00014	<0.00014	mg/L
					WG-1620-MW68A-20200727	0.000024 J	<0.000024	mg/L
					WG-1620-MW84B-20200727	0.00019	<0.00019	mg/L
			Benzo(a)anthracene	0.00013	WG-1620-MW33BR-20200727	0.00059	<0.00059	mg/L
					WG-1620-MW68C-20200727	0.00039	<0.00039	mg/L
					WG-1620-MW84A-20200727	0.000052 J	<0.000052	mg/L
			Benzo(a)pyrene	0.000060 J	WG-1620-MW26A-20200727	0.000026 J	<0.000026	mg/L
					WG-1620-MW33BR-20200727	0.00016	<0.00016	mg/L
WG-1620-MW68C-20200727	0.00014	<0.00014			mg/L			
WG-1620-MW84A-20200727	0.000042 J	<0.000042			mg/L			

Table 6

Qualified Sample Data Due to Analyte Concentrations in the Field Blanks
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020

Parameter	Field Blank ID	Blank Date (mm/dd/yyyy)	Analyte	Blank Result	Associated Sample ID	Original Result	Qualified Result	Units
SVOCs	WG-1620-FB09-20200727	07/27/2020	Chrysene	0.00010	WG-1620-MW26A-20200727	0.000041 J	<0.000041	mg/L
					WG-1620-MW68A-20200727	0.000029 J	<0.000029	mg/L
					WG-1620-MW68C-20200727	0.00030	<0.00030	mg/L
					WG-1620-MW84A-20200727	0.000045 J	<0.000045	mg/L
					WG-1620-MW84B-20200727	0.000025 J	<0.000025	mg/L
			Dibenzofuran	0.000066 J	WG-1620-MW26A-20200727	0.000030 J	<0.000030	mg/L
					WG-1620-MW68A-20200727	0.000027 J	<0.000027	mg/L
			Di-n-butylphthalate (DBP)	0.000028 J	WG-1620-MW33BR-20200727	0.000038 J	<0.000038	mg/L
					WG-1620-MW68A-20200727	0.000046 J	<0.000046	mg/L
					WG-1620-MW68C-20200727	0.000021 J	<0.000021	mg/L
					WG-1620-MW84A-20200727	0.000047 J	<0.000047	mg/L
					WG-1620-MW84B-20200727	0.000023 J	<0.000023	mg/L
			Fluoranthene	0.00035	WG-1620-MW26A-20200727	0.0017	<0.0017	mg/L
					WG-1620-MW68A-20200727	0.00014	<0.00014	mg/L
					WG-1620-MW84A-20200727	0.000038 J	<0.000038	mg/L
			Fluorene	0.00066 J	WG-1620-MW84B-20200727	0.00015	<0.00015	mg/L
					WG-1620-MW68A-20200727	0.000041 J	<0.000041	mg/L
			Naphthalene	0.00022	WG-1620-MW26A-20200727	0.000049 J	<0.000049	mg/L
					WG-1620-MW68A-20200727	0.000029 J	<0.000029	mg/L

Table 6

Qualified Sample Data Due to Analyte Concentrations in the Field Blanks
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020

Parameter	Field Blank ID	Blank Date (mm/dd/yyyy)	Analyte	Blank Result	Associated Sample ID	Original Result	Qualified Result	Units
SVOCs	WG-1620-FB09-20200727	07/27/2020	Naphthalene	0.00022	WG-1620-MW68C-20200727	0.00066	<0.00066	mg/L
					WG-1620-MW84A-20200727	0.00013	<0.00013	mg/L
			Phenanthrene	0.00032	WG-1620-MW68A-20200727	0.00011	<0.00011	mg/L
					WG-1620-MW84A-20200727	0.000024 J	<0.000024	mg/L
					WG-1620-MW84B-20200727	0.0012	<0.0012	mg/L
			Pyrene	0.00025	WG-1620-MW26A-20200727	0.00094	<0.00094	mg/L
					WG-1620-MW68A-20200727	0.000072 J	<0.000072	mg/L
					WG-1620-MW84A-20200727	0.000038 J	<0.000038	mg/L
				WG-1620-MW84B-20200727	0.000097 J	<0.000097	mg/L	
SVOCs	WG-1620-FB11-20200729	07/29/2020	Chrysene	0.000034 J	WG-1620-MW36D-20200729	0.000062 J	<0.000062	mg/L
					WG-1620-MW65D-20200729	0.000040 J	<0.000040	mg/L
			Fluoranthene	0.000019 J	WG-1620-MW65D-20200729	0.000048 J	<0.000048	mg/L
			Phenanthrene	0.000027 J	WG-1620-MW65D-20200729	0.000067 J	<0.000067	mg/L
			Pyrene	0.000020 J	WG-1620-MW36D-20200729	0.00010	<0.00010	mg/L
					WG-1620-MW65D-20200729	0.000039 J	<0.000039	mg/L

Table 6

**Qualified Sample Data Due to Analyte Concentrations in the Field Blanks
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020**

Parameter	Field Blank ID	Blank Date (mm/dd/yyyy)	Analyte	Blank Result	Associated Sample ID	Original Result	Qualified Result	Units
SVOCs	WG-1620-FB08-20200803	08/03/2020	Naphthalene	0.000033 J	WG-1620-MW59D-20200803	0.000099 J	<0.000099	mg/L
					WG-1620-DUP08-20200803	0.000049 J	<0.000049	mg/L
					WG-1620-MW66D-20200803	0.000075 J	<0.000075	mg/L

Notes:

SVOCs - Semi-volatile Organic Compounds

VOCs - Volatile Organic Compounds

< - Not detected at the associated reporting limit

J - Estimated concentration

JL - Estimated concentration; biased low

Table 7

Qualified Sample Data Due to Variability in Field Duplicate Results
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020

Parameter	Analyte	RPD	Sample ID	Qualified Result	Field Duplicate Sample ID	Qualified Result	Units
SVOCs	2,6-Dinitrotoluene	165	WG-1620-MW21C-20200716	0.0021 J	WG-1620-DUP01-20200716	<0.00020 J	mg/L
	Acenaphthene	143		<0.00010 J		0.00061 J	mg/L
VOCs	Benzene	91.7	WG-1620-MW83B-20200722	0.0070 J	WG-1620-DUP02-20200722	0.0026 J	mg/L
	Xylenes (total)	38.5		0.031 J		0.021 J	mg/L
SVOCs	2,4-Dimethylphenol	41.3	WG-1620-MW83B-20200722	0.00076 J	WG-1620-DUP02-20200722	0.00050 J	mg/L
	2-Methylnaphthalene	50.0		0.015 J		0.025 J	mg/L
	Acenaphthene	54.5		0.0080 J		0.014 J	mg/L
	Dibenzofuran	42.5		0.0050 J		0.0077 J	mg/L
	Ethylbenzene	34.8		0.027 J		0.019 J	mg/L
	Fluoranthene	40.0		0.00012 J		0.00018 J	mg/L
	Fluorene	50.0		0.0030 J		0.0050 J	mg/L
	Naphthalene	66.7		0.16 J		0.32 J	mg/L
	Phenanthrene	36.8		0.0031 J		0.0045 J	mg/L
	Phenol	101		0.00046 J		0.00015 J	mg/L
	Pyrene	36.7		0.000069 J		0.00010 J	mg/L
Metals	Arsenic	160		0.0342 J		0.00371 J	mg/L
SVOCs	Anthracene	105	WG-1620-MW54C-20200722	0.00019 J	WG-1620-DUP03-20200722	0.00061 J	mg/L
	Dibenzofuran	75.9		0.0018 J		0.0040 J	mg/L
	Naphthalene	166		0.0011 J		<0.00010 J	mg/L
	Phenanthrene	158		<0.00010 J		0.00086 J	mg/L

Table 7

Qualified Sample Data Due to Variability in Field Duplicate Results
HWPW - Site-Wide Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
July-October 2020

Parameter	Analyte	RPD	Sample ID	Qualified Result	Field Duplicate Sample ID	Qualified Result	Units
SVOCs	2,4-Dimethylphenol	32.6	WG-1620-MW68B-20200727	0.018 J	WG-1620-DUP05-20200727	0.025 J	mg/L
	2-Methylnaphthalene	128		2.9 J		0.63 J	mg/L
	Acenaphthene	125		1.0 J		0.23 J	mg/L
	Anthracene	156		0.50 J		0.061 J	mg/L
	Benzo(a)anthracene	131		0.14 J		0.015 J	mg/L
	Benzo(a)pyrene	157		0.039 J		0.0046 J	mg/L
	Chrysene	156		0.099 J		0.012 J	mg/L
	Dibenzofuran	131		1.3 J		0.27 J	mg/L
	Fluoranthene	160		1.0 J		0.11 J	mg/L
	Fluorene	129		0.80 J		0.17 J	mg/L
	Naphthalene	76.2		29 J		13 J	mg/L
	Phenanthrene	155		3.1 J		0.39 J	mg/L
	Pyrene	161		0.61 J		0.065 J	mg/L
	Metals	Arsenic		37.0		GW-1620-MW66D-20201008	0.0163 J

Notes:

RPD - Relative Percent Difference

VOCs - Volatile Organic Compounds

SVOCs - Semi-volatile Organic Compounds

J - Estimated concentration

< - Not detected at the associated reporting limit

"- " - Not Applicable

Attachment A
Laboratory NELAP Certificate



Texas Commission on Environmental Quality

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Issue Date: 5/1/2020

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Matrix: *Drinking Water*

Method EPA 1613

Analyte	AB	Analyte ID	Method ID
2,3,7,8-Tetrachlorodibenzo-p-dioxin (2,3,7,8-TCDD)	TX	9618	10120408

Method EPA 200.8

Analyte	AB	Analyte ID	Method ID
Copper	TX	1055	10014605
Lead	TX	1075	10014605



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Matrix: Non-Potable Water

Method	Analyte	AB	Analyte ID	Method ID
Method EPA 1010	Ignitability	TX	1780	10116606
Method EPA 120.1	Conductivity	TX	1610	10006403
Method EPA 1311	TCLP	TX	849	10118806
Method EPA 1312	SPLP	TX	850	10119003
Method EPA 160.4	Residue-volatile	TX	1970	10010409
Method EPA 1613	1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	TX	9516	10120408
	1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	TX	9519	10120408
	1,2,3,4,6,7,8-Heptachlorodibenzofuran (1,2,3,4,6,7,8-HpCDF)	TX	9420	10120408
	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (1,2,3,4,6,7,8-HpCDD)	TX	9426	10120408
	1,2,3,4,7,8,9-Heptachlorodibenzofuran (1,2,3,4,7,8,9-HpCDF)	TX	9423	10120408
	1,2,3,4,7,8-Hexachlorodibenzofuran (1,2,3,4,7,8-HxCDF)	TX	9471	10120408
	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (1,2,3,4,7,8-HxCDD)	TX	9453	10120408
	1,2,3,6,7,8-Hexachlorodibenzofuran (1,2,3,6,7,8-HxCDF)	TX	9474	10120408
	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (1,2,3,6,7,8-HxCDD)	TX	9456	10120408
	1,2,3,7,8,9-Hexachlorodibenzofuran (1,2,3,7,8,9-HxCDF)	TX	9477	10120408
	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (1,2,3,7,8,9-HxCDD)	TX	9459	10120408
	1,2,3,7,8-Pentachlorodibenzofuran (1,2,3,7,8-PeCDF)	TX	9543	10120408
	1,2,3,7,8-Pentachlorodibenzo-p-dioxin (1,2,3,7,8-PeCDD)	TX	9540	10120408
	2,3,4,6,7,8-Hexachlorodibenzofuran (2,3,4,6,7,8-HxCDF)	TX	9480	10120408



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Matrix: Non-Potable Water

2,3,4,7,8-Pentachlorodibenzofuran (2,3,4,7,8-PeCDF)	TX	9549	10120408
2,3,7,8-Tetrachlorodibenzofuran (2,3,7,8-TCDF)	TX	9612	10120408
2,3,7,8-Tetrachlorodibenzo-p-dioxin (2,3,7,8-TCDD)	TX	9618	10120408
Total Heptachlorodibenzofuran (Total HpCDF)	TX	9444	10120408
Total Heptachlorodibenzo-p-dioxin (Total HpCDD)	TX	9438	10120408
Total Hexachlorodibenzofuran (Total HxCDF)	TX	9483	10120408
Total Hexachlorodibenzo-p-dioxin (Total HxCDD)	TX	9468	10120408
Total Pentachlorodibenzofuran (Total PeCDF)	TX	9552	10120408
Total Pentachlorodibenzo-p-dioxin (Total PeCDD)	TX	9555	10120408
Total Tetrachlorodibenzofuran (Total TCDF)	TX	9615	10120408
Total Tetrachlorodibenzo-p-dioxin (Total TCDD)	TX	9609	10120408
Method EPA 1664			
Analyte	AB	Analyte ID	Method ID
n-Hexane Extractable Material (HEM) (O&G)	TX	1803	10127807
Method EPA 180.1			
Analyte	AB	Analyte ID	Method ID
Turbidity	TX	2055	10011606
Method EPA 200.8			
Analyte	AB	Analyte ID	Method ID
Aluminum	TX	1000	10014605
Antimony	TX	1005	10014605
Arsenic	TX	1010	10014605
Barium	TX	1015	10014605
Beryllium	TX	1020	10014605
Boron	TX	1025	10014605
Cadmium	TX	1030	10014605
Calcium	TX	1035	10014605
Chromium	TX	1040	10014605
Cobalt	TX	1050	10014605
Copper	TX	1055	10014605
Iron	TX	1070	10014605



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Matrix: Non-Potable Water

Lead	TX	1075	10014605
Magnesium	TX	1085	10014605
Manganese	TX	1090	10014605
Molybdenum	TX	1100	10014605
Nickel	TX	1105	10014605
Potassium	TX	1125	10014605
Selenium	TX	1140	10014605
Silver	TX	1150	10014605
Sodium	TX	1155	10014605
Strontium	TX	1160	10014605
Thallium	TX	1165	10014605
Tin	TX	1175	10014605
Titanium	TX	1180	10014605
Uranium	TX	3035	10014605
Vanadium	TX	1185	10014605
Zinc	TX	1190	10014605

Method EPA 245.1

Analyte	AB	Analyte ID	Method ID
Mercury	TX	1095	10036609

Method EPA 300.0

Analyte	AB	Analyte ID	Method ID
Bromide	TX	1540	10053200
Chloride	TX	1575	10053200
Fluoride	TX	1730	10053200
Nitrate as N	TX	1810	10053200
Nitrate-nitrite	TX	1820	10053200
Nitrite as N	TX	1840	10053200
Orthophosphate as P	TX	1870	10053200
Sulfate	TX	2000	10053200

Method EPA 325.1

Analyte	AB	Analyte ID	Method ID
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Matrix: Non-Potable Water

Chloride	TX	1575	10056801
Method EPA 335.1			
Analyte	AB	Analyte ID	Method ID
Amenable cyanide	TX	1510	10060001
Method EPA 335.2			
Analyte	AB	Analyte ID	Method ID
Total cyanide	TX	1645	10278203
Method EPA 335.4			
Analyte	AB	Analyte ID	Method ID
Total cyanide	TX	1645	10061402
Method EPA 350.3			
Analyte	AB	Analyte ID	Method ID
Ammonia as N	TX	1515	10064401
Method EPA 365.3			
Analyte	AB	Analyte ID	Method ID
Orthophosphate as P	TX	1870	10070801
Phosphorus	TX	1910	10070801
Method EPA 375.4			
Analyte	AB	Analyte ID	Method ID
Sulfate	TX	2000	10073800
Method EPA 376.1			
Analyte	AB	Analyte ID	Method ID
Sulfide	TX	2005	10074201
Method EPA 410.4			
Analyte	AB	Analyte ID	Method ID
Chemical oxygen demand (COD)	TX	1565	10077404
Method EPA 415.1			
Analyte	AB	Analyte ID	Method ID
Total Organic Carbon (TOC)	TX	2040	10078407
Method EPA 420.1			
Analyte	AB	Analyte ID	Method ID
Total phenolics	TX	1905	10079400



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Matrix: Non-Potable Water

Method EPA 420.4

Analyte	AB	Analyte ID	Method ID
Total phenolics	TX	1905	10080203

Method EPA 6020

Analyte	AB	Analyte ID	Method ID
Aluminum	TX	1000	10156419
Antimony	TX	1005	10156419
Arsenic	TX	1010	10156419
Barium	TX	1015	10156419
Beryllium	TX	1020	10156419
Boron	TX	1025	10156419
Cadmium	TX	1030	10156419
Calcium	TX	1035	10156419
Chromium	TX	1040	10156419
Cobalt	TX	1050	10156419
Copper	TX	1055	10156419
Iron	TX	1070	10156419
Lead	TX	1075	10156419
Lithium	TX	1080	10156419
Magnesium	TX	1085	10156419
Manganese	TX	1090	10156419
Molybdenum	TX	1100	10156419
Nickel	TX	1105	10156419
Potassium	TX	1125	10156419
Selenium	TX	1140	10156419
Silver	TX	1150	10156419
Sodium	TX	1155	10156419
Strontium	TX	1160	10156419
Thallium	TX	1165	10156419
Tin	TX	1175	10156419
Titanium	TX	1180	10156419



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Matrix: Non-Potable Water

Vanadium	TX	1185	10156419
Zinc	TX	1190	10156419
Method EPA 608			
Analyte	AB	Analyte ID	Method ID
4,4'-DDD	TX	7355	10103603
4,4'-DDE	TX	7360	10103603
4,4'-DDT	TX	7365	10103603
Aldrin	TX	7025	10103603
alpha-BHC (alpha-Hexachlorocyclohexane)	TX	7110	10103603
alpha-Chlordane	TX	7240	10103603
Aroclor-1016 (PCB-1016)	TX	8880	10103603
Aroclor-1221 (PCB-1221)	TX	8885	10103603
Aroclor-1232 (PCB-1232)	TX	8890	10103603
Aroclor-1242 (PCB-1242)	TX	8895	10103603
Aroclor-1248 (PCB-1248)	TX	8900	10103603
Aroclor-1254 (PCB-1254)	TX	8905	10103603
Aroclor-1260 (PCB-1260)	TX	8910	10103603
beta-BHC (beta-Hexachlorocyclohexane)	TX	7115	10103603
Chlordane (tech.)	TX	7250	10103603
delta-BHC (delta-Hexachlorocyclohexane)	TX	7105	10103603
Dieldrin	TX	7470	10103603
Endosulfan I	TX	7510	10103603
Endosulfan II	TX	7515	10103603
Endosulfan sulfate	TX	7520	10103603
Endrin	TX	7540	10103603
Endrin aldehyde	TX	7530	10103603
Endrin ketone	TX	7535	10103603
gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	TX	7120	10103603
gamma-Chlordane	TX	7245	10103603
Heptachlor	TX	7685	10103603



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Matrix: Non-Potable Water

Heptachlor epoxide	TX	7690	10103603
Methoxychlor	TX	7810	10103603
Toxaphene (Chlorinated camphene)	TX	8250	10103603

Method EPA 624

Analyte	AB	Analyte ID	Method ID
1,1,1-Trichloroethane	TX	5160	10107207
1,1,1,2-Tetrachloroethane	TX	5110	10107207
1,1,2-Trichloroethane	TX	5165	10107207
1,1-Dichloroethane	TX	4630	10107207
1,1-Dichloroethylene	TX	4640	10107207
1,2-Dibromoethane (EDB, Ethylene dibromide)	TX	4585	10107207
1,2-Dichlorobenzene	TX	4610	10107207
1,2-Dichloroethane (Ethylene dichloride)	TX	4635	10107207
1,2-Dichloropropane	TX	4655	10107207
1,3-Dichlorobenzene	TX	4615	10107207
1,4-Dichlorobenzene	TX	4620	10107207
2-Butanone (Methyl ethyl ketone, MEK)	TX	4410	10107207
2-Chloroethyl vinyl ether	TX	4500	10107207
Acetone (2-Propanone)	TX	4315	10107207
Acrolein (Propenal)	TX	4325	10107207
Acrylonitrile	TX	4340	10107207
Benzene	TX	4375	10107207
Bromodichloromethane	TX	4395	10107207
Bromoform	TX	4400	10107207
Carbon tetrachloride	TX	4455	10107207
Chlorobenzene	TX	4475	10107207
Chlorodibromomethane	TX	4575	10107207
Chloroethane (Ethyl chloride)	TX	4485	10107207
Chloroform	TX	4505	10107207
cis-1,2-Dichloroethylene	TX	4645	10107207



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Matrix: Non-Potable Water

cis-1,3-Dichloropropene	TX	4680	10107207
Ethylbenzene	TX	4765	10107207
m+p-xylene	TX	5240	10107207
Methyl bromide (Bromomethane)	TX	4950	10107207
Methyl chloride (Chloromethane)	TX	4960	10107207
Methyl tert-butyl ether (MTBE)	TX	5000	10107207
Methylene chloride (Dichloromethane)	TX	4975	10107207
Naphthalene	TX	5005	10107207
o-Xylene	TX	5250	10107207
Tetrachloroethylene (Perchloroethylene)	TX	5115	10107207
Toluene	TX	5140	10107207
trans-1,2-Dichloroethylene	TX	4700	10107207
trans-1,3-Dichloropropylene	TX	4685	10107207
Trichloroethene (Trichloroethylene)	TX	5170	10107207
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	TX	5175	10107207
Vinyl chloride	TX	5235	10107207
Xylene (total)	TX	5260	10107207

Method EPA 625

Analyte	AB	Analyte ID	Method ID
1,2,4,5-Tetrachlorobenzene	TX	6715	10107401
1,2,4-Trichlorobenzene	TX	5155	10107401
1,2-Dichlorobenzene	TX	4610	10107401
1,2-Diphenylhydrazine	TX	6220	10107401
1,3-Dichlorobenzene	TX	4615	10107401
1,4-Dichlorobenzene	TX	4620	10107401
2,2'-Oxybis(1-chloropropane) (bis(2-Chloro-1-methylethyl)ether)	TX	4659	10107401
2,4,5-Trichlorophenol	TX	6835	10107401
2,4,6-Trichlorophenol	TX	6840	10107401
2,4-Dichlorophenol	TX	6000	10107401
2,4-Dimethylphenol	TX	6130	10107401



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Matrix: Non-Potable Water

2,4-Dinitrophenol	TX	6175	10107401
2,4-Dinitrotoluene (2,4-DNT)	TX	6185	10107401
2,6-Dinitrotoluene (2,6-DNT)	TX	6190	10107401
2-Chloronaphthalene	TX	5795	10107401
2-Chlorophenol	TX	5800	10107401
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	TX	6360	10107401
2-Methylphenol (o-Cresol)	TX	6400	10107401
2-Nitrophenol	TX	6490	10107401
3,3'-Dichlorobenzidine	TX	5945	10107401
4-Bromophenyl phenyl ether (BDE-3)	TX	5660	10107401
4-Chloro-3-methylphenol	TX	5700	10107401
4-Chlorophenyl phenylether	TX	5825	10107401
4-Methylphenol (p-Cresol)	TX	6410	10107401
4-Nitrophenol	TX	6500	10107401
Acenaphthene	TX	5500	10107401
Acenaphthylene	TX	5505	10107401
Anthracene	TX	5555	10107401
Benzidine	TX	5595	10107401
Benzo(a)anthracene	TX	5575	10107401
Benzo(a)pyrene	TX	5580	10107401
Benzo(b)fluoranthene	TX	5585	10107401
Benzo(g,h,i)perylene	TX	5590	10107401
Benzo(k)fluoranthene	TX	5600	10107401
bis(2-Chloroethoxy)methane	TX	5760	10107401
bis(2-Chloroethyl) ether	TX	5765	10107401
bis(2-Ethylhexyl) phthalate (Di(2-Ethylhexyl) phthalate, DEHP)	TX	6065	10107401
Butyl benzyl phthalate	TX	5670	10107401
Chrysene	TX	5855	10107401
Dibenz(a,h) anthracene	TX	5895	10107401
Diethyl phthalate	TX	6070	10107401



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Matrix: Non-Potable Water

Dimethyl phthalate	TX	6135	10107401
Di-n-butyl phthalate	TX	5925	10107401
Di-n-octyl phthalate	TX	6200	10107401
Fluoranthene	TX	6265	10107401
Fluorene	TX	6270	10107401
Hexachlorobenzene	TX	6275	10107401
Hexachlorobutadiene	TX	4835	10107401
Hexachlorocyclopentadiene	TX	6285	10107401
Hexachloroethane	TX	4840	10107401
Indeno(1,2,3-cd) pyrene	TX	6315	10107401
Isophorone	TX	6320	10107401
Naphthalene	TX	5005	10107401
Nitrobenzene	TX	5015	10107401
n-Nitrosodiethylamine	TX	6525	10107401
n-Nitrosodimethylamine	TX	6530	10107401
n-Nitrosodi-n-butylamine	TX	5025	10107401
n-Nitrosodi-n-propylamine	TX	6545	10107401
n-Nitrosodiphenylamine	TX	6535	10107401
Pentachlorobenzene	TX	6590	10107401
Pentachlorophenol	TX	6605	10107401
Phenanthrene	TX	6615	10107401
Phenol	TX	6625	10107401
Pyrene	TX	6665	10107401
Pyridine	TX	5095	10107401
Method EPA 7196			
Analyte	AB	Analyte ID	Method ID
Chromium (VI)	TX	1045	10162206
Method EPA 7470			
Analyte	AB	Analyte ID	Method ID
Mercury	TX	1095	10165603



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Expiration Date: 4/30/2021
Issue Date: 5/1/2020

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Matrix: Non-Potable Water

Method EPA 8011

Analyte	AB	Analyte ID	Method ID
1,2,3-Trichloropropane	TX	5180	10173009
1,2-Dibromo-3-chloropropane (DBCP)	TX	4570	10173009
1,2-Dibromoethane (EDB, Ethylene dibromide)	TX	4585	10173009

Method EPA 8015

Analyte	AB	Analyte ID	Method ID
Diesel range organics (DRO)	TX	9369	10173203
Ethanol	TX	4750	10173203
Ethylene glycol	TX	4785	10173203
Gasoline range organics (GRO)	TX	9408	10173203
Isobutyl alcohol (2-Methyl-1-propanol)	TX	4875	10173203
Isopropyl alcohol (2-Propanol, Isopropanol)	TX	4895	10173203
Methanol	TX	4930	10173203
n-Butyl alcohol (1-Butanol, n-Butanol)	TX	4425	10173203
n-Propanol (1-Propanol)	TX	5055	10173203
Propylene Glycol	TX	6657	10173203
tert-Butyl alcohol	TX	4420	10173203

Method EPA 8081

Analyte	AB	Analyte ID	Method ID
4,4'-DDD	TX	7355	10178402
4,4'-DDE	TX	7360	10178402
4,4'-DDT	TX	7365	10178402
Aldrin	TX	7025	10178402
alpha-BHC (alpha-Hexachlorocyclohexane)	TX	7110	10178402
alpha-Chlordane	TX	7240	10178402
beta-BHC (beta-Hexachlorocyclohexane)	TX	7115	10178402
Chlordane (tech.)	TX	7250	10178402
delta-BHC (delta-Hexachlorocyclohexane)	TX	7105	10178402
Dieldrin	TX	7470	10178402
Endosulfan I	TX	7510	10178402



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Matrix: Non-Potable Water

Endosulfan II	TX	7515	10178402
Endosulfan sulfate	TX	7520	10178402
Endrin	TX	7540	10178402
Endrin aldehyde	TX	7530	10178402
Endrin ketone	TX	7535	10178402
gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	TX	7120	10178402
gamma-Chlordane	TX	7245	10178402
Heptachlor	TX	7685	10178402
Heptachlor epoxide	TX	7690	10178402
Hexachlorobenzene	TX	6275	10178402
Methoxychlor	TX	7810	10178402
Mirex	TX	7870	10178402
Toxaphene (Chlorinated camphene)	TX	8250	10178402

Method EPA 8082

Analyte	AB	Analyte ID	Method ID
Aroclor-1016 (PCB-1016)	TX	8880	10179201
Aroclor-1221 (PCB-1221)	TX	8885	10179201
Aroclor-1232 (PCB-1232)	TX	8890	10179201
Aroclor-1242 (PCB-1242)	TX	8895	10179201
Aroclor-1248 (PCB-1248)	TX	8900	10179201
Aroclor-1254 (PCB-1254)	TX	8905	10179201
Aroclor-1260 (PCB-1260)	TX	8910	10179201
PCBs (total)	TX	8870	10179201

Method EPA 8151

Analyte	AB	Analyte ID	Method ID
2,4,5-T	TX	8655	10183003
2,4-D	TX	8545	10183003
2,4-DB	TX	8560	10183003
Dalapon	TX	8555	10183003
Dicamba	TX	8595	10183003
Dichloroprop (Dichloroprop, Weedone)	TX	8605	10183003



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Matrix: Non-Potable Water

Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	TX	8620	10183003
MCPA	TX	7775	10183003
MCPP	TX	7780	10183003
Silvex (2,4,5-TP)	TX	8650	10183003

Method EPA 8260

Analyte	AB	Analyte ID	Method ID
1,1,1,2-Tetrachloroethane	TX	5105	10184404
1,1,1-Trichloroethane	TX	5160	10184404
1,1,2,2-Tetrachloroethane	TX	5110	10184404
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	TX	5195	10184404
1,1,2-Trichloroethane	TX	5165	10184404
1,1-Dichloroethane	TX	4630	10184404
1,1-Dichloroethylene	TX	4640	10184404
1,1-Dichloropropene	TX	4670	10184404
1,2,3-Trichlorobenzene	TX	5150	10184404
1,2,3-Trichloropropane	TX	5180	10184404
1,2,4-Trichlorobenzene	TX	5155	10184404
1,2,4-Trimethylbenzene	TX	5210	10184404
1,2-Dibromo-3-chloropropane (DBCP)	TX	4570	10184404
1,2-Dibromoethane (EDB, Ethylene dibromide)	TX	4585	10184404
1,2-Dichlorobenzene	TX	4610	10184404
1,2-Dichloroethane (Ethylene dichloride)	TX	4635	10184404
1,2-Dichloropropane	TX	4655	10184404
1,3,5-Trimethylbenzene	TX	5215	10184404
1,3-Dichlorobenzene	TX	4615	10184404
1,3-Dichloropropane	TX	4660	10184404
1,4-Dichlorobenzene	TX	4620	10184404
1,4-Dioxane (1,4-Diethyleneoxide)	TX	4735	10184404
1-Chlorohexane	TX	4510	10184404
1-Propanol	TX	5060	10184404



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Matrix: Non-Potable Water

2,2-Dichloropropane	TX	4665	10184404
2-Butanone (Methyl ethyl ketone, MEK)	TX	4410	10184404
2-Chloroethyl vinyl ether	TX	4500	10184404
2-Chlorotoluene	TX	4535	10184404
2-Hexanone (MBK)	TX	4860	10184404
2-Pentanone	TX	5045	10184404
4-Chlorotoluene	TX	4540	10184404
4-Isopropyltoluene (p-Cymene)	TX	4915	10184404
4-Methyl-2-pentanone (MIBK)	TX	4995	10184404
Acetone (2-Propanone)	TX	4315	10184404
Acetonitrile	TX	4320	10184404
Acrolein (Propenal)	TX	4325	10184404
Acrylonitrile	TX	4340	10184404
Allyl alcohol	TX	4350	10184404
Allyl chloride (3-Chloropropene)	TX	4355	10184404
Benzene	TX	4375	10184404
Benzyl chloride	TX	5635	10184404
Bromobenzene	TX	4385	10184404
Bromochloromethane	TX	4390	10184404
Bromodichloromethane	TX	4395	10184404
Bromoform	TX	4400	10184404
Carbon disulfide	TX	4450	10184404
Carbon tetrachloride	TX	4455	10184404
Chlorobenzene	TX	4475	10184404
Chlorodibromomethane	TX	4575	10184404
Chloroethane (Ethyl chloride)	TX	4485	10184404
Chloroform	TX	4505	10184404
Chloroprene (2-Chloro-1,3-butadiene)	TX	4525	10184404
cis-1,2-Dichloroethylene	TX	4645	10184404
cis-1,3-Dichloropropene	TX	4680	10184404



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Matrix: Non-Potable Water

Dibromofluoromethane	TX	4590	10184404
Dibromomethane (Methylene bromide)	TX	4595	10184404
Dichlorodifluoromethane (Freon-12)	TX	4625	10184404
Diethyl ether	TX	4725	10184404
Di-isopropylether (DIPE)	TX	9375	10184404
Epichlorohydrin (1-Chloro-2,3-epoxypropane)	TX	4745	10184404
Ethanol	TX	4750	10184404
Ethyl acetate	TX	4755	10184404
Ethyl methacrylate	TX	4810	10184404
Ethylbenzene	TX	4765	10184404
Ethyl-t-butylether (ETBE) (2-Ethoxy-2-methylpropane)	TX	4770	10184404
Hexachlorobutadiene	TX	4835	10184404
Iodomethane (Methyl iodide)	TX	4870	10184404
Isobutyl alcohol (2-Methyl-1-propanol)	TX	4875	10184404
Isopropyl alcohol (2-Propanol, Isopropanol)	TX	4895	10184404
Isopropylbenzene (Cumene)	TX	4900	10184404
m+p-xylene	TX	5240	10184404
Methacrylonitrile	TX	4925	10184404
Methyl acetate	TX	4940	10184404
Methyl acrylate	TX	4945	10184404
Methyl bromide (Bromomethane)	TX	4950	10184404
Methyl chloride (Chloromethane)	TX	4960	10184404
Methyl methacrylate	TX	4990	10184404
Methyl tert-butyl ether (MTBE)	TX	5000	10184404
Methylcyclohexane	TX	4965	10184404
Methylene chloride (Dichloromethane)	TX	4975	10184404
Naphthalene	TX	5005	10184404
n-Butyl alcohol (1-Butanol, n-Butanol)	TX	4425	10184404
n-Butylbenzene	TX	4435	10184404
n-Propylbenzene	TX	5090	10184404



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Matrix: Non-Potable Water

o-Xylene	TX	5250	10184404
Propionitrile (Ethyl cyanide)	TX	5080	10184404
Pyridine	TX	5095	10184404
sec-Butylbenzene	TX	4440	10184404
Styrene	TX	5100	10184404
T-amylmethylether (TAME)	TX	4370	10184404
tert-Butyl alcohol	TX	4420	10184404
tert-Butylbenzene	TX	4445	10184404
Tetrachloroethylene (Perchloroethylene)	TX	5115	10184404
Toluene	TX	5140	10184404
trans-1,2-Dichloroethylene	TX	4700	10184404
trans-1,3-Dichloropropylene	TX	4685	10184404
trans-1,4-Dichloro-2-butene	TX	4605	10184404
Trichloroethene (Trichloroethylene)	TX	5170	10184404
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	TX	5175	10184404
Vinyl acetate	TX	5225	10184404
Vinyl chloride	TX	5235	10184404
Xylene (total)	TX	5260	10184404

Method EPA 8270

Analyte	AB	Analyte ID	Method ID
1,2,4,5-Tetrachlorobenzene	TX	6715	10185203
1,2,4-Trichlorobenzene	TX	5155	10185203
1,2-Dibromo-3-chloropropane (DBCP)	TX	4570	10185203
1,2-Dichlorobenzene	TX	4610	10185203
1,2-Dinitrobenzene	TX	6155	10185203
1,2-Diphenylhydrazine	TX	6220	10185203
1,3,5-Trinitrobenzene (1,3,5-TNB)	TX	6885	10185203
1,3-Dichlorobenzene	TX	4615	10185203
1,3-Dinitrobenzene (1,3-DNB)	TX	6160	10185203
1,4-Dichlorobenzene	TX	4620	10185203



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Matrix: Non-Potable Water

1,4-Dinitrobenzene	TX	6165	10185203
1,4-Naphthoquinone	TX	6420	10185203
1,4-Phenylenediamine	TX	6630	10185203
1-Chloronaphthalene	TX	5790	10185203
1-Naphthylamine	TX	6425	10185203
2,2'-Oxybis(1-chloropropane) (bis(2-Chloro-1-methylethyl)ether)	TX	4659	10185203
2,3,4,6-Tetrachlorophenol	TX	6735	10185203
2,4,5-Trichlorophenol	TX	6835	10185203
2,4,5-Trimethylaniline	TX	6880	10185203
2,4,6-Trichlorophenol	TX	6840	10185203
2,4-Diaminotoluene	TX	5880	10185203
2,4-Dichlorophenol	TX	6000	10185203
2,4-Dimethylphenol	TX	6130	10185203
2,4-Dinitrophenol	TX	6175	10185203
2,4-Dinitrotoluene (2,4-DNT)	TX	6185	10185203
2,6-Dichlorophenol	TX	6005	10185203
2,6-Dinitrotoluene (2,6-DNT)	TX	6190	10185203
2-Acetylamino fluorene	TX	5515	10185203
2-Chloronaphthalene	TX	5795	10185203
2-Chlorophenol	TX	5800	10185203
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	TX	6360	10185203
2-Methylaniline (o-Toluidine)	TX	5145	10185203
2-Methylnaphthalene	TX	6385	10185203
2-Methylphenol (o-Cresol)	TX	6400	10185203
2-Naphthylamine	TX	6430	10185203
2-Nitroaniline	TX	6460	10185203
2-Nitrophenol	TX	6490	10185203
2-Picoline (2-Methylpyridine)	TX	5050	10185203
3,3'-Dichlorobenzidine	TX	5945	10185203
3,3'-Dimethylbenzidine	TX	6120	10185203



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Matrix: Non-Potable Water

3-Methylcholanthrene	TX	6355	10185203
3-Methylphenol (m-Cresol)	TX	6405	10185203
3-Nitroaniline	TX	6465	10185203
4-Aminobiphenyl	TX	5540	10185203
4-Bromophenyl phenyl ether (BDE-3)	TX	5660	10185203
4-Chloro-3-methylphenol	TX	5700	10185203
4-Chloroaniline	TX	5745	10185203
4-Chlorophenyl phenylether	TX	5825	10185203
4-Dimethyl aminoazobenzene	TX	6105	10185203
4-Methylphenol (p-Cresol)	TX	6410	10185203
4-Nitroaniline	TX	6470	10185203
4-Nitrobiphenyl	TX	6480	10185203
4-Nitrophenol	TX	6500	10185203
4-Nitroquinoline-1-oxide	TX	6510	10185203
5-Chloro-2-methylaniline	TX	5695	10185203
5-Nitro-o-toluidine	TX	6570	10185203
7,12-Dimethylbenz(a) anthracene	TX	6115	10185203
a-a-Dimethylphenethylamine	TX	6125	10185203
Acenaphthene	TX	5500	10185203
Acenaphthylene	TX	5505	10185203
Acetophenone	TX	5510	10185203
Aniline	TX	5545	10185203
Anthracene	TX	5555	10185203
Aramite	TX	5560	10185203
Atrazine	TX	7065	10185203
Azinphos-methyl (Guthion)	TX	7075	10185203
Azobenzene	TX	5562	10185203
Benzenethiol (Thiophenol)	TX	6750	10185203
Benzidine	TX	5595	10185203
Benzo(a)anthracene	TX	5575	10185203



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Matrix: Non-Potable Water

Benzo(a)pyrene	TX	5580	10185203
Benzo(b)fluoranthene	TX	5585	10185203
Benzo(e)pyrene	TX	5605	10185203
Benzo(g,h,i)perylene	TX	5590	10185203
Benzo(k)fluoranthene	TX	5600	10185203
Benzoic acid	TX	5610	10185203
Benzyl alcohol	TX	5630	10185203
Biphenyl	TX	5640	10185203
bis(2-Chloroethoxy)methane	TX	5760	10185203
bis(2-Chloroethyl) ether	TX	5765	10185203
bis(2-Ethylhexyl) phthalate (Di(2-Ethylhexyl) phthalate, DEHP)	TX	6065	10185203
Butyl benzyl phthalate	TX	5670	10185203
Caprolactam	TX	7180	10185203
Captan	TX	7190	10185203
Carbaryl (Sevin)	TX	7195	10185203
Carbazole	TX	5680	10185203
Carbophenothion	TX	7220	10185203
Chlorobenzilate	TX	7260	10185203
Chrysene	TX	5855	10185203
Coumaphos	TX	7315	10185203
Demeton	TX	7390	10185203
Demeton	TX	7390	10185203
Demeton-o	TX	7395	10185203
Demeton-s	TX	7385	10185203
Diallate	TX	7405	10185203
Dibenz(a,h) anthracene	TX	5895	10185203
Dibenz(a,j) acridine	TX	5900	10185203
Dibenzofuran	TX	5905	10185203
Dichlorovos (DDVP, Dichlorvos)	TX	8610	10185203
Diethyl phthalate	TX	6070	10185203



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Matrix: Non-Potable Water

Dimethoate	TX	7475	10185203
Dimethoate	TX	7475	10185203
Dimethyl phthalate	TX	6135	10185203
Di-n-butyl phthalate	TX	5925	10185203
Di-n-octyl phthalate	TX	6200	10185203
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	TX	8620	10185203
Dioxathion	TX	7495	10185203
Diphenylamine	TX	6205	10185203
Disulfoton	TX	8625	10185203
Ethion	TX	7565	10185203
Ethyl methanesulfonate	TX	6260	10185203
Famphur	TX	7580	10185203
Fluoranthene	TX	6265	10185203
Fluorene	TX	6270	10185203
Hexachlorobenzene	TX	6275	10185203
Hexachlorobutadiene	TX	4835	10185203
Hexachlorocyclopentadiene	TX	6285	10185203
Hexachloroethane	TX	4840	10185203
Hexachlorophene	TX	6290	10185203
Hexachloropropene	TX	6295	10185203
Indeno(1,2,3-cd) pyrene	TX	6315	10185203
Isodrin	TX	7725	10185203
Isophorone	TX	6320	10185203
Isosafrole	TX	6325	10185203
Kepone	TX	7740	10185203
Maleic anhydride	TX	6335	10185203
Methapyrilene	TX	6345	10185203
Methyl methanesulfonate	TX	6375	10185203
Methyl parathion (Parathion, methyl)	TX	7825	10185203
Mevinphos	TX	7850	10185203



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Matrix: Non-Potable Water

Naled	TX	7905	10185203
Naphthalene	TX	5005	10185203
Nitrobenzene	TX	5015	10185203
n-Nitrosodiethylamine	TX	6525	10185203
n-Nitrosodimethylamine	TX	6530	10185203
n-Nitrosodi-n-butylamine	TX	5025	10185203
n-Nitrosodi-n-propylamine	TX	6545	10185203
n-Nitrosodiphenylamine	TX	6535	10185203
n-Nitrosomethylethylamine	TX	6550	10185203
n-Nitrosomorpholine	TX	6555	10185203
n-Nitrosopiperidine	TX	6560	10185203
n-Nitrosopyrrolidine	TX	6565	10185203
o,o,o-Triethyl phosphorothioate	TX	8290	10185203
o-Anisidine	TX	5550	10185203
Parathion, ethyl	TX	7955	10185203
p-Cresidine	TX	5860	10185203
Pentachlorobenzene	TX	6590	10185203
Pentachloronitrobenzene (PCNB)	TX	6600	10185203
Pentachlorophenol	TX	6605	10185203
Phenacetin	TX	6610	10185203
Phenanthrene	TX	6615	10185203
Phenol	TX	6625	10185203
Phorate	TX	7985	10185203
Phosmet (Imidan)	TX	8000	10185203
Phthalic anhydride	TX	6640	10185203
Pronamide (Kerb)	TX	6650	10185203
Pyrene	TX	6665	10185203
Pyridine	TX	5095	10185203
Quinoline	TX	6670	10185203
Resorcinol	TX	6680	10185203



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Matrix: Non-Potable Water

Safrole	TX	6685	10185203
Sulfotepp	TX	8155	10185203
Terbufos	TX	8185	10185203
Tetrachlorvinphos (Stirophos, Gardona)	TX	8197	10185203
Thionazin (Zinophos)	TX	8235	10185203
Toluene diisocyanate	TX	6775	10185203
Trifluralin (Treflan)	TX	8295	10185203

Method EPA 8290

Analyte	AB	Analyte ID	Method ID
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	TX	9516	10187209
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	TX	9519	10187209
1,2,3,4,6,7,8-Heptachlorodibenzofuran (1,2,3,4,6,7,8-HpCDF)	TX	9420	10187209
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (1,2,3,4,6,7,8-HpCDD)	TX	9426	10187209
1,2,3,4,7,8,9-Heptachlorodibenzofuran (1,2,3,4,7,8,9-HpCDF)	TX	9423	10187209
1,2,3,4,7,8-Hexachlorodibenzofuran (1,2,3,4,7,8-HxCDF)	TX	9471	10187209
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (1,2,3,4,7,8-HxCDD)	TX	9453	10187209
1,2,3,6,7,8-Hexachlorodibenzofuran (1,2,3,6,7,8-HxCDF)	TX	9474	10187209
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (1,2,3,6,7,8-HxCDD)	TX	9456	10187209
1,2,3,7,8,9-Hexachlorodibenzofuran (1,2,3,7,8,9-HxCDF)	TX	9477	10187209
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (1,2,3,7,8,9-HxCDD)	TX	9459	10187209
1,2,3,7,8-Pentachlorodibenzofuran (1,2,3,7,8-PeCDF)	TX	9543	10187209
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (1,2,3,7,8-PeCDD)	TX	9540	10187209
2,3,4,6,7,8-Hexachlorodibenzofuran (2,3,4,6,7,8-HxCDF)	TX	9480	10187209
2,3,4,7,8-Pentachlorodibenzofuran (2,3,4,7,8-PeCDF)	TX	9549	10187209
2,3,7,8-Tetrachlorodibenzofuran (2,3,7,8-TCDF)	TX	9612	10187209
2,3,7,8-Tetrachlorodibenzo-p-dioxin (2,3,7,8-TCDD)	TX	9618	10187209
Total Heptachlorodibenzofuran (Total HpCDF)	TX	9444	10187209
Total Heptachlorodibenzo-p-dioxin (Total HpCDD)	TX	9438	10187209
Total Hexachlorodibenzofuran (Total HxCDF)	TX	9483	10187209
Total Hexachlorodibenzo-p-dioxin (Total HxCDD)	TX	9468	10187209



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Matrix: Non-Potable Water

Total Pentachlorodibenzofuran (Total PeCDF)	TX	9552	10187209
Total Pentachlorodibenzo-p-dioxin (Total PeCDD)	TX	9555	10187209
Total Tetrachlorodibenzofuran (Total TCDF)	TX	9615	10187209
Total Tetrachlorodibenzo-p-dioxin (Total TCDD)	TX	9609	10187209
Method EPA 8316			
Analyte	AB	Analyte ID	Method ID
Acrylamide	TX	4330	10188202
Method EPA 8330			
Analyte	AB	Analyte ID	Method ID
1,3,5-Trinitrobenzene (1,3,5-TNB)	TX	6885	10189807
1,3-Dinitrobenzene (1,3-DNB)	TX	6160	10189807
2,4,6-Trinitrotoluene (2,4,6-TNT)	TX	9651	10189807
2,4-Dinitrotoluene (2,4-DNT)	TX	6185	10189807
2,6-Dinitrotoluene (2,6-DNT)	TX	6190	10189807
2-Amino-4,6-dinitrotoluene (2-am-dnt)	TX	9303	10189807
2-Nitrotoluene	TX	9507	10189807
3-Nitrotoluene	TX	9510	10189807
4-Amino-2,6-dinitrotoluene (4-am-dnt)	TX	9306	10189807
4-Nitrotoluene	TX	9513	10189807
Methyl-2,4,6-trinitrophenylnitramine (tetryl)	TX	6415	10189807
Nitrobenzene	TX	5015	10189807
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	TX	9522	10189807
RDX (hexahydro-1,3,5-trinitro-1,3,5-triazine)	TX	9432	10189807
Method EPA 9014			
Analyte	AB	Analyte ID	Method ID
Amenable cyanide	TX	1510	10193803
Total cyanide	TX	1645	10193803
Method EPA 9038			
Analyte	AB	Analyte ID	Method ID
Sulfate	TX	2000	10196608



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Matrix: Non-Potable Water

Method	Analyte	AB	Analyte ID	Method ID
EPA 9040	pH	TX	1900	10196802
EPA 9050	Conductivity	TX	1610	10198604
EPA 9056	Bromide	TX	1540	10199209
	Chloride	TX	1575	10199209
	Fluoride	TX	1730	10199209
	Nitrate as N	TX	1810	10199209
	Nitrate-nitrite	TX	1820	10199209
	Nitrite as N	TX	1840	10199209
	Orthophosphate as P	TX	1870	10199209
	Sulfate	TX	2000	10199209
EPA 9060	Total Organic Carbon (TOC)	TX	2040	10200201
EPA 9065	Total phenolics	TX	1905	10200405
EPA 9066	Total phenolics	TX	1905	10200609
EPA 9250	Chloride	TX	1575	10207202
EPA RSK 175	2-methylpropane (Isobutane)	TX	4942	10212905



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Matrix: Non-Potable Water

Ethane	TX	4747	10212905
Ethene	TX	4752	10212905
Methane	TX	4926	10212905
n-Butane	TX	5007	10212905
n-Propane	TX	5029	10212905
Method HACH 8000			
Analyte	AB	Analyte ID	Method ID
Chemical oxygen demand (COD)	TX	1565	60003001
Method SM 2120 B			
Analyte	AB	Analyte ID	Method ID
Color	TX	1605	20223807
Method SM 2310 B (4a)			
Analyte	AB	Analyte ID	Method ID
Acidity, as CaCO ₃	TX	1500	20002806
Method SM 2320 B			
Analyte	AB	Analyte ID	Method ID
Alkalinity as CaCO ₃	TX	1505	20045005
Method SM 2340 B			
Analyte	AB	Analyte ID	Method ID
Total hardness as CaCO ₃	TX	1755	20046008
Method SM 2510 B			
Analyte	AB	Analyte ID	Method ID
Conductivity	TX	1610	20048004
Method SM 2540 B			
Analyte	AB	Analyte ID	Method ID
Residue-total (total solids)	TX	1950	20004608
Method SM 2540 C			
Analyte	AB	Analyte ID	Method ID
Residue-filterable (TDS)	TX	1955	20049803
Method SM 2540 D			
Analyte	AB	Analyte ID	Method ID



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Matrix: Non-Potable Water

Residue-nonfilterable (TSS)	TX	1960	20004802
Method SM 3500-Cr B			
Analyte Chromium (VI)	AB TX	Analyte ID 1045	Method ID 20065809
Method SM 4500-CI F			
Analyte Total residual chlorine	AB TX	Analyte ID 1940	Method ID 20080482
Method SM 4500-Cl ⁻ E			
Analyte Chloride	AB TX	Analyte ID 1575	Method ID 20019209
Method SM 4500-CN ⁻ C			
Analyte Total cyanide	AB TX	Analyte ID 1645	Method ID 20020808
Method SM 4500-CN ⁻ E			
Analyte Total cyanide	AB TX	Analyte ID 1645	Method ID 20021209
Method SM 4500-CN ⁻ G			
Analyte Amenable cyanide	AB TX	Analyte ID 1510	Method ID 20021607
Method SM 4500-H+ B			
Analyte pH	AB TX	Analyte ID 1900	Method ID 20104603
Method SM 4500-NH3 D			
Analyte Ammonia as N	AB TX	Analyte ID 1515	Method ID 20108809
Kjeldahl Nitrogen (Total Kjeldahl Nitrogen-TKN)	TX	1790	20108809
Method SM 4500-NH3 F			
Analyte Ammonia as N	AB TX	Analyte ID 1515	Method ID 20023001
Method SM 4500-O G			
Analyte Oxygen, dissolved	AB TX	Analyte ID 1880	Method ID 20025405



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Matrix: Non-Potable Water

Method	Analyte	AB	Analyte ID	Method ID
Method SM 4500-P E				
	Orthophosphate as P	TX	1870	20025803
	Phosphorus	TX	1910	20025803
Method SM 4500-S2 ⁻ D				
	Sulfide	TX	2005	20125400
Method SM 4500-S2 ⁻ F				
	Sulfide	TX	2005	20126209
Method SM 4500-SiO2 D				
	Silica as SiO2	TX	1990	20127202
Method SM 4500-SO3 ⁻ B				
	Sulfite	TX	2015	20026806
Method SM 5210 B				
	Biochemical oxygen demand (BOD)	TX	1530	20027401
	Carbonaceous BOD, CBOD	TX	1555	20027401
Method SM 5310 B				
	Total Organic Carbon (TOC)	TX	2040	20137206
Method SM 5310 C				
	Total Organic Carbon (TOC)	TX	2040	20138209
Method SM 5540 C				
	Surfactants - MBAS	TX	2025	20144405
Method TCEQ 1005				
	Total Petroleum Hydrocarbons (TPH)	TX	2050	90019208



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Matrix: Solid & Chemical Materials

Method ASTM D2216

Analyte	AB	Analyte ID	Method ID
Moisture	TX	10337	ASTM D2216-05

Method EPA 1010

Analyte	AB	Analyte ID	Method ID
Ignitability	TX	1780	10116606

Method EPA 1030

Analyte	AB	Analyte ID	Method ID
Ignitability	TX	1780	10117201

Method EPA 1311

Analyte	AB	Analyte ID	Method ID
TCLP	TX	849	10118806

Method EPA 1312

Analyte	AB	Analyte ID	Method ID
SPLP	TX	850	10119003

Method EPA 200.8

Analyte	AB	Analyte ID	Method ID
Uranium	TX	3035	10014605

Method EPA 300.0

Analyte	AB	Analyte ID	Method ID
Bromide	TX	1540	10053200
Chloride	TX	1575	10053200
Fluoride	TX	1730	10053200
Nitrate as N	TX	1810	10053200
Nitrate-nitrite	TX	1820	10053200
Nitrite as N	TX	1840	10053200
Orthophosphate as P	TX	1870	10053200
Sulfate	TX	2000	10053200

Method EPA 310.1

Analyte	AB	Analyte ID	Method ID
Alkalinity as CaCO3	TX	1505	10054805



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Matrix: Solid & Chemical Materials

Method EPA 350.3

Analyte	AB	Analyte ID	Method ID
Ammonia as N	TX	1515	10064401

Method EPA 365.3

Analyte	AB	Analyte ID	Method ID
Orthophosphate as P	TX	1870	10070801
Phosphorus	TX	1910	10070801

Method EPA 6020

Analyte	AB	Analyte ID	Method ID
Aluminum	TX	1000	10156204
Antimony	TX	1005	10156204
Arsenic	TX	1010	10156204
Barium	TX	1015	10156204
Beryllium	TX	1020	10156204
Boron	TX	1025	10156204
Cadmium	TX	1030	10156204
Calcium	TX	1035	10156204
Chromium	TX	1040	10156204
Cobalt	TX	1050	10156204
Copper	TX	1055	10156204
Iron	TX	1070	10156204
Lead	TX	1075	10156204
Lithium	TX	1080	10156204
Magnesium	TX	1085	10156204
Manganese	TX	1090	10156204
Molybdenum	TX	1100	10156204
Nickel	TX	1105	10156204
Potassium	TX	1125	10156204
Selenium	TX	1140	10156204
Silver	TX	1150	10156204
Sodium	TX	1155	10156204



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Matrix: Solid & Chemical Materials

Strontium	TX	1160	10156204
Thallium	TX	1165	10156204
Tin	TX	1175	10156204
Titanium	TX	1180	10156204
Vanadium	TX	1185	10156204
Zinc	TX	1190	10156204
Method EPA 7196			
Analyte	AB	Analyte ID	Method ID
Chromium (VI)	TX	1045	10162206
Method EPA 7470			
Analyte	AB	Analyte ID	Method ID
Mercury	TX	1095	10165603
Method EPA 7471			
Analyte	AB	Analyte ID	Method ID
Mercury	TX	1095	10166004
Method EPA 8015			
Analyte	AB	Analyte ID	Method ID
Diesel range organics (DRO)	TX	9369	10173203
Ethanol	TX	4750	10173203
Ethylene glycol	TX	4785	10173203
Gasoline range organics (GRO)	TX	9408	10173203
Isobutyl alcohol (2-Methyl-1-propanol)	TX	4875	10173203
Isopropyl alcohol (2-Propanol, Isopropanol)	TX	4895	10173203
Methanol	TX	4930	10173203
n-Butyl alcohol (1-Butanol, n-Butanol)	TX	4425	10173203
n-Propanol (1-Propanol)	TX	5055	10173203
Propylene Glycol	TX	6657	10173203
tert-Butyl alcohol	TX	4420	10173203
Method EPA 8081			
Analyte	AB	Analyte ID	Method ID
4,4'-DDD	TX	7355	10178402



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Matrix: Solid & Chemical Materials

4,4'-DDE	TX	7360	10178402
4,4'-DDT	TX	7365	10178402
Aldrin	TX	7025	10178402
alpha-BHC (alpha-Hexachlorocyclohexane)	TX	7110	10178402
alpha-Chlordane	TX	7240	10178402
beta-BHC (beta-Hexachlorocyclohexane)	TX	7115	10178402
Chlordane (tech.)	TX	7250	10178402
delta-BHC (delta-Hexachlorocyclohexane)	TX	7105	10178402
Dieldrin	TX	7470	10178402
Endosulfan I	TX	7510	10178402
Endosulfan II	TX	7515	10178402
Endosulfan sulfate	TX	7520	10178402
Endrin	TX	7540	10178402
Endrin aldehyde	TX	7530	10178402
Endrin ketone	TX	7535	10178402
gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	TX	7120	10178402
gamma-Chlordane	TX	7245	10178402
Heptachlor	TX	7685	10178402
Heptachlor epoxide	TX	7690	10178402
Methoxychlor	TX	7810	10178402
Mirex	TX	7870	10178402
Toxaphene (Chlorinated camphene)	TX	8250	10178402

Method EPA 8082

Analyte	AB	Analyte ID	Method ID
Aroclor-1016 (PCB-1016)	TX	8880	10179201
Aroclor-1221 (PCB-1221)	TX	8885	10179201
Aroclor-1232 (PCB-1232)	TX	8890	10179201
Aroclor-1242 (PCB-1242)	TX	8895	10179201
Aroclor-1248 (PCB-1248)	TX	8900	10179201
Aroclor-1254 (PCB-1254)	TX	8905	10179201



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Matrix: Solid & Chemical Materials

Aroclor-1260 (PCB-1260)	TX	8910	10179201
PCBs (total)	TX	8870	10179201
Method EPA 8260			
Analyte	AB	Analyte ID	Method ID
1,1,1,2-Tetrachloroethane	TX	5105	10184404
1,1,1-Trichloroethane	TX	5160	10184404
1,1,2,2-Tetrachloroethane	TX	5110	10184404
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	TX	5195	10184404
1,1,2-Trichloroethane	TX	5165	10184404
1,1-Dichloroethane	TX	4630	10184404
1,1-Dichloroethylene	TX	4640	10184404
1,1-Dichloropropene	TX	4670	10184404
1,2,3-Trichlorobenzene	TX	5150	10184404
1,2,3-Trichloropropane	TX	5180	10184404
1,2,4-Trichlorobenzene	TX	5155	10184404
1,2,4-Trimethylbenzene	TX	5210	10184404
1,2-Dibromo-3-chloropropane (DBCP)	TX	4570	10184404
1,2-Dibromoethane (EDB, Ethylene dibromide)	TX	4585	10184404
1,2-Dichlorobenzene	TX	4610	10184404
1,2-Dichloroethane (Ethylene dichloride)	TX	4635	10184404
1,2-Dichloropropane	TX	4655	10184404
1,3,5-Trimethylbenzene	TX	5215	10184404
1,3-Dichlorobenzene	TX	4615	10184404
1,3-Dichloropropane	TX	4660	10184404
1,4-Dichlorobenzene	TX	4620	10184404
1,4-Dioxane (1,4-Diethyleneoxide)	TX	4735	10184404
1-Chlorohexane	TX	4510	10184404
1-Propanol	TX	5060	10184404
2,2-Dichloropropane	TX	4665	10184404
2-Butanone (Methyl ethyl ketone, MEK)	TX	4410	10184404



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Matrix: Solid & Chemical Materials

2-Chloroethyl vinyl ether	TX	4500	10184404
2-Chlorotoluene	TX	4535	10184404
2-Hexanone (MBK)	TX	4860	10184404
4-Chlorotoluene	TX	4540	10184404
4-Isopropyltoluene (p-Cymene)	TX	4915	10184404
4-Methyl-2-pentanone (MIBK)	TX	4995	10184404
Acetone (2-Propanone)	TX	4315	10184404
Acetonitrile	TX	4320	10184404
Acrolein (Propenal)	TX	4325	10184404
Acrylonitrile	TX	4340	10184404
Allyl chloride (3-Chloropropene)	TX	4355	10184404
Benzene	TX	4375	10184404
Benzyl chloride	TX	5635	10184404
Bromobenzene	TX	4385	10184404
Bromochloromethane	TX	4390	10184404
Bromodichloromethane	TX	4395	10184404
Bromoform	TX	4400	10184404
Carbon disulfide	TX	4450	10184404
Carbon tetrachloride	TX	4455	10184404
Chlorobenzene	TX	4475	10184404
Chlorodibromomethane	TX	4575	10184404
Chloroethane (Ethyl chloride)	TX	4485	10184404
Chloroform	TX	4505	10184404
Chloroprene (2-Chloro-1,3-butadiene)	TX	4525	10184404
cis-1,2-Dichloroethylene	TX	4645	10184404
cis-1,3-Dichloropropene	TX	4680	10184404
Dibromofluoromethane	TX	4590	10184404
Dibromomethane (Methylene bromide)	TX	4595	10184404
Dichlorodifluoromethane (Freon-12)	TX	4625	10184404
Diethyl ether	TX	4725	10184404



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Matrix: Solid & Chemical Materials

Epichlorohydrin (1-Chloro-2,3-epoxypropane)	TX	4745	10184404
Ethanol	TX	4750	10184404
Ethyl acetate	TX	4755	10184404
Ethyl methacrylate	TX	4810	10184404
Ethylbenzene	TX	4765	10184404
Ethylene oxide	TX	4795	10184404
Hexachlorobutadiene	TX	4835	10184404
Iodomethane (Methyl iodide)	TX	4870	10184404
Isobutyl alcohol (2-Methyl-1-propanol)	TX	4875	10184404
Isopropyl alcohol (2-Propanol, Isopropanol)	TX	4895	10184404
Isopropylbenzene (Cumene)	TX	4900	10184404
m+p-xylene	TX	5240	10184404
Methacrylonitrile	TX	4925	10184404
Methyl acetate	TX	4940	10184404
Methyl acrylate	TX	4945	10184404
Methyl bromide (Bromomethane)	TX	4950	10184404
Methyl chloride (Chloromethane)	TX	4960	10184404
Methyl methacrylate	TX	4990	10184404
Methyl tert-butyl ether (MTBE)	TX	5000	10184404
Methylcyclohexane	TX	4965	10184404
Methylene chloride (Dichloromethane)	TX	4975	10184404
Naphthalene	TX	5005	10184404
n-Butyl alcohol (1-Butanol, n-Butanol)	TX	4425	10184404
n-Butylbenzene	TX	4435	10184404
n-Propylbenzene	TX	5090	10184404
o-Xylene	TX	5250	10184404
Pentachloroethane	TX	5035	10184404
Propionitrile (Ethyl cyanide)	TX	5080	10184404
Pyridine	TX	5095	10184404
sec-Butylbenzene	TX	4440	10184404



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Issue Date: 5/1/2020

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Matrix: Solid & Chemical Materials

Styrene	TX	5100	10184404
tert-Butyl alcohol	TX	4420	10184404
tert-Butylbenzene	TX	4445	10184404
Tetrachloroethylene (Perchloroethylene)	TX	5115	10184404
Toluene	TX	5140	10184404
trans-1,2-Dichloroethylene	TX	4700	10184404
trans-1,3-Dichloropropylene	TX	4685	10184404
trans-1,4-Dichloro-2-butene	TX	4605	10184404
Trichloroethene (Trichloroethylene)	TX	5170	10184404
Trichlorofluoromethane (Fluorotrichloromethane, Freon 11)	TX	5175	10184404
Vinyl acetate	TX	5225	10184404
Vinyl chloride	TX	5235	10184404
Xylene (total)	TX	5260	10184404

Method EPA 8270

Analyte	AB	Analyte ID	Method ID
1,2,4,5-Tetrachlorobenzene	TX	6715	10185203
1,2,4-Trichlorobenzene	TX	5155	10185203
1,2-Dibromo-3-chloropropane (DBCP)	TX	4570	10185203
1,2-Dichlorobenzene	TX	4610	10185203
1,2-Dinitrobenzene	TX	6155	10185203
1,2-Diphenylhydrazine	TX	6220	10185203
1,3,5-Trinitrobenzene (1,3,5-TNB)	TX	6885	10185203
1,3-Dichlorobenzene	TX	4615	10185203
1,3-Dinitrobenzene (1,3-DNB)	TX	6160	10185203
1,4-Dichlorobenzene	TX	4620	10185203
1,4-Dinitrobenzene	TX	6165	10185203
1,4-Naphthoquinone	TX	6420	10185203
1,4-Phenylenediamine	TX	6630	10185203
1-Chloronaphthalene	TX	5790	10185203
1-Naphthylamine	TX	6425	10185203



Texas Commission on Environmental Quality



NELAP - Recognized Laboratory Fields of Accreditation

ALS Laboratory Group, Environmental Services Division (Houston, Texas)

10450 Stancliff Road, Suite 210
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Matrix: Solid & Chemical Materials

2,2'-Oxybis(1-chloropropane) (bis(2-Chloro-1-methylethyl)ether)	TX	4659	10185203
2,3,4,6-Tetrachlorophenol	TX	6735	10185203
2,4,5-Trichlorophenol	TX	6835	10185203
2,4,5-Trimethylaniline	TX	6880	10185203
2,4,6-Trichlorophenol	TX	6840	10185203
2,4-Diaminotoluene	TX	5880	10185203
2,4-Dichlorophenol	TX	6000	10185203
2,4-Dimethylphenol	TX	6130	10185203
2,4-Dinitrophenol	TX	6175	10185203
2,4-Dinitrotoluene (2,4-DNT)	TX	6185	10185203
2,6-Dichlorophenol	TX	6005	10185203
2,6-Dinitrotoluene (2,6-DNT)	TX	6190	10185203
2-Acetylamino fluorene	TX	5515	10185203
2-Chloronaphthalene	TX	5795	10185203
2-Chlorophenol	TX	5800	10185203
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	TX	6360	10185203
2-Methylaniline (o-Toluidine)	TX	5145	10185203
2-Methylnaphthalene	TX	6385	10185203
2-Methylphenol (o-Cresol)	TX	6400	10185203
2-Naphthylamine	TX	6430	10185203
2-Nitroaniline	TX	6460	10185203
2-Nitrophenol	TX	6490	10185203
2-Picoline (2-Methylpyridine)	TX	5050	10185203
3,3'-Dichlorobenzidine	TX	5945	10185203
3,3'-Dimethylbenzidine	TX	6120	10185203
3-Methylcholanthrene	TX	6355	10185203
3-Methylphenol (m-Cresol)	TX	6405	10185203
3-Nitroaniline	TX	6465	10185203
4-Aminobiphenyl	TX	5540	10185203
4-Bromophenyl phenyl ether (BDE-3)	TX	5660	10185203



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Matrix: Solid & Chemical Materials

4-Chloro-3-methylphenol	TX	5700	10185203
4-Chloroaniline	TX	5745	10185203
4-Chlorophenyl phenylether	TX	5825	10185203
4-Methylphenol (p-Cresol)	TX	6410	10185203
4-Nitroaniline	TX	6470	10185203
4-Nitrophenol	TX	6500	10185203
4-Nitroquinoline-1-oxide	TX	6510	10185203
5-Nitro-o-toluidine	TX	6570	10185203
7,12-Dimethylbenz(a) anthracene	TX	6115	10185203
a-a-Dimethylphenethylamine	TX	6125	10185203
Acenaphthene	TX	5500	10185203
Acenaphthylene	TX	5505	10185203
Acetophenone	TX	5510	10185203
Aniline	TX	5545	10185203
Anthracene	TX	5555	10185203
Aramite	TX	5560	10185203
Atrazine	TX	7065	10185203
Azinphos-methyl (Guthion)	TX	7075	10185203
Azobenzene	TX	5562	10185203
Benzenethiol (Thiophenol)	TX	6750	10185203
Benzidine	TX	5595	10185203
Benzo(a)anthracene	TX	5575	10185203
Benzo(a)pyrene	TX	5580	10185203
Benzo(b)fluoranthene	TX	5585	10185203
Benzo(e)pyrene	TX	5605	10185203
Benzo(g,h,i)perylene	TX	5590	10185203
Benzo(k)fluoranthene	TX	5600	10185203
Benzoic acid	TX	5610	10185203
Benzyl alcohol	TX	5630	10185203
Biphenyl	TX	5640	10185203



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Matrix: Solid & Chemical Materials

bis(2-Chloroethoxy)methane	TX	5760	10185203
bis(2-Chloroethyl) ether	TX	5765	10185203
bis(2-Ethylhexyl) phthalate (Di(2-Ethylhexyl) phthalate, DEHP)	TX	6065	10185203
Butyl benzyl phthalate	TX	5670	10185203
Caprolactam	TX	7180	10185203
Carbaryl (Sevin)	TX	7195	10185203
Carbazole	TX	5680	10185203
Carbophenothion	TX	7220	10185203
Chlorobenzilate	TX	7260	10185203
Chrysene	TX	5855	10185203
Demeton	TX	7390	10185203
Demeton-o	TX	7395	10185203
Demeton-s	TX	7385	10185203
Diallate	TX	7405	10185203
Dibenz(a,h) anthracene	TX	5895	10185203
Dibenz(a,j) acridine	TX	5900	10185203
Dibenzo(a,e) pyrene	TX	5890	10185203
Dibenzofuran	TX	5905	10185203
Dichlorvos (DDVP, Dichlorvos)	TX	8610	10185203
Diethyl phthalate	TX	6070	10185203
Dimethoate	TX	7475	10185203
Dimethyl phthalate	TX	6135	10185203
Di-n-butyl phthalate	TX	5925	10185203
Di-n-octyl phthalate	TX	6200	10185203
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	TX	8620	10185203
Diphenylamine	TX	6205	10185203
Disulfoton	TX	8625	10185203
Ethyl methanesulfonate	TX	6260	10185203
Fluoranthene	TX	6265	10185203
Fluorene	TX	6270	10185203



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Matrix: Solid & Chemical Materials

Hexachlorobenzene	TX	6275	10185203
Hexachlorobutadiene	TX	4835	10185203
Hexachlorocyclopentadiene	TX	6285	10185203
Hexachloroethane	TX	4840	10185203
Hexachlorophene	TX	6290	10185203
Hexachloropropene	TX	6295	10185203
Indeno(1,2,3-cd) pyrene	TX	6315	10185203
Isodrin	TX	7725	10185203
Isophorone	TX	6320	10185203
Isosafrole	TX	6325	10185203
Kepone	TX	7740	10185203
Malathion	TX	7770	10185203
Methapyrilene	TX	6345	10185203
Methyl methanesulfonate	TX	6375	10185203
Methyl parathion (Parathion, methyl)	TX	7825	10185203
Mevinphos	TX	7850	10185203
Naphthalene	TX	5005	10185203
Nitrobenzene	TX	5015	10185203
n-Nitrosodiethylamine	TX	6525	10185203
n-Nitrosodimethylamine	TX	6530	10185203
n-Nitrosodi-n-butylamine	TX	5025	10185203
n-Nitrosodi-n-propylamine	TX	6545	10185203
n-Nitrosodiphenylamine	TX	6535	10185203
n-Nitrosomethylethylamine	TX	6550	10185203
n-Nitrosomorpholine	TX	6555	10185203
n-Nitrosopiperidine	TX	6560	10185203
n-Nitrosopyrrolidine	TX	6565	10185203
o,o,o-Triethyl phosphorothioate	TX	8290	10185203
o-Anisidine	TX	5550	10185203
Parathion, ethyl	TX	7955	10185203



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Matrix: Solid & Chemical Materials

p-Cresidine	TX	5860	10185203
Pentachlorobenzene	TX	6590	10185203
Pentachloronitrobenzene (PCNB)	TX	6600	10185203
Pentachlorophenol	TX	6605	10185203
Phenacetin	TX	6610	10185203
Phenanthrene	TX	6615	10185203
Phenol	TX	6625	10185203
Phorate	TX	7985	10185203
Pronamide (Kerb)	TX	6650	10185203
Pyrene	TX	6665	10185203
Pyridine	TX	5095	10185203
Quinoline	TX	6670	10185203
Safrole	TX	6685	10185203
Sulfotepp	TX	8155	10185203
Terbufos	TX	8185	10185203
Tetrachlorvinphos (Stirophos, Gardona)	TX	8197	10185203
Thionazin (Zinophos)	TX	8235	10185203
Toluene diisocyanate	TX	6775	10185203

Method EPA 8290

Analyte	AB	Analyte ID	Method ID
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	TX	9516	10187209
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	TX	9519	10187209
1,2,3,4,6,7,8-Heptachlorodibenzofuran (1,2,3,4,6,7,8-HpCDF)	TX	9420	10187209
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (1,2,3,4,6,7,8-HpCDD)	TX	9426	10187209
1,2,3,4,7,8,9-Heptachlorodibenzofuran (1,2,3,4,7,8,9-HpCDF)	TX	9423	10187209
1,2,3,4,7,8-Hexachlorodibenzofuran (1,2,3,4,7,8-HxCDF)	TX	9471	10187209
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (1,2,3,4,7,8-HxCDD)	TX	9453	10187209
1,2,3,6,7,8-Hexachlorodibenzofuran (1,2,3,6,7,8-HxCDF)	TX	9474	10187209
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin(1,2,3,6,7,8-HxCDD)	TX	9456	10187209
1,2,3,7,8,9-Hexachlorodibenzofuran (1,2,3,7,8,9-HxCDF)	TX	9477	10187209



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Matrix: Solid & Chemical Materials

1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (1,2,3,7,8,9-HxCDD)	TX	9459	10187209
1,2,3,7,8-Pentachlorodibenzofuran (1,2,3,7,8-PeCDF)	TX	9543	10187209
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (1,2,3,7,8-PeCDD)	TX	9540	10187209
2,3,4,6,7,8-Hexachlorodibenzofuran (2,3,4,6,7,8-HxCDF)	TX	9480	10187209
2,3,4,7,8-Pentachlorodibenzofuran (2,3,4,7,8-PeCDF)	TX	9549	10187209
2,3,7,8-Tetrachlorodibenzofuran (2,3,7,8-TCDF)	TX	9612	10187209
2,3,7,8-Tetrachlorodibenzo-p-dioxin (2,3,7,8-TCDD)	TX	9618	10187209
Total Heptachlorodibenzofuran (Total HpCDF)	TX	9444	10187209
Total Heptachlorodibenzo-p-dioxin (Total HpCDD)	TX	9438	10187209
Total Hexachlorodibenzofuran (Total HxCDF)	TX	9483	10187209
Total Hexachlorodibenzo-p-dioxin (Total HxCDD)	TX	9468	10187209
Total Pentachlorodibenzofuran (Total PeCDF)	TX	9552	10187209
Total Pentachlorodibenzo-p-dioxin (Total PeCDD)	TX	9555	10187209
Total Tetrachlorodibenzofuran (Total TCDF)	TX	9615	10187209
Total Tetrachlorodibenzo-p-dioxin (Total TCDD)	TX	9609	10187209

Method EPA 8316

Analyte	AB	Analyte ID	Method ID
Acrylamide	TX	4330	10188202

Method EPA 8330

Analyte	AB	Analyte ID	Method ID
1,3,5-Trinitrobenzene (1,3,5-TNB)	TX	6885	10189807
1,3-Dinitrobenzene (1,3-DNB)	TX	6160	10189807
2,4,6-Trinitrotoluene (2,4,6-TNT)	TX	9651	10189807
2,4-Dinitrotoluene (2,4-DNT)	TX	6185	10189807
2,6-Dinitrotoluene (2,6-DNT)	TX	6190	10189807
2-Amino-4,6-dinitrotoluene (2-am-dnt)	TX	9303	10189807
2-Nitrotoluene	TX	9507	10189807
3-Nitrotoluene	TX	9510	10189807
4-Amino-2,6-dinitrotoluene (4-am-dnt)	TX	9306	10189807
4-Nitrotoluene	TX	9513	10189807
Methyl-2,4,6-trinitrophenylnitramine (tetryl)	TX	6415	10189807



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Matrix: Solid & Chemical Materials

Nitrobenzene	TX	5015	10189807
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	TX	9522	10189807
RDX (hexahydro-1,3,5-trinitro-1,3,5-triazine)	TX	9432	10189807
Method EPA 9014			
Analyte	AB	Analyte ID	Method ID
Amenable cyanide	TX	1510	10193803
Total cyanide	TX	1645	10193803
Method EPA 9038			
Analyte	AB	Analyte ID	Method ID
Sulfate	TX	2000	10196608
Method EPA 9040			
Analyte	AB	Analyte ID	Method ID
Corrosivity	TX	1615	10197203
pH	TX	1900	10196802
Method EPA 9045			
Analyte	AB	Analyte ID	Method ID
Corrosivity	TX	1615	10197805
pH	TX	1900	10197805
Method EPA 9050			
Analyte	AB	Analyte ID	Method ID
Conductivity	TX	1610	10198604
Method EPA 9056			
Analyte	AB	Analyte ID	Method ID
Bromide	TX	1540	10199209
Chloride	TX	1575	10199209
Fluoride	TX	1730	10199209
Nitrate as N	TX	1810	10199209
Nitrate-nitrite	TX	1820	10199209
Nitrite as N	TX	1840	10199209
Orthophosphate as P	TX	1870	10199209
Sulfate	TX	2000	10199209



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Matrix: Solid & Chemical Materials

Method EPA 9060			
Analyte Total Organic Carbon (TOC)	AB TX	Analyte ID 2040	Method ID 10200201
Method EPA 9065			
Analyte Total phenolics	AB TX	Analyte ID 1905	Method ID 10200405
Method EPA 9071			
Analyte n-Hexane Extractable Material (HEM) (O&G)	AB TX	Analyte ID 1803	Method ID 10201204
Method EPA 9095			
Analyte Paint Filter Liquids Test	AB TX	Analyte ID 10312	Method ID 10204009
Method EPA 9250			
Analyte Chloride	AB TX	Analyte ID 1575	Method ID 10207202
Method SM 2320 B			
Analyte Alkalinity as CaCO3	AB TX	Analyte ID 1505	Method ID 20045005
Method SM 2510 B			
Analyte Conductivity	AB TX	Analyte ID 1610	Method ID 20048004
Method SM 2540 G			
Analyte Residue-total (total solids)	AB TX	Analyte ID 1950	Method ID 20005203
Method SSA/ASA Part 3:34			
Analyte Carbon, organic (Walkley-Black)	AB TX	Analyte ID 10340	Method ID SSA/ASA Pt 3:34
Method TCEQ 1005			
Analyte Total Petroleum Hydrocarbons (TPH)	AB TX	Analyte ID 2050	Method ID 90019208



10450 Stancliff Rd. Suite 210
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July 28, 2020

Eric Matzner
Golder Associates Inc.
2201 Double Creek Drive
Suite 4004
Round Rock, TX 78664

Work Order: **HS20070656**

Laboratory Results for: **Houston TX-Wood Preserving Works**

Dear Eric Matzner,

ALS Environmental received 20 sample(s) on Jul 15, 2020 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: JUMOKE.LAWAL
Dane J. Wacasey

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20070656

**TRRP Laboratory Data
Package Cover Page**

This data package consists of all or some of the following as applicable:

This signature page, the laboratory review checklist, and the following reportable data:

- R1 Field chain-of-custody documentation;
- R2 Sample identification cross-reference;
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
 - a) Items consistent with NELAC Chapter 5,
 - b) dilution factors,
 - c) preparation methods,
 - d) cleanup methods, and
 - e) if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate recovery data including:
 - a) Calculated recovery (%R), and
 - b) The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
 - a) LCS spiking amounts,
 - b) Calculated %R for each analyte, and
 - c) The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a) Samples associated with the MS/MSD clearly identified,
 - b) MS/MSD spiking amounts,
 - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d) Calculated %Rs and relative percent differences (RPDs), and
 - e) The laboratory's MS/MSD QC limits.
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
 - a) the amount of analyte measured in the duplicate,
 - b) the calculated RPD, and
 - c) the laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.
- R10 Other problems or anomalies.
The Exception Report for each "No" or "Not Reviewed (NR)" item in Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20070656

**TRRP Laboratory Data
Package Cover Page**

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory have been identified by the laboratory in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Check, if applicable: [NA] This laboratory meets an exception under 30 TAC §25.6 and was last inspected by TCEQ or _____ on (enter date of last inspection). Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.



Dane J. Wacasey

Laboratory Review Checklist: Reportable Data

Laboratory Name: ALS Laboratory Group			LRC Date: 07/27/2020				
Project Name: Houston TX-Wood Preserving Works			Laboratory Job Number: HS20070656				
Reviewer Name: Dane Wacasey			Prep Batch Number: 155474,155517,155623,R365282,R365288,R365297				
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
R1	OI	Chain-of-custody (C-O-C)					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?	X				
R2	OI	Sample and quality control (QC) identification					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	Test reports					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?			X		
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW-846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	Surrogate recovery data					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?		X			1
R5	OI	Test reports/summary forms for blank samples					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	Laboratory control samples (LCS):					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			2
		Were MS/MSD RPDs within laboratory QC limits?		X			3
R8	OI	Analytical duplicate data					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	Method quantitation limits (MQLs):					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	Other problems/anomalies					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Were all necessary corrective actions performed for the reported data?	X				
		Was applicable and available technology used to lower the SDL and minimize the matrix interference affects on the sample results?	X				4
		Is the laboratory NELAC-accredited under the Texas Laboratory Program for the analytes, matrices and methods associated with this laboratory data package?	X				

Laboratory Review Checklist: Supporting Data

Laboratory Name: ALS Laboratory Group		LRC Date: 07/27/2020					
Project Name: Houston TX-Wood Preserving Works		Laboratory Job Number: HS20070656					
Reviewer Name: Dane Wacasey		Prep Batch Number: 155474,155517,155623,R365282,R365288,R365297					
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S1	OI	Initial calibration (ICAL)					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB)					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	Mass spectral tuning:					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	Internal standards (IS):					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	Raw data (NELAC section 1 appendix A glossary, and section 5.12 or ISO/IEC 17025 section					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	Dual column confirmation					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	Tentatively identified compounds (TICs):					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	Interference Check Sample (ICS) results:					
		Were percent recoveries within method QC limits?	X				
S9	I	Serial dilutions, post digestion spikes, and method of standard additions					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	X				
S10	OI	Method detection limit (MDL) studies					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	Proficiency test reports:					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards documentation					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/analyte identification procedures					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of analyst competency (DOC)					
		Was DOC conducted consistent with NELAC Chapter 5C or ISO/IEC 4?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/validation documentation for methods (NELAC Chap 5 or ISO/IEC 17025 Section 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory standard operating procedures (SOPs):					
		Are laboratory SOPs current and on file for each method performed?	X				

Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

O = Organic Analyses; I = Inorganic Analyses (and general chemistry, when applicable);

NA = Not Applicable;

NR = Not Reviewed;

R# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Exception Reports

Laboratory Name: ALS Laboratory Group		LRC Date: 07/27/2020
Project Name: Houston TX-Wood Preserving Works		Laboratory Job Number: HS20070656
Reviewer Name: Dane Wacasey		Prep Batch Number: 155474,155517,155623,R365282,R365288,R365297
ER# ⁵	Description	
1	Semivolatile Organics Method SW8270, samples WG-1620-MW20A-20200714, WG-1620-MW15B-20200714, WG-1620-MW23C-20200714, WG-1620-MW72B-20200714, WG-1620-MW18A-20200714, WG-1620-MW18C-20200714, WG-1620-MW17-20200714, WG-1620-MW17C-20200714, WG-1620-MW57B-20200715, WG-1620-MW57A-20200715, WG-1620-MW58A-20200715; the surrogate recoveries could not be determined due to dilution below the calibration range.	
2	Batch 155517, Semivolatile Organics Method SW8270, sample HS20070596-03, MSD was performed on unrelated sample. Batch R365282, Volatile Organics Method SW8260, sample WG-1620-MW20A-20200714, MSD recovered outside the control limit for Ethylbenzene due to possible matrix effect.	
3	Batch 155517, Semivolatile Organics Method SW8270, sample HS20070596-03, MS/MSD RPD is for an unrelated sample.	
4	Batch R365297, Volatile Organics Method SW8260, samples WG-1620-MW18C-20200714, WG-1620-MW57B-20200715 lowest practical dilution of 5x performed due to high concentration of non-target compound. Batch 155517, Semivolatile Organics Method SW8270, the GCMS of multiple samples were run at a dilution due to a high level of matrix interference.	
<p>Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. O = Organic Analyses; I = Inorganic Analyses (and general chemistry, when applicable); NA = Not Applicable; NR = Not Reviewed; R# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).</p>		

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
Work Order: HS20070656

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS20070656-01	WQ-1620-TB01-20200715	Water	CG 061220 -126	15-Jul-2020 00:00	15-Jul-2020 15:55	<input type="checkbox"/>
HS20070656-02	WG-1620-MW20A-20200714	Groundwater		14-Jul-2020 08:35	15-Jul-2020 15:55	<input type="checkbox"/>
HS20070656-03	WG-1620-MW15A-20200714	Groundwater		14-Jul-2020 09:25	15-Jul-2020 15:55	<input type="checkbox"/>
HS20070656-04	WG-1620-MW15C-20200714	Groundwater		14-Jul-2020 10:10	15-Jul-2020 15:55	<input type="checkbox"/>
HS20070656-05	WG-1620-MW15B-20200714	Groundwater		14-Jul-2020 10:55	15-Jul-2020 15:55	<input type="checkbox"/>
HS20070656-06	WG-1620-MW19C-20200714	Groundwater		14-Jul-2020 11:40	15-Jul-2020 15:55	<input type="checkbox"/>
HS20070656-07	WG-1620-MW23C-20200714	Groundwater		14-Jul-2020 12:25	15-Jul-2020 15:55	<input type="checkbox"/>
HS20070656-08	WG-1620-MW72B-20200714	Groundwater		14-Jul-2020 14:10	15-Jul-2020 15:55	<input type="checkbox"/>
HS20070656-09	WG-1620-MW18A-20200714	Groundwater		14-Jul-2020 15:00	15-Jul-2020 15:55	<input type="checkbox"/>
HS20070656-10	WG-1620-MW18C-20200714	Groundwater		14-Jul-2020 15:50	15-Jul-2020 15:55	<input type="checkbox"/>
HS20070656-11	WG-1620-MW17-20200714	Groundwater		14-Jul-2020 16:50	15-Jul-2020 15:55	<input type="checkbox"/>
HS20070656-12	WG-1620-MW17C-20200714	Groundwater		14-Jul-2020 17:40	15-Jul-2020 15:55	<input type="checkbox"/>
HS20070656-13	WG-1620-FB01-20200714	Water		14-Jul-2020 18:00	15-Jul-2020 15:55	<input type="checkbox"/>
HS20070656-14	WG-1620-MW57B-20200715	Groundwater		15-Jul-2020 08:15	15-Jul-2020 15:55	<input type="checkbox"/>
HS20070656-15	WG-1620-MW57A-20200715	Groundwater		15-Jul-2020 09:10	15-Jul-2020 15:55	<input type="checkbox"/>
HS20070656-16	WG-1620-MW58A-20200715	Groundwater		15-Jul-2020 09:55	15-Jul-2020 15:55	<input type="checkbox"/>
HS20070656-17	WG-1620-MW14-20200715	Groundwater		15-Jul-2020 10:45	15-Jul-2020 15:55	<input type="checkbox"/>
HS20070656-18	WG-1620-MW13-20200715	Groundwater		15-Jul-2020 11:40	15-Jul-2020 15:55	<input type="checkbox"/>
HS20070656-19	WG-1620-MW88C-20200715	Groundwater		15-Jul-2020 12:55	15-Jul-2020 15:55	<input type="checkbox"/>
HS20070656-20	WG-1620-MW88A-20200715	Groundwater		15-Jul-2020 14:00	15-Jul-2020 15:55	<input type="checkbox"/>

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WQ-1620-TB01-20200715
 Collection Date: 15-Jul-2020 00:00

ANALYTICAL REPORT
 WorkOrder:HS20070656
 Lab ID:HS20070656-01
 Matrix:Water

ANALYSES	RESULT	QUAL	SDL	SQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	18-Jul-2020 00:44
Benzene	U		0.00020	0.0010	mg/L	1	18-Jul-2020 00:44
Chlorobenzene	U		0.00030	0.0010	mg/L	1	18-Jul-2020 00:44
Ethylbenzene	U		0.00030	0.0010	mg/L	1	18-Jul-2020 00:44
Methylene chloride	U		0.0010	0.0020	mg/L	1	18-Jul-2020 00:44
Toluene	U		0.00020	0.0010	mg/L	1	18-Jul-2020 00:44
Vinyl chloride	U		0.00020	0.0010	mg/L	1	18-Jul-2020 00:44
Xylenes, Total	U		0.00030	0.0010	mg/L	1	18-Jul-2020 00:44
<i>Surr: 1,2-Dichloroethane-d4</i>		<i>102</i>		<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>18-Jul-2020 00:44</i>
<i>Surr: 4-Bromofluorobenzene</i>		<i>99.9</i>		<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>18-Jul-2020 00:44</i>
<i>Surr: Dibromofluoromethane</i>		<i>102</i>		<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>18-Jul-2020 00:44</i>
<i>Surr: Toluene-d8</i>		<i>101</i>		<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>18-Jul-2020 00:44</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW20A-20200714
 Collection Date: 14-Jul-2020 08:35

ANALYTICAL REPORT
 WorkOrder:HS20070656
 Lab ID:HS20070656-02
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	18-Jul-2020 01:31
Benzene	0.024		0.00020	0.0010	mg/L	1	18-Jul-2020 01:31
Chlorobenzene	U		0.00030	0.0010	mg/L	1	18-Jul-2020 01:31
Ethylbenzene	0.070		0.00030	0.0010	mg/L	1	18-Jul-2020 01:31
Methylene chloride	U		0.0010	0.0020	mg/L	1	18-Jul-2020 01:31
Toluene	0.011		0.00020	0.0010	mg/L	1	18-Jul-2020 01:31
Xylenes, Total	0.091		0.00030	0.0010	mg/L	1	18-Jul-2020 01:31
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>101</i>			<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>18-Jul-2020 01:31</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>102</i>			<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>18-Jul-2020 01:31</i>
<i>Surr: Dibromofluoromethane</i>	<i>101</i>			<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>18-Jul-2020 01:31</i>
<i>Surr: Toluene-d8</i>	<i>99.8</i>			<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>18-Jul-2020 01:31</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW20A-20200714
 Collection Date: 14-Jul-2020 08:35

ANALYTICAL REPORT
 WorkOrder:HS20070656
 Lab ID:HS20070656-02
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 16-Jul-2020		Analyst: GEY	
1,2-Diphenylhydrazine	U		0.00021	0.0020	mg/L	10	24-Jul-2020 11:37
2,4-Dimethylphenol	0.010		0.00040	0.0020	mg/L	10	24-Jul-2020 11:37
2,4-Dinitrotoluene	U		0.00058	0.0020	mg/L	10	24-Jul-2020 11:37
2,6-Dinitrotoluene	U		0.00042	0.0020	mg/L	10	24-Jul-2020 11:37
2-Chloronaphthalene	U		0.00021	0.0020	mg/L	10	24-Jul-2020 11:37
2-Methylnaphthalene	0.23		0.0019	0.010	mg/L	100	20-Jul-2020 21:12
4,6-Dinitro-2-methylphenol	U		0.00020	0.0020	mg/L	10	24-Jul-2020 11:37
4-Nitrophenol	U		0.00047	0.010	mg/L	10	24-Jul-2020 11:37
Acenaphthene	0.14		0.0027	0.010	mg/L	100	20-Jul-2020 21:12
Acenaphthylene	0.0013		0.00015	0.0010	mg/L	10	24-Jul-2020 11:37
Anthracene	0.0054		0.00014	0.0010	mg/L	10	24-Jul-2020 11:37
Benz(a)anthracene	U		0.00050	0.0010	mg/L	10	24-Jul-2020 11:37
Benzo(a)pyrene	U		0.00020	0.0010	mg/L	10	24-Jul-2020 11:37
Bis(2-chloroethoxy)methane	U		0.00030	0.0020	mg/L	10	24-Jul-2020 11:37
Bis(2-ethylhexyl)phthalate	U		0.00037	0.0020	mg/L	10	24-Jul-2020 11:37
Chrysene	U		0.00021	0.0010	mg/L	10	24-Jul-2020 11:37
Dibenzofuran	0.086		0.00020	0.0010	mg/L	10	24-Jul-2020 11:37
Di-n-butyl phthalate	U		0.00020	0.0020	mg/L	10	24-Jul-2020 11:37
Fluoranthene	0.0016		0.00010	0.0010	mg/L	10	24-Jul-2020 11:37
Fluorene	0.078		0.00030	0.0010	mg/L	10	24-Jul-2020 11:37
Naphthalene	5.8		0.020	0.10	mg/L	1000	24-Jul-2020 11:57
Nitrobenzene	U		0.00024	0.0020	mg/L	10	24-Jul-2020 11:37
N-Nitrosodiphenylamine	U		0.00025	0.0020	mg/L	10	24-Jul-2020 11:37
Pentachlorophenol	U		0.00079	0.0020	mg/L	10	24-Jul-2020 11:37
Phenanthrene	0.046		0.00021	0.0010	mg/L	10	24-Jul-2020 11:37
Phenol	U		0.00035	0.0020	mg/L	10	24-Jul-2020 11:37
Pyrene	0.00095	J	0.00019	0.0010	mg/L	10	24-Jul-2020 11:37
<i>Surr: 2,4,6-Tribromophenol</i>	<i>70.6</i>			<i>34-129</i>	<i>%REC</i>	<i>10</i>	<i>24-Jul-2020 11:37</i>
<i>Surr: 2,4,6-Tribromophenol</i>	<i>0</i>	<i>JS</i>		<i>34-129</i>	<i>%REC</i>	<i>1000</i>	<i>24-Jul-2020 11:57</i>
<i>Surr: 2,4,6-Tribromophenol</i>	<i>0</i>	<i>JS</i>		<i>34-129</i>	<i>%REC</i>	<i>100</i>	<i>20-Jul-2020 21:12</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>56.1</i>			<i>40-125</i>	<i>%REC</i>	<i>10</i>	<i>24-Jul-2020 11:37</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>0</i>	<i>JS</i>		<i>40-125</i>	<i>%REC</i>	<i>1000</i>	<i>24-Jul-2020 11:57</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>0</i>	<i>JS</i>		<i>40-125</i>	<i>%REC</i>	<i>100</i>	<i>20-Jul-2020 21:12</i>
<i>Surr: 2-Fluorophenol</i>	<i>0</i>	<i>JS</i>		<i>20-120</i>	<i>%REC</i>	<i>100</i>	<i>20-Jul-2020 21:12</i>
<i>Surr: 2-Fluorophenol</i>	<i>72.9</i>			<i>20-120</i>	<i>%REC</i>	<i>10</i>	<i>24-Jul-2020 11:37</i>
<i>Surr: 2-Fluorophenol</i>	<i>0</i>	<i>JS</i>		<i>20-120</i>	<i>%REC</i>	<i>1000</i>	<i>24-Jul-2020 11:57</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>0</i>	<i>JS</i>		<i>40-135</i>	<i>%REC</i>	<i>1000</i>	<i>24-Jul-2020 11:57</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>74.2</i>			<i>40-135</i>	<i>%REC</i>	<i>10</i>	<i>24-Jul-2020 11:37</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>0</i>	<i>JS</i>		<i>40-135</i>	<i>%REC</i>	<i>100</i>	<i>20-Jul-2020 21:12</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW20A-20200714
 Collection Date: 14-Jul-2020 08:35

ANALYTICAL REPORT
 WorkOrder:HS20070656
 Lab ID:HS20070656-02
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 16-Jul-2020		Analyst: GEY	
Surr: Nitrobenzene-d5	0	JS		41-120	%REC	100	20-Jul-2020 21:12
Surr: Nitrobenzene-d5	0	JS		41-120	%REC	1000	24-Jul-2020 11:57
Surr: Nitrobenzene-d5	53.9			41-120	%REC	10	24-Jul-2020 11:37
Surr: Phenol-d6	66.9			20-120	%REC	10	24-Jul-2020 11:37
Surr: Phenol-d6	0	JS		20-120	%REC	1000	24-Jul-2020 11:57
Surr: Phenol-d6	0	JS		20-120	%REC	100	20-Jul-2020 21:12
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 22-Jul-2020		Analyst: JHD	
Arsenic	0.00530		0.000400	0.00200	mg/L	1	22-Jul-2020 21:34

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW15A-20200714
 Collection Date: 14-Jul-2020 09:25

ANALYTICAL REPORT
 WorkOrder:HS20070656
 Lab ID:HS20070656-03
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	18-Jul-2020 04:12
Benzene	0.00064	J	0.00020	0.0010	mg/L	1	18-Jul-2020 04:12
Chlorobenzene	U		0.00030	0.0010	mg/L	1	18-Jul-2020 04:12
Ethylbenzene	0.00037	J	0.00030	0.0010	mg/L	1	18-Jul-2020 04:12
Methylene chloride	U		0.0010	0.0020	mg/L	1	18-Jul-2020 04:12
Toluene	U		0.00020	0.0010	mg/L	1	18-Jul-2020 04:12
Xylenes, Total	0.0026		0.00030	0.0010	mg/L	1	18-Jul-2020 04:12
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>103</i>			<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>18-Jul-2020 04:12</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>99.9</i>			<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>18-Jul-2020 04:12</i>
<i>Surr: Dibromofluoromethane</i>	<i>102</i>			<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>18-Jul-2020 04:12</i>
<i>Surr: Toluene-d8</i>	<i>101</i>			<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>18-Jul-2020 04:12</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW15A-20200714
 Collection Date: 14-Jul-2020 09:25

ANALYTICAL REPORT
 WorkOrder:HS20070656
 Lab ID:HS20070656-03
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 16-Jul-2020		Analyst: QX	
1,2-Diphenylhydrazine	U		0.000021	0.00020	mg/L	1	17-Jul-2020 15:48
2,4-Dimethylphenol	U		0.000040	0.00020	mg/L	1	17-Jul-2020 15:48
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	17-Jul-2020 15:48
2,6-Dinitrotoluene	U		0.000042	0.00020	mg/L	1	17-Jul-2020 15:48
2-Chloronaphthalene	U		0.000021	0.00020	mg/L	1	17-Jul-2020 15:48
2-Methylnaphthalene	0.014		0.00019	0.0010	mg/L	10	20-Jul-2020 22:09
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	17-Jul-2020 15:48
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	17-Jul-2020 15:48
Acenaphthene	0.091		0.00027	0.0010	mg/L	10	20-Jul-2020 22:09
Acenaphthylene	0.00047		0.000015	0.00010	mg/L	1	17-Jul-2020 15:48
Anthracene	0.0028		0.000014	0.00010	mg/L	1	17-Jul-2020 15:48
Benz(a)anthracene	U		0.000050	0.00010	mg/L	1	17-Jul-2020 15:48
Benzo(a)pyrene	U		0.000020	0.00010	mg/L	1	17-Jul-2020 15:48
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	17-Jul-2020 15:48
Bis(2-ethylhexyl)phthalate	U		0.000037	0.00020	mg/L	1	17-Jul-2020 15:48
Chrysene	U		0.000021	0.00010	mg/L	1	17-Jul-2020 15:48
Dibenzofuran	0.024		0.00020	0.0010	mg/L	10	20-Jul-2020 22:09
Di-n-butyl phthalate	U		0.000020	0.00020	mg/L	1	17-Jul-2020 15:48
Fluoranthene	0.0021		0.000010	0.00010	mg/L	1	17-Jul-2020 15:48
Fluorene	0.041		0.00030	0.0010	mg/L	10	20-Jul-2020 22:09
Naphthalene	0.00092		0.000020	0.00010	mg/L	1	17-Jul-2020 15:48
Nitrobenzene	U		0.000024	0.00020	mg/L	1	17-Jul-2020 15:48
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	17-Jul-2020 15:48
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	17-Jul-2020 15:48
Phenanthrene	0.0096		0.000021	0.00010	mg/L	1	17-Jul-2020 15:48
Phenol	U		0.000035	0.00020	mg/L	1	17-Jul-2020 15:48
Pyrene	0.00098		0.000019	0.00010	mg/L	1	17-Jul-2020 15:48
<i>Surr: 2,4,6-Tribromophenol</i>	<i>77.3</i>			<i>34-129</i>	<i>%REC</i>	<i>1</i>	<i>17-Jul-2020 15:48</i>
<i>Surr: 2,4,6-Tribromophenol</i>	<i>68.1</i>			<i>34-129</i>	<i>%REC</i>	<i>10</i>	<i>20-Jul-2020 22:09</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>51.5</i>			<i>40-125</i>	<i>%REC</i>	<i>1</i>	<i>17-Jul-2020 15:48</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>62.4</i>			<i>40-125</i>	<i>%REC</i>	<i>10</i>	<i>20-Jul-2020 22:09</i>
<i>Surr: 2-Fluorophenol</i>	<i>55.2</i>			<i>20-120</i>	<i>%REC</i>	<i>10</i>	<i>20-Jul-2020 22:09</i>
<i>Surr: 2-Fluorophenol</i>	<i>54.5</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>17-Jul-2020 15:48</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>80.7</i>			<i>40-135</i>	<i>%REC</i>	<i>1</i>	<i>17-Jul-2020 15:48</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>98.6</i>			<i>40-135</i>	<i>%REC</i>	<i>10</i>	<i>20-Jul-2020 22:09</i>
<i>Surr: Nitrobenzene-d5</i>	<i>53.6</i>			<i>41-120</i>	<i>%REC</i>	<i>1</i>	<i>17-Jul-2020 15:48</i>
<i>Surr: Nitrobenzene-d5</i>	<i>52.4</i>			<i>41-120</i>	<i>%REC</i>	<i>10</i>	<i>20-Jul-2020 22:09</i>
<i>Surr: Phenol-d6</i>	<i>54.8</i>			<i>20-120</i>	<i>%REC</i>	<i>10</i>	<i>20-Jul-2020 22:09</i>
<i>Surr: Phenol-d6</i>	<i>62.4</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>17-Jul-2020 15:48</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW15A-20200714
 Collection Date: 14-Jul-2020 09:25

ANALYTICAL REPORT

WorkOrder:HS20070656
 Lab ID:HS20070656-03
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020			Prep:SW3010A / 22-Jul-2020		Analyst: JHD
Arsenic	0.0220		0.000400	0.00200	mg/L	1	22-Jul-2020 21:48

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW15C-20200714
 Collection Date: 14-Jul-2020 10:10

ANALYTICAL REPORT
 WorkOrder:HS20070656
 Lab ID:HS20070656-04
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	18-Jul-2020 04:34
Benzene	0.00045	J	0.00020	0.0010	mg/L	1	18-Jul-2020 04:34
Chlorobenzene	U		0.00030	0.0010	mg/L	1	18-Jul-2020 04:34
Ethylbenzene	U		0.00030	0.0010	mg/L	1	18-Jul-2020 04:34
Methylene chloride	U		0.0010	0.0020	mg/L	1	18-Jul-2020 04:34
Toluene	U		0.00020	0.0010	mg/L	1	18-Jul-2020 04:34
Xylenes, Total	U		0.00030	0.0010	mg/L	1	18-Jul-2020 04:34
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>103</i>			<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>18-Jul-2020 04:34</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>99.9</i>			<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>18-Jul-2020 04:34</i>
<i>Surr: Dibromofluoromethane</i>	<i>104</i>			<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>18-Jul-2020 04:34</i>
<i>Surr: Toluene-d8</i>	<i>101</i>			<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>18-Jul-2020 04:34</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW15C-20200714
 Collection Date: 14-Jul-2020 10:10

ANALYTICAL REPORT
 WorkOrder:HS20070656
 Lab ID:HS20070656-04
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 16-Jul-2020		Analyst: QX	
1,2-Diphenylhydrazine	U		0.000021	0.00020	mg/L	1	17-Jul-2020 16:08
2,4-Dimethylphenol	U		0.000040	0.00020	mg/L	1	17-Jul-2020 16:08
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	17-Jul-2020 16:08
2,6-Dinitrotoluene	U		0.000042	0.00020	mg/L	1	17-Jul-2020 16:08
2-Chloronaphthalene	U		0.000021	0.00020	mg/L	1	17-Jul-2020 16:08
2-Methylnaphthalene	U		0.000019	0.00010	mg/L	1	17-Jul-2020 16:08
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	17-Jul-2020 16:08
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	17-Jul-2020 16:08
Acenaphthene	0.0049		0.000027	0.00010	mg/L	1	17-Jul-2020 16:08
Acenaphthylene	0.00055		0.000015	0.00010	mg/L	1	17-Jul-2020 16:08
Anthracene	0.000038	J	0.000014	0.00010	mg/L	1	17-Jul-2020 16:08
Benz(a)anthracene	U		0.000050	0.00010	mg/L	1	17-Jul-2020 16:08
Benzo(a)pyrene	U		0.000020	0.00010	mg/L	1	17-Jul-2020 16:08
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	17-Jul-2020 16:08
Bis(2-ethylhexyl)phthalate	0.000065	J	0.000037	0.00020	mg/L	1	17-Jul-2020 16:08
Chrysene	U		0.000021	0.00010	mg/L	1	17-Jul-2020 16:08
Dibenzofuran	0.00074		0.000020	0.00010	mg/L	1	17-Jul-2020 16:08
Di-n-butyl phthalate	U		0.000020	0.00020	mg/L	1	17-Jul-2020 16:08
Fluoranthene	0.00032		0.000010	0.00010	mg/L	1	17-Jul-2020 16:08
Fluorene	0.00017		0.000030	0.00010	mg/L	1	17-Jul-2020 16:08
Naphthalene	0.00016		0.000020	0.00010	mg/L	1	17-Jul-2020 16:08
Nitrobenzene	U		0.000024	0.00020	mg/L	1	17-Jul-2020 16:08
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	17-Jul-2020 16:08
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	17-Jul-2020 16:08
Phenanthrene	0.00031		0.000021	0.00010	mg/L	1	17-Jul-2020 16:08
Phenol	U		0.000035	0.00020	mg/L	1	17-Jul-2020 16:08
Pyrene	0.00029		0.000019	0.00010	mg/L	1	17-Jul-2020 16:08
<i>Surr: 2,4,6-Tribromophenol</i>	67.6			34-129	%REC	1	17-Jul-2020 16:08
<i>Surr: 2-Fluorobiphenyl</i>	48.5			40-125	%REC	1	17-Jul-2020 16:08
<i>Surr: 2-Fluorophenol</i>	49.9			20-120	%REC	1	17-Jul-2020 16:08
<i>Surr: 4-Terphenyl-d14</i>	80.8			40-135	%REC	1	17-Jul-2020 16:08
<i>Surr: Nitrobenzene-d5</i>	49.4			41-120	%REC	1	17-Jul-2020 16:08
<i>Surr: Phenol-d6</i>	59.2			20-120	%REC	1	17-Jul-2020 16:08
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 22-Jul-2020		Analyst: JHD	
Arsenic	0.000914	J	0.000400	0.00200	mg/L	1	22-Jul-2020 21:50

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW15B-20200714
 Collection Date: 14-Jul-2020 10:55

ANALYTICAL REPORT
 WorkOrder:HS20070656
 Lab ID:HS20070656-05
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	18-Jul-2020 04:58
Benzene	0.0025		0.00020	0.0010	mg/L	1	18-Jul-2020 04:58
Chlorobenzene	U		0.00030	0.0010	mg/L	1	18-Jul-2020 04:58
Ethylbenzene	0.0016		0.00030	0.0010	mg/L	1	18-Jul-2020 04:58
Methylene chloride	U		0.0010	0.0020	mg/L	1	18-Jul-2020 04:58
Toluene	U		0.00020	0.0010	mg/L	1	18-Jul-2020 04:58
Xylenes, Total	0.0026		0.00030	0.0010	mg/L	1	18-Jul-2020 04:58
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>101</i>			<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>18-Jul-2020 04:58</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>101</i>			<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>18-Jul-2020 04:58</i>
<i>Surr: Dibromofluoromethane</i>	<i>102</i>			<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>18-Jul-2020 04:58</i>
<i>Surr: Toluene-d8</i>	<i>99.5</i>			<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>18-Jul-2020 04:58</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW15B-20200714
 Collection Date: 14-Jul-2020 10:55

ANALYTICAL REPORT
 WorkOrder:HS20070656
 Lab ID:HS20070656-05
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 16-Jul-2020		Analyst: QX	
1,2-Diphenylhydrazine	U		0.000021	0.00020	mg/L	1	17-Jul-2020 16:27
2,4-Dimethylphenol	U		0.000040	0.00020	mg/L	1	17-Jul-2020 16:27
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	17-Jul-2020 16:27
2,6-Dinitrotoluene	U		0.000042	0.00020	mg/L	1	17-Jul-2020 16:27
2-Chloronaphthalene	U		0.000021	0.00020	mg/L	1	17-Jul-2020 16:27
2-Methylnaphthalene	0.013		0.00019	0.0010	mg/L	10	20-Jul-2020 22:28
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	17-Jul-2020 16:27
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	17-Jul-2020 16:27
Acenaphthene	0.019		0.00027	0.0010	mg/L	10	20-Jul-2020 22:28
Acenaphthylene	0.00018		0.000015	0.00010	mg/L	1	17-Jul-2020 16:27
Anthracene	0.0018		0.000014	0.00010	mg/L	1	17-Jul-2020 16:27
Benz(a)anthracene	0.00018		0.000050	0.00010	mg/L	1	17-Jul-2020 16:27
Benzo(a)pyrene	U		0.000020	0.00010	mg/L	1	17-Jul-2020 16:27
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	17-Jul-2020 16:27
Bis(2-ethylhexyl)phthalate	U		0.000037	0.00020	mg/L	1	17-Jul-2020 16:27
Chrysene	0.00015		0.000021	0.00010	mg/L	1	17-Jul-2020 16:27
Dibenzofuran	0.0097		0.00020	0.0010	mg/L	10	20-Jul-2020 22:28
Di-n-butyl phthalate	U		0.000020	0.00020	mg/L	1	17-Jul-2020 16:27
Fluoranthene	0.0037		0.000010	0.00010	mg/L	1	17-Jul-2020 16:27
Fluorene	0.0098		0.000030	0.00010	mg/L	1	17-Jul-2020 16:27
Naphthalene	0.32		0.0020	0.010	mg/L	100	20-Jul-2020 22:47
Nitrobenzene	U		0.000024	0.00020	mg/L	1	17-Jul-2020 16:27
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	17-Jul-2020 16:27
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	17-Jul-2020 16:27
Phenanthrene	0.0087		0.00021	0.0010	mg/L	10	20-Jul-2020 22:28
Phenol	U		0.000035	0.00020	mg/L	1	17-Jul-2020 16:27
Pyrene	0.0021		0.000019	0.00010	mg/L	1	17-Jul-2020 16:27
Surr: 2,4,6-Tribromophenol	43.2			34-129	%REC	10	20-Jul-2020 22:28
Surr: 2,4,6-Tribromophenol	0	JS		34-129	%REC	100	20-Jul-2020 22:47
Surr: 2,4,6-Tribromophenol	77.1			34-129	%REC	1	17-Jul-2020 16:27
Surr: 2-Fluorobiphenyl	40.8			40-125	%REC	1	17-Jul-2020 16:27
Surr: 2-Fluorobiphenyl	41.8			40-125	%REC	10	20-Jul-2020 22:28
Surr: 2-Fluorobiphenyl	0	JS		40-125	%REC	100	20-Jul-2020 22:47
Surr: 2-Fluorophenol	40.8			20-120	%REC	10	20-Jul-2020 22:28
Surr: 2-Fluorophenol	0	JS		20-120	%REC	100	20-Jul-2020 22:47
Surr: 2-Fluorophenol	46.4			20-120	%REC	1	17-Jul-2020 16:27
Surr: 4-Terphenyl-d14	77.4			40-135	%REC	10	20-Jul-2020 22:28
Surr: 4-Terphenyl-d14	0	JS		40-135	%REC	100	20-Jul-2020 22:47
Surr: 4-Terphenyl-d14	72.3			40-135	%REC	1	17-Jul-2020 16:27

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW15B-20200714
 Collection Date: 14-Jul-2020 10:55

ANALYTICAL REPORT
 WorkOrder:HS20070656
 Lab ID:HS20070656-05
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 16-Jul-2020		Analyst: QX	
Surr: Nitrobenzene-d5	53.2			41-120	%REC	1	17-Jul-2020 16:27
Surr: Nitrobenzene-d5	41.6			41-120	%REC	10	20-Jul-2020 22:28
Surr: Nitrobenzene-d5	0	JS		41-120	%REC	100	20-Jul-2020 22:47
Surr: Phenol-d6	55.1			20-120	%REC	1	17-Jul-2020 16:27
Surr: Phenol-d6	48.1			20-120	%REC	10	20-Jul-2020 22:28
Surr: Phenol-d6	0	JS		20-120	%REC	100	20-Jul-2020 22:47
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 22-Jul-2020		Analyst: JHD	
Arsenic	0.0131		0.000400	0.00200	mg/L	1	22-Jul-2020 21:52

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW19C-20200714
 Collection Date: 14-Jul-2020 11:40

ANALYTICAL REPORT
 WorkOrder:HS20070656
 Lab ID:HS20070656-06
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MLL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane		U	0.00020	0.0010	mg/L	1	18-Jul-2020 05:20
Benzene	0.00058	J	0.00020	0.0010	mg/L	1	18-Jul-2020 05:20
Chlorobenzene		U	0.00030	0.0010	mg/L	1	18-Jul-2020 05:20
Ethylbenzene	0.0011		0.00030	0.0010	mg/L	1	18-Jul-2020 05:20
Methylene chloride		U	0.0010	0.0020	mg/L	1	18-Jul-2020 05:20
Toluene	0.00058	J	0.00020	0.0010	mg/L	1	18-Jul-2020 05:20
Vinyl chloride		U	0.00020	0.0010	mg/L	1	18-Jul-2020 05:20
Xylenes, Total	0.0020		0.00030	0.0010	mg/L	1	18-Jul-2020 05:20
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>102</i>			<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>18-Jul-2020 05:20</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>99.3</i>			<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>18-Jul-2020 05:20</i>
<i>Surr: Dibromofluoromethane</i>	<i>102</i>			<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>18-Jul-2020 05:20</i>
<i>Surr: Toluene-d8</i>	<i>101</i>			<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>18-Jul-2020 05:20</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW19C-20200714
 Collection Date: 14-Jul-2020 11:40

ANALYTICAL REPORT
 WorkOrder:HS20070656
 Lab ID:HS20070656-06
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 16-Jul-2020		Analyst: QX	
1,2-Diphenylhydrazine	U		0.000021	0.00020	mg/L	1	17-Jul-2020 16:47
2,4-Dimethylphenol	U		0.000040	0.00020	mg/L	1	17-Jul-2020 16:47
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	17-Jul-2020 16:47
2,6-Dinitrotoluene	U		0.000042	0.00020	mg/L	1	17-Jul-2020 16:47
2-Chloronaphthalene	U		0.000021	0.00020	mg/L	1	17-Jul-2020 16:47
2-Methylnaphthalene	U		0.000019	0.00010	mg/L	1	17-Jul-2020 16:47
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	17-Jul-2020 16:47
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	17-Jul-2020 16:47
Acenaphthene	0.00084		0.000027	0.00010	mg/L	1	17-Jul-2020 16:47
Acenaphthylene	U		0.000015	0.00010	mg/L	1	17-Jul-2020 16:47
Anthracene	0.000070	J	0.000014	0.00010	mg/L	1	17-Jul-2020 16:47
Benz(a)anthracene	U		0.000050	0.00010	mg/L	1	17-Jul-2020 16:47
Benzo(a)pyrene	U		0.000020	0.00010	mg/L	1	17-Jul-2020 16:47
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	17-Jul-2020 16:47
Bis(2-ethylhexyl)phthalate	0.000060	J	0.000037	0.00020	mg/L	1	17-Jul-2020 16:47
Chrysene	0.000038	J	0.000021	0.00010	mg/L	1	17-Jul-2020 16:47
Dibenzofuran	0.00057		0.000020	0.00010	mg/L	1	17-Jul-2020 16:47
Di-n-butyl phthalate	U		0.000020	0.00020	mg/L	1	17-Jul-2020 16:47
Fluoranthene	0.00052		0.000010	0.00010	mg/L	1	17-Jul-2020 16:47
Fluorene	0.00029		0.000030	0.00010	mg/L	1	17-Jul-2020 16:47
Naphthalene	U		0.000020	0.00010	mg/L	1	17-Jul-2020 16:47
Nitrobenzene	U		0.000024	0.00020	mg/L	1	17-Jul-2020 16:47
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	17-Jul-2020 16:47
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	17-Jul-2020 16:47
Phenanthrene	0.00015		0.000021	0.00010	mg/L	1	17-Jul-2020 16:47
Phenol	U		0.000035	0.00020	mg/L	1	17-Jul-2020 16:47
Pyrene	0.00072		0.000019	0.00010	mg/L	1	17-Jul-2020 16:47
<i>Surr: 2,4,6-Tribromophenol</i>	70.1			34-129	%REC	1	17-Jul-2020 16:47
<i>Surr: 2-Fluorobiphenyl</i>	45.0			40-125	%REC	1	17-Jul-2020 16:47
<i>Surr: 2-Fluorophenol</i>	48.7			20-120	%REC	1	17-Jul-2020 16:47
<i>Surr: 4-Terphenyl-d14</i>	79.9			40-135	%REC	1	17-Jul-2020 16:47
<i>Surr: Nitrobenzene-d5</i>	50.4			41-120	%REC	1	17-Jul-2020 16:47
<i>Surr: Phenol-d6</i>	58.0			20-120	%REC	1	17-Jul-2020 16:47
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 22-Jul-2020		Analyst: JHD	
Arsenic	0.00108	J	0.000400	0.00200	mg/L	1	22-Jul-2020 21:54

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW23C-20200714
 Collection Date: 14-Jul-2020 12:25

ANALYTICAL REPORT
 WorkOrder:HS20070656
 Lab ID:HS20070656-07
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MLL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	18-Jul-2020 05:43
Benzene	0.0014		0.00020	0.0010	mg/L	1	18-Jul-2020 05:43
Chlorobenzene	U		0.00030	0.0010	mg/L	1	18-Jul-2020 05:43
Ethylbenzene	0.021		0.00030	0.0010	mg/L	1	18-Jul-2020 05:43
Methylene chloride	U		0.0010	0.0020	mg/L	1	18-Jul-2020 05:43
Toluene	0.0022		0.00020	0.0010	mg/L	1	18-Jul-2020 05:43
Vinyl chloride	U		0.00020	0.0010	mg/L	1	18-Jul-2020 05:43
Xylenes, Total	0.017		0.00030	0.0010	mg/L	1	18-Jul-2020 05:43
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>101</i>			<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>18-Jul-2020 05:43</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>102</i>			<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>18-Jul-2020 05:43</i>
<i>Surr: Dibromofluoromethane</i>	<i>103</i>			<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>18-Jul-2020 05:43</i>
<i>Surr: Toluene-d8</i>	<i>101</i>			<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>18-Jul-2020 05:43</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW23C-20200714
 Collection Date: 14-Jul-2020 12:25

ANALYTICAL REPORT
 WorkOrder:HS20070656
 Lab ID:HS20070656-07
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 16-Jul-2020		Analyst: QX	
1,2-Diphenylhydrazine	U		0.000021	0.00020	mg/L	1	17-Jul-2020 17:06
2,4-Dimethylphenol	0.022		0.00040	0.0020	mg/L	10	20-Jul-2020 23:06
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	17-Jul-2020 17:06
2,6-Dinitrotoluene	U		0.000042	0.00020	mg/L	1	17-Jul-2020 17:06
2-Chloronaphthalene	U		0.000021	0.00020	mg/L	1	17-Jul-2020 17:06
2-Methylnaphthalene	0.041		0.00019	0.0010	mg/L	10	20-Jul-2020 23:06
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	17-Jul-2020 17:06
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	17-Jul-2020 17:06
Acenaphthene	0.060		0.00027	0.0010	mg/L	10	20-Jul-2020 23:06
Acenaphthylene	0.0014		0.000015	0.00010	mg/L	1	17-Jul-2020 17:06
Anthracene	0.016		0.00014	0.0010	mg/L	10	20-Jul-2020 23:06
Benz(a)anthracene	0.0053		0.000050	0.00010	mg/L	1	17-Jul-2020 17:06
Benzo(a)pyrene	0.0017		0.000020	0.00010	mg/L	1	17-Jul-2020 17:06
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	17-Jul-2020 17:06
Bis(2-ethylhexyl)phthalate	0.00015	J	0.000037	0.00020	mg/L	1	17-Jul-2020 17:06
Chrysene	0.0040		0.000021	0.00010	mg/L	1	17-Jul-2020 17:06
Dibenzofuran	0.051		0.00020	0.0010	mg/L	10	20-Jul-2020 23:06
Di-n-butyl phthalate	U		0.000020	0.00020	mg/L	1	17-Jul-2020 17:06
Fluoranthene	0.029		0.00010	0.0010	mg/L	10	20-Jul-2020 23:06
Fluorene	0.041		0.00030	0.0010	mg/L	10	20-Jul-2020 23:06
Naphthalene	0.92		0.0020	0.010	mg/L	100	24-Jul-2020 13:36
Nitrobenzene	U		0.000024	0.00020	mg/L	1	17-Jul-2020 17:06
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	17-Jul-2020 17:06
Pentachlorophenol	0.00065		0.000079	0.00020	mg/L	1	17-Jul-2020 17:06
Phenanthrene	0.098		0.00021	0.0010	mg/L	10	20-Jul-2020 23:06
Phenol	0.0098		0.000035	0.00020	mg/L	1	17-Jul-2020 17:06
Pyrene	0.018		0.00019	0.0010	mg/L	10	20-Jul-2020 23:06
Surr: 2,4,6-Tribromophenol	0	JS		34-129	%REC	100	24-Jul-2020 13:36
Surr: 2,4,6-Tribromophenol	91.3			34-129	%REC	10	20-Jul-2020 23:06
Surr: 2,4,6-Tribromophenol	91.7			34-129	%REC	1	17-Jul-2020 17:06
Surr: 2-Fluorobiphenyl	49.7			40-125	%REC	1	17-Jul-2020 17:06
Surr: 2-Fluorobiphenyl	46.3			40-125	%REC	10	20-Jul-2020 23:06
Surr: 2-Fluorobiphenyl	0	JS		40-125	%REC	100	24-Jul-2020 13:36
Surr: 2-Fluorophenol	0	JS		20-120	%REC	100	24-Jul-2020 13:36
Surr: 2-Fluorophenol	43.3			20-120	%REC	10	20-Jul-2020 23:06
Surr: 2-Fluorophenol	56.7			20-120	%REC	1	17-Jul-2020 17:06
Surr: 4-Terphenyl-d14	81.2			40-135	%REC	1	17-Jul-2020 17:06
Surr: 4-Terphenyl-d14	76.4			40-135	%REC	10	20-Jul-2020 23:06
Surr: 4-Terphenyl-d14	0	JS		40-135	%REC	100	24-Jul-2020 13:36

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW23C-20200714
 Collection Date: 14-Jul-2020 12:25

ANALYTICAL REPORT
 WorkOrder:HS20070656
 Lab ID:HS20070656-07
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 16-Jul-2020		Analyst: QX	
Surr: Nitrobenzene-d5	0	JS		41-120	%REC	100	24-Jul-2020 13:36
Surr: Nitrobenzene-d5	41.1			41-120	%REC	10	20-Jul-2020 23:06
Surr: Nitrobenzene-d5	54.7			41-120	%REC	1	17-Jul-2020 17:06
Surr: Phenol-d6	67.5			20-120	%REC	1	17-Jul-2020 17:06
Surr: Phenol-d6	54.7			20-120	%REC	10	20-Jul-2020 23:06
Surr: Phenol-d6	0	JS		20-120	%REC	100	24-Jul-2020 13:36
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 22-Jul-2020		Analyst: JHD	
Arsenic	0.00196	J	0.000400	0.00200	mg/L	1	22-Jul-2020 21:56

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW72B-20200714
 Collection Date: 14-Jul-2020 14:10

ANALYTICAL REPORT
 WorkOrder:HS20070656
 Lab ID:HS20070656-08
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane		U	0.00020	0.0010	mg/L	1	18-Jul-2020 08:47
Benzene	0.92		0.0020	0.010	mg/L	10	18-Jul-2020 09:10
Chlorobenzene	0.00030	J	0.00030	0.0010	mg/L	1	18-Jul-2020 08:47
Ethylbenzene	0.23		0.0030	0.010	mg/L	10	18-Jul-2020 09:10
Methylene chloride		U	0.0010	0.0020	mg/L	1	18-Jul-2020 08:47
Toluene	0.75		0.0020	0.010	mg/L	10	18-Jul-2020 09:10
Xylenes, Total	0.54		0.00030	0.0010	mg/L	1	18-Jul-2020 08:47
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>97.6</i>			<i>70-126</i>	<i>%REC</i>	<i>10</i>	<i>18-Jul-2020 09:10</i>
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>94.9</i>			<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>18-Jul-2020 08:47</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>106</i>			<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>18-Jul-2020 08:47</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>101</i>			<i>81-113</i>	<i>%REC</i>	<i>10</i>	<i>18-Jul-2020 09:10</i>
<i>Surr: Dibromofluoromethane</i>	<i>101</i>			<i>77-123</i>	<i>%REC</i>	<i>10</i>	<i>18-Jul-2020 09:10</i>
<i>Surr: Dibromofluoromethane</i>	<i>102</i>			<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>18-Jul-2020 08:47</i>
<i>Surr: Toluene-d8</i>	<i>99.0</i>			<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>18-Jul-2020 08:47</i>
<i>Surr: Toluene-d8</i>	<i>99.4</i>			<i>82-127</i>	<i>%REC</i>	<i>10</i>	<i>18-Jul-2020 09:10</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW72B-20200714
 Collection Date: 14-Jul-2020 14:10

ANALYTICAL REPORT
 WorkOrder:HS20070656
 Lab ID:HS20070656-08
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 16-Jul-2020		Analyst: GEY	
1,2-Diphenylhydrazine	U		0.00021	0.0020	mg/L	10	24-Jul-2020 13:55
2,4-Dimethylphenol	22		0.40	2.0	mg/L	10000	25-Jul-2020 19:58
2,4-Dinitrotoluene	U		0.00058	0.0020	mg/L	10	24-Jul-2020 13:55
2,6-Dinitrotoluene	U		0.00042	0.0020	mg/L	10	24-Jul-2020 13:55
2-Chloronaphthalene	U		0.00021	0.0020	mg/L	10	24-Jul-2020 13:55
2-Methylnaphthalene	0.099		0.00019	0.0010	mg/L	10	24-Jul-2020 13:55
4,6-Dinitro-2-methylphenol	U		0.00020	0.0020	mg/L	10	24-Jul-2020 13:55
4-Nitrophenol	U		0.00047	0.010	mg/L	10	24-Jul-2020 13:55
Acenaphthene	0.063		0.00027	0.0010	mg/L	10	24-Jul-2020 13:55
Acenaphthylene	0.0018		0.00015	0.0010	mg/L	10	24-Jul-2020 13:55
Anthracene	0.0059		0.00014	0.0010	mg/L	10	24-Jul-2020 13:55
Benz(a)anthracene	0.00062	J	0.00050	0.0010	mg/L	10	24-Jul-2020 13:55
Benzo(a)pyrene	U		0.00020	0.0010	mg/L	10	24-Jul-2020 13:55
Bis(2-chloroethoxy)methane	U		0.00030	0.0020	mg/L	10	24-Jul-2020 13:55
Bis(2-ethylhexyl)phthalate	U		0.00037	0.0020	mg/L	10	24-Jul-2020 13:55
Chrysene	0.00027	J	0.00021	0.0010	mg/L	10	24-Jul-2020 13:55
Dibenzofuran	0.052		0.00020	0.0010	mg/L	10	24-Jul-2020 13:55
Di-n-butyl phthalate	U		0.00020	0.0020	mg/L	10	24-Jul-2020 13:55
Fluoranthene	0.0012		0.00010	0.0010	mg/L	10	24-Jul-2020 13:55
Fluorene	0.031		0.00030	0.0010	mg/L	10	24-Jul-2020 13:55
Naphthalene	8.8		0.020	0.10	mg/L	1000	24-Jul-2020 19:53
Nitrobenzene	U		0.00024	0.0020	mg/L	10	24-Jul-2020 13:55
N-Nitrosodiphenylamine	U		0.00025	0.0020	mg/L	10	24-Jul-2020 13:55
Pentachlorophenol	U		0.00079	0.0020	mg/L	10	24-Jul-2020 13:55
Phenanthrene	0.028		0.00021	0.0010	mg/L	10	24-Jul-2020 13:55
Phenol	6.4		0.035	0.20	mg/L	1000	24-Jul-2020 19:53
Pyrene	0.00093	J	0.00019	0.0010	mg/L	10	24-Jul-2020 13:55
<i>Surr: 2,4,6-Tribromophenol</i>	<i>0</i>	<i>JS</i>		<i>34-129</i>	<i>%REC</i>	<i>10000</i>	<i>25-Jul-2020 19:58</i>
<i>Surr: 2,4,6-Tribromophenol</i>	<i>54.0</i>			<i>34-129</i>	<i>%REC</i>	<i>10</i>	<i>24-Jul-2020 13:55</i>
<i>Surr: 2,4,6-Tribromophenol</i>	<i>0</i>	<i>JS</i>		<i>34-129</i>	<i>%REC</i>	<i>1000</i>	<i>24-Jul-2020 19:53</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>55.3</i>			<i>40-125</i>	<i>%REC</i>	<i>10</i>	<i>24-Jul-2020 13:55</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>0</i>	<i>JS</i>		<i>40-125</i>	<i>%REC</i>	<i>1000</i>	<i>24-Jul-2020 19:53</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>0</i>	<i>JS</i>		<i>40-125</i>	<i>%REC</i>	<i>10000</i>	<i>25-Jul-2020 19:58</i>
<i>Surr: 2-Fluorophenol</i>	<i>0</i>	<i>JS</i>		<i>20-120</i>	<i>%REC</i>	<i>10000</i>	<i>25-Jul-2020 19:58</i>
<i>Surr: 2-Fluorophenol</i>	<i>92.7</i>			<i>20-120</i>	<i>%REC</i>	<i>10</i>	<i>24-Jul-2020 13:55</i>
<i>Surr: 2-Fluorophenol</i>	<i>0</i>	<i>JS</i>		<i>20-120</i>	<i>%REC</i>	<i>1000</i>	<i>24-Jul-2020 19:53</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>65.8</i>			<i>40-135</i>	<i>%REC</i>	<i>10</i>	<i>24-Jul-2020 13:55</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>0</i>	<i>JS</i>		<i>40-135</i>	<i>%REC</i>	<i>1000</i>	<i>24-Jul-2020 19:53</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>0</i>	<i>JS</i>		<i>40-135</i>	<i>%REC</i>	<i>10000</i>	<i>25-Jul-2020 19:58</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW72B-20200714
 Collection Date: 14-Jul-2020 14:10

ANALYTICAL REPORT
 WorkOrder:HS20070656
 Lab ID:HS20070656-08
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 16-Jul-2020		Analyst: GEY	
Surr: Nitrobenzene-d5	0	JS		41-120	%REC	10000	25-Jul-2020 19:58
Surr: Nitrobenzene-d5	74.7			41-120	%REC	10	24-Jul-2020 13:55
Surr: Nitrobenzene-d5	0	JS		41-120	%REC	1000	24-Jul-2020 19:53
Surr: Phenol-d6	103			20-120	%REC	10	24-Jul-2020 13:55
Surr: Phenol-d6	0	JS		20-120	%REC	1000	24-Jul-2020 19:53
Surr: Phenol-d6	0	JS		20-120	%REC	10000	25-Jul-2020 19:58
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 22-Jul-2020		Analyst: JHD	
Arsenic	0.00106	J	0.000400	0.00200	mg/L	1	22-Jul-2020 22:35

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW18A-20200714
 Collection Date: 14-Jul-2020 15:00

ANALYTICAL REPORT
 WorkOrder:HS20070656
 Lab ID:HS20070656-09
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MLL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: PC			
1,2-Dichloroethane		U	0.00020	0.0010	mg/L	1	17-Jul-2020 21:17
Benzene	0.59		0.0020	0.010	mg/L	10	17-Jul-2020 21:41
Chlorobenzene	0.00089	J	0.00030	0.0010	mg/L	1	17-Jul-2020 21:17
Ethylbenzene	0.22		0.0030	0.010	mg/L	10	17-Jul-2020 21:41
Methylene chloride		U	0.0010	0.0020	mg/L	1	17-Jul-2020 21:17
Toluene	0.058		0.00020	0.0010	mg/L	1	17-Jul-2020 21:17
Vinyl chloride	0.0035		0.00020	0.0010	mg/L	1	17-Jul-2020 21:17
Xylenes, Total	0.29		0.00030	0.0010	mg/L	1	17-Jul-2020 21:17
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>90.0</i>			<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>17-Jul-2020 21:17</i>
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>91.4</i>			<i>70-126</i>	<i>%REC</i>	<i>10</i>	<i>17-Jul-2020 21:41</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>101</i>			<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>17-Jul-2020 21:17</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>100</i>			<i>81-113</i>	<i>%REC</i>	<i>10</i>	<i>17-Jul-2020 21:41</i>
<i>Surr: Dibromofluoromethane</i>	<i>95.3</i>			<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>17-Jul-2020 21:17</i>
<i>Surr: Dibromofluoromethane</i>	<i>95.7</i>			<i>77-123</i>	<i>%REC</i>	<i>10</i>	<i>17-Jul-2020 21:41</i>
<i>Surr: Toluene-d8</i>	<i>97.3</i>			<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>17-Jul-2020 21:17</i>
<i>Surr: Toluene-d8</i>	<i>98.3</i>			<i>82-127</i>	<i>%REC</i>	<i>10</i>	<i>17-Jul-2020 21:41</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW18A-20200714
 Collection Date: 14-Jul-2020 15:00

ANALYTICAL REPORT

WorkOrder:HS20070656
 Lab ID:HS20070656-09
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 16-Jul-2020		Analyst: GEY	
1,2-Diphenylhydrazine	U		0.00021	0.0020	mg/L	10	24-Jul-2020 14:35
2,4-Dimethylphenol	7.9		0.40	2.0	mg/L	10000	24-Jul-2020 20:13
2,4-Dinitrotoluene	U		0.00058	0.0020	mg/L	10	24-Jul-2020 14:35
2,6-Dinitrotoluene	U		0.00042	0.0020	mg/L	10	24-Jul-2020 14:35
2-Chloronaphthalene	U		0.00021	0.0020	mg/L	10	24-Jul-2020 14:35
2-Methylnaphthalene	0.54		0.0019	0.010	mg/L	100	21-Jul-2020 00:03
4,6-Dinitro-2-methylphenol	U		0.00020	0.0020	mg/L	10	24-Jul-2020 14:35
4-Nitrophenol	U		0.00047	0.010	mg/L	10	24-Jul-2020 14:35
Acenaphthene	0.32		0.0027	0.010	mg/L	100	21-Jul-2020 00:03
Acenaphthylene	0.0056		0.00015	0.0010	mg/L	10	24-Jul-2020 14:35
Anthracene	0.0059		0.00014	0.0010	mg/L	10	24-Jul-2020 14:35
Benz(a)anthracene	U		0.00050	0.0010	mg/L	10	24-Jul-2020 14:35
Benzo(a)pyrene	U		0.00020	0.0010	mg/L	10	24-Jul-2020 14:35
Bis(2-chloroethoxy)methane	U		0.00030	0.0020	mg/L	10	24-Jul-2020 14:35
Bis(2-ethylhexyl)phthalate	U		0.00037	0.0020	mg/L	10	24-Jul-2020 14:35
Chrysene	U		0.00021	0.0010	mg/L	10	24-Jul-2020 14:35
Dibenzofuran	0.097		0.00020	0.0010	mg/L	10	24-Jul-2020 14:35
Di-n-butyl phthalate	U		0.00020	0.0020	mg/L	10	24-Jul-2020 14:35
Fluoranthene	0.0014		0.00010	0.0010	mg/L	10	24-Jul-2020 14:35
Fluorene	0.075		0.00030	0.0010	mg/L	10	24-Jul-2020 14:35
Naphthalene	7.8		0.020	0.10	mg/L	1000	24-Jul-2020 14:55
Nitrobenzene	U		0.00024	0.0020	mg/L	10	24-Jul-2020 14:35
N-Nitrosodiphenylamine	U		0.00025	0.0020	mg/L	10	24-Jul-2020 14:35
Pentachlorophenol	U		0.00079	0.0020	mg/L	10	24-Jul-2020 14:35
Phenanthrene	0.056		0.00021	0.0010	mg/L	10	24-Jul-2020 14:35
Phenol	0.0018	J	0.00035	0.0020	mg/L	10	24-Jul-2020 14:35
Pyrene	0.00085	J	0.00019	0.0010	mg/L	10	24-Jul-2020 14:35
<i>Surr: 2,4,6-Tribromophenol</i>	<i>0</i>	<i>JS</i>		<i>34-129</i>	<i>%REC</i>	<i>10000</i>	<i>24-Jul-2020 20:13</i>
<i>Surr: 2,4,6-Tribromophenol</i>	<i>0</i>	<i>JS</i>		<i>34-129</i>	<i>%REC</i>	<i>100</i>	<i>21-Jul-2020 00:03</i>
<i>Surr: 2,4,6-Tribromophenol</i>	<i>95.4</i>			<i>34-129</i>	<i>%REC</i>	<i>10</i>	<i>24-Jul-2020 14:35</i>
<i>Surr: 2,4,6-Tribromophenol</i>	<i>0</i>	<i>JS</i>		<i>34-129</i>	<i>%REC</i>	<i>1000</i>	<i>24-Jul-2020 14:55</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>69.1</i>			<i>40-125</i>	<i>%REC</i>	<i>10</i>	<i>24-Jul-2020 14:35</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>0</i>	<i>JS</i>		<i>40-125</i>	<i>%REC</i>	<i>1000</i>	<i>24-Jul-2020 14:55</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>0</i>	<i>JS</i>		<i>40-125</i>	<i>%REC</i>	<i>100</i>	<i>21-Jul-2020 00:03</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>0</i>	<i>JS</i>		<i>40-125</i>	<i>%REC</i>	<i>10000</i>	<i>24-Jul-2020 20:13</i>
<i>Surr: 2-Fluorophenol</i>	<i>0</i>	<i>JS</i>		<i>20-120</i>	<i>%REC</i>	<i>10000</i>	<i>24-Jul-2020 20:13</i>
<i>Surr: 2-Fluorophenol</i>	<i>0</i>	<i>JS</i>		<i>20-120</i>	<i>%REC</i>	<i>100</i>	<i>21-Jul-2020 00:03</i>
<i>Surr: 2-Fluorophenol</i>	<i>72.9</i>			<i>20-120</i>	<i>%REC</i>	<i>10</i>	<i>24-Jul-2020 14:35</i>
<i>Surr: 2-Fluorophenol</i>	<i>0</i>	<i>JS</i>		<i>20-120</i>	<i>%REC</i>	<i>1000</i>	<i>24-Jul-2020 14:55</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW18A-20200714
 Collection Date: 14-Jul-2020 15:00

ANALYTICAL REPORT
 WorkOrder:HS20070656
 Lab ID:HS20070656-09
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 16-Jul-2020		Analyst: GEY	
Surr: 4-Terphenyl-d14	0	JS		40-135	%REC	10000	24-Jul-2020 20:13
Surr: 4-Terphenyl-d14	0	JS		40-135	%REC	100	21-Jul-2020 00:03
Surr: 4-Terphenyl-d14	84.8			40-135	%REC	10	24-Jul-2020 14:35
Surr: 4-Terphenyl-d14	0	JS		40-135	%REC	1000	24-Jul-2020 14:55
Surr: Nitrobenzene-d5	61.0			41-120	%REC	10	24-Jul-2020 14:35
Surr: Nitrobenzene-d5	0	JS		41-120	%REC	1000	24-Jul-2020 14:55
Surr: Nitrobenzene-d5	0	JS		41-120	%REC	100	21-Jul-2020 00:03
Surr: Nitrobenzene-d5	0	JS		41-120	%REC	10000	24-Jul-2020 20:13
Surr: Phenol-d6	0	JS		20-120	%REC	10000	24-Jul-2020 20:13
Surr: Phenol-d6	0	JS		20-120	%REC	100	21-Jul-2020 00:03
Surr: Phenol-d6	96.7			20-120	%REC	10	24-Jul-2020 14:35
Surr: Phenol-d6	0	JS		20-120	%REC	1000	24-Jul-2020 14:55
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 22-Jul-2020		Analyst: JHD	
Arsenic	0.0428		0.000400	0.00200	mg/L	1	22-Jul-2020 22:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW18C-20200714
 Collection Date: 14-Jul-2020 15:50

ANALYTICAL REPORT
 WorkOrder:HS20070656
 Lab ID:HS20070656-10
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260					Analyst: PC
1,2-Dichloroethane		U	0.0010	0.0050	mg/L	5	18-Jul-2020 09:54
Benzene	0.96		0.0010	0.0050	mg/L	5	18-Jul-2020 09:54
Chlorobenzene		U	0.0015	0.0050	mg/L	5	18-Jul-2020 09:54
Ethylbenzene	0.26		0.0015	0.0050	mg/L	5	18-Jul-2020 09:54
Methylene chloride		U	0.0050	0.010	mg/L	5	18-Jul-2020 09:54
Toluene	0.71		0.0010	0.0050	mg/L	5	18-Jul-2020 09:54
Vinyl chloride		U	0.0010	0.0050	mg/L	5	18-Jul-2020 09:54
Xylenes, Total	0.82		0.0015	0.0050	mg/L	5	18-Jul-2020 09:54
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>92.9</i>			<i>70-126</i>	<i>%REC</i>	5	<i>18-Jul-2020 09:54</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>99.5</i>			<i>81-113</i>	<i>%REC</i>	5	<i>18-Jul-2020 09:54</i>
<i>Surr: Dibromofluoromethane</i>	<i>96.5</i>			<i>77-123</i>	<i>%REC</i>	5	<i>18-Jul-2020 09:54</i>
<i>Surr: Toluene-d8</i>	<i>96.7</i>			<i>82-127</i>	<i>%REC</i>	5	<i>18-Jul-2020 09:54</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW18C-20200714
 Collection Date: 14-Jul-2020 15:50

ANALYTICAL REPORT
 WorkOrder:HS20070656
 Lab ID:HS20070656-10
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 16-Jul-2020		Analyst: GEY	
1,2-Diphenylhydrazine	U		0.00021	0.0020	mg/L	10	24-Jul-2020 15:15
2,4-Dimethylphenol	0.067		0.00040	0.0020	mg/L	10	24-Jul-2020 15:15
2,4-Dinitrotoluene	U		0.00058	0.0020	mg/L	10	24-Jul-2020 15:15
2,6-Dinitrotoluene	U		0.00042	0.0020	mg/L	10	24-Jul-2020 15:15
2-Chloronaphthalene	U		0.00021	0.0020	mg/L	10	24-Jul-2020 15:15
2-Methylnaphthalene	0.32		0.0019	0.010	mg/L	100	21-Jul-2020 00:22
4,6-Dinitro-2-methylphenol	U		0.00020	0.0020	mg/L	10	24-Jul-2020 15:15
4-Nitrophenol	U		0.00047	0.010	mg/L	10	24-Jul-2020 15:15
Acenaphthene	0.053		0.00027	0.0010	mg/L	10	24-Jul-2020 15:15
Acenaphthylene	0.0018		0.00015	0.0010	mg/L	10	24-Jul-2020 15:15
Anthracene	0.0071		0.00014	0.0010	mg/L	10	24-Jul-2020 15:15
Benz(a)anthracene	U		0.00050	0.0010	mg/L	10	24-Jul-2020 15:15
Benzo(a)pyrene	U		0.00020	0.0010	mg/L	10	24-Jul-2020 15:15
Bis(2-chloroethoxy)methane	U		0.00030	0.0020	mg/L	10	24-Jul-2020 15:15
Bis(2-ethylhexyl)phthalate	U		0.00037	0.0020	mg/L	10	24-Jul-2020 15:15
Chrysene	U		0.00021	0.0010	mg/L	10	24-Jul-2020 15:15
Dibenzofuran	0.049		0.00020	0.0010	mg/L	10	24-Jul-2020 15:15
Di-n-butyl phthalate	U		0.00020	0.0020	mg/L	10	24-Jul-2020 15:15
Fluoranthene	0.0033		0.00010	0.0010	mg/L	10	24-Jul-2020 15:15
Fluorene	0.027		0.00030	0.0010	mg/L	10	24-Jul-2020 15:15
Naphthalene	10		0.20	1.0	mg/L	10000	27-Jul-2020 16:04
Nitrobenzene	U		0.00024	0.0020	mg/L	10	24-Jul-2020 15:15
N-Nitrosodiphenylamine	U		0.00025	0.0020	mg/L	10	24-Jul-2020 15:15
Pentachlorophenol	0.015		0.00079	0.0020	mg/L	10	24-Jul-2020 15:15
Phenanthrene	0.027		0.00021	0.0010	mg/L	10	24-Jul-2020 15:15
Phenol	0.0031		0.00035	0.0020	mg/L	10	24-Jul-2020 15:15
Pyrene	0.0025		0.00019	0.0010	mg/L	10	24-Jul-2020 15:15
<i>Surr: 2,4,6-Tribromophenol</i>	<i>77.8</i>			<i>34-129</i>	<i>%REC</i>	<i>10</i>	<i>24-Jul-2020 15:15</i>
<i>Surr: 2,4,6-Tribromophenol</i>	<i>0</i>	<i>JS</i>		<i>34-129</i>	<i>%REC</i>	<i>10000</i>	<i>27-Jul-2020 16:04</i>
<i>Surr: 2,4,6-Tribromophenol</i>	<i>0</i>	<i>JS</i>		<i>34-129</i>	<i>%REC</i>	<i>100</i>	<i>21-Jul-2020 00:22</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>0</i>	<i>JS</i>		<i>40-125</i>	<i>%REC</i>	<i>100</i>	<i>21-Jul-2020 00:22</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>0</i>	<i>JS</i>		<i>40-125</i>	<i>%REC</i>	<i>10000</i>	<i>27-Jul-2020 16:04</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>57.5</i>			<i>40-125</i>	<i>%REC</i>	<i>10</i>	<i>24-Jul-2020 15:15</i>
<i>Surr: 2-Fluorophenol</i>	<i>97.3</i>			<i>20-120</i>	<i>%REC</i>	<i>10</i>	<i>24-Jul-2020 15:15</i>
<i>Surr: 2-Fluorophenol</i>	<i>0</i>	<i>JS</i>		<i>20-120</i>	<i>%REC</i>	<i>10000</i>	<i>27-Jul-2020 16:04</i>
<i>Surr: 2-Fluorophenol</i>	<i>0</i>	<i>JS</i>		<i>20-120</i>	<i>%REC</i>	<i>100</i>	<i>21-Jul-2020 00:22</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>0</i>	<i>JS</i>		<i>40-135</i>	<i>%REC</i>	<i>100</i>	<i>21-Jul-2020 00:22</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>0</i>	<i>JS</i>		<i>40-135</i>	<i>%REC</i>	<i>10000</i>	<i>27-Jul-2020 16:04</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>58.8</i>			<i>40-135</i>	<i>%REC</i>	<i>10</i>	<i>24-Jul-2020 15:15</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW18C-20200714
 Collection Date: 14-Jul-2020 15:50

ANALYTICAL REPORT
 WorkOrder:HS20070656
 Lab ID:HS20070656-10
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 16-Jul-2020		Analyst: GEY	
Surr: Nitrobenzene-d5	64.5			41-120	%REC	10	24-Jul-2020 15:15
Surr: Nitrobenzene-d5	0	JS		41-120	%REC	100	21-Jul-2020 00:22
Surr: Nitrobenzene-d5	0	JS		41-120	%REC	10000	27-Jul-2020 16:04
Surr: Phenol-d6	0	JS		20-120	%REC	10000	27-Jul-2020 16:04
Surr: Phenol-d6	0	JS		20-120	%REC	100	21-Jul-2020 00:22
Surr: Phenol-d6	67.3			20-120	%REC	10	24-Jul-2020 15:15
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 22-Jul-2020		Analyst: JHD	
Arsenic	0.00240		0.000400	0.00200	mg/L	1	22-Jul-2020 22:01

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW17-20200714
 Collection Date: 14-Jul-2020 16:50

ANALYTICAL REPORT
 WorkOrder:HS20070656
 Lab ID:HS20070656-11
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: PC			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	18-Jul-2020 08:17
Benzene	0.41		0.0020	0.010	mg/L	10	18-Jul-2020 08:41
Chlorobenzene	U		0.00030	0.0010	mg/L	1	18-Jul-2020 08:17
Ethylbenzene	0.20		0.00030	0.0010	mg/L	1	18-Jul-2020 08:17
Methylene chloride	U		0.0010	0.0020	mg/L	1	18-Jul-2020 08:17
Toluene	0.65		0.0020	0.010	mg/L	10	18-Jul-2020 08:41
Xylenes, Total	0.60		0.0030	0.010	mg/L	10	18-Jul-2020 08:41
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>92.4</i>			<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>18-Jul-2020 08:17</i>
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>90.6</i>			<i>70-126</i>	<i>%REC</i>	<i>10</i>	<i>18-Jul-2020 08:41</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>101</i>			<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>18-Jul-2020 08:17</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>99.5</i>			<i>81-113</i>	<i>%REC</i>	<i>10</i>	<i>18-Jul-2020 08:41</i>
<i>Surr: Dibromofluoromethane</i>	<i>95.1</i>			<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>18-Jul-2020 08:17</i>
<i>Surr: Dibromofluoromethane</i>	<i>94.1</i>			<i>77-123</i>	<i>%REC</i>	<i>10</i>	<i>18-Jul-2020 08:41</i>
<i>Surr: Toluene-d8</i>	<i>97.9</i>			<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>18-Jul-2020 08:17</i>
<i>Surr: Toluene-d8</i>	<i>97.8</i>			<i>82-127</i>	<i>%REC</i>	<i>10</i>	<i>18-Jul-2020 08:41</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW17-20200714
 Collection Date: 14-Jul-2020 16:50

ANALYTICAL REPORT
 WorkOrder:HS20070656
 Lab ID:HS20070656-11
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 17-Jul-2020		Analyst: GEY	
1,2-Diphenylhydrazine	U		0.00021	0.0020	mg/L	10	23-Jul-2020 23:27
2,4-Dimethylphenol	11		0.40	2.0	mg/L	10000	24-Jul-2020 15:55
2,4-Dinitrotoluene	U		0.00058	0.0020	mg/L	10	23-Jul-2020 23:27
2,6-Dinitrotoluene	U		0.00042	0.0020	mg/L	10	23-Jul-2020 23:27
2-Chloronaphthalene	U		0.00021	0.0020	mg/L	10	23-Jul-2020 23:27
2-Methylnaphthalene	0.62		0.0019	0.010	mg/L	100	23-Jul-2020 23:47
4,6-Dinitro-2-methylphenol	U		0.00020	0.0020	mg/L	10	23-Jul-2020 23:27
4-Nitrophenol	U		0.00047	0.010	mg/L	10	23-Jul-2020 23:27
Acenaphthene	0.25		0.0027	0.010	mg/L	100	23-Jul-2020 23:47
Acenaphthylene	0.0039		0.00015	0.0010	mg/L	10	23-Jul-2020 23:27
Anthracene	0.0086		0.00014	0.0010	mg/L	10	23-Jul-2020 23:27
Benz(a)anthracene	U		0.00050	0.0010	mg/L	10	23-Jul-2020 23:27
Benzo(a)pyrene	U		0.00020	0.0010	mg/L	10	23-Jul-2020 23:27
Bis(2-chloroethoxy)methane	U		0.00030	0.0020	mg/L	10	23-Jul-2020 23:27
Bis(2-ethylhexyl)phthalate	U		0.00037	0.0020	mg/L	10	23-Jul-2020 23:27
Chrysene	U		0.00021	0.0010	mg/L	10	23-Jul-2020 23:27
Dibenzofuran	0.100		0.00020	0.0010	mg/L	10	23-Jul-2020 23:27
Di-n-butyl phthalate	U		0.00020	0.0020	mg/L	10	23-Jul-2020 23:27
Fluoranthene	0.0030		0.00010	0.0010	mg/L	10	23-Jul-2020 23:27
Fluorene	0.066		0.00030	0.0010	mg/L	10	23-Jul-2020 23:27
Naphthalene	18		0.20	1.0	mg/L	10000	24-Jul-2020 15:55
Nitrobenzene	U		0.00024	0.0020	mg/L	10	23-Jul-2020 23:27
N-Nitrosodiphenylamine	U		0.00025	0.0020	mg/L	10	23-Jul-2020 23:27
Pentachlorophenol	U		0.00079	0.0020	mg/L	10	23-Jul-2020 23:27
Phenanthrene	0.048		0.00021	0.0010	mg/L	10	23-Jul-2020 23:27
Phenol	33		0.35	2.0	mg/L	10000	24-Jul-2020 15:55
Pyrene	0.0017		0.00019	0.0010	mg/L	10	23-Jul-2020 23:27
Surr: 2,4,6-Tribromophenol	0	JS		34-129	%REC	10000	24-Jul-2020 15:55
Surr: 2,4,6-Tribromophenol	126			34-129	%REC	10	23-Jul-2020 23:27
Surr: 2,4,6-Tribromophenol	0	JS		34-129	%REC	100	23-Jul-2020 23:47
Surr: 2-Fluorobiphenyl	64.5			40-125	%REC	10	23-Jul-2020 23:27
Surr: 2-Fluorobiphenyl	0	JS		40-125	%REC	100	23-Jul-2020 23:47
Surr: 2-Fluorobiphenyl	0	JS		40-125	%REC	10000	24-Jul-2020 15:55
Surr: 2-Fluorophenol	0	JS		20-120	%REC	10000	24-Jul-2020 15:55
Surr: 2-Fluorophenol	91.7			20-120	%REC	10	23-Jul-2020 23:27
Surr: 2-Fluorophenol	0	JS		20-120	%REC	100	23-Jul-2020 23:47
Surr: 4-Terphenyl-d14	86.9			40-135	%REC	10	23-Jul-2020 23:27
Surr: 4-Terphenyl-d14	0	JS		40-135	%REC	100	23-Jul-2020 23:47
Surr: 4-Terphenyl-d14	0	JS		40-135	%REC	10000	24-Jul-2020 15:55

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW17-20200714
 Collection Date: 14-Jul-2020 16:50

ANALYTICAL REPORT

WorkOrder:HS20070656
 Lab ID:HS20070656-11
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 17-Jul-2020		Analyst: GEY	
Surr: Nitrobenzene-d5	63.4			41-120	%REC	10	23-Jul-2020 23:27
Surr: Nitrobenzene-d5	0	JS		41-120	%REC	10000	24-Jul-2020 15:55
Surr: Nitrobenzene-d5	0	JS		41-120	%REC	100	23-Jul-2020 23:47
Surr: Phenol-d6	0	JS		20-120	%REC	100	23-Jul-2020 23:47
Surr: Phenol-d6	0	JS		20-120	%REC	10000	24-Jul-2020 15:55
Surr: Phenol-d6	83.6			20-120	%REC	10	23-Jul-2020 23:27
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 22-Jul-2020		Analyst: JHD	
Arsenic	0.0514		0.000400	0.00200	mg/L	1	22-Jul-2020 22:03

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW17C-20200714
 Collection Date: 14-Jul-2020 17:40

ANALYTICAL REPORT
 WorkOrder:HS20070656
 Lab ID:HS20070656-12
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	18-Jul-2020 06:06
Benzene	0.0071		0.00020	0.0010	mg/L	1	18-Jul-2020 06:06
Chlorobenzene	U		0.00030	0.0010	mg/L	1	18-Jul-2020 06:06
Ethylbenzene	0.11		0.00030	0.0010	mg/L	1	18-Jul-2020 06:06
Methylene chloride	U		0.0010	0.0020	mg/L	1	18-Jul-2020 06:06
Toluene	0.0036		0.00020	0.0010	mg/L	1	18-Jul-2020 06:06
Xylenes, Total	0.056		0.00030	0.0010	mg/L	1	18-Jul-2020 06:06
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>100</i>			<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>18-Jul-2020 06:06</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>102</i>			<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>18-Jul-2020 06:06</i>
<i>Surr: Dibromofluoromethane</i>	<i>103</i>			<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>18-Jul-2020 06:06</i>
<i>Surr: Toluene-d8</i>	<i>99.5</i>			<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>18-Jul-2020 06:06</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW17C-20200714
 Collection Date: 14-Jul-2020 17:40

ANALYTICAL REPORT
 WorkOrder:HS20070656
 Lab ID:HS20070656-12
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 17-Jul-2020		Analyst: GEY	
1,2-Diphenylhydrazine		U	0.00021	0.0020	mg/L	10	24-Jul-2020 00:07
2,4-Dimethylphenol	0.17		0.0040	0.020	mg/L	100	24-Jul-2020 00:26
2,4-Dinitrotoluene		U	0.00058	0.0020	mg/L	10	24-Jul-2020 00:07
2,6-Dinitrotoluene		U	0.00042	0.0020	mg/L	10	24-Jul-2020 00:07
2-Chloronaphthalene		U	0.00021	0.0020	mg/L	10	24-Jul-2020 00:07
2-Methylnaphthalene	0.048		0.00019	0.0010	mg/L	10	24-Jul-2020 00:07
4,6-Dinitro-2-methylphenol		U	0.00020	0.0020	mg/L	10	24-Jul-2020 00:07
4-Nitrophenol		U	0.00047	0.010	mg/L	10	24-Jul-2020 00:07
Acenaphthene	0.079		0.00027	0.0010	mg/L	10	24-Jul-2020 00:07
Acenaphthylene	0.0011		0.00015	0.0010	mg/L	10	24-Jul-2020 00:07
Anthracene	0.0063		0.00014	0.0010	mg/L	10	24-Jul-2020 00:07
Benz(a)anthracene		U	0.00050	0.0010	mg/L	10	24-Jul-2020 00:07
Benzo(a)pyrene		U	0.00020	0.0010	mg/L	10	24-Jul-2020 00:07
Bis(2-chloroethoxy)methane		U	0.00030	0.0020	mg/L	10	24-Jul-2020 00:07
Bis(2-ethylhexyl)phthalate		U	0.00037	0.0020	mg/L	10	24-Jul-2020 00:07
Chrysene		U	0.00021	0.0010	mg/L	10	24-Jul-2020 00:07
Dibenzofuran	0.068		0.00020	0.0010	mg/L	10	24-Jul-2020 00:07
Di-n-butyl phthalate		U	0.00020	0.0020	mg/L	10	24-Jul-2020 00:07
Fluoranthene	0.0034		0.00010	0.0010	mg/L	10	24-Jul-2020 00:07
Fluorene	0.042		0.00030	0.0010	mg/L	10	24-Jul-2020 00:07
Naphthalene	2.6		0.020	0.10	mg/L	1000	24-Jul-2020 00:46
Nitrobenzene		U	0.00024	0.0020	mg/L	10	24-Jul-2020 00:07
N-Nitrosodiphenylamine		U	0.00025	0.0020	mg/L	10	24-Jul-2020 00:07
Pentachlorophenol		U	0.00079	0.0020	mg/L	10	24-Jul-2020 00:07
Phenanthrene	0.047		0.00021	0.0010	mg/L	10	24-Jul-2020 00:07
Phenol	0.18		0.0035	0.020	mg/L	100	24-Jul-2020 00:26
Pyrene	0.0017		0.00019	0.0010	mg/L	10	24-Jul-2020 00:07
<i>Surr: 2,4,6-Tribromophenol</i>	<i>108</i>			<i>34-129</i>	<i>%REC</i>	<i>10</i>	<i>24-Jul-2020 00:07</i>
<i>Surr: 2,4,6-Tribromophenol</i>	<i>0</i>	<i>JS</i>		<i>34-129</i>	<i>%REC</i>	<i>100</i>	<i>24-Jul-2020 00:26</i>
<i>Surr: 2,4,6-Tribromophenol</i>	<i>0</i>	<i>JS</i>		<i>34-129</i>	<i>%REC</i>	<i>1000</i>	<i>24-Jul-2020 00:46</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>57.3</i>			<i>40-125</i>	<i>%REC</i>	<i>10</i>	<i>24-Jul-2020 00:07</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>0</i>	<i>JS</i>		<i>40-125</i>	<i>%REC</i>	<i>100</i>	<i>24-Jul-2020 00:26</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>0</i>	<i>JS</i>		<i>40-125</i>	<i>%REC</i>	<i>1000</i>	<i>24-Jul-2020 00:46</i>
<i>Surr: 2-Fluorophenol</i>	<i>67.3</i>			<i>20-120</i>	<i>%REC</i>	<i>10</i>	<i>24-Jul-2020 00:07</i>
<i>Surr: 2-Fluorophenol</i>	<i>0</i>	<i>JS</i>		<i>20-120</i>	<i>%REC</i>	<i>100</i>	<i>24-Jul-2020 00:26</i>
<i>Surr: 2-Fluorophenol</i>	<i>0</i>	<i>JS</i>		<i>20-120</i>	<i>%REC</i>	<i>1000</i>	<i>24-Jul-2020 00:46</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>87.8</i>			<i>40-135</i>	<i>%REC</i>	<i>10</i>	<i>24-Jul-2020 00:07</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>0</i>	<i>JS</i>		<i>40-135</i>	<i>%REC</i>	<i>100</i>	<i>24-Jul-2020 00:26</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>0</i>	<i>JS</i>		<i>40-135</i>	<i>%REC</i>	<i>1000</i>	<i>24-Jul-2020 00:46</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW17C-20200714
 Collection Date: 14-Jul-2020 17:40

ANALYTICAL REPORT
 WorkOrder:HS20070656
 Lab ID:HS20070656-12
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 17-Jul-2020		Analyst: GEY	
Surr: Nitrobenzene-d5	69.1			41-120	%REC	10	24-Jul-2020 00:07
Surr: Nitrobenzene-d5	0	JS		41-120	%REC	100	24-Jul-2020 00:26
Surr: Nitrobenzene-d5	0	JS		41-120	%REC	1000	24-Jul-2020 00:46
Surr: Phenol-d6	80.8			20-120	%REC	10	24-Jul-2020 00:07
Surr: Phenol-d6	0	JS		20-120	%REC	100	24-Jul-2020 00:26
Surr: Phenol-d6	0	JS		20-120	%REC	1000	24-Jul-2020 00:46
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 22-Jul-2020		Analyst: JHD	
Arsenic	0.00531		0.000400	0.00200	mg/L	1	22-Jul-2020 22:05

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-FB01-20200714
 Collection Date: 14-Jul-2020 18:00

ANALYTICAL REPORT
 WorkOrder:HS20070656
 Lab ID:HS20070656-13
 Matrix:Water

ANALYSES	RESULT	QUAL	SDL	SQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	18-Jul-2020 01:08
Benzene	U		0.00020	0.0010	mg/L	1	18-Jul-2020 01:08
Chlorobenzene	U		0.00030	0.0010	mg/L	1	18-Jul-2020 01:08
Ethylbenzene	U		0.00030	0.0010	mg/L	1	18-Jul-2020 01:08
Methylene chloride	U		0.0010	0.0020	mg/L	1	18-Jul-2020 01:08
Toluene	U		0.00020	0.0010	mg/L	1	18-Jul-2020 01:08
Vinyl chloride	U		0.00020	0.0010	mg/L	1	18-Jul-2020 01:08
Xylenes, Total	U		0.00030	0.0010	mg/L	1	18-Jul-2020 01:08
<i>Surr: 1,2-Dichloroethane-d4</i>		<i>101</i>		<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>18-Jul-2020 01:08</i>
<i>Surr: 4-Bromofluorobenzene</i>		<i>100</i>		<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>18-Jul-2020 01:08</i>
<i>Surr: Dibromofluoromethane</i>		<i>103</i>		<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>18-Jul-2020 01:08</i>
<i>Surr: Toluene-d8</i>		<i>100</i>		<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>18-Jul-2020 01:08</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-FB01-20200714
 Collection Date: 14-Jul-2020 18:00

ANALYTICAL REPORT
 WorkOrder:HS20070656
 Lab ID:HS20070656-13
 Matrix:Water

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 17-Jul-2020		Analyst: QX	
1,2-Diphenylhydrazine	U		0.000021	0.00020	mg/L	1	17-Jul-2020 22:18
2,4-Dimethylphenol	U		0.000040	0.00020	mg/L	1	17-Jul-2020 22:18
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	17-Jul-2020 22:18
2,6-Dinitrotoluene	U		0.000042	0.00020	mg/L	1	17-Jul-2020 22:18
2-Chloronaphthalene	U		0.000021	0.00020	mg/L	1	17-Jul-2020 22:18
2-Methylnaphthalene	U		0.000019	0.00010	mg/L	1	17-Jul-2020 22:18
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	17-Jul-2020 22:18
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	17-Jul-2020 22:18
Acenaphthene	U		0.000027	0.00010	mg/L	1	17-Jul-2020 22:18
Acenaphthylene	U		0.000015	0.00010	mg/L	1	17-Jul-2020 22:18
Anthracene	U		0.000014	0.00010	mg/L	1	17-Jul-2020 22:18
Benz(a)anthracene	U		0.000050	0.00010	mg/L	1	17-Jul-2020 22:18
Benzo(a)pyrene	U		0.000020	0.00010	mg/L	1	17-Jul-2020 22:18
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	17-Jul-2020 22:18
Bis(2-ethylhexyl)phthalate	U		0.000037	0.00020	mg/L	1	17-Jul-2020 22:18
Chrysene	U		0.000021	0.00010	mg/L	1	17-Jul-2020 22:18
Dibenzofuran	U		0.000020	0.00010	mg/L	1	17-Jul-2020 22:18
Di-n-butyl phthalate	U		0.000020	0.00020	mg/L	1	17-Jul-2020 22:18
Fluoranthene	U		0.000010	0.00010	mg/L	1	17-Jul-2020 22:18
Fluorene	U		0.000030	0.00010	mg/L	1	17-Jul-2020 22:18
Naphthalene	0.00019		0.000020	0.00010	mg/L	1	17-Jul-2020 22:18
Nitrobenzene	U		0.000024	0.00020	mg/L	1	17-Jul-2020 22:18
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	17-Jul-2020 22:18
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	17-Jul-2020 22:18
Phenanthrene	U		0.000021	0.00010	mg/L	1	17-Jul-2020 22:18
Phenol	U		0.000035	0.00020	mg/L	1	17-Jul-2020 22:18
Pyrene	U		0.000019	0.00010	mg/L	1	17-Jul-2020 22:18
<i>Surr: 2,4,6-Tribromophenol</i>	<i>77.3</i>			<i>34-129</i>	<i>%REC</i>	<i>1</i>	<i>17-Jul-2020 22:18</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>64.0</i>			<i>40-125</i>	<i>%REC</i>	<i>1</i>	<i>17-Jul-2020 22:18</i>
<i>Surr: 2-Fluorophenol</i>	<i>78.3</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>17-Jul-2020 22:18</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>79.8</i>			<i>40-135</i>	<i>%REC</i>	<i>1</i>	<i>17-Jul-2020 22:18</i>
<i>Surr: Nitrobenzene-d5</i>	<i>59.0</i>			<i>41-120</i>	<i>%REC</i>	<i>1</i>	<i>17-Jul-2020 22:18</i>
<i>Surr: Phenol-d6</i>	<i>78.9</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>17-Jul-2020 22:18</i>
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 22-Jul-2020		Analyst: JHD	
Arsenic	U		0.000400	0.00200	mg/L	1	22-Jul-2020 22:11

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW57B-20200715
 Collection Date: 15-Jul-2020 08:15

ANALYTICAL REPORT
 WorkOrder:HS20070656
 Lab ID:HS20070656-14
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: PC			
1,2-Dichloroethane	U		0.0010	0.0050	mg/L	5	18-Jul-2020 09:05
Benzene	0.71		0.0010	0.0050	mg/L	5	18-Jul-2020 09:05
Chlorobenzene	U		0.0015	0.0050	mg/L	5	18-Jul-2020 09:05
Ethylbenzene	0.23		0.0015	0.0050	mg/L	5	18-Jul-2020 09:05
Methylene chloride	U		0.0050	0.010	mg/L	5	18-Jul-2020 09:05
Toluene	0.70		0.0010	0.0050	mg/L	5	18-Jul-2020 09:05
Xylenes, Total	0.68		0.0015	0.0050	mg/L	5	18-Jul-2020 09:05
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>92.8</i>			<i>70-126</i>	<i>%REC</i>	5	<i>18-Jul-2020 09:05</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>100</i>			<i>81-113</i>	<i>%REC</i>	5	<i>18-Jul-2020 09:05</i>
<i>Surr: Dibromofluoromethane</i>	<i>95.9</i>			<i>77-123</i>	<i>%REC</i>	5	<i>18-Jul-2020 09:05</i>
<i>Surr: Toluene-d8</i>	<i>98.2</i>			<i>82-127</i>	<i>%REC</i>	5	<i>18-Jul-2020 09:05</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW57B-20200715
 Collection Date: 15-Jul-2020 08:15

ANALYTICAL REPORT
 WorkOrder:HS20070656
 Lab ID:HS20070656-14
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 17-Jul-2020		Analyst: GEY	
1,2-Diphenylhydrazine	U		0.00021	0.0020	mg/L	10	24-Jul-2020 01:26
2,4-Dimethylphenol	11		0.40	2.0	mg/L	10000	24-Jul-2020 16:14
2,4-Dinitrotoluene	U		0.00058	0.0020	mg/L	10	24-Jul-2020 01:26
2,6-Dinitrotoluene	U		0.00042	0.0020	mg/L	10	24-Jul-2020 01:26
2-Chloronaphthalene	U		0.00021	0.0020	mg/L	10	24-Jul-2020 01:26
2-Methylnaphthalene	0.41		0.0019	0.010	mg/L	100	24-Jul-2020 01:45
4,6-Dinitro-2-methylphenol	U		0.00020	0.0020	mg/L	10	24-Jul-2020 01:26
4-Nitrophenol	U		0.00047	0.010	mg/L	10	24-Jul-2020 01:26
Acenaphthene	0.061		0.00027	0.0010	mg/L	10	24-Jul-2020 01:26
Acenaphthylene	0.0027		0.00015	0.0010	mg/L	10	24-Jul-2020 01:26
Anthracene	0.013		0.00014	0.0010	mg/L	10	24-Jul-2020 01:26
Benz(a)anthracene	0.00070	J	0.00050	0.0010	mg/L	10	24-Jul-2020 01:26
Benzo(a)pyrene	U		0.00020	0.0010	mg/L	10	24-Jul-2020 01:26
Bis(2-chloroethoxy)methane	U		0.00030	0.0020	mg/L	10	24-Jul-2020 01:26
Bis(2-ethylhexyl)phthalate	U		0.00037	0.0020	mg/L	10	24-Jul-2020 01:26
Chrysene	0.00073	J	0.00021	0.0010	mg/L	10	24-Jul-2020 01:26
Dibenzofuran	0.056		0.00020	0.0010	mg/L	10	24-Jul-2020 01:26
Di-n-butyl phthalate	U		0.00020	0.0020	mg/L	10	24-Jul-2020 01:26
Fluoranthene	0.0049		0.00010	0.0010	mg/L	10	24-Jul-2020 01:26
Fluorene	0.034		0.00030	0.0010	mg/L	10	24-Jul-2020 01:26
Naphthalene	22		0.20	1.0	mg/L	10000	24-Jul-2020 16:14
Nitrobenzene	U		0.00024	0.0020	mg/L	10	24-Jul-2020 01:26
N-Nitrosodiphenylamine	U		0.00025	0.0020	mg/L	10	24-Jul-2020 01:26
Pentachlorophenol	U		0.00079	0.0020	mg/L	10	24-Jul-2020 01:26
Phenanthrene	0.042		0.00021	0.0010	mg/L	10	24-Jul-2020 01:26
Phenol	0.71		0.0035	0.020	mg/L	100	24-Jul-2020 01:45
Pyrene	0.0027		0.00019	0.0010	mg/L	10	24-Jul-2020 01:26
<i>Surr: 2,4,6-Tribromophenol</i>	<i>0</i>	<i>JS</i>		<i>34-129</i>	<i>%REC</i>	<i>10000</i>	<i>24-Jul-2020 16:14</i>
<i>Surr: 2,4,6-Tribromophenol</i>	<i>90.0</i>			<i>34-129</i>	<i>%REC</i>	<i>10</i>	<i>24-Jul-2020 01:26</i>
<i>Surr: 2,4,6-Tribromophenol</i>	<i>0</i>	<i>JS</i>		<i>34-129</i>	<i>%REC</i>	<i>100</i>	<i>24-Jul-2020 01:45</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>57.3</i>			<i>40-125</i>	<i>%REC</i>	<i>10</i>	<i>24-Jul-2020 01:26</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>0</i>	<i>JS</i>		<i>40-125</i>	<i>%REC</i>	<i>100</i>	<i>24-Jul-2020 01:45</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>0</i>	<i>JS</i>		<i>40-125</i>	<i>%REC</i>	<i>10000</i>	<i>24-Jul-2020 16:14</i>
<i>Surr: 2-Fluorophenol</i>	<i>0</i>	<i>JS</i>		<i>20-120</i>	<i>%REC</i>	<i>10000</i>	<i>24-Jul-2020 16:14</i>
<i>Surr: 2-Fluorophenol</i>	<i>112</i>			<i>20-120</i>	<i>%REC</i>	<i>10</i>	<i>24-Jul-2020 01:26</i>
<i>Surr: 2-Fluorophenol</i>	<i>0</i>	<i>JS</i>		<i>20-120</i>	<i>%REC</i>	<i>100</i>	<i>24-Jul-2020 01:45</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>90.5</i>			<i>40-135</i>	<i>%REC</i>	<i>10</i>	<i>24-Jul-2020 01:26</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>0</i>	<i>JS</i>		<i>40-135</i>	<i>%REC</i>	<i>100</i>	<i>24-Jul-2020 01:45</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>0</i>	<i>JS</i>		<i>40-135</i>	<i>%REC</i>	<i>10000</i>	<i>24-Jul-2020 16:14</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW57B-20200715
 Collection Date: 15-Jul-2020 08:15

ANALYTICAL REPORT

WorkOrder:HS20070656
 Lab ID:HS20070656-14
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 17-Jul-2020		Analyst: GEY	
Surr: Nitrobenzene-d5	83.8			41-120	%REC	10	24-Jul-2020 01:26
Surr: Nitrobenzene-d5	0	JS		41-120	%REC	100	24-Jul-2020 01:45
Surr: Nitrobenzene-d5	0	JS		41-120	%REC	10000	24-Jul-2020 16:14
Surr: Phenol-d6	97.3			20-120	%REC	10	24-Jul-2020 01:26
Surr: Phenol-d6	0	JS		20-120	%REC	100	24-Jul-2020 01:45
Surr: Phenol-d6	0	JS		20-120	%REC	10000	24-Jul-2020 16:14
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 22-Jul-2020		Analyst: JHD	
Arsenic	0.00241		0.000400	0.00200	mg/L	1	22-Jul-2020 22:37

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW57A-20200715
 Collection Date: 15-Jul-2020 09:10

ANALYTICAL REPORT
 WorkOrder:HS20070656
 Lab ID:HS20070656-15
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	SQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane		U	0.00020	0.0010	mg/L	1	18-Jul-2020 06:29
Benzene	0.0019		0.00020	0.0010	mg/L	1	18-Jul-2020 06:29
Chlorobenzene	0.00045	J	0.00030	0.0010	mg/L	1	18-Jul-2020 06:29
Ethylbenzene	0.0015		0.00030	0.0010	mg/L	1	18-Jul-2020 06:29
Methylene chloride		U	0.0010	0.0020	mg/L	1	18-Jul-2020 06:29
Toluene	0.00033	J	0.00020	0.0010	mg/L	1	18-Jul-2020 06:29
Vinyl chloride		U	0.00020	0.0010	mg/L	1	18-Jul-2020 06:29
Xylenes, Total	0.0021		0.00030	0.0010	mg/L	1	18-Jul-2020 06:29
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>100</i>			<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>18-Jul-2020 06:29</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>99.9</i>			<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>18-Jul-2020 06:29</i>
<i>Surr: Dibromofluoromethane</i>	<i>102</i>			<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>18-Jul-2020 06:29</i>
<i>Surr: Toluene-d8</i>	<i>99.8</i>			<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>18-Jul-2020 06:29</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW57A-20200715
 Collection Date: 15-Jul-2020 09:10

ANALYTICAL REPORT
 WorkOrder:HS20070656
 Lab ID:HS20070656-15
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 17-Jul-2020		Analyst: GEY	
1,2-Diphenylhydrazine	U		0.000021	0.00020	mg/L	1	24-Jul-2020 02:25
2,4-Dimethylphenol	U		0.000040	0.00020	mg/L	1	24-Jul-2020 02:25
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	24-Jul-2020 02:25
2,6-Dinitrotoluene	U		0.000042	0.00020	mg/L	1	24-Jul-2020 02:25
2-Chloronaphthalene	U		0.000021	0.00020	mg/L	1	24-Jul-2020 02:25
2-Methylnaphthalene	0.15		0.0019	0.010	mg/L	100	24-Jul-2020 16:54
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	24-Jul-2020 02:25
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	24-Jul-2020 02:25
Acenaphthene	0.084		0.00027	0.0010	mg/L	10	24-Jul-2020 16:34
Acenaphthylene	0.0011		0.000015	0.00010	mg/L	1	24-Jul-2020 02:25
Anthracene	0.013		0.00014	0.0010	mg/L	10	24-Jul-2020 16:34
Benz(a)anthracene	0.00079		0.000050	0.00010	mg/L	1	24-Jul-2020 02:25
Benzo(a)pyrene	0.00033		0.000020	0.00010	mg/L	1	24-Jul-2020 02:25
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	24-Jul-2020 02:25
Bis(2-ethylhexyl)phthalate	U		0.000037	0.00020	mg/L	1	24-Jul-2020 02:25
Chrysene	0.00073		0.000021	0.00010	mg/L	1	24-Jul-2020 02:25
Dibenzofuran	0.067		0.00020	0.0010	mg/L	10	24-Jul-2020 16:34
Di-n-butyl phthalate	U		0.000020	0.00020	mg/L	1	24-Jul-2020 02:25
Fluoranthene	0.0075		0.000010	0.00010	mg/L	1	24-Jul-2020 02:25
Fluorene	0.056		0.00030	0.0010	mg/L	10	24-Jul-2020 16:34
Naphthalene	0.20		0.0020	0.010	mg/L	100	24-Jul-2020 16:54
Nitrobenzene	U		0.000024	0.00020	mg/L	1	24-Jul-2020 02:25
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	24-Jul-2020 02:25
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	24-Jul-2020 02:25
Phenanthrene	0.065		0.00021	0.0010	mg/L	10	24-Jul-2020 16:34
Phenol	U		0.000035	0.00020	mg/L	1	24-Jul-2020 02:25
Pyrene	0.0047		0.000019	0.00010	mg/L	1	24-Jul-2020 02:25
<i>Surr: 2,4,6-Tribromophenol</i>	<i>65.7</i>			<i>34-129</i>	<i>%REC</i>	<i>1</i>	<i>24-Jul-2020 02:25</i>
<i>Surr: 2,4,6-Tribromophenol</i>	<i>94.4</i>			<i>34-129</i>	<i>%REC</i>	<i>10</i>	<i>24-Jul-2020 16:34</i>
<i>Surr: 2,4,6-Tribromophenol</i>	<i>0</i>	<i>JS</i>		<i>34-129</i>	<i>%REC</i>	<i>100</i>	<i>24-Jul-2020 16:54</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>72.0</i>			<i>40-125</i>	<i>%REC</i>	<i>10</i>	<i>24-Jul-2020 16:34</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>0</i>	<i>JS</i>		<i>40-125</i>	<i>%REC</i>	<i>100</i>	<i>24-Jul-2020 16:54</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>49.2</i>			<i>40-125</i>	<i>%REC</i>	<i>1</i>	<i>24-Jul-2020 02:25</i>
<i>Surr: 2-Fluorophenol</i>	<i>66.9</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>24-Jul-2020 02:25</i>
<i>Surr: 2-Fluorophenol</i>	<i>69.1</i>			<i>20-120</i>	<i>%REC</i>	<i>10</i>	<i>24-Jul-2020 16:34</i>
<i>Surr: 2-Fluorophenol</i>	<i>0</i>	<i>JS</i>		<i>20-120</i>	<i>%REC</i>	<i>100</i>	<i>24-Jul-2020 16:54</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>88.2</i>			<i>40-135</i>	<i>%REC</i>	<i>10</i>	<i>24-Jul-2020 16:34</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>0</i>	<i>JS</i>		<i>40-135</i>	<i>%REC</i>	<i>100</i>	<i>24-Jul-2020 16:54</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>76.4</i>			<i>40-135</i>	<i>%REC</i>	<i>1</i>	<i>24-Jul-2020 02:25</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW57A-20200715
 Collection Date: 15-Jul-2020 09:10

ANALYTICAL REPORT

WorkOrder:HS20070656
 Lab ID:HS20070656-15
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 17-Jul-2020		Analyst: GEY	
Surr: Nitrobenzene-d5	70.3			41-120	%REC	1	24-Jul-2020 02:25
Surr: Nitrobenzene-d5	87.7			41-120	%REC	10	24-Jul-2020 16:34
Surr: Nitrobenzene-d5	0	JS		41-120	%REC	100	24-Jul-2020 16:54
Surr: Phenol-d6	0	JS		20-120	%REC	100	24-Jul-2020 16:54
Surr: Phenol-d6	68.8			20-120	%REC	10	24-Jul-2020 16:34
Surr: Phenol-d6	98.6			20-120	%REC	1	24-Jul-2020 02:25
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 22-Jul-2020		Analyst: JHD	
Arsenic	0.0488		0.000400	0.00200	mg/L	1	22-Jul-2020 22:15

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW58A-20200715
 Collection Date: 15-Jul-2020 09:55

ANALYTICAL REPORT
 WorkOrder:HS20070656
 Lab ID:HS20070656-16
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	SQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane		U	0.00020	0.0010	mg/L	1	18-Jul-2020 06:52
Benzene	0.0030		0.00020	0.0010	mg/L	1	18-Jul-2020 06:52
Chlorobenzene	0.00035	J	0.00030	0.0010	mg/L	1	18-Jul-2020 06:52
Ethylbenzene	0.0029		0.00030	0.0010	mg/L	1	18-Jul-2020 06:52
Methylene chloride		U	0.0010	0.0020	mg/L	1	18-Jul-2020 06:52
Toluene	0.00045	J	0.00020	0.0010	mg/L	1	18-Jul-2020 06:52
Vinyl chloride		U	0.00020	0.0010	mg/L	1	18-Jul-2020 06:52
Xylenes, Total	0.011		0.00030	0.0010	mg/L	1	18-Jul-2020 06:52
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>101</i>			<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>18-Jul-2020 06:52</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>99.4</i>			<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>18-Jul-2020 06:52</i>
<i>Surr: Dibromofluoromethane</i>	<i>102</i>			<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>18-Jul-2020 06:52</i>
<i>Surr: Toluene-d8</i>	<i>98.6</i>			<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>18-Jul-2020 06:52</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW58A-20200715
 Collection Date: 15-Jul-2020 09:55

ANALYTICAL REPORT
 WorkOrder:HS20070656
 Lab ID:HS20070656-16
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 17-Jul-2020		Analyst: GEY	
1,2-Diphenylhydrazine		U	0.000021	0.00020	mg/L	1	24-Jul-2020 17:14
2,4-Dimethylphenol	0.00067		0.000040	0.00020	mg/L	1	24-Jul-2020 17:14
2,4-Dinitrotoluene		U	0.000058	0.00020	mg/L	1	24-Jul-2020 17:14
2,6-Dinitrotoluene		U	0.000042	0.00020	mg/L	1	24-Jul-2020 17:14
2-Chloronaphthalene		U	0.000021	0.00020	mg/L	1	24-Jul-2020 17:14
2-Methylnaphthalene	0.048		0.00019	0.0010	mg/L	10	24-Jul-2020 17:34
4,6-Dinitro-2-methylphenol		U	0.000020	0.00020	mg/L	1	24-Jul-2020 17:14
4-Nitrophenol		U	0.000047	0.0010	mg/L	1	24-Jul-2020 17:14
Acenaphthene	0.082		0.0027	0.010	mg/L	100	24-Jul-2020 17:54
Acenaphthylene	0.00090		0.000015	0.00010	mg/L	1	24-Jul-2020 17:14
Anthracene	0.0069		0.000014	0.00010	mg/L	1	24-Jul-2020 17:14
Benz(a)anthracene	0.00015		0.000050	0.00010	mg/L	1	24-Jul-2020 17:14
Benzo(a)pyrene	0.000053	J	0.000020	0.00010	mg/L	1	24-Jul-2020 17:14
Bis(2-chloroethoxy)methane		U	0.000030	0.00020	mg/L	1	24-Jul-2020 17:14
Bis(2-ethylhexyl)phthalate		U	0.000037	0.00020	mg/L	1	24-Jul-2020 17:14
Chrysene	0.00012		0.000021	0.00010	mg/L	1	24-Jul-2020 17:14
Dibenzofuran	0.047		0.00020	0.0010	mg/L	10	24-Jul-2020 17:34
Di-n-butyl phthalate	0.00017	J	0.000020	0.00020	mg/L	1	24-Jul-2020 17:14
Fluoranthene	0.0076		0.000010	0.00010	mg/L	1	24-Jul-2020 17:14
Fluorene	0.083		0.00030	0.0010	mg/L	10	24-Jul-2020 17:34
Naphthalene	0.35		0.0020	0.010	mg/L	100	24-Jul-2020 17:54
Nitrobenzene		U	0.000024	0.00020	mg/L	1	24-Jul-2020 17:14
N-Nitrosodiphenylamine		U	0.000025	0.00020	mg/L	1	24-Jul-2020 17:14
Pentachlorophenol		U	0.000079	0.00020	mg/L	1	24-Jul-2020 17:14
Phenanthrene	0.037		0.00021	0.0010	mg/L	10	24-Jul-2020 17:34
Phenol	0.00023		0.000035	0.00020	mg/L	1	24-Jul-2020 17:14
Pyrene	0.0034		0.000019	0.00010	mg/L	1	24-Jul-2020 17:14
Surr: 2,4,6-Tribromophenol	65.2			34-129	%REC	1	24-Jul-2020 17:14
Surr: 2,4,6-Tribromophenol	62.5			34-129	%REC	10	24-Jul-2020 17:34
Surr: 2,4,6-Tribromophenol	0	JS		34-129	%REC	100	24-Jul-2020 17:54
Surr: 2-Fluorobiphenyl	43.1			40-125	%REC	1	24-Jul-2020 17:14
Surr: 2-Fluorobiphenyl	45.1			40-125	%REC	10	24-Jul-2020 17:34
Surr: 2-Fluorobiphenyl	0	JS		40-125	%REC	100	24-Jul-2020 17:54
Surr: 2-Fluorophenol	51.2			20-120	%REC	1	24-Jul-2020 17:14
Surr: 2-Fluorophenol	48.8			20-120	%REC	10	24-Jul-2020 17:34
Surr: 2-Fluorophenol	0	JS		20-120	%REC	100	24-Jul-2020 17:54
Surr: 4-Terphenyl-d14	69.6			40-135	%REC	1	24-Jul-2020 17:14
Surr: 4-Terphenyl-d14	65.9			40-135	%REC	10	24-Jul-2020 17:34
Surr: 4-Terphenyl-d14	0	JS		40-135	%REC	100	24-Jul-2020 17:54

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW58A-20200715
 Collection Date: 15-Jul-2020 09:55

ANALYTICAL REPORT
 WorkOrder:HS20070656
 Lab ID:HS20070656-16
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 17-Jul-2020		Analyst: GEY	
Surr: Nitrobenzene-d5	52.3			41-120	%REC	1	24-Jul-2020 17:14
Surr: Nitrobenzene-d5	44.0			41-120	%REC	10	24-Jul-2020 17:34
Surr: Nitrobenzene-d5	0	JS		41-120	%REC	100	24-Jul-2020 17:54
Surr: Phenol-d6	62.5			20-120	%REC	1	24-Jul-2020 17:14
Surr: Phenol-d6	58.2			20-120	%REC	10	24-Jul-2020 17:34
Surr: Phenol-d6	0	JS		20-120	%REC	100	24-Jul-2020 17:54
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 22-Jul-2020		Analyst: JHD	
Arsenic	0.00204		0.000400	0.00200	mg/L	1	22-Jul-2020 22:17

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW14-20200715
 Collection Date: 15-Jul-2020 10:45

ANALYTICAL REPORT
 WorkOrder:HS20070656
 Lab ID:HS20070656-17
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	18-Jul-2020 07:15
Benzene	U		0.00020	0.0010	mg/L	1	18-Jul-2020 07:15
Chlorobenzene	U		0.00030	0.0010	mg/L	1	18-Jul-2020 07:15
Ethylbenzene	U		0.00030	0.0010	mg/L	1	18-Jul-2020 07:15
Methylene chloride	U		0.0010	0.0020	mg/L	1	18-Jul-2020 07:15
Toluene	U		0.00020	0.0010	mg/L	1	18-Jul-2020 07:15
Xylenes, Total	U		0.00030	0.0010	mg/L	1	18-Jul-2020 07:15
<i>Surr: 1,2-Dichloroethane-d4</i>		<i>102</i>		<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>18-Jul-2020 07:15</i>
<i>Surr: 4-Bromofluorobenzene</i>		<i>99.1</i>		<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>18-Jul-2020 07:15</i>
<i>Surr: Dibromofluoromethane</i>		<i>103</i>		<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>18-Jul-2020 07:15</i>
<i>Surr: Toluene-d8</i>		<i>102</i>		<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>18-Jul-2020 07:15</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW14-20200715
 Collection Date: 15-Jul-2020 10:45

ANALYTICAL REPORT
 WorkOrder:HS20070656
 Lab ID:HS20070656-17
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 17-Jul-2020		Analyst: GEY	
1,2-Diphenylhydrazine		U	0.000021	0.00020	mg/L	1	24-Jul-2020 18:14
2,4-Dimethylphenol	0.00013	J	0.000040	0.00020	mg/L	1	24-Jul-2020 18:14
2,4-Dinitrotoluene		U	0.000058	0.00020	mg/L	1	24-Jul-2020 18:14
2,6-Dinitrotoluene		U	0.000042	0.00020	mg/L	1	24-Jul-2020 18:14
2-Chloronaphthalene	0.000053	J	0.000021	0.00020	mg/L	1	24-Jul-2020 18:14
2-Methylnaphthalene	0.00024		0.000019	0.00010	mg/L	1	24-Jul-2020 18:14
4,6-Dinitro-2-methylphenol		U	0.000020	0.00020	mg/L	1	24-Jul-2020 18:14
4-Nitrophenol		U	0.000047	0.0010	mg/L	1	24-Jul-2020 18:14
Acenaphthene	0.000083	J	0.000027	0.00010	mg/L	1	24-Jul-2020 18:14
Acenaphthylene		U	0.000015	0.00010	mg/L	1	24-Jul-2020 18:14
Anthracene	0.000034	J	0.000014	0.00010	mg/L	1	24-Jul-2020 18:14
Benz(a)anthracene		U	0.000050	0.00010	mg/L	1	24-Jul-2020 18:14
Benzo(a)pyrene		U	0.000020	0.00010	mg/L	1	24-Jul-2020 18:14
Bis(2-chloroethoxy)methane		U	0.000030	0.00020	mg/L	1	24-Jul-2020 18:14
Bis(2-ethylhexyl)phthalate		U	0.000037	0.00020	mg/L	1	24-Jul-2020 18:14
Chrysene		U	0.000021	0.00010	mg/L	1	24-Jul-2020 18:14
Dibenzofuran	0.000062	J	0.000020	0.00010	mg/L	1	24-Jul-2020 18:14
Di-n-butyl phthalate		U	0.000020	0.00020	mg/L	1	24-Jul-2020 18:14
Fluoranthene		U	0.000010	0.00010	mg/L	1	24-Jul-2020 18:14
Fluorene		U	0.000030	0.00010	mg/L	1	24-Jul-2020 18:14
Naphthalene	0.0042		0.000020	0.00010	mg/L	1	24-Jul-2020 18:14
Nitrobenzene		U	0.000024	0.00020	mg/L	1	24-Jul-2020 18:14
N-Nitrosodiphenylamine		U	0.000025	0.00020	mg/L	1	24-Jul-2020 18:14
Pentachlorophenol		U	0.000079	0.00020	mg/L	1	24-Jul-2020 18:14
Phenanthrene	0.000053	J	0.000021	0.00010	mg/L	1	24-Jul-2020 18:14
Phenol	0.00020	J	0.000035	0.00020	mg/L	1	24-Jul-2020 18:14
Pyrene		U	0.000019	0.00010	mg/L	1	24-Jul-2020 18:14
<i>Surr: 2,4,6-Tribromophenol</i>	<i>65.2</i>			<i>34-129</i>	<i>%REC</i>	<i>1</i>	<i>24-Jul-2020 18:14</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>47.8</i>			<i>40-125</i>	<i>%REC</i>	<i>1</i>	<i>24-Jul-2020 18:14</i>
<i>Surr: 2-Fluorophenol</i>	<i>48.4</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>24-Jul-2020 18:14</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>70.1</i>			<i>40-135</i>	<i>%REC</i>	<i>1</i>	<i>24-Jul-2020 18:14</i>
<i>Surr: Nitrobenzene-d5</i>	<i>57.8</i>			<i>41-120</i>	<i>%REC</i>	<i>1</i>	<i>24-Jul-2020 18:14</i>
<i>Surr: Phenol-d6</i>	<i>60.9</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>24-Jul-2020 18:14</i>
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 22-Jul-2020		Analyst: JHD	
Arsenic	0.000949	J	0.000400	0.00200	mg/L	1	22-Jul-2020 22:19

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW13-20200715
 Collection Date: 15-Jul-2020 11:40

ANALYTICAL REPORT
 WorkOrder:HS20070656
 Lab ID:HS20070656-18
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	18-Jul-2020 07:38
Benzene	U		0.00020	0.0010	mg/L	1	18-Jul-2020 07:38
Chlorobenzene	U		0.00030	0.0010	mg/L	1	18-Jul-2020 07:38
Ethylbenzene	U		0.00030	0.0010	mg/L	1	18-Jul-2020 07:38
Methylene chloride	U		0.0010	0.0020	mg/L	1	18-Jul-2020 07:38
Toluene	U		0.00020	0.0010	mg/L	1	18-Jul-2020 07:38
Xylenes, Total	U		0.00030	0.0010	mg/L	1	18-Jul-2020 07:38
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>101</i>			<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>18-Jul-2020 07:38</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>98.9</i>			<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>18-Jul-2020 07:38</i>
<i>Surr: Dibromofluoromethane</i>	<i>103</i>			<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>18-Jul-2020 07:38</i>
<i>Surr: Toluene-d8</i>	<i>102</i>			<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>18-Jul-2020 07:38</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW13-20200715
 Collection Date: 15-Jul-2020 11:40

ANALYTICAL REPORT
 WorkOrder:HS20070656
 Lab ID:HS20070656-18
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 17-Jul-2020		Analyst: GEY	
1,2-Diphenylhydrazine	U		0.000021	0.00020	mg/L	1	24-Jul-2020 18:33
2,4-Dimethylphenol	0.00037		0.000040	0.00020	mg/L	1	24-Jul-2020 18:33
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	24-Jul-2020 18:33
2,6-Dinitrotoluene	U		0.000042	0.00020	mg/L	1	24-Jul-2020 18:33
2-Chloronaphthalene	U		0.000021	0.00020	mg/L	1	24-Jul-2020 18:33
2-Methylnaphthalene	0.00042		0.000019	0.00010	mg/L	1	24-Jul-2020 18:33
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	24-Jul-2020 18:33
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	24-Jul-2020 18:33
Acenaphthene	0.00014		0.000027	0.00010	mg/L	1	24-Jul-2020 18:33
Acenaphthylene	U		0.000015	0.00010	mg/L	1	24-Jul-2020 18:33
Anthracene	0.000071	J	0.000014	0.00010	mg/L	1	24-Jul-2020 18:33
Benz(a)anthracene	U		0.000050	0.00010	mg/L	1	24-Jul-2020 18:33
Benzo(a)pyrene	U		0.000020	0.00010	mg/L	1	24-Jul-2020 18:33
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	24-Jul-2020 18:33
Bis(2-ethylhexyl)phthalate	U		0.000037	0.00020	mg/L	1	24-Jul-2020 18:33
Chrysene	U		0.000021	0.00010	mg/L	1	24-Jul-2020 18:33
Dibenzofuran	0.00014		0.000020	0.00010	mg/L	1	24-Jul-2020 18:33
Di-n-butyl phthalate	U		0.000020	0.00020	mg/L	1	24-Jul-2020 18:33
Fluoranthene	U		0.000010	0.00010	mg/L	1	24-Jul-2020 18:33
Fluorene	0.000088	J	0.000030	0.00010	mg/L	1	24-Jul-2020 18:33
Naphthalene	0.0044		0.000020	0.00010	mg/L	1	24-Jul-2020 18:33
Nitrobenzene	U		0.000024	0.00020	mg/L	1	24-Jul-2020 18:33
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	24-Jul-2020 18:33
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	24-Jul-2020 18:33
Phenanthrene	0.000077	J	0.000021	0.00010	mg/L	1	24-Jul-2020 18:33
Phenol	U		0.000035	0.00020	mg/L	1	24-Jul-2020 18:33
Pyrene	0.000053	J	0.000019	0.00010	mg/L	1	24-Jul-2020 18:33
<i>Surr: 2,4,6-Tribromophenol</i>	<i>67.7</i>			<i>34-129</i>	<i>%REC</i>	<i>1</i>	<i>24-Jul-2020 18:33</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>58.3</i>			<i>40-125</i>	<i>%REC</i>	<i>1</i>	<i>24-Jul-2020 18:33</i>
<i>Surr: 2-Fluorophenol</i>	<i>58.0</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>24-Jul-2020 18:33</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>67.2</i>			<i>40-135</i>	<i>%REC</i>	<i>1</i>	<i>24-Jul-2020 18:33</i>
<i>Surr: Nitrobenzene-d5</i>	<i>63.8</i>			<i>41-120</i>	<i>%REC</i>	<i>1</i>	<i>24-Jul-2020 18:33</i>
<i>Surr: Phenol-d6</i>	<i>65.8</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>24-Jul-2020 18:33</i>
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 22-Jul-2020		Analyst: JHD	
Arsenic	0.0376		0.000400	0.00200	mg/L	1	22-Jul-2020 22:21

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW88C-20200715
 Collection Date: 15-Jul-2020 12:55

ANALYTICAL REPORT
 WorkOrder:HS20070656
 Lab ID:HS20070656-19
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	18-Jul-2020 08:01
Benzene	U		0.00020	0.0010	mg/L	1	18-Jul-2020 08:01
Chlorobenzene	U		0.00030	0.0010	mg/L	1	18-Jul-2020 08:01
Ethylbenzene	U		0.00030	0.0010	mg/L	1	18-Jul-2020 08:01
Methylene chloride	U		0.0010	0.0020	mg/L	1	18-Jul-2020 08:01
Toluene	U		0.00020	0.0010	mg/L	1	18-Jul-2020 08:01
Xylenes, Total	U		0.00030	0.0010	mg/L	1	18-Jul-2020 08:01
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>100</i>			<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>18-Jul-2020 08:01</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>99.3</i>			<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>18-Jul-2020 08:01</i>
<i>Surr: Dibromofluoromethane</i>	<i>101</i>			<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>18-Jul-2020 08:01</i>
<i>Surr: Toluene-d8</i>	<i>102</i>			<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>18-Jul-2020 08:01</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW88C-20200715
 Collection Date: 15-Jul-2020 12:55

ANALYTICAL REPORT
 WorkOrder:HS20070656
 Lab ID:HS20070656-19
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 17-Jul-2020		Analyst: GEY	
1,2-Diphenylhydrazine	U		0.000021	0.00020	mg/L	1	24-Jul-2020 18:53
2,4-Dimethylphenol	U		0.000040	0.00020	mg/L	1	24-Jul-2020 18:53
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	24-Jul-2020 18:53
2,6-Dinitrotoluene	U		0.000042	0.00020	mg/L	1	24-Jul-2020 18:53
2-Chloronaphthalene	U		0.000021	0.00020	mg/L	1	24-Jul-2020 18:53
2-Methylnaphthalene	0.00034		0.000019	0.00010	mg/L	1	24-Jul-2020 18:53
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	24-Jul-2020 18:53
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	24-Jul-2020 18:53
Acenaphthene	0.000051	J	0.000027	0.00010	mg/L	1	24-Jul-2020 18:53
Acenaphthylene	U		0.000015	0.00010	mg/L	1	24-Jul-2020 18:53
Anthracene	U		0.000014	0.00010	mg/L	1	24-Jul-2020 18:53
Benz(a)anthracene	U		0.000050	0.00010	mg/L	1	24-Jul-2020 18:53
Benzo(a)pyrene	U		0.000020	0.00010	mg/L	1	24-Jul-2020 18:53
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	24-Jul-2020 18:53
Bis(2-ethylhexyl)phthalate	U		0.000037	0.00020	mg/L	1	24-Jul-2020 18:53
Chrysene	U		0.000021	0.00010	mg/L	1	24-Jul-2020 18:53
Dibenzofuran	0.000052	J	0.000020	0.00010	mg/L	1	24-Jul-2020 18:53
Di-n-butyl phthalate	U		0.000020	0.00020	mg/L	1	24-Jul-2020 18:53
Fluoranthene	U		0.000010	0.00010	mg/L	1	24-Jul-2020 18:53
Fluorene	U		0.000030	0.00010	mg/L	1	24-Jul-2020 18:53
Naphthalene	0.0058		0.000020	0.00010	mg/L	1	24-Jul-2020 18:53
Nitrobenzene	U		0.000024	0.00020	mg/L	1	24-Jul-2020 18:53
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	24-Jul-2020 18:53
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	24-Jul-2020 18:53
Phenanthrene	U		0.000021	0.00010	mg/L	1	24-Jul-2020 18:53
Phenol	U		0.000035	0.00020	mg/L	1	24-Jul-2020 18:53
Pyrene	U		0.000019	0.00010	mg/L	1	24-Jul-2020 18:53
<i>Surr: 2,4,6-Tribromophenol</i>	<i>45.5</i>			<i>34-129</i>	<i>%REC</i>	<i>1</i>	<i>24-Jul-2020 18:53</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>44.6</i>			<i>40-125</i>	<i>%REC</i>	<i>1</i>	<i>24-Jul-2020 18:53</i>
<i>Surr: 2-Fluorophenol</i>	<i>50.3</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>24-Jul-2020 18:53</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>69.3</i>			<i>40-135</i>	<i>%REC</i>	<i>1</i>	<i>24-Jul-2020 18:53</i>
<i>Surr: Nitrobenzene-d5</i>	<i>57.0</i>			<i>41-120</i>	<i>%REC</i>	<i>1</i>	<i>24-Jul-2020 18:53</i>
<i>Surr: Phenol-d6</i>	<i>57.8</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>24-Jul-2020 18:53</i>
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 22-Jul-2020		Analyst: JHD	
Arsenic	0.000557	J	0.000400	0.00200	mg/L	1	22-Jul-2020 22:23

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW88A-20200715
 Collection Date: 15-Jul-2020 14:00

ANALYTICAL REPORT
 WorkOrder:HS20070656
 Lab ID:HS20070656-20
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	18-Jul-2020 08:24
Benzene	U		0.00020	0.0010	mg/L	1	18-Jul-2020 08:24
Chlorobenzene	U		0.00030	0.0010	mg/L	1	18-Jul-2020 08:24
Ethylbenzene	U		0.00030	0.0010	mg/L	1	18-Jul-2020 08:24
Methylene chloride	U		0.0010	0.0020	mg/L	1	18-Jul-2020 08:24
Toluene	U		0.00020	0.0010	mg/L	1	18-Jul-2020 08:24
Xylenes, Total	U		0.00030	0.0010	mg/L	1	18-Jul-2020 08:24
<i>Surr: 1,2-Dichloroethane-d4</i>		<i>102</i>		<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>18-Jul-2020 08:24</i>
<i>Surr: 4-Bromofluorobenzene</i>		<i>100</i>		<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>18-Jul-2020 08:24</i>
<i>Surr: Dibromofluoromethane</i>		<i>103</i>		<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>18-Jul-2020 08:24</i>
<i>Surr: Toluene-d8</i>		<i>102</i>		<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>18-Jul-2020 08:24</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW88A-20200715
 Collection Date: 15-Jul-2020 14:00

ANALYTICAL REPORT
 WorkOrder:HS20070656
 Lab ID:HS20070656-20
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 17-Jul-2020		Analyst: GEY	
1,2-Diphenylhydrazine		U	0.000021	0.00020	mg/L	1	24-Jul-2020 19:13
2,4-Dimethylphenol	0.00029		0.000040	0.00020	mg/L	1	24-Jul-2020 19:13
2,4-Dinitrotoluene		U	0.000058	0.00020	mg/L	1	24-Jul-2020 19:13
2,6-Dinitrotoluene		U	0.000042	0.00020	mg/L	1	24-Jul-2020 19:13
2-Chloronaphthalene		U	0.000021	0.00020	mg/L	1	24-Jul-2020 19:13
2-Methylnaphthalene	0.00045		0.000019	0.00010	mg/L	1	24-Jul-2020 19:13
4,6-Dinitro-2-methylphenol		U	0.000020	0.00020	mg/L	1	24-Jul-2020 19:13
4-Nitrophenol		U	0.000047	0.0010	mg/L	1	24-Jul-2020 19:13
Acenaphthene	0.0035		0.000027	0.00010	mg/L	1	24-Jul-2020 19:13
Acenaphthylene		U	0.000015	0.00010	mg/L	1	24-Jul-2020 19:13
Anthracene	0.000045	J	0.000014	0.00010	mg/L	1	24-Jul-2020 19:13
Benz(a)anthracene		U	0.000050	0.00010	mg/L	1	24-Jul-2020 19:13
Benzo(a)pyrene		U	0.000020	0.00010	mg/L	1	24-Jul-2020 19:13
Bis(2-chloroethoxy)methane		U	0.000030	0.00020	mg/L	1	24-Jul-2020 19:13
Bis(2-ethylhexyl)phthalate		U	0.000037	0.00020	mg/L	1	24-Jul-2020 19:13
Chrysene		U	0.000021	0.00010	mg/L	1	24-Jul-2020 19:13
Dibenzofuran	0.00038		0.000020	0.00010	mg/L	1	24-Jul-2020 19:13
Di-n-butyl phthalate	0.000053	J	0.000020	0.00020	mg/L	1	24-Jul-2020 19:13
Fluoranthene	0.00025		0.000010	0.00010	mg/L	1	24-Jul-2020 19:13
Fluorene	0.00089		0.000030	0.00010	mg/L	1	24-Jul-2020 19:13
Naphthalene	0.0097		0.000020	0.00010	mg/L	1	24-Jul-2020 19:13
Nitrobenzene		U	0.000024	0.00020	mg/L	1	24-Jul-2020 19:13
N-Nitrosodiphenylamine		U	0.000025	0.00020	mg/L	1	24-Jul-2020 19:13
Pentachlorophenol		U	0.000079	0.00020	mg/L	1	24-Jul-2020 19:13
Phenanthrene	0.000071	J	0.000021	0.00010	mg/L	1	24-Jul-2020 19:13
Phenol	0.00026		0.000035	0.00020	mg/L	1	24-Jul-2020 19:13
Pyrene	0.00068		0.000019	0.00010	mg/L	1	24-Jul-2020 19:13
<i>Surr: 2,4,6-Tribromophenol</i>	<i>62.5</i>			<i>34-129</i>	<i>%REC</i>	<i>1</i>	<i>24-Jul-2020 19:13</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>55.6</i>			<i>40-125</i>	<i>%REC</i>	<i>1</i>	<i>24-Jul-2020 19:13</i>
<i>Surr: 2-Fluorophenol</i>	<i>60.1</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>24-Jul-2020 19:13</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>68.6</i>			<i>40-135</i>	<i>%REC</i>	<i>1</i>	<i>24-Jul-2020 19:13</i>
<i>Surr: Nitrobenzene-d5</i>	<i>58.6</i>			<i>41-120</i>	<i>%REC</i>	<i>1</i>	<i>24-Jul-2020 19:13</i>
<i>Surr: Phenol-d6</i>	<i>67.1</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>24-Jul-2020 19:13</i>
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 22-Jul-2020		Analyst: JHD	
Arsenic	0.00345		0.000400	0.00200	mg/L	1	22-Jul-2020 22:25

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Weight / Prep Log

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20070656

Batch ID: 155474 **Start Date:** 16 Jul 2020 08:30 **End Date:** 16 Jul 2020 14:00
Method: SV AQ SEP FUN EXTRACT-LOWLEV - 3510C **Prep Code:** 3510_B_LOW

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS20070656-02	1	1000 (mL)	1 (mL)	0.001
HS20070656-03	1	1000 (mL)	1 (mL)	0.001
HS20070656-04	1	1000 (mL)	1 (mL)	0.001
HS20070656-05	1	1000 (mL)	1 (mL)	0.001
HS20070656-06	1	1000 (mL)	1 (mL)	0.001
HS20070656-07	1	1000 (mL)	1 (mL)	0.001
HS20070656-08	1	1000 (mL)	1 (mL)	0.001
HS20070656-09	1	1000 (mL)	1 (mL)	0.001
HS20070656-10	1	1000 (mL)	1 (mL)	0.001

Batch ID: 155517 **Start Date:** 17 Jul 2020 08:30 **End Date:** 17 Jul 2020 14:30
Method: SV AQ SEP FUN EXTRACT-LOWLEV - 3510C **Prep Code:** 3510_B_LOW

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS20070656-11	1	1000 (mL)	1 (mL)	0.001
HS20070656-12	1	1000 (mL)	1 (mL)	0.001
HS20070656-13	1	1000 (mL)	1 (mL)	0.001
HS20070656-14	1	1000 (mL)	1 (mL)	0.001
HS20070656-15	1	1000 (mL)	1 (mL)	0.001
HS20070656-16	1	1000 (mL)	1 (mL)	0.001
HS20070656-17	1	1000 (mL)	1 (mL)	0.001
HS20070656-18	1	1000 (mL)	1 (mL)	0.001
HS20070656-19	1	1000 (mL)	1 (mL)	0.001
HS20070656-20	1	1000 (mL)	1 (mL)	0.001

Batch ID: 155623 **Start Date:** 22 Jul 2020 09:00 **End Date:** 22 Jul 2020 13:00
Method: WATER - SW3010A **Prep Code:** 3010A

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS20070656-02		10 (mL)	10 (mL)	1
HS20070656-03		10 (mL)	10 (mL)	1
HS20070656-04		10 (mL)	10 (mL)	1
HS20070656-05		10 (mL)	10 (mL)	1
HS20070656-06		10 (mL)	10 (mL)	1
HS20070656-07		10 (mL)	10 (mL)	1
HS20070656-08		10 (mL)	10 (mL)	1
HS20070656-09		10 (mL)	10 (mL)	1
HS20070656-10		10 (mL)	10 (mL)	1
HS20070656-11		10 (mL)	10 (mL)	1
HS20070656-12		10 (mL)	10 (mL)	1
HS20070656-13		10 (mL)	10 (mL)	1
HS20070656-14		10 (mL)	10 (mL)	1
HS20070656-15		10 (mL)	10 (mL)	1
HS20070656-16		10 (mL)	10 (mL)	1
HS20070656-17		10 (mL)	10 (mL)	1
HS20070656-18		10 (mL)	10 (mL)	1
HS20070656-19		10 (mL)	10 (mL)	1
HS20070656-20		10 (mL)	10 (mL)	1

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20070656

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 155474 (0)		Test Name : LOW-LEVEL SEMIVOLATILES BY 8270D			Matrix: Groundwater	
HS20070656-02	WG-1620-MW20A-20200714	14 Jul 2020 08:35		16 Jul 2020 11:30	24 Jul 2020 11:57	1000
HS20070656-02	WG-1620-MW20A-20200714	14 Jul 2020 08:35		16 Jul 2020 11:30	24 Jul 2020 11:37	10
HS20070656-02	WG-1620-MW20A-20200714	14 Jul 2020 08:35		16 Jul 2020 11:30	20 Jul 2020 21:12	100
HS20070656-03	WG-1620-MW15A-20200714	14 Jul 2020 09:25		16 Jul 2020 11:30	20 Jul 2020 22:09	10
HS20070656-03	WG-1620-MW15A-20200714	14 Jul 2020 09:25		16 Jul 2020 11:30	17 Jul 2020 15:48	1
HS20070656-04	WG-1620-MW15C-20200714	14 Jul 2020 10:10		16 Jul 2020 11:30	17 Jul 2020 16:08	1
HS20070656-05	WG-1620-MW15B-20200714	14 Jul 2020 10:55		16 Jul 2020 11:30	20 Jul 2020 22:47	100
HS20070656-05	WG-1620-MW15B-20200714	14 Jul 2020 10:55		16 Jul 2020 11:30	20 Jul 2020 22:28	10
HS20070656-05	WG-1620-MW15B-20200714	14 Jul 2020 10:55		16 Jul 2020 11:30	17 Jul 2020 16:27	1
HS20070656-06	WG-1620-MW19C-20200714	14 Jul 2020 11:40		16 Jul 2020 11:30	17 Jul 2020 16:47	1
HS20070656-07	WG-1620-MW23C-20200714	14 Jul 2020 12:25		16 Jul 2020 11:30	24 Jul 2020 13:36	100
HS20070656-07	WG-1620-MW23C-20200714	14 Jul 2020 12:25		16 Jul 2020 11:30	20 Jul 2020 23:06	10
HS20070656-07	WG-1620-MW23C-20200714	14 Jul 2020 12:25		16 Jul 2020 11:30	17 Jul 2020 17:06	1
HS20070656-08	WG-1620-MW72B-20200714	14 Jul 2020 14:10		16 Jul 2020 11:30	25 Jul 2020 19:58	1000 0
HS20070656-08	WG-1620-MW72B-20200714	14 Jul 2020 14:10		16 Jul 2020 11:30	24 Jul 2020 19:53	1000
HS20070656-08	WG-1620-MW72B-20200714	14 Jul 2020 14:10		16 Jul 2020 11:30	24 Jul 2020 13:55	10
HS20070656-09	WG-1620-MW18A-20200714	14 Jul 2020 15:00		16 Jul 2020 11:30	24 Jul 2020 20:13	1000 0
HS20070656-09	WG-1620-MW18A-20200714	14 Jul 2020 15:00		16 Jul 2020 11:30	24 Jul 2020 14:55	1000
HS20070656-09	WG-1620-MW18A-20200714	14 Jul 2020 15:00		16 Jul 2020 11:30	24 Jul 2020 14:35	10
HS20070656-09	WG-1620-MW18A-20200714	14 Jul 2020 15:00		16 Jul 2020 11:30	21 Jul 2020 00:03	100
HS20070656-10	WG-1620-MW18C-20200714	14 Jul 2020 15:50		16 Jul 2020 11:30	27 Jul 2020 16:04	1000 0
HS20070656-10	WG-1620-MW18C-20200714	14 Jul 2020 15:50		16 Jul 2020 11:30	24 Jul 2020 15:15	10
HS20070656-10	WG-1620-MW18C-20200714	14 Jul 2020 15:50		16 Jul 2020 11:30	21 Jul 2020 00:22	100
Batch ID: 155517 (0)		Test Name : LOW-LEVEL SEMIVOLATILES BY 8270D			Matrix: Water	
HS20070656-13	WG-1620-FB01-20200714	14 Jul 2020 18:00		17 Jul 2020 11:17	17 Jul 2020 22:18	1

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20070656

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 155517 (0)		Test Name : LOW-LEVEL SEMIVOLATILES BY 8270D			Matrix: Groundwater	
HS20070656-11	WG-1620-MW17-20200714	14 Jul 2020 16:50		17 Jul 2020 11:17	24 Jul 2020 15:55	1000 0
HS20070656-11	WG-1620-MW17-20200714	14 Jul 2020 16:50		17 Jul 2020 11:17	23 Jul 2020 23:47	100
HS20070656-11	WG-1620-MW17-20200714	14 Jul 2020 16:50		17 Jul 2020 11:17	23 Jul 2020 23:27	10
HS20070656-12	WG-1620-MW17C-20200714	14 Jul 2020 17:40		17 Jul 2020 11:17	24 Jul 2020 00:46	1000
HS20070656-12	WG-1620-MW17C-20200714	14 Jul 2020 17:40		17 Jul 2020 11:17	24 Jul 2020 00:26	100
HS20070656-12	WG-1620-MW17C-20200714	14 Jul 2020 17:40		17 Jul 2020 11:17	24 Jul 2020 00:07	10
HS20070656-14	WG-1620-MW57B-20200715	15 Jul 2020 08:15		17 Jul 2020 11:17	24 Jul 2020 16:14	1000 0
HS20070656-14	WG-1620-MW57B-20200715	15 Jul 2020 08:15		17 Jul 2020 11:17	24 Jul 2020 01:45	100
HS20070656-14	WG-1620-MW57B-20200715	15 Jul 2020 08:15		17 Jul 2020 11:17	24 Jul 2020 01:26	10
HS20070656-15	WG-1620-MW57A-20200715	15 Jul 2020 09:10		17 Jul 2020 11:17	24 Jul 2020 16:54	100
HS20070656-15	WG-1620-MW57A-20200715	15 Jul 2020 09:10		17 Jul 2020 11:17	24 Jul 2020 16:34	10
HS20070656-15	WG-1620-MW57A-20200715	15 Jul 2020 09:10		17 Jul 2020 11:17	24 Jul 2020 02:25	1
HS20070656-16	WG-1620-MW58A-20200715	15 Jul 2020 09:55		17 Jul 2020 11:17	24 Jul 2020 17:54	100
HS20070656-16	WG-1620-MW58A-20200715	15 Jul 2020 09:55		17 Jul 2020 11:17	24 Jul 2020 17:34	10
HS20070656-16	WG-1620-MW58A-20200715	15 Jul 2020 09:55		17 Jul 2020 11:17	24 Jul 2020 17:14	1
HS20070656-17	WG-1620-MW14-20200715	15 Jul 2020 10:45		17 Jul 2020 11:17	24 Jul 2020 18:14	1
HS20070656-18	WG-1620-MW13-20200715	15 Jul 2020 11:40		17 Jul 2020 11:17	24 Jul 2020 18:33	1
HS20070656-19	WG-1620-MW88C-20200715	15 Jul 2020 12:55		17 Jul 2020 11:17	24 Jul 2020 18:53	1
HS20070656-20	WG-1620-MW88A-20200715	15 Jul 2020 14:00		17 Jul 2020 11:17	24 Jul 2020 19:13	1
Batch ID: 155623 (0)		Test Name : ICP-MS METALS BY SW6020A			Matrix: Water	
HS20070656-13	WG-1620-FB01-20200714	14 Jul 2020 18:00		22 Jul 2020 13:00	22 Jul 2020 22:11	1

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20070656

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 155623 (0)		Test Name : ICP-MS METALS BY SW6020A			Matrix: Groundwater	
HS20070656-02	WG-1620-MW20A-20200714	14 Jul 2020 08:35		22 Jul 2020 13:00	22 Jul 2020 21:34	1
HS20070656-03	WG-1620-MW15A-20200714	14 Jul 2020 09:25		22 Jul 2020 13:00	22 Jul 2020 21:48	1
HS20070656-04	WG-1620-MW15C-20200714	14 Jul 2020 10:10		22 Jul 2020 13:00	22 Jul 2020 21:50	1
HS20070656-05	WG-1620-MW15B-20200714	14 Jul 2020 10:55		22 Jul 2020 13:00	22 Jul 2020 21:52	1
HS20070656-06	WG-1620-MW19C-20200714	14 Jul 2020 11:40		22 Jul 2020 13:00	22 Jul 2020 21:54	1
HS20070656-07	WG-1620-MW23C-20200714	14 Jul 2020 12:25		22 Jul 2020 13:00	22 Jul 2020 21:56	1
HS20070656-08	WG-1620-MW72B-20200714	14 Jul 2020 14:10		22 Jul 2020 13:00	22 Jul 2020 22:35	1
HS20070656-09	WG-1620-MW18A-20200714	14 Jul 2020 15:00		22 Jul 2020 13:00	22 Jul 2020 22:00	1
HS20070656-10	WG-1620-MW18C-20200714	14 Jul 2020 15:50		22 Jul 2020 13:00	22 Jul 2020 22:01	1
HS20070656-11	WG-1620-MW17-20200714	14 Jul 2020 16:50		22 Jul 2020 13:00	22 Jul 2020 22:03	1
HS20070656-12	WG-1620-MW17C-20200714	14 Jul 2020 17:40		22 Jul 2020 13:00	22 Jul 2020 22:05	1
HS20070656-14	WG-1620-MW57B-20200715	15 Jul 2020 08:15		22 Jul 2020 13:00	22 Jul 2020 22:37	1
HS20070656-15	WG-1620-MW57A-20200715	15 Jul 2020 09:10		22 Jul 2020 13:00	22 Jul 2020 22:15	1
HS20070656-16	WG-1620-MW58A-20200715	15 Jul 2020 09:55		22 Jul 2020 13:00	22 Jul 2020 22:17	1
HS20070656-17	WG-1620-MW14-20200715	15 Jul 2020 10:45		22 Jul 2020 13:00	22 Jul 2020 22:19	1
HS20070656-18	WG-1620-MW13-20200715	15 Jul 2020 11:40		22 Jul 2020 13:00	22 Jul 2020 22:21	1
HS20070656-19	WG-1620-MW88C-20200715	15 Jul 2020 12:55		22 Jul 2020 13:00	22 Jul 2020 22:23	1
HS20070656-20	WG-1620-MW88A-20200715	15 Jul 2020 14:00		22 Jul 2020 13:00	22 Jul 2020 22:25	1
Batch ID: R365282 (0)		Test Name : LOW LEVEL VOLATILES BY SW8260C			Matrix: Groundwater	
HS20070656-02	WG-1620-MW20A-20200714	14 Jul 2020 08:35			18 Jul 2020 01:31	1
HS20070656-03	WG-1620-MW15A-20200714	14 Jul 2020 09:25			18 Jul 2020 04:12	1
HS20070656-04	WG-1620-MW15C-20200714	14 Jul 2020 10:10			18 Jul 2020 04:34	1
HS20070656-05	WG-1620-MW15B-20200714	14 Jul 2020 10:55			18 Jul 2020 04:58	1
HS20070656-06	WG-1620-MW19C-20200714	14 Jul 2020 11:40			18 Jul 2020 05:20	1
HS20070656-07	WG-1620-MW23C-20200714	14 Jul 2020 12:25			18 Jul 2020 05:43	1
HS20070656-08	WG-1620-MW72B-20200714	14 Jul 2020 14:10			18 Jul 2020 09:10	10
HS20070656-08	WG-1620-MW72B-20200714	14 Jul 2020 14:10			18 Jul 2020 08:47	1
HS20070656-12	WG-1620-MW17C-20200714	14 Jul 2020 17:40			18 Jul 2020 06:06	1
HS20070656-15	WG-1620-MW57A-20200715	15 Jul 2020 09:10			18 Jul 2020 06:29	1
HS20070656-16	WG-1620-MW58A-20200715	15 Jul 2020 09:55			18 Jul 2020 06:52	1
HS20070656-17	WG-1620-MW14-20200715	15 Jul 2020 10:45			18 Jul 2020 07:15	1
HS20070656-18	WG-1620-MW13-20200715	15 Jul 2020 11:40			18 Jul 2020 07:38	1
HS20070656-19	WG-1620-MW88C-20200715	15 Jul 2020 12:55			18 Jul 2020 08:01	1
HS20070656-20	WG-1620-MW88A-20200715	15 Jul 2020 14:00			18 Jul 2020 08:24	1
Batch ID: R365282 (0)		Test Name : LOW LEVEL VOLATILES BY SW8260C			Matrix: Water	
HS20070656-01	WQ-1620-TB01-20200715	15 Jul 2020 00:00			18 Jul 2020 00:44	1
HS20070656-13	WG-1620-FB01-20200714	14 Jul 2020 18:00			18 Jul 2020 01:08	1

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20070656

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R365288 (0)		Test Name : LOW LEVEL VOLATILES BY SW8260C			Matrix: Groundwater	
HS20070656-09	WG-1620-MW18A-20200714	14 Jul 2020 15:00			17 Jul 2020 21:41	10
HS20070656-09	WG-1620-MW18A-20200714	14 Jul 2020 15:00			17 Jul 2020 21:17	1
Batch ID: R365297 (0)		Test Name : LOW LEVEL VOLATILES BY SW8260C			Matrix: Groundwater	
HS20070656-10	WG-1620-MW18C-20200714	14 Jul 2020 15:50			18 Jul 2020 09:54	5
HS20070656-11	WG-1620-MW17-20200714	14 Jul 2020 16:50			18 Jul 2020 08:41	10
HS20070656-11	WG-1620-MW17-20200714	14 Jul 2020 16:50			18 Jul 2020 08:17	1
HS20070656-14	WG-1620-MW57B-20200715	15 Jul 2020 08:15			18 Jul 2020 09:05	5

WorkOrder: HS20070656
InstrumentID: ICPMS06
Test Code: ICP_TW
Test Number: SW6020
Test Name: ICP-MS Metals by SW6020A

**METHOD DETECTION /
REPORTING LIMITS**

Matrix: Aqueous **Units:** mg/L

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	Arsenic	7440-38-2	0.00100	0.000928	0.000400	0.00200

WorkOrder: HS20070656
 InstrumentID: SV-7
 Test Code: 8270_LOW_W
 Test Number: SW8270
 Test Name: Low-Level Semivolatiles by 8270D

**METHOD DETECTION /
 REPORTING LIMITS**

Matrix: Aqueous **Units:** mg/L

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	1,2-Diphenylhydrazine	122-66-7	0.00010	0.000073	0.000021	0.00020
A	2,4-Dimethylphenol	105-67-9	0.00010	0.000085	0.000040	0.00020
A	2,4-Dinitrotoluene	121-14-2	0.00010	0.000088	0.000058	0.00020
A	2,6-Dinitrotoluene	606-20-2	0.00010	0.000082	0.000042	0.00020
A	2-Chloronaphthalene	91-58-7	0.00010	0.000084	0.000021	0.00020
A	2-Methylnaphthalene	91-57-6	0.000050	0.000040	0.000019	0.00010
A	4,6-Dinitro-2-methylphenol	534-52-1	0.00010	0.000056	0.000020	0.00020
A	4-Nitrophenol	100-02-7	0.00010	0.000075	0.000047	0.0010
A	Acenaphthene	83-32-9	0.000050	0.000045	0.000027	0.00010
A	Acenaphthylene	208-96-8	0.000050	0.000039	0.000015	0.00010
A	Anthracene	120-12-7	0.000050	0.000040	0.000014	0.00010
A	Benz(a)anthracene	56-55-3	0.000050	0.000036	0.000050	0.00010
A	Benzo(a)pyrene	50-32-8	0.000050	0.000029	0.000020	0.00010
A	Bis(2-chloroethoxy)methane	111-91-1	0.00010	0.000085	0.000030	0.00020
A	Bis(2-ethylhexyl)phthalate	117-81-7	0.00010	0.000072	0.000037	0.00020
A	Chrysene	218-01-9	0.000050	0.000040	0.000021	0.00010
A	Dibenzofuran	132-64-9	0.000050	0.000045	0.000020	0.00010
A	Di-n-butyl phthalate	84-74-2	0.00010	0.000073	0.000020	0.00020
A	Fluoranthene	206-44-0	0.000050	0.000033	0.000010	0.00010
A	Fluorene	86-73-7	0.000050	0.000045	0.000030	0.00010
A	Naphthalene	91-20-3	0.000050	0.000066	0.000020	0.00010
A	Nitrobenzene	98-95-3	0.00010	0.000098	0.000024	0.00020
A	N-Nitrosodiphenylamine	86-30-6	0.00010	0.000079	0.000025	0.00020
A	Pentachlorophenol	87-86-5	0.00010	0.000060	0.000079	0.00020
A	Phenanthrene	85-01-8	0.000050	0.000042	0.000021	0.00010
A	Phenol	108-95-2	0.00010	0.000090	0.000035	0.00020
A	Pyrene	129-00-0	0.000050	0.000044	0.000019	0.00010
S	2,4,6-Tribromophenol	118-79-6	0	0	0	0.00020
S	2-Fluorobiphenyl	321-60-8	0	0	0	0.00020
S	2-Fluorophenol	367-12-4	0	0	0	0.00020
S	4-Terphenyl-d14	1718-51-0	0	0	0	0.00020
S	Nitrobenzene-d5	4165-60-0	0	0	0	0.00020
S	Phenol-d6	13127-88-3	0	0	0	0.00020

WorkOrder: HS20070656
 InstrumentID: VOA2
 Test Code: 8260_LL_W
 Test Number: SW8260
 Test Name: Low Level Volatiles by SW8260C

**METHOD DETECTION /
 REPORTING LIMITS**

Matrix: Aqueous

Units: mg/L

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	1,2-Dichloroethane	107-06-2	0.00050	0.00063	0.00020	0.0010
A	Benzene	71-43-2	0.00050	0.00052	0.00020	0.0010
A	Chlorobenzene	108-90-7	0.0010	0.0011	0.00030	0.0010
A	Ethylbenzene	100-41-4	0.0010	0.0011	0.00030	0.0010
A	Methylene chloride	75-09-2	0.0020	0.00081	0.0010	0.0020
A	Toluene	108-88-3	0.00050	0.00056	0.00020	0.0010
A	Vinyl chloride	75-01-4	0.00050	0.00035	0.00020	0.0010
A	Xylenes, Total	1330-20-7	0.0010	0.0032	0.00030	0.0010
S	1,2-Dichloroethane-d4	17060-07-0	0	0	0	0.0010
S	4-Bromofluorobenzene	460-00-4	0	0	0	0.0010
S	Dibromofluoromethane	1868-53-7	0	0	0	0.0010
S	Toluene-d8	2037-26-5	0	0	0	0.0010

WorkOrder: HS20070656
 InstrumentID: VOA9
 Test Code: 8260_LL_W
 Test Number: SW8260
 Test Name: Low Level Volatiles by SW8260C

**METHOD DETECTION /
 REPORTING LIMITS**

Matrix: Aqueous

Units: mg/L

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	1,2-Dichloroethane	107-06-2	0.00050	0.00060	0.00020	0.0010
A	Benzene	71-43-2	0.00050	0.00054	0.00020	0.0010
A	Chlorobenzene	108-90-7	0.0010	0.0012	0.00030	0.0010
A	Ethylbenzene	100-41-4	0.0010	0.00096	0.00030	0.0010
A	Methylene chloride	75-09-2	0.0020	0.0011	0.0010	0.0020
A	Toluene	108-88-3	0.00050	0.00063	0.00020	0.0010
A	Vinyl chloride	75-01-4	0.00050	0.00058	0.00020	0.0010
A	Xylenes, Total	1330-20-7	0.0010	0.0030	0.00030	0.0010
S	1,2-Dichloroethane-d4	17060-07-0	0	0	0	0.0010
S	4-Bromofluorobenzene	460-00-4	0	0	0	0.0010
S	Dibromofluoromethane	1868-53-7	0	0	0	0.0010
S	Toluene-d8	2037-26-5	0	0	0	0.0010

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20070656

QC BATCH REPORT

Batch ID: 155623 (0)		Instrument: ICPMS06		Method: ICP-MS METALS BY SW6020A						
MBLK	Sample ID: MBLK-155623	Units: mg/L		Analysis Date: 22-Jul-2020 21:27						
Client ID:		Run ID: ICPMS06_365437	SeqNo: 5670474	PrepDate: 22-Jul-2020	DF: 1					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual	
Arsenic	U	0.00200								
LCS	Sample ID: LCS-155623	Units: mg/L		Analysis Date: 22-Jul-2020 21:29						
Client ID:		Run ID: ICPMS06_365437	SeqNo: 5670475	PrepDate: 22-Jul-2020	DF: 1					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual	
Arsenic	0.04443	0.00200	0.05	0	88.9	80 - 120				
MS	Sample ID: HS20070656-02MS	Units: mg/L		Analysis Date: 22-Jul-2020 21:38						
Client ID: WG-1620-MW20A-20200714		Run ID: ICPMS06_365437	SeqNo: 5670480	PrepDate: 22-Jul-2020	DF: 1					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual	
Arsenic	0.04651	0.00200	0.05	0.005298	82.4	80 - 120				
MSD	Sample ID: HS20070656-02MSD	Units: mg/L		Analysis Date: 22-Jul-2020 21:40						
Client ID: WG-1620-MW20A-20200714		Run ID: ICPMS06_365437	SeqNo: 5670481	PrepDate: 22-Jul-2020	DF: 1					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual	
Arsenic	0.0523	0.00200	0.05	0.005298	94.0	80 - 120	0.04651	11.7	20	
PDS	Sample ID: HS20070656-02PDS	Units: mg/L		Analysis Date: 22-Jul-2020 21:42						
Client ID: WG-1620-MW20A-20200714		Run ID: ICPMS06_365437	SeqNo: 5670482	PrepDate: 22-Jul-2020	DF: 1					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual	
Arsenic	0.1011	0.00200	0.1	0.005298	95.8	75 - 125				
SD	Sample ID: HS20070656-02SD	Units: mg/L		Analysis Date: 22-Jul-2020 21:36						
Client ID: WG-1620-MW20A-20200714		Run ID: ICPMS06_365437	SeqNo: 5670479	PrepDate: 22-Jul-2020	DF: 5					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	RPD Limit Qual	
Arsenic	0.005174	0.0100					0.005298	0 10	J	

The following samples were analyzed in this batch:

HS20070656-02	HS20070656-03	HS20070656-04	HS20070656-05
HS20070656-06	HS20070656-07	HS20070656-08	HS20070656-09
HS20070656-10	HS20070656-11	HS20070656-12	HS20070656-13
HS20070656-14	HS20070656-15	HS20070656-16	HS20070656-17
HS20070656-18	HS20070656-19	HS20070656-20	

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20070656

QC BATCH REPORT

Batch ID: 155474 (0)		Instrument: SV-7		Method: LOW-LEVEL SEMIVOLATILES BY 8270D						
MBLK	Sample ID: MBLK-155474	Units: ug/L			Analysis Date: 16-Jul-2020 14:29					
Client ID:	Run ID: SV-7_365176	SeqNo: 5666720	PrepDate: 16-Jul-2020	DF: 1						
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Diphenylhydrazine	U	0.20								
2,4-Dimethylphenol	U	0.20								
2,4-Dinitrotoluene	U	0.20								
2,6-Dinitrotoluene	U	0.20								
2-Chloronaphthalene	U	0.20								
2-Methylnaphthalene	U	0.10								
4,6-Dinitro-2-methylphenol	U	0.20								
4-Nitrophenol	U	1.0								
Acenaphthene	U	0.10								
Acenaphthylene	U	0.10								
Anthracene	U	0.10								
Benz(a)anthracene	U	0.10								
Benzo(a)pyrene	U	0.10								
Bis(2-chloroethoxy)methane	U	0.20								
Bis(2-ethylhexyl)phthalate	U	0.20								
Chrysene	U	0.10								
Dibenzofuran	U	0.10								
Di-n-butyl phthalate	U	0.20								
Fluoranthene	U	0.10								
Fluorene	U	0.10								
Naphthalene	U	0.10								
Nitrobenzene	U	0.20								
N-Nitrosodiphenylamine	U	0.20								
Pentachlorophenol	U	0.20								
Phenanthrene	U	0.10								
Phenol	U	0.20								
Pyrene	U	0.10								
<i>Surr: 2,4,6-Tribromophenol</i>	3.619	0.20	5	0	72.4	34 - 129				
<i>Surr: 2-Fluorobiphenyl</i>	3.735	0.20	5	0	74.7	40 - 125				
<i>Surr: 2-Fluorophenol</i>	3.831	0.20	5	0	76.6	20 - 120				
<i>Surr: 4-Terphenyl-d14</i>	4.543	0.20	5	0	90.9	40 - 135				
<i>Surr: Nitrobenzene-d5</i>	3.765	0.20	5	0	75.3	41 - 120				
<i>Surr: Phenol-d6</i>	4.39	0.20	5	0	87.8	20 - 120				

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20070656

QC BATCH REPORT

Batch ID: 155474 (0)		Instrument: SV-7		Method: LOW-LEVEL SEMIVOLATILES BY 8270D						
LCS	Sample ID: LCS-155474	Units: ug/L			Analysis Date: 16-Jul-2020 13:41					
Client ID:	Run ID: SV-7_365176	SeqNo: 5666719		PrepDate: 16-Jul-2020		DF: 1				
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Diphenylhydrazine	3.453	0.20	5	0	69.1	39 - 127				
2,4-Dimethylphenol	3.264	0.20	5	0	65.3	35 - 120				
2,4-Dinitrotoluene	3.881	0.20	5	0	77.6	50 - 122				
2,6-Dinitrotoluene	3.847	0.20	5	0	76.9	50 - 120				
2-Chloronaphthalene	3.868	0.20	5	0	77.4	50 - 120				
2-Methylnaphthalene	3.59	0.10	5	0	71.8	50 - 120				
4,6-Dinitro-2-methylphenol	3.991	0.20	5	0	79.8	25 - 121				
4-Nitrophenol	3.83	1.0	5	0	76.6	30 - 130				
Acenaphthene	3.289	0.10	5	0	65.8	45 - 120				
Acenaphthylene	3.772	0.10	5	0	75.4	47 - 120				
Anthracene	3.794	0.10	5	0	75.9	45 - 120				
Benz(a)anthracene	4.172	0.10	5	0	83.4	40 - 120				
Benzo(a)pyrene	3.775	0.10	5	0	75.5	45 - 120				
Bis(2-chloroethoxy)methane	3.64	0.20	5	0	72.8	45 - 120				
Bis(2-ethylhexyl)phthalate	4.613	0.20	5	0	92.3	40 - 139				
Chrysene	3.851	0.10	5	0	77.0	43 - 120				
Dibenzofuran	3.665	0.10	5	0	73.3	50 - 120				
Di-n-butyl phthalate	4.275	0.20	5	0	85.5	45 - 123				
Fluoranthene	3.909	0.10	5	0	78.2	45 - 125				
Fluorene	3.719	0.10	5	0	74.4	49 - 120				
Naphthalene	3.602	0.10	5	0	72.0	45 - 120				
Nitrobenzene	3.579	0.20	5	0	71.6	44 - 120				
N-Nitrosodiphenylamine	3.641	0.20	5	0	72.8	40 - 125				
Pentachlorophenol	3.354	0.20	5	0	67.1	19 - 121				
Phenanthrene	3.744	0.10	5	0	74.9	45 - 121				
Phenol	3.257	0.20	5	0	65.1	20 - 124				
Pyrene	3.929	0.10	5	0	78.6	40 - 130				
<i>Surr: 2,4,6-Tribromophenol</i>	<i>4.479</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>89.6</i>	<i>34 - 129</i>				
<i>Surr: 2-Fluorobiphenyl</i>	<i>3.565</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>71.3</i>	<i>40 - 125</i>				
<i>Surr: 2-Fluorophenol</i>	<i>3.355</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>67.1</i>	<i>20 - 120</i>				
<i>Surr: 4-Terphenyl-d14</i>	<i>4.22</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>84.4</i>	<i>40 - 135</i>				
<i>Surr: Nitrobenzene-d5</i>	<i>3.461</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>69.2</i>	<i>41 - 120</i>				
<i>Surr: Phenol-d6</i>	<i>3.785</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>75.7</i>	<i>20 - 120</i>				

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20070656

QC BATCH REPORT

Batch ID: 155474 (0)		Instrument: SV-7		Method: LOW-LEVEL SEMIVOLATILES BY 8270D						
MS	Sample ID: HS20070620-06MS	Units: ug/L			Analysis Date: 16-Jul-2020 21:18					
Client ID:	Run ID: SV-7_365176	SeqNo: 5666682	PrepDate: 16-Jul-2020	DF: 1						
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Diphenylhydrazine	3.659	0.20	5	0	73.2	39 - 127				
2,4-Dimethylphenol	3.52	0.20	5	0	70.4	35 - 120				
2,4-Dinitrotoluene	4.057	0.20	5	0	81.1	50 - 122				
2,6-Dinitrotoluene	3.845	0.20	5	0	76.9	50 - 120				
2-Chloronaphthalene	3.662	0.20	5	0	73.2	50 - 120				
2-Methylnaphthalene	3.29	0.10	5	0.1254	63.3	50 - 120				
4,6-Dinitro-2-methylphenol	3.394	0.20	5	0	67.9	25 - 121				
4-Nitrophenol	2.397	1.0	5	0	47.9	30 - 130				
Acenaphthene	3.283	0.10	5	0	65.7	45 - 120				
Acenaphthylene	3.694	0.10	5	0	73.9	47 - 120				
Anthracene	4.27	0.10	5	0	85.4	45 - 120				
Benz(a)anthracene	5.004	0.10	5	0	100	40 - 120				
Benzo(a)pyrene	5.322	0.10	5	0	106	45 - 120				
Bis(2-chloroethoxy)methane	3.75	0.20	5	0	75.0	45 - 120				
Bis(2-ethylhexyl)phthalate	5.53	0.20	5	0	111	40 - 139				
Chrysene	4.298	0.10	5	0	86.0	43 - 120				
Dibenzofuran	3.706	0.10	5	0	74.1	50 - 120				
Di-n-butyl phthalate	4.855	0.20	5	0	97.1	45 - 123				
Fluoranthene	4.675	0.10	5	0	93.5	45 - 125				
Fluorene	3.785	0.10	5	0	75.7	49 - 120				
Naphthalene	3.522	0.10	5	0	70.4	45 - 120				
Nitrobenzene	3.47	0.20	5	0	69.4	44 - 120				
N-Nitrosodiphenylamine	4.071	0.20	5	0	81.4	40 - 125				
Pentachlorophenol	3.372	0.20	5	0	67.4	19 - 121				
Phenanthrene	4.201	0.10	5	0	84.0	45 - 121				
Phenol	3.212	0.20	5	0	64.2	20 - 124				
Pyrene	4.505	0.10	5	0	90.1	40 - 130				
Surr: 2,4,6-Tribromophenol	4.612	0.20	5	0	92.2	34 - 129				
Surr: 2-Fluorobiphenyl	3.389	0.20	5	0	67.8	40 - 125				
Surr: 2-Fluorophenol	3.175	0.20	5	0	63.5	20 - 120				
Surr: 4-Terphenyl-d14	4.531	0.20	5	0	90.6	40 - 135				
Surr: Nitrobenzene-d5	3.404	0.20	5	0	68.1	41 - 120				
Surr: Phenol-d6	3.839	0.20	5	0	76.8	20 - 120				

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20070656

QC BATCH REPORT

Batch ID: 155474 (0)		Instrument: SV-7		Method: LOW-LEVEL SEMIVOLATILES BY 8270D						
MSD	Sample ID: HS20070620-06MSD	Units: ug/L			Analysis Date: 16-Jul-2020 21:37					
Client ID:	Run ID: SV-7_365176	SeqNo: 5666683		PrepDate: 16-Jul-2020		DF: 1				
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Diphenylhydrazine	4.015	0.20	5	0	80.3	39 - 127	3.659	9.28	20	
2,4-Dimethylphenol	3.333	0.20	5	0	66.7	35 - 120	3.52	5.45	20	
2,4-Dinitrotoluene	4.362	0.20	5	0	87.2	50 - 122	4.057	7.23	20	
2,6-Dinitrotoluene	3.906	0.20	5	0	78.1	50 - 120	3.845	1.58	20	
2-Chloronaphthalene	4.117	0.20	5	0	82.3	50 - 120	3.662	11.7	20	
2-Methylnaphthalene	3.801	0.10	5	0.1254	73.5	50 - 120	3.29	14.4	20	
4,6-Dinitro-2-methylphenol	3.407	0.20	5	0	68.1	25 - 121	3.394	0.376	30	
4-Nitrophenol	2.891	1.0	5	0	57.8	30 - 130	2.397	18.7	20	
Acenaphthene	3.496	0.10	5	0	69.9	45 - 120	3.283	6.29	20	
Acenaphthylene	3.892	0.10	5	0	77.8	47 - 120	3.694	5.21	20	
Anthracene	4.524	0.10	5	0	90.5	45 - 120	4.27	5.77	20	
Benz(a)anthracene	5.035	0.10	5	0	101	40 - 120	5.004	0.629	20	
Benzo(a)pyrene	5.584	0.10	5	0	112	45 - 120	5.322	4.81	20	
Bis(2-chloroethoxy)methane	3.447	0.20	5	0	68.9	45 - 120	3.75	8.41	20	
Bis(2-ethylhexyl)phthalate	5.749	0.20	5	0	115	40 - 139	5.53	3.89	20	
Chrysene	4.763	0.10	5	0	95.3	43 - 120	4.298	10.3	20	
Dibenzofuran	3.848	0.10	5	0	77.0	50 - 120	3.706	3.76	20	
Di-n-butyl phthalate	5.022	0.20	5	0	100	45 - 123	4.855	3.36	20	
Fluoranthene	4.912	0.10	5	0	98.2	45 - 125	4.675	4.96	20	
Fluorene	3.726	0.10	5	0	74.5	49 - 120	3.785	1.57	20	
Naphthalene	3.531	0.10	5	0	70.6	45 - 120	3.522	0.253	20	
Nitrobenzene	3.337	0.20	5	0	66.7	44 - 120	3.47	3.91	20	
N-Nitrosodiphenylamine	4.357	0.20	5	0	87.1	40 - 125	4.071	6.79	20	
Pentachlorophenol	3.421	0.20	5	0	68.4	19 - 121	3.372	1.44	20	
Phenanthrene	4.357	0.10	5	0	87.1	45 - 121	4.201	3.64	20	
Phenol	3.358	0.20	5	0	67.2	20 - 124	3.212	4.46	20	
Pyrene	5	0.10	5	0	100.0	40 - 130	4.505	10.4	20	
<i>Surr: 2,4,6-Tribromophenol</i>	<i>4.933</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>98.7</i>	<i>34 - 129</i>	<i>4.612</i>	<i>6.73</i>	<i>20</i>	
<i>Surr: 2-Fluorobiphenyl</i>	<i>3.518</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>70.4</i>	<i>40 - 125</i>	<i>3.389</i>	<i>3.72</i>	<i>20</i>	
<i>Surr: 2-Fluorophenol</i>	<i>3.368</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>67.4</i>	<i>20 - 120</i>	<i>3.175</i>	<i>5.92</i>	<i>20</i>	
<i>Surr: 4-Terphenyl-d14</i>	<i>4.927</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>98.5</i>	<i>40 - 135</i>	<i>4.531</i>	<i>8.37</i>	<i>20</i>	
<i>Surr: Nitrobenzene-d5</i>	<i>3.2</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>64.0</i>	<i>41 - 120</i>	<i>3.404</i>	<i>6.18</i>	<i>20</i>	
<i>Surr: Phenol-d6</i>	<i>4.08</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>81.6</i>	<i>20 - 120</i>	<i>3.839</i>	<i>6.08</i>	<i>20</i>	

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20070656

QC BATCH REPORT

Batch ID: 155474 (0)	Instrument: SV-7	Method: LOW-LEVEL SEMIVOLATILES BY 8270D		
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The following samples were analyzed in this batch:

HS20070656-02	HS20070656-03	HS20070656-04	HS20070656-05
HS20070656-06	HS20070656-07	HS20070656-08	HS20070656-09
HS20070656-10			

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20070656

QC BATCH REPORT

Batch ID: 155517 (0)		Instrument: SV-7		Method: LOW-LEVEL SEMIVOLATILES BY 8270D						
MBLK	Sample ID: MBLK-155517	Units: ug/L			Analysis Date: 17-Jul-2020 11:47					
Client ID:	Run ID: SV-7_365284	SeqNo: 5667068	PrepDate: 17-Jul-2020	DF: 1						
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Diphenylhydrazine	U	0.20								
2,4-Dimethylphenol	U	0.20								
2,4-Dinitrotoluene	U	0.20								
2,6-Dinitrotoluene	U	0.20								
2-Chloronaphthalene	U	0.20								
2-Methylnaphthalene	U	0.10								
4,6-Dinitro-2-methylphenol	U	0.20								
4-Nitrophenol	U	1.0								
Acenaphthene	U	0.10								
Acenaphthylene	U	0.10								
Anthracene	U	0.10								
Benz(a)anthracene	U	0.10								
Benzo(a)pyrene	U	0.10								
Bis(2-chloroethoxy)methane	U	0.20								
Bis(2-ethylhexyl)phthalate	U	0.20								
Chrysene	U	0.10								
Dibenzofuran	U	0.10								
Di-n-butyl phthalate	U	0.20								
Fluoranthene	U	0.10								
Fluorene	U	0.10								
Naphthalene	U	0.10								
Nitrobenzene	U	0.20								
N-Nitrosodiphenylamine	U	0.20								
Pentachlorophenol	U	0.20								
Phenanthrene	U	0.10								
Phenol	U	0.20								
Pyrene	U	0.10								
<i>Surr: 2,4,6-Tribromophenol</i>	<i>4.104</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>82.1</i>	<i>34 - 129</i>				
<i>Surr: 2-Fluorobiphenyl</i>	<i>3.664</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>73.3</i>	<i>40 - 125</i>				
<i>Surr: 2-Fluorophenol</i>	<i>3.585</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>71.7</i>	<i>20 - 120</i>				
<i>Surr: 4-Terphenyl-d14</i>	<i>4.566</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>91.3</i>	<i>40 - 135</i>				
<i>Surr: Nitrobenzene-d5</i>	<i>3.751</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>75.0</i>	<i>41 - 120</i>				
<i>Surr: Phenol-d6</i>	<i>4.102</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>82.0</i>	<i>20 - 120</i>				

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20070656

QC BATCH REPORT

Batch ID: 155517 (0)		Instrument: SV-7		Method: LOW-LEVEL SEMIVOLATILES BY 8270D						
LCS	Sample ID: LCS-155517	Units: ug/L			Analysis Date: 17-Jul-2020 12:06					
Client ID:	Run ID: SV-7_365284	SeqNo: 5667069		PrepDate: 17-Jul-2020		DF: 1				
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
1,2-Diphenylhydrazine	3.506	0.20	5	0	70.1	39 - 127				
2,4-Dimethylphenol	3.61	0.20	5	0	72.2	35 - 120				
2,4-Dinitrotoluene	3.987	0.20	5	0	79.7	50 - 122				
2,6-Dinitrotoluene	3.805	0.20	5	0	76.1	50 - 120				
2-Chloronaphthalene	3.746	0.20	5	0	74.9	50 - 120				
2-Methylnaphthalene	3.743	0.10	5	0	74.9	50 - 120				
4,6-Dinitro-2-methylphenol	4.018	0.20	5	0	80.4	25 - 121				
4-Nitrophenol	3.659	1.0	5	0	73.2	30 - 130				
Acenaphthene	3.4	0.10	5	0	68.0	45 - 120				
Acenaphthylene	3.759	0.10	5	0	75.2	47 - 120				
Anthracene	3.815	0.10	5	0	76.3	45 - 120				
Benz(a)anthracene	4.806	0.10	5	0	96.1	40 - 120				
Benzo(a)pyrene	3.887	0.10	5	0	77.7	45 - 120				
Bis(2-chloroethoxy)methane	3.691	0.20	5	0	73.8	45 - 120				
Bis(2-ethylhexyl)phthalate	4.462	0.20	5	0	89.2	40 - 139				
Chrysene	4.256	0.10	5	0	85.1	43 - 120				
Dibenzofuran	3.707	0.10	5	0	74.1	50 - 120				
Di-n-butyl phthalate	4.136	0.20	5	0	82.7	45 - 123				
Fluoranthene	4.139	0.10	5	0	82.8	45 - 125				
Fluorene	3.877	0.10	5	0	77.5	49 - 120				
Naphthalene	3.578	0.10	5	0	71.6	45 - 120				
Nitrobenzene	3.569	0.20	5	0	71.4	44 - 120				
N-Nitrosodiphenylamine	3.912	0.20	5	0	78.2	40 - 125				
Pentachlorophenol	3.395	0.20	5	0	67.9	19 - 121				
Phenanthrene	3.673	0.10	5	0	73.5	45 - 121				
Phenol	3.371	0.20	5	0	67.4	20 - 124				
Pyrene	3.999	0.10	5	0	80.0	40 - 130				
<i>Surr: 2,4,6-Tribromophenol</i>	<i>4.417</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>88.3</i>	<i>34 - 129</i>				
<i>Surr: 2-Fluorobiphenyl</i>	<i>3.379</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>67.6</i>	<i>40 - 125</i>				
<i>Surr: 2-Fluorophenol</i>	<i>3.466</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>69.3</i>	<i>20 - 120</i>				
<i>Surr: 4-Terphenyl-d14</i>	<i>4.089</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>81.8</i>	<i>40 - 135</i>				
<i>Surr: Nitrobenzene-d5</i>	<i>3.438</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>68.8</i>	<i>41 - 120</i>				
<i>Surr: Phenol-d6</i>	<i>3.988</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>79.8</i>	<i>20 - 120</i>				

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20070656

QC BATCH REPORT

Batch ID: 155517 (0)		Instrument: SV-7		Method: LOW-LEVEL SEMIVOLATILES BY 8270D						
MS	Sample ID: HS20070596-03MS	Units: ug/L			Analysis Date: 17-Jul-2020 19:03					
Client ID:	Run ID: SV-7_365284	SeqNo: 5675948	PrepDate: 17-Jul-2020	DF: 1						
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Diphenylhydrazine	3.617	0.20	5	0	72.3	39 - 127				
2,4-Dimethylphenol	3.325	0.20	5	0	66.5	35 - 120				
2,4-Dinitrotoluene	3.91	0.20	5	0	78.2	50 - 122				
2,6-Dinitrotoluene	3.771	0.20	5	0	75.4	50 - 120				
2-Chloronaphthalene	3.84	0.20	5	0	76.8	50 - 120				
2-Methylnaphthalene	2.789	0.10	5	0	55.8	50 - 120				
4,6-Dinitro-2-methylphenol	1.408	0.20	5	0	28.2	25 - 121				
4-Nitrophenol	2.868	1.0	5	0	57.4	30 - 130				
Acenaphthene	3.414	0.10	5	0	68.3	45 - 120				
Acenaphthylene	3.828	0.10	5	0	76.6	47 - 120				
Anthracene	3.951	0.10	5	0	79.0	45 - 120				
Benz(a)anthracene	4.525	0.10	5	0	90.5	40 - 120				
Benzo(a)pyrene	4.524	0.10	5	0	90.5	45 - 120				
Bis(2-chloroethoxy)methane	3.568	0.20	5	0	71.4	45 - 120				
Bis(2-ethylhexyl)phthalate	5.387	0.20	5	0	108	40 - 139				
Chrysene	4.029	0.10	5	0	80.6	43 - 120				
Dibenzofuran	3.675	0.10	5	0	73.5	50 - 120				
Di-n-butyl phthalate	4.381	0.20	5	0	87.6	45 - 123				
Fluoranthene	4.193	0.10	5	0	83.9	45 - 125				
Fluorene	3.854	0.10	5	0	77.1	49 - 120				
Naphthalene	3.704	0.10	5	0.2507	69.1	45 - 120				
Nitrobenzene	3.473	0.20	5	0	69.5	44 - 120				
N-Nitrosodiphenylamine	3.929	0.20	5	0	78.6	40 - 125				
Pentachlorophenol	2.32	0.20	5	0	46.4	19 - 121				
Phenanthrene	3.813	0.10	5	0	76.3	45 - 121				
Phenol	4.151	0.20	5	0	83.0	20 - 124				
Pyrene	4.027	0.10	5	0	80.5	40 - 130				
Surr: 2,4,6-Tribromophenol	4.476	0.20	5	0	89.5	34 - 129				
Surr: 2-Fluorobiphenyl	3.438	0.20	5	0	68.8	40 - 125				
Surr: 2-Fluorophenol	3.343	0.20	5	0	66.9	20 - 120				
Surr: 4-Terphenyl-d14	4.12	0.20	5	0	82.4	40 - 135				
Surr: Nitrobenzene-d5	3.346	0.20	5	0	66.9	41 - 120				
Surr: Phenol-d6	4.366	0.20	5	0	87.3	20 - 120				

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20070656

QC BATCH REPORT

Batch ID: 155517 (0)		Instrument: SV-7		Method: LOW-LEVEL SEMIVOLATILES BY 8270D						
MSD	Sample ID: HS20070596-03MSD	Units: ug/L			Analysis Date: 17-Jul-2020 19:22					
Client ID:	Run ID: SV-7_365284	SeqNo: 5675949		PrepDate: 17-Jul-2020		DF: 1				
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Diphenylhydrazine	3.588	0.20	5	0	71.8	39 - 127	3.617	0.818	20	
2,4-Dimethylphenol	3.371	0.20	5	0	67.4	35 - 120	3.325	1.38	20	
2,4-Dinitrotoluene	3.827	0.20	5	0	76.5	50 - 122	3.91	2.15	20	
2,6-Dinitrotoluene	3.692	0.20	5	0	73.8	50 - 120	3.771	2.1	20	
2-Chloronaphthalene	3.625	0.20	5	0	72.5	50 - 120	3.84	5.78	20	
2-Methylnaphthalene	3.629	0.10	5	0	72.6	50 - 120	2.789	26.2	20	R
4,6-Dinitro-2-methylphenol	1.038	0.20	5	0	20.8	25 - 121	1.408	30.3	30	SR
4-Nitrophenol	3.176	1.0	5	0	63.5	30 - 130	2.868	10.2	20	
Acenaphthene	3.254	0.10	5	0	65.1	45 - 120	3.414	4.8	20	
Acenaphthylene	3.579	0.10	5	0	71.6	47 - 120	3.828	6.74	20	
Anthracene	4.139	0.10	5	0	82.8	45 - 120	3.951	4.66	20	
Benz(a)anthracene	4.78	0.10	5	0	95.6	40 - 120	4.525	5.48	20	
Benzo(a)pyrene	4.697	0.10	5	0	93.9	45 - 120	4.524	3.76	20	
Bis(2-chloroethoxy)methane	3.458	0.20	5	0	69.2	45 - 120	3.568	3.13	20	
Bis(2-ethylhexyl)phthalate	5.574	0.20	5	0	111	40 - 139	5.387	3.42	20	
Chrysene	4.131	0.10	5	0	82.6	43 - 120	4.029	2.5	20	
Dibenzofuran	3.554	0.10	5	0	71.1	50 - 120	3.675	3.37	20	
Di-n-butyl phthalate	4.342	0.20	5	0	86.8	45 - 123	4.381	0.897	20	
Fluoranthene	4.333	0.10	5	0	86.7	45 - 125	4.193	3.28	20	
Fluorene	3.706	0.10	5	0	74.1	49 - 120	3.854	3.91	20	
Naphthalene	3.751	0.10	5	0.2507	70.0	45 - 120	3.704	1.24	20	
Nitrobenzene	3.375	0.20	5	0	67.5	44 - 120	3.473	2.87	20	
N-Nitrosodiphenylamine	3.822	0.20	5	0	76.4	40 - 125	3.929	2.76	20	
Pentachlorophenol	2.566	0.20	5	0	51.3	19 - 121	2.32	10	20	
Phenanthrene	3.867	0.10	5	0	77.3	45 - 121	3.813	1.39	20	
Phenol	3.503	0.20	5	0	70.1	20 - 124	4.151	16.9	20	
Pyrene	4.17	0.10	5	0	83.4	40 - 130	4.027	3.49	20	
Surr: 2,4,6-Tribromophenol	4.498	0.20	5	0	90.0	34 - 129	4.476	0.503	20	
Surr: 2-Fluorobiphenyl	3.232	0.20	5	0	64.6	40 - 125	3.438	6.18	20	
Surr: 2-Fluorophenol	3.02	0.20	5	0	60.4	20 - 120	3.343	10.2	20	
Surr: 4-Terphenyl-d14	4.079	0.20	5	0	81.6	40 - 135	4.12	0.99	20	
Surr: Nitrobenzene-d5	3.123	0.20	5	0	62.5	41 - 120	3.346	6.88	20	
Surr: Phenol-d6	3.668	0.20	5	0	73.4	20 - 120	4.366	17.4	20	

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20070656

QC BATCH REPORT

Batch ID: 155517 (0)	Instrument: SV-7	Method: LOW-LEVEL SEMIVOLATILES BY 8270D		
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The following samples were analyzed in this batch:

HS20070656-11	HS20070656-12	HS20070656-13	HS20070656-14
HS20070656-15	HS20070656-16	HS20070656-17	HS20070656-18
HS20070656-19	HS20070656-20		

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20070656

QC BATCH REPORT

Batch ID: R365282 (0)		Instrument: VOA2		Method: LOW LEVEL VOLATILES BY SW8260C					
MBLK	Sample ID: VBLKW-200717	Units: ug/L			Analysis Date: 18-Jul-2020 00:21				
Client ID:	Run ID: VOA2_365282	SeqNo: 5666226		PrepDate:		DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

1,2-Dichloroethane	U	1.0							
Benzene	U	1.0							
Chlorobenzene	U	1.0							
Ethylbenzene	U	1.0							
Methylene chloride	U	2.0							
Toluene	U	1.0							
Vinyl chloride	U	1.0							
Xylenes, Total	U	1.0							
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>50.57</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>101</i>	<i>70 - 123</i>			
<i>Surr: 4-Bromofluorobenzene</i>	<i>50.28</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>101</i>	<i>82 - 115</i>			
<i>Surr: Dibromofluoromethane</i>	<i>51.43</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>103</i>	<i>73 - 126</i>			
<i>Surr: Toluene-d8</i>	<i>50.16</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>100</i>	<i>81 - 120</i>			

LCS	Sample ID: VLCSW-200717	Units: ug/L			Analysis Date: 17-Jul-2020 23:35				
Client ID:	Run ID: VOA2_365282	SeqNo: 5666225		PrepDate:		DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

1,2-Dichloroethane	18.86	1.0	20	0	94.3	70 - 124			
Benzene	18.46	1.0	20	0	92.3	74 - 120			
Chlorobenzene	18.73	1.0	20	0	93.7	76 - 113			
Ethylbenzene	18.21	1.0	20	0	91.1	77 - 117			
Methylene chloride	18.89	2.0	20	0	94.5	70 - 127			
Toluene	19.13	1.0	20	0	95.6	77 - 118			
Vinyl chloride	19.29	1.0	20	0	96.5	70 - 130			
Xylenes, Total	56.17	1.0	60	0	93.6	75 - 122			
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>53.2</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>106</i>	<i>70 - 130</i>			
<i>Surr: 4-Bromofluorobenzene</i>	<i>49.8</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>99.6</i>	<i>82 - 115</i>			
<i>Surr: Dibromofluoromethane</i>	<i>51.11</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>102</i>	<i>73 - 126</i>			
<i>Surr: Toluene-d8</i>	<i>50.34</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>101</i>	<i>81 - 120</i>			

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20070656

QC BATCH REPORT

Batch ID: R365282 (0) **Instrument:** VOA2 **Method:** LOW LEVEL VOLATILES BY SW8260C

MS		Sample ID: HS20070656-02MS			Units: ug/L		Analysis Date: 18-Jul-2020 01:54			
Client ID: WG-1620-MW20A-20200714		Run ID: VOA2_365282			SeqNo: 5666230		PrepDate:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Dichloroethane	18.33	1.0	20	0	91.7	70 - 127				
Benzene	42.11	1.0	20	24.01	90.5	70 - 127				
Chlorobenzene	19.13	1.0	20	0	95.6	70 - 114				
Ethylbenzene	87.05	1.0	20	70.41	83.2	70 - 124				
Methylene chloride	18.94	2.0	20	0	94.7	70 - 128				
Toluene	30.93	1.0	20	11.21	98.6	70 - 123				
Vinyl chloride	19.64	1.0	20	0	98.2	70 - 130				
Xylenes, Total	148.1	1.0	60	90.73	95.5	70 - 130				
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>52.37</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>105</i>	<i>70 - 126</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>51.7</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>103</i>	<i>81 - 113</i>				
<i>Surr: Dibromofluoromethane</i>	<i>51.52</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>103</i>	<i>77 - 123</i>				
<i>Surr: Toluene-d8</i>	<i>49.87</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>99.7</i>	<i>82 - 127</i>				

MSD		Sample ID: HS20070656-02MSD			Units: ug/L		Analysis Date: 18-Jul-2020 02:17			
Client ID: WG-1620-MW20A-20200714		Run ID: VOA2_365282			SeqNo: 5666231		PrepDate:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Dichloroethane	17.64	1.0	20	0	88.2	70 - 127	18.33	3.89	20	
Benzene	40.86	1.0	20	24.01	84.3	70 - 127	42.11	3.01	20	
Chlorobenzene	18.28	1.0	20	0	91.4	70 - 114	19.13	4.55	20	
Ethylbenzene	83.57	1.0	20	70.41	65.8	70 - 124	87.05	4.09	20	S
Methylene chloride	17.78	2.0	20	0	88.9	70 - 128	18.94	6.32	20	
Toluene	29.76	1.0	20	11.21	92.8	70 - 123	30.93	3.84	20	
Vinyl chloride	19.65	1.0	20	0	98.3	70 - 130	19.64	0.0739	20	
Xylenes, Total	142.6	1.0	60	90.73	86.4	70 - 130	148.1	3.76	20	
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>51.57</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>103</i>	<i>70 - 126</i>	<i>52.37</i>	<i>1.54</i>	<i>20</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>50.94</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>102</i>	<i>81 - 113</i>	<i>51.7</i>	<i>1.48</i>	<i>20</i>	
<i>Surr: Dibromofluoromethane</i>	<i>50.67</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>101</i>	<i>77 - 123</i>	<i>51.52</i>	<i>1.66</i>	<i>20</i>	
<i>Surr: Toluene-d8</i>	<i>49.34</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>98.7</i>	<i>82 - 127</i>	<i>49.87</i>	<i>1.06</i>	<i>20</i>	

The following samples were analyzed in this batch:

HS20070656-01	HS20070656-02	HS20070656-03	HS20070656-04
HS20070656-05	HS20070656-06	HS20070656-07	HS20070656-08
HS20070656-12	HS20070656-13	HS20070656-15	HS20070656-16
HS20070656-17	HS20070656-18	HS20070656-19	HS20070656-20

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20070656

QC BATCH REPORT

Batch ID: R365288 (0)		Instrument: VOA9		Method: LOW LEVEL VOLATILES BY SW8260C					
MBLK	Sample ID: VBLKW-200717	Units: ug/L			Analysis Date: 17-Jul-2020 12:17				
Client ID:	Run ID: VOA9_365288	SeqNo: 5666351		PrepDate:		DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

1,2-Dichloroethane	U	1.0							
Benzene	U	1.0							
Chlorobenzene	U	1.0							
Ethylbenzene	U	1.0							
Methylene chloride	U	2.0							
Toluene	U	1.0							
Vinyl chloride	U	1.0							
Xylenes, Total	U	1.0							
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>47.15</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>94.3</i>	<i>70 - 123</i>			
<i>Surr: 4-Bromofluorobenzene</i>	<i>47.62</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>95.2</i>	<i>82 - 115</i>			
<i>Surr: Dibromofluoromethane</i>	<i>48.92</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>97.8</i>	<i>73 - 126</i>			
<i>Surr: Toluene-d8</i>	<i>49.02</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>98.0</i>	<i>81 - 120</i>			

LCS	Sample ID: VLCSW-200717	Units: ug/L			Analysis Date: 17-Jul-2020 11:28				
Client ID:	Run ID: VOA9_365288	SeqNo: 5666350		PrepDate:		DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

1,2-Dichloroethane	18.41	1.0	20	0	92.1	70 - 124			
Benzene	18.29	1.0	20	0	91.5	74 - 120			
Chlorobenzene	18.07	1.0	20	0	90.3	76 - 113			
Ethylbenzene	17.03	1.0	20	0	85.2	77 - 117			
Methylene chloride	18.67	2.0	20	0	93.4	70 - 127			
Toluene	18.08	1.0	20	0	90.4	77 - 118			
Vinyl chloride	15.79	1.0	20	0	78.9	70 - 130			
Xylenes, Total	53.87	1.0	60	0	89.8	75 - 122			
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>46.79</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>93.6</i>	<i>70 - 130</i>			
<i>Surr: 4-Bromofluorobenzene</i>	<i>50</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>100</i>	<i>82 - 115</i>			
<i>Surr: Dibromofluoromethane</i>	<i>48.75</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>97.5</i>	<i>73 - 126</i>			
<i>Surr: Toluene-d8</i>	<i>49.7</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>99.4</i>	<i>81 - 120</i>			

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20070656

QC BATCH REPORT

Batch ID: R365288 (0) **Instrument:** VOA9 **Method:** LOW LEVEL VOLATILES BY SW8260C

MS		Sample ID: HS20070732-01MS			Units: ug/L		Analysis Date: 17-Jul-2020 15:08			
Client ID:		Run ID: VOA9_365288			SeqNo: 5666353		PrepDate:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Dichloroethane	18.73	1.0	20	0	93.6	70 - 127				
Benzene	19.72	1.0	20	0	98.6	70 - 127				
Chlorobenzene	20.15	1.0	20	0	101	70 - 114				
Ethylbenzene	20.83	1.0	20	0	104	70 - 124				
Methylene chloride	18.79	2.0	20	0	94.0	70 - 128				
Toluene	20.24	1.0	20	0	101	70 - 123				
Vinyl chloride	19.6	1.0	20	0	98.0	70 - 130				
Xylenes, Total	62.45	1.0	60	0	104	70 - 130				
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>47.71</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>95.4</i>	<i>70 - 126</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>50.03</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>100</i>	<i>81 - 113</i>				
<i>Surr: Dibromofluoromethane</i>	<i>48.83</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>97.7</i>	<i>77 - 123</i>				
<i>Surr: Toluene-d8</i>	<i>50.09</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>100</i>	<i>82 - 127</i>				

MSD		Sample ID: HS20070732-01MSD			Units: ug/L		Analysis Date: 17-Jul-2020 15:33			
Client ID:		Run ID: VOA9_365288			SeqNo: 5666354		PrepDate:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Dichloroethane	19.97	1.0	20	0	99.9	70 - 127	18.73	6.43	20	
Benzene	20.71	1.0	20	0	104	70 - 127	19.72	4.93	20	
Chlorobenzene	21.14	1.0	20	0	106	70 - 114	20.15	4.78	20	
Ethylbenzene	21.63	1.0	20	0	108	70 - 124	20.83	3.76	20	
Methylene chloride	19.59	2.0	20	0	98.0	70 - 128	18.79	4.17	20	
Toluene	21.17	1.0	20	0	106	70 - 123	20.24	4.48	20	
Vinyl chloride	20.2	1.0	20	0	101	70 - 130	19.6	3.01	20	
Xylenes, Total	66.04	1.0	60	0	110	70 - 130	62.45	5.58	20	
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>46.23</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>92.5</i>	<i>70 - 126</i>	<i>47.71</i>	<i>3.17</i>	<i>20</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>50.04</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>100</i>	<i>81 - 113</i>	<i>50.03</i>	<i>0.0254</i>	<i>20</i>	
<i>Surr: Dibromofluoromethane</i>	<i>47.92</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>95.8</i>	<i>77 - 123</i>	<i>48.83</i>	<i>1.88</i>	<i>20</i>	
<i>Surr: Toluene-d8</i>	<i>49.77</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>99.5</i>	<i>82 - 127</i>	<i>50.09</i>	<i>0.643</i>	<i>20</i>	

The following samples were analyzed in this batch: HS20070656-09

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20070656

QC BATCH REPORT

Batch ID: R365297 (0)		Instrument: VOA9		Method: LOW LEVEL VOLATILES BY SW8260C					
MBLK	Sample ID: VBLKW-200717	Units: ug/L			Analysis Date: 18-Jul-2020 01:21				
Client ID:	Run ID: VOA9_365297	SeqNo: 5666478		PrepDate:		DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

1,2-Dichloroethane	U	1.0							
Benzene	U	1.0							
Chlorobenzene	U	1.0							
Ethylbenzene	U	1.0							
Methylene chloride	U	2.0							
Toluene	U	1.0							
Vinyl chloride	U	1.0							
Xylenes, Total	U	1.0							
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>46.93</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>93.9</i>	<i>70 - 123</i>			
<i>Surr: 4-Bromofluorobenzene</i>	<i>48.16</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>96.3</i>	<i>82 - 115</i>			
<i>Surr: Dibromofluoromethane</i>	<i>48.17</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>96.3</i>	<i>73 - 126</i>			
<i>Surr: Toluene-d8</i>	<i>50.14</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>100</i>	<i>81 - 120</i>			

LCS	Sample ID: VLCSW-200717	Units: ug/L			Analysis Date: 18-Jul-2020 00:33				
Client ID:	Run ID: VOA9_365297	SeqNo: 5666477		PrepDate:		DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

1,2-Dichloroethane	18.88	1.0	20	0	94.4	70 - 124			
Benzene	19.44	1.0	20	0	97.2	74 - 120			
Chlorobenzene	19.44	1.0	20	0	97.2	76 - 113			
Ethylbenzene	19.43	1.0	20	0	97.2	77 - 117			
Methylene chloride	18.61	2.0	20	0	93.0	70 - 127			
Toluene	19.15	1.0	20	0	95.7	77 - 118			
Vinyl chloride	17.3	1.0	20	0	86.5	70 - 130			
Xylenes, Total	60.16	1.0	60	0	100	75 - 122			
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>46.11</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>92.2</i>	<i>70 - 130</i>			
<i>Surr: 4-Bromofluorobenzene</i>	<i>49.66</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>99.3</i>	<i>82 - 115</i>			
<i>Surr: Dibromofluoromethane</i>	<i>48.2</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>96.4</i>	<i>73 - 126</i>			
<i>Surr: Toluene-d8</i>	<i>49.67</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>99.3</i>	<i>81 - 120</i>			

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20070656

QC BATCH REPORT

Batch ID: R365297 (0) **Instrument:** VOA9 **Method:** LOW LEVEL VOLATILES BY SW8260C

MS		Sample ID: HS20070739-04MS			Units: ug/L		Analysis Date: 18-Jul-2020 03:24			
Client ID:		Run ID: VOA9_365297			SeqNo: 5666480		PrepDate:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Dichloroethane	19.14	1.0	20	0	95.7	70 - 127				
Benzene	20.23	1.0	20	0	101	70 - 127				
Chlorobenzene	20.14	1.0	20	0	101	70 - 114				
Ethylbenzene	20.24	1.0	20	0	101	70 - 124				
Methylene chloride	18.18	2.0	20	0	90.9	70 - 128				
Toluene	20.57	1.0	20	0	103	70 - 123				
Vinyl chloride	19.38	1.0	20	0	96.9	70 - 130				
Xylenes, Total	61.57	1.0	60	0	103	70 - 130				
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>45.22</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>90.4</i>	<i>70 - 126</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>49.1</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>98.2</i>	<i>81 - 113</i>				
<i>Surr: Dibromofluoromethane</i>	<i>47.53</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>95.1</i>	<i>77 - 123</i>				
<i>Surr: Toluene-d8</i>	<i>49.07</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>98.1</i>	<i>82 - 127</i>				

MSD		Sample ID: HS20070739-04MSD			Units: ug/L		Analysis Date: 18-Jul-2020 03:48			
Client ID:		Run ID: VOA9_365297			SeqNo: 5666481		PrepDate:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Dichloroethane	20.4	1.0	20	0	102	70 - 127	19.14	6.35	20	
Benzene	20.97	1.0	20	0	105	70 - 127	20.23	3.58	20	
Chlorobenzene	20.79	1.0	20	0	104	70 - 114	20.14	3.19	20	
Ethylbenzene	21	1.0	20	0	105	70 - 124	20.24	3.69	20	
Methylene chloride	19.85	2.0	20	0	99.2	70 - 128	18.18	8.78	20	
Toluene	21.19	1.0	20	0	106	70 - 123	20.57	2.98	20	
Vinyl chloride	19.97	1.0	20	0	99.9	70 - 130	19.38	3.03	20	
Xylenes, Total	63.65	1.0	60	0	106	70 - 130	61.57	3.32	20	
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>46.04</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>92.1</i>	<i>70 - 126</i>	<i>45.22</i>	<i>1.78</i>	<i>20</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>49.78</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>99.6</i>	<i>81 - 113</i>	<i>49.1</i>	<i>1.37</i>	<i>20</i>	
<i>Surr: Dibromofluoromethane</i>	<i>48.92</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>97.8</i>	<i>77 - 123</i>	<i>47.53</i>	<i>2.88</i>	<i>20</i>	
<i>Surr: Toluene-d8</i>	<i>48.91</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>97.8</i>	<i>82 - 127</i>	<i>49.07</i>	<i>0.329</i>	<i>20</i>	

The following samples were analyzed in this batch: HS20070656-10 HS20070656-11 HS20070656-14

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20070656

**QUALIFIERS,
ACRONYMS, UNITS**

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
mg/L	Milligrams per Liter

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	20-030-0	26-Mar-2021
Dept of Defense	ANAB L2231 V009	22-Dec-2021
Illinois	2000322020-4	09-May-2021
Kansas	E-10352 2019-2020	31-Jul-2020
North Carolina	624-2020	31-Dec-2020
Oklahoma	2019-141	31-Aug-2020
Texas	T104704231-20-26	30-Apr-2021

Sample Receipt Checklist

Work Order ID: HS20070656

Date/Time Received: 15-Jul-2020 15:55

Client Name: PBW

Received by: Paresh M. Giga

Completed By: /S/ Jared R. Makan	15-Jul-2020 18:32	Reviewed by: /S/ Dane J. Wacasey	15-Jul-2020 20:48
eSignature	Date/Time	eSignature	Date/Time

Matrices: **Water**

Carrier name: **Client**

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- VOA/TX1005/TX1006 Solids in hermetically sealed vials? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Samplers name present on COC? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container/Temp Blank temperature in compliance? Yes No

3 Page(s)
COC IDs:227274, 227273, 227269

Temperature(s)/Thermometer(s):	4.4°C, 4.8°C, 3.5°C, 4.2°C, 4.6°C Corrected temp	IR25
Cooler(s)/Kit(s):	43490, 43078, 44481, 45114, Blue	
Date/Time sample(s) sent to storage:	07/15/2020 18:40	
Water - VOA vials have zero headspace?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	No VOA vials submitted <input type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	N/A <input type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	N/A <input type="checkbox"/>

pH adjusted by:

Login Notes:

Client Contacted: _____ Date Contacted: _____ Person Contacted: _____
 Contacted By: _____ Regarding: _____

Comments:

Corrective Action:



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Chain of Custody Form

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COC ID: 227274

HS20070656

Golder Associates Inc.
Houston TX-Wood Preserving Works



ALS Project Manager:

Customer Information		Project Information													
Purchase Order	UPRR/Kevin Peterburs	Project Name	Houston TX-Wood Preserving Works	A	8260_LL_W (5632528 Volatile Organics Site Specific)										
Work Order		Project Number	1620-07-Rev0 SR 92688	B	8260_LL_W (5632528 VOC Site Specific + V.C.)										
Company Name	Golder Associates	Bill To Company	Union Pacific Railroad- A/P	C	8270_LOW_W (5632532 SemiVolatiles Site specific)										
Send Report To	Eric Matzner	Invoice Attn	Accounts Payable	D	ICP_TW (5636002 5652646 Metals - As)										
Address	2201 Double Creek Drive	Address	1400 Douglas Street	E											
	Suite 4004		Stop 0750	F											
City/State/Zip	Round Rock, TX 78664	City/State/Zip	Omaha NE 681790750	G											
Phone	(512) 671-3434	Phone		H											
Fax	(512) 671-3446	Fax		I											
e-Mail Address	eric.matzner@pbwllc.com	e-Mail Address		J											

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold	
1	WQ-1620-TB01 -20200715	7-15-20	-	Water	1	2		X										
2	WG-1620-MW20A-20200714	7-14-20	0835	Groundwa	1,2,B	6	X		X	X								
3	WG-1620-MW15A-20200714	↓	0925			6	X		X	X								
4	WG-1620-MW15C-20200714		1010			6	X		X	X								
5	WG-1620-MW15B-20200714		1055			6	X		X	X								
6	WG-1620-MW19C-20200714		1140			6		X	X	X								
7	WG-1620-MW23C-20200714		1225			6	X	X	X	X								
8	WG-1620-MW72B-20200714		1410			6	X		X	X								
9	WG-1620-MW18A-20200714		1500			6		X	X	X								
10	WG-1620-MW18C-20200714		1550			6		X	X	X								

Sampler(s) Please Print & Sign
 Relinquished by: JOHN DEAYTON Date: 7-15-20 Time: 12:55
 Relinquished by: John B... Date: _____ Time: _____
 Logged by (Laboratory): _____ Date: _____ Time: _____
 Shipment Method: HAND DELIVERED
 Required Turnaround Time: (Check Box) STD 10 Wk Days 5 Wk Days 2 Wk Days 24 Hour
 Results Due Date: _____
 Notes: UPRR Houston MWPW
 Cooler ID: 43078 Cooler Temp: 4.2°
 Cooler ID: 45114 Cooler Temp: 4.2°
 Cooler ID: 45644 Cooler Temp: 3.6°
 Cooler ID: 43490 Cooler Temp: 4.4°
 Cooler ID: 5102 Cooler Temp: 4.6°
 QC Package: (Check One Box Below)
 Level II Std OC TRRP Checklist
 Level III Std OC/PAW Date TRRP Level IV
 Level IV SW846/CLP
 Other

Preservative Key: 1-HCl 2-HNO₃ 3-H₂SO₄ 4-NaOH 5-Na₂S₂O₃ 6-NaHSO₄ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
 2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
 3. The Chain of Custody is a legal document. All information must be completed accurately.

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Chain of Custody Form

Page 2 of 3

COC ID: 227273

HS20070656

Golder Associates Inc.
Houston TX-Wood Preserving Works



ALS Project Manager:

Customer Information		Project Information	
Purchase Order	UPRR/Kevin Peterburs	Project Name	Houston TX-Wood Preserving Works
Work Order		Project Number	1620-07-Rev0 SR 92683
Company Name	Golder Associates	Bill To Company	Union Pacific Railroad- A/P
Send Report To	Eric Matzner	Invoice Attn	Accounts Payable
Address	2201 Double Creek Drive Suite 4004	Address	1400 Douglas Street
			Stop 0750
City/State/Zip	Round Rock, TX 78664	City/State/Zip	Omaha NE 681790750
Phone	(512) 671-3434	Phone	
Fax	(512) 671-3446	Fax	
e-Mail Address	eric.matzner@pbwllc.com	e-Mail Address	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	WQ-1620-TB0 -202007			Water	1	2		X									
2	WG-1620-MW17-20200714	7-14-20	1650	Groundwa	1,2,8	6	X		X	X							
3	WG-1620-MW17C-20200714		1740			6	X		X	X							
4	WG-1620-FB01-20200714		1800			6		X	X	X							
5	WG-1620-MW57B-20200715	7-15-20	0815			6	X		X	X							
6	WG-1620-MW57A-20200715		0910			6		X	X	X							
7	WG-1620-MW58A-20200715		0955			6		X	X	X							
8	WG-1620-MW14-20200715		1045			6	X		X	X							
9	WG-1620-MW13-20200715		1140			6	X		X	X							
10	WG-1620-MW88C-20200715		1255			6	X		X	X							

Sampler(s) Please Print & Sign <i>John Beaton</i>		Shipment Method HAND DELIVERED		Required Turnaround Time: (Check Box) <input checked="" type="checkbox"/> STD 10 Wk Days <input type="checkbox"/> 5 Wk Days <input type="checkbox"/> 2 Wk Days <input type="checkbox"/> 24 Hour				Results Due Date:							
Relinquished by: <i>John Beaton</i>	Date: 7-15-20	Time: 15:55	Received by: <i>[Signature]</i>	Notes: UPRR Houston MWPW											
Relinquished by:	Date:	Time:	Received by (Laboratory):	Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)									
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	43623	6.0	<input type="checkbox"/> Level II Std QC	<input checked="" type="checkbox"/> TRRP Checklist								
Preservative Key:	1-HCl	2-HNO ₃	3-H ₂ SO ₄	4-NaOH	5-Na ₂ S ₂ O ₃	6-NaHSO ₄	7-Other	8-4°C	9-5035	45202	3.90	<input type="checkbox"/> Level III Std QC/Raw Date	<input type="checkbox"/> TRRP Level IV		
										44481	3.50	<input type="checkbox"/> Level IV SW846/CLP			
												<input type="checkbox"/> Other			

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
 2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
 3. The Chain of Custody is a legal document. All information must be completed accurately.

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Chain of Custody Form

Page 3 of 3

COC ID: 227269

HS20070656

Golder Associates Inc.
Houston TX-Wood Preserving Works



ALS Project Manager:

Customer Information		Project Information		ALS Project Manager:	
Purchase Order	UPRR/Kevin Peterburs	Project Name	Houston TX-Wood Preserving Works	A	8260_LL_W (5632528 Volatile Organics Site Specific)
Work Order		Project Number	1620-07-Rev0 SR 92688	B	8260_LL_W (5632528 VOC Site Specific + V.C.)
Company Name	Golder Associates	Bill To Company	Union Pacific Railroad- A/P	C	8270_LOW_W (5632532 SemiVolatiles Site specific)
Send Report To	Eric Matzner	Invoice Attn	Accounts Payable	D	ICP_TW (5636002 5652646 Metals - As)
Address	2201 Double Creek Drive	Address	1400 Douglas Street	E	
	Suite 4004		Stop 0750	F	
City/State/Zip	Round Rock, TX 78664	City/State/Zip	Omaha NE 681790750	G	
Phone	(512) 671-3434	Phone		H	
Fax	(512) 671-3446	Fax		I	
e-Mail Address	eric.matzner@pbwlic.com	e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	WG-1620-TB0 202007			Water	1	2		X									
2	WG-1620-MW88A-20200715	7-15-20	1400	Groundwa	1,2,8	6	X		X	X							
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: JOHN BRAYTON John B

Relinquished by: John B Date: 7-15-20 Time: 13:55

Relinquished by: John B Date: 7-15-20 Time: 13:55

Shipment Method: HAND DELIVERED

Required Turnaround Time: (Check Box) STD 10 Wk Days 5 Wk Days 2 Wk Days 24 Hour

Other:

Results Due Date: _____

Notes: UPRR Houston MWPW

QC Package: (Check One Box Below)

Level II Std QC TRRP Checklist

Level III Std QC/Raw Data TRRP Level IV

Level IV SWB#B/GLP

Other

Preservative Key: 1-HCl 2-HNO₃ 3-H₂SO₄ 4-NaOH 5-Na₂S₂O₃ 6-NaHSO₄ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
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 3. The Chain of Custody is a legal document. All information must be completed accurately.



10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887

July 28, 2020

Eric Matzner
Golder Associates Inc.
2201 Double Creek Drive
Suite 4004
Round Rock, TX 78664

Work Order: **HS20070774**

Laboratory Results for: **Houston TX-Wood Preserving Works**

Dear Eric Matzner,

ALS Environmental received 31 sample(s) on Jul 17, 2020 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read 'Dane J. Wacasey'.

Generated By: JUMOKE.LAWAL
Dane J. Wacasey

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20070774

**TRRP Laboratory Data
Package Cover Page**

This data package consists of all or some of the following as applicable:

This signature page, the laboratory review checklist, and the following reportable data:

- R1 Field chain-of-custody documentation;
- R2 Sample identification cross-reference;
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
 - a) Items consistent with NELAC Chapter 5,
 - b) dilution factors,
 - c) preparation methods,
 - d) cleanup methods, and
 - e) if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate recovery data including:
 - a) Calculated recovery (%R), and
 - b) The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
 - a) LCS spiking amounts,
 - b) Calculated %R for each analyte, and
 - c) The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a) Samples associated with the MS/MSD clearly identified,
 - b) MS/MSD spiking amounts,
 - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d) Calculated %Rs and relative percent differences (RPDs), and
 - e) The laboratory's MS/MSD QC limits.
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
 - a) the amount of analyte measured in the duplicate,
 - b) the calculated RPD, and
 - c) the laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.
- R10 Other problems or anomalies.
The Exception Report for each "No" or "Not Reviewed (NR)" item in Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20070774

**TRRP Laboratory Data
Package Cover Page**

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory have been identified by the laboratory in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Check, if applicable: [NA] This laboratory meets an exception under 30 TAC §25.6 and was last inspected by TCEQ or _____ on (enter date of last inspection). Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.



Dane J. Wacasey

Laboratory Review Checklist: Reportable Data

Laboratory Name: ALS Laboratory Group		LRC Date: 07/28/2020					
Project Name: Houston TX-Wood Preserving Works		Laboratory Job Number: HS20070774					
Reviewer Name: Dane Wacasey		Prep Batch Number: 155547,155565,155609,155717,155718,155719,R365342,R365345,R365396					
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER ⁵
R1	OI	Chain-of-custody (C-O-C)					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?	X				
R2	OI	Sample and quality control (QC) identification					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	Test reports					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?			X		
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW-846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	Surrogate recovery data					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?		X			1
R5	OI	Test reports/summary forms for blank samples					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	Laboratory control samples (LCS):					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?		X			2
R7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?		X			3
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?	X				
		Were MS/MSD RPDs within laboratory QC limits?		X			4
R8	OI	Analytical duplicate data					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	Method quantitation limits (MQLs):					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	Other problems/anomalies					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Were all necessary corrective actions performed for the reported data?	X				
		Was applicable and available technology used to lower the SDL and minimize the matrix interference affects on the sample results?	X				5
		Is the laboratory NELAC-accredited under the Texas Laboratory Program for the analytes, matrices and methods associated with this laboratory data package?	X				

Laboratory Review Checklist: Supporting Data							
Laboratory Name: ALS Laboratory Group				LRC Date: 07/28/2020			
Project Name: Houston TX-Wood Preserving Works				Laboratory Job Number: HS20070774			
Reviewer Name: Dane Wacasey				Prep Batch Number: 155547,155565,155609,155717,155718,155719,R365342,R365345,R365396			
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S1	OI	Initial calibration (ICAL)					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB)					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	Mass spectral tuning:					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	Internal standards (IS):					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	Raw data (NELAC section 1 appendix A glossary, and section 5.12 or ISO/IEC 17025 section)					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	Dual column confirmation					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	Tentatively identified compounds (TICs):					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	Interference Check Sample (ICS) results:					
		Were percent recoveries within method QC limits?	X				
S9	I	Serial dilutions, post digestion spikes, and method of standard additions					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	X				
S10	OI	Method detection limit (MDL) studies					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	Proficiency test reports:					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards documentation					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/analyte identification procedures					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of analyst competency (DOC)					
		Was DOC conducted consistent with NELAC Chapter 5C or ISO/IEC 4?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/validation documentation for methods (NELAC Chap 5 or ISO/IEC 17025 Section 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory standard operating procedures (SOPs):					
		Are laboratory SOPs current and on file for each method performed?	X				

Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

O = Organic Analyses; I = Inorganic Analyses (and general chemistry, when applicable);

NA = Not Applicable;

NR = Not Reviewed;

R# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Exception Reports

Laboratory Name: ALS Laboratory Group		LRC Date: 07/28/2020
Project Name: Houston TX-Wood Preserving Works		Laboratory Job Number: HS20070774
Reviewer Name: Dane Wacasey		Prep Batch Number: 155547,155565,155609,155717,155718,155719,R365342,R365345,R365396
ER# ⁵	Description	
1	Semivolatile Organics Method SW8270, samples WG-1620-MW49A-20200716, WG-1620-MW40B-20200716, WG-1620-TW41B-20200717, the surrogate recoveries could not be determined due to dilution below the calibration range. Semivolatile Organics Method SW8270, sample WG-1620-MW62B-20200716, surrogate 2-Fluorobiphenyl recovered below the lower control limit in the 50x dilution All surrogates were within the control limit in the 10x analysis.	
2	Batch 155565, Semivolatile Organics Method SW8270, The RPD between the LCS and LCSD was outside of the control limit for 4-Nitrophenol and Pentachlorophenol. The individual recoveries met acceptance criteria.	
3	Batch 155565, Semivolatile Organics Method SW8270, LCS/LCSD were analyzed and reported in lieu of an MS/MSD for this batch.	
4	Batch 155547, Semivolatile Organics Method SW8270, sample HS20070658-13, MS/MSD RPD is for an unrelated sample. Batch 155547, Semivolatile Organics Method SW8270, sample WG-1620-MW88B-20200716, MS/MSD RPD recovered above the RPD limit for Phenol due to possible matrix effect.	
5	Batch R365396, Volatile Organics Method SW8260, sample WG-1620-MW85C-20200716; Lowest practical dilution of 25x performed due to sample matrix.	
<p>Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. O = Organic Analyses; I = Inorganic Analyses (and general chemistry, when applicable); NA = Not Applicable; NR = Not Reviewed; R# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).</p>		

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
Work Order: HS20070774

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS20070774-01	WQ-1620-TB02-20200716	Water		16-Jul-2020 00:00	17-Jul-2020 15:00	<input type="checkbox"/>
HS20070774-02	WG-1620-MW03-20200715	Groundwater		15-Jul-2020 12:40	17-Jul-2020 15:00	<input type="checkbox"/>
HS20070774-03	WG-1620-MW04-20200715	Groundwater		15-Jul-2020 14:25	17-Jul-2020 15:00	<input type="checkbox"/>
HS20070774-04	WG-1620-MW05-20200715	Groundwater		15-Jul-2020 13:35	17-Jul-2020 15:00	<input type="checkbox"/>
HS20070774-05	WG-1620-MW09-20200715	Groundwater		15-Jul-2020 10:25	17-Jul-2020 15:00	<input type="checkbox"/>
HS20070774-06	WG-1620-MW64A-20200715	Groundwater		15-Jul-2020 11:40	17-Jul-2020 15:00	<input type="checkbox"/>
HS20070774-07	WG-1620-FB02-20200715	Water		15-Jul-2020 14:45	17-Jul-2020 15:00	<input type="checkbox"/>
HS20070774-08	WG-1620-MW51C-20200716	Groundwater		16-Jul-2020 08:35	17-Jul-2020 15:00	<input type="checkbox"/>
HS20070774-09	WG-1620-MW51A-20200716	Groundwater		16-Jul-2020 09:25	17-Jul-2020 15:00	<input type="checkbox"/>
HS20070774-10	WG-1620-MW86C-20200716	Groundwater		16-Jul-2020 10:15	17-Jul-2020 15:00	<input type="checkbox"/>
HS20070774-11	WG-1620-MW97A-20200716	Groundwater		16-Jul-2020 11:05	17-Jul-2020 15:00	<input type="checkbox"/>
HS20070774-12	WG-1620-MW98B-20200716	Groundwater		16-Jul-2020 11:50	17-Jul-2020 15:00	<input type="checkbox"/>
HS20070774-13	WG-1620-MW98A-20200716	Groundwater		16-Jul-2020 13:10	17-Jul-2020 15:00	<input type="checkbox"/>
HS20070774-14	WG-1620-MW50B-20200716	Groundwater		16-Jul-2020 14:00	17-Jul-2020 15:00	<input type="checkbox"/>
HS20070774-15	WG-1620-MW85C-20200716	Groundwater		16-Jul-2020 14:50	17-Jul-2020 15:00	<input type="checkbox"/>
HS20070774-16	WG-1620-MW47C-20200716	Groundwater		16-Jul-2020 15:50	17-Jul-2020 15:00	<input type="checkbox"/>
HS20070774-17	WG-1620-MW49A-20200716	Groundwater		16-Jul-2020 16:45	17-Jul-2020 15:00	<input type="checkbox"/>
HS20070774-18	WG-1620-MW48C-20200716	Groundwater		16-Jul-2020 17:35	17-Jul-2020 15:00	<input type="checkbox"/>
HS20070774-19	WG-1620-MW21C-20200716	Groundwater		16-Jul-2020 08:40	17-Jul-2020 15:00	<input type="checkbox"/>
HS20070774-20	WG-1620-P11-20200716	Groundwater		16-Jul-2020 10:25	17-Jul-2020 15:00	<input type="checkbox"/>
HS20070774-21	WG-1620-MW62B-20200716	Groundwater		16-Jul-2020 11:25	17-Jul-2020 15:00	<input type="checkbox"/>
HS20070774-22	WG-1620-MW88B-20200716	Groundwater		16-Jul-2020 12:25	17-Jul-2020 15:00	<input type="checkbox"/>
HS20070774-23	WG-1620-MW42B-20200716	Groundwater		16-Jul-2020 13:45	17-Jul-2020 15:00	<input type="checkbox"/>
HS20070774-24	WG-1620-MW40B-20200716	Groundwater		16-Jul-2020 14:45	17-Jul-2020 15:00	<input type="checkbox"/>
HS20070774-25	WG-1620-MW39B-20200716	Groundwater		16-Jul-2020 15:40	17-Jul-2020 15:00	<input type="checkbox"/>
HS20070774-26	WG-1620-DUP01-20200716	Groundwater		16-Jul-2020 00:00	17-Jul-2020 15:00	<input type="checkbox"/>

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
Work Order: HS20070774

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS20070774-27	WG-1620-FB03-20200716	Water		16-Jul-2020 16:00	17-Jul-2020 15:00	<input type="checkbox"/>
HS20070774-28	WG-1620-TW41B-20200717	Groundwater		17-Jul-2020 09:00	17-Jul-2020 15:00	<input type="checkbox"/>
HS20070774-29	WG-1620-MW12A-20200717	Groundwater		17-Jul-2020 10:10	17-Jul-2020 15:00	<input type="checkbox"/>
HS20070774-30	WG-1620-MW12C-20200717	Groundwater		17-Jul-2020 10:40	17-Jul-2020 15:00	<input type="checkbox"/>
HS20070774-31	WG-1620-FB04-20200717	Water		17-Jul-2020 11:30	17-Jul-2020 15:00	<input type="checkbox"/>

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WQ-1620-TB02-20200716
 Collection Date: 16-Jul-2020 00:00

ANALYTICAL REPORT
 WorkOrder:HS20070774
 Lab ID:HS20070774-01
 Matrix:Water

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	20-Jul-2020 19:22
Benzene	U		0.00020	0.0010	mg/L	1	20-Jul-2020 19:22
Chlorobenzene	U		0.00030	0.0010	mg/L	1	20-Jul-2020 19:22
Ethylbenzene	U		0.00030	0.0010	mg/L	1	20-Jul-2020 19:22
Methylene chloride	U		0.0010	0.0020	mg/L	1	20-Jul-2020 19:22
Toluene	U		0.00020	0.0010	mg/L	1	20-Jul-2020 19:22
Vinyl chloride	U		0.00020	0.0010	mg/L	1	20-Jul-2020 19:22
Xylenes, Total	U		0.00030	0.0010	mg/L	1	20-Jul-2020 19:22
<i>Surr: 1,2-Dichloroethane-d4</i>		<i>104</i>		<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>20-Jul-2020 19:22</i>
<i>Surr: 4-Bromofluorobenzene</i>		<i>99.1</i>		<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>20-Jul-2020 19:22</i>
<i>Surr: Dibromofluoromethane</i>		<i>104</i>		<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>20-Jul-2020 19:22</i>
<i>Surr: Toluene-d8</i>		<i>101</i>		<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>20-Jul-2020 19:22</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW03-20200715
 Collection Date: 15-Jul-2020 12:40

ANALYTICAL REPORT
 WorkOrder:HS20070774
 Lab ID:HS20070774-02
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	20-Jul-2020 19:45
Benzene	U		0.00020	0.0010	mg/L	1	20-Jul-2020 19:45
Chlorobenzene	U		0.00030	0.0010	mg/L	1	20-Jul-2020 19:45
Ethylbenzene	U		0.00030	0.0010	mg/L	1	20-Jul-2020 19:45
Methylene chloride	U		0.0010	0.0020	mg/L	1	20-Jul-2020 19:45
Toluene	U		0.00020	0.0010	mg/L	1	20-Jul-2020 19:45
Xylenes, Total	U		0.00030	0.0010	mg/L	1	20-Jul-2020 19:45
<i>Surr: 1,2-Dichloroethane-d4</i>		<i>103</i>		<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>20-Jul-2020 19:45</i>
<i>Surr: 4-Bromofluorobenzene</i>		<i>99.1</i>		<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>20-Jul-2020 19:45</i>
<i>Surr: Dibromofluoromethane</i>		<i>103</i>		<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>20-Jul-2020 19:45</i>
<i>Surr: Toluene-d8</i>		<i>101</i>		<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>20-Jul-2020 19:45</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW03-20200715
 Collection Date: 15-Jul-2020 12:40

ANALYTICAL REPORT
 WorkOrder:HS20070774
 Lab ID:HS20070774-02
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 20-Jul-2020		Analyst: ACN	
1,2-Diphenylhydrazine	U		0.000021	0.00020	mg/L	1	25-Jul-2020 11:35
2,4-Dimethylphenol	U		0.000040	0.00020	mg/L	1	25-Jul-2020 11:35
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	25-Jul-2020 11:35
2,6-Dinitrotoluene	U		0.000042	0.00020	mg/L	1	25-Jul-2020 11:35
2-Chloronaphthalene	U		0.000021	0.00020	mg/L	1	25-Jul-2020 11:35
2-Methylnaphthalene	U		0.000019	0.00010	mg/L	1	25-Jul-2020 11:35
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	25-Jul-2020 11:35
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	25-Jul-2020 11:35
Acenaphthene	0.00070		0.000027	0.00010	mg/L	1	25-Jul-2020 11:35
Acenaphthylene	0.000022	J	0.000015	0.00010	mg/L	1	25-Jul-2020 11:35
Anthracene	0.00010		0.000014	0.00010	mg/L	1	25-Jul-2020 11:35
Benz(a)anthracene	U		0.000050	0.00010	mg/L	1	25-Jul-2020 11:35
Benzo(a)pyrene	U		0.000020	0.00010	mg/L	1	25-Jul-2020 11:35
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	25-Jul-2020 11:35
Bis(2-ethylhexyl)phthalate	0.000095	J	0.000037	0.00020	mg/L	1	25-Jul-2020 11:35
Chrysene	U		0.000021	0.00010	mg/L	1	25-Jul-2020 11:35
Dibenzofuran	0.00013		0.000020	0.00010	mg/L	1	25-Jul-2020 11:35
Di-n-butyl phthalate	0.000054	J	0.000020	0.00020	mg/L	1	25-Jul-2020 11:35
Fluoranthene	0.00020		0.000010	0.00010	mg/L	1	25-Jul-2020 11:35
Fluorene	0.00012		0.000030	0.00010	mg/L	1	25-Jul-2020 11:35
Naphthalene	0.000081	J	0.000020	0.00010	mg/L	1	25-Jul-2020 11:35
Nitrobenzene	U		0.000024	0.00020	mg/L	1	25-Jul-2020 11:35
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	25-Jul-2020 11:35
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	25-Jul-2020 11:35
Phenanthrene	0.000038	J	0.000021	0.00010	mg/L	1	25-Jul-2020 11:35
Phenol	U		0.000035	0.00020	mg/L	1	25-Jul-2020 11:35
Pyrene	0.00010		0.000019	0.00010	mg/L	1	25-Jul-2020 11:35
<i>Surr: 2,4,6-Tribromophenol</i>	<i>106</i>			<i>34-129</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 11:35</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>116</i>			<i>40-125</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 11:35</i>
<i>Surr: 2-Fluorophenol</i>	<i>96.8</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 11:35</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>127</i>			<i>40-135</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 11:35</i>
<i>Surr: Nitrobenzene-d5</i>	<i>91.1</i>			<i>41-120</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 11:35</i>
<i>Surr: Phenol-d6</i>	<i>106</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 11:35</i>
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 23-Jul-2020		Analyst: JHD	
Arsenic	0.00187	J	0.000400	0.00200	mg/L	1	24-Jul-2020 15:02

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW04-20200715
 Collection Date: 15-Jul-2020 14:25

ANALYTICAL REPORT
 WorkOrder:HS20070774
 Lab ID:HS20070774-03
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	20-Jul-2020 20:08
Benzene	U		0.00020	0.0010	mg/L	1	20-Jul-2020 20:08
Chlorobenzene	U		0.00030	0.0010	mg/L	1	20-Jul-2020 20:08
Ethylbenzene	U		0.00030	0.0010	mg/L	1	20-Jul-2020 20:08
Methylene chloride	U		0.0010	0.0020	mg/L	1	20-Jul-2020 20:08
Toluene	U		0.00020	0.0010	mg/L	1	20-Jul-2020 20:08
Xylenes, Total	U		0.00030	0.0010	mg/L	1	20-Jul-2020 20:08
<i>Surr: 1,2-Dichloroethane-d4</i>		<i>102</i>		<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>20-Jul-2020 20:08</i>
<i>Surr: 4-Bromofluorobenzene</i>		<i>98.6</i>		<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>20-Jul-2020 20:08</i>
<i>Surr: Dibromofluoromethane</i>		<i>104</i>		<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>20-Jul-2020 20:08</i>
<i>Surr: Toluene-d8</i>		<i>101</i>		<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>20-Jul-2020 20:08</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW04-20200715
 Collection Date: 15-Jul-2020 14:25

ANALYTICAL REPORT
 WorkOrder:HS20070774
 Lab ID:HS20070774-03
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MLL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 20-Jul-2020		Analyst: ACN	
1,2-Diphenylhydrazine	U		0.000021	0.00020	mg/L	1	25-Jul-2020 11:54
2,4-Dimethylphenol	U		0.000040	0.00020	mg/L	1	25-Jul-2020 11:54
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	25-Jul-2020 11:54
2,6-Dinitrotoluene	U		0.000042	0.00020	mg/L	1	25-Jul-2020 11:54
2-Chloronaphthalene	U		0.000021	0.00020	mg/L	1	25-Jul-2020 11:54
2-Methylnaphthalene	U		0.000019	0.00010	mg/L	1	25-Jul-2020 11:54
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	25-Jul-2020 11:54
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	25-Jul-2020 11:54
Acenaphthene	0.00011		0.000027	0.00010	mg/L	1	25-Jul-2020 11:54
Acenaphthylene	U		0.000015	0.00010	mg/L	1	25-Jul-2020 11:54
Anthracene	0.00014		0.000014	0.00010	mg/L	1	25-Jul-2020 11:54
Benz(a)anthracene	U		0.000050	0.00010	mg/L	1	25-Jul-2020 11:54
Benzo(a)pyrene	U		0.000020	0.00010	mg/L	1	25-Jul-2020 11:54
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	25-Jul-2020 11:54
Bis(2-ethylhexyl)phthalate	0.00034		0.000037	0.00020	mg/L	1	25-Jul-2020 11:54
Chrysene	U		0.000021	0.00010	mg/L	1	25-Jul-2020 11:54
Dibenzofuran	0.000040	J	0.000020	0.00010	mg/L	1	25-Jul-2020 11:54
Di-n-butyl phthalate	0.000059	J	0.000020	0.00020	mg/L	1	25-Jul-2020 11:54
Fluoranthene	0.000067	J	0.000010	0.00010	mg/L	1	25-Jul-2020 11:54
Fluorene	0.000050	J	0.000030	0.00010	mg/L	1	25-Jul-2020 11:54
Naphthalene	0.000070	J	0.000020	0.00010	mg/L	1	25-Jul-2020 11:54
Nitrobenzene	U		0.000024	0.00020	mg/L	1	25-Jul-2020 11:54
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	25-Jul-2020 11:54
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	25-Jul-2020 11:54
Phenanthrene	0.000029	J	0.000021	0.00010	mg/L	1	25-Jul-2020 11:54
Phenol	U		0.000035	0.00020	mg/L	1	25-Jul-2020 11:54
Pyrene	0.000036	J	0.000019	0.00010	mg/L	1	25-Jul-2020 11:54
<i>Surr: 2,4,6-Tribromophenol</i>	<i>102</i>			<i>34-129</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 11:54</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>88.0</i>			<i>40-125</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 11:54</i>
<i>Surr: 2-Fluorophenol</i>	<i>50.8</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 11:54</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>97.4</i>			<i>40-135</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 11:54</i>
<i>Surr: Nitrobenzene-d5</i>	<i>82.1</i>			<i>41-120</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 11:54</i>
<i>Surr: Phenol-d6</i>	<i>81.1</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 11:54</i>
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 23-Jul-2020		Analyst: JHD	
Arsenic	0.00365		0.000400	0.00200	mg/L	1	24-Jul-2020 13:18

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW05-20200715
 Collection Date: 15-Jul-2020 13:35

ANALYTICAL REPORT
 WorkOrder:HS20070774
 Lab ID:HS20070774-04
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	20-Jul-2020 20:32
Benzene	U		0.00020	0.0010	mg/L	1	20-Jul-2020 20:32
Chlorobenzene	U		0.00030	0.0010	mg/L	1	20-Jul-2020 20:32
Ethylbenzene	U		0.00030	0.0010	mg/L	1	20-Jul-2020 20:32
Methylene chloride	U		0.0010	0.0020	mg/L	1	20-Jul-2020 20:32
Toluene	U		0.00020	0.0010	mg/L	1	20-Jul-2020 20:32
Xylenes, Total	U		0.00030	0.0010	mg/L	1	20-Jul-2020 20:32
<i>Surr: 1,2-Dichloroethane-d4</i>		<i>102</i>		<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>20-Jul-2020 20:32</i>
<i>Surr: 4-Bromofluorobenzene</i>		<i>99.5</i>		<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>20-Jul-2020 20:32</i>
<i>Surr: Dibromofluoromethane</i>		<i>103</i>		<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>20-Jul-2020 20:32</i>
<i>Surr: Toluene-d8</i>		<i>101</i>		<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>20-Jul-2020 20:32</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW05-20200715
 Collection Date: 15-Jul-2020 13:35

ANALYTICAL REPORT
 WorkOrder:HS20070774
 Lab ID:HS20070774-04
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 20-Jul-2020		Analyst: ACN	
1,2-Diphenylhydrazine	U		0.000021	0.00020	mg/L	1	25-Jul-2020 12:34
2,4-Dimethylphenol	U		0.000040	0.00020	mg/L	1	25-Jul-2020 12:34
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	25-Jul-2020 12:34
2,6-Dinitrotoluene	U		0.000042	0.00020	mg/L	1	25-Jul-2020 12:34
2-Chloronaphthalene	U		0.000021	0.00020	mg/L	1	25-Jul-2020 12:34
2-Methylnaphthalene	U		0.000019	0.00010	mg/L	1	25-Jul-2020 12:34
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	25-Jul-2020 12:34
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	25-Jul-2020 12:34
Acenaphthene	U		0.000027	0.00010	mg/L	1	25-Jul-2020 12:34
Acenaphthylene	U		0.000015	0.00010	mg/L	1	25-Jul-2020 12:34
Anthracene	0.000059	J	0.000014	0.00010	mg/L	1	25-Jul-2020 12:34
Benz(a)anthracene	U		0.000050	0.00010	mg/L	1	25-Jul-2020 12:34
Benzo(a)pyrene	U		0.000020	0.00010	mg/L	1	25-Jul-2020 12:34
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	25-Jul-2020 12:34
Bis(2-ethylhexyl)phthalate	0.000066	J	0.000037	0.00020	mg/L	1	25-Jul-2020 12:34
Chrysene	U		0.000021	0.00010	mg/L	1	25-Jul-2020 12:34
Dibenzofuran	U		0.000020	0.00010	mg/L	1	25-Jul-2020 12:34
Di-n-butyl phthalate	0.000030	J	0.000020	0.00020	mg/L	1	25-Jul-2020 12:34
Fluoranthene	0.000044	J	0.000010	0.00010	mg/L	1	25-Jul-2020 12:34
Fluorene	0.000047	J	0.000030	0.00010	mg/L	1	25-Jul-2020 12:34
Naphthalene	U		0.000020	0.00010	mg/L	1	25-Jul-2020 12:34
Nitrobenzene	U		0.000024	0.00020	mg/L	1	25-Jul-2020 12:34
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	25-Jul-2020 12:34
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	25-Jul-2020 12:34
Phenanthrene	0.000070	J	0.000021	0.00010	mg/L	1	25-Jul-2020 12:34
Phenol	U		0.000035	0.00020	mg/L	1	25-Jul-2020 12:34
Pyrene	0.00011		0.000019	0.00010	mg/L	1	25-Jul-2020 12:34
<i>Surr: 2,4,6-Tribromophenol</i>	<i>81.5</i>			<i>34-129</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 12:34</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>60.6</i>			<i>40-125</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 12:34</i>
<i>Surr: 2-Fluorophenol</i>	<i>39.1</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 12:34</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>94.0</i>			<i>40-135</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 12:34</i>
<i>Surr: Nitrobenzene-d5</i>	<i>67.1</i>			<i>41-120</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 12:34</i>
<i>Surr: Phenol-d6</i>	<i>59.8</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 12:34</i>
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 23-Jul-2020		Analyst: JHD	
Arsenic	0.0111		0.000400	0.00200	mg/L	1	24-Jul-2020 13:20

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW09-20200715
 Collection Date: 15-Jul-2020 10:25

ANALYTICAL REPORT
 WorkOrder:HS20070774
 Lab ID:HS20070774-05
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	21-Jul-2020 16:14
Benzene	U		0.00020	0.0010	mg/L	1	21-Jul-2020 16:14
Chlorobenzene	U		0.00030	0.0010	mg/L	1	21-Jul-2020 16:14
Ethylbenzene	U		0.00030	0.0010	mg/L	1	21-Jul-2020 16:14
Methylene chloride	U		0.0010	0.0020	mg/L	1	21-Jul-2020 16:14
Toluene	U		0.00020	0.0010	mg/L	1	21-Jul-2020 16:14
Xylenes, Total	U		0.00030	0.0010	mg/L	1	21-Jul-2020 16:14
<i>Surr: 1,2-Dichloroethane-d4</i>		<i>101</i>		<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 16:14</i>
<i>Surr: 4-Bromofluorobenzene</i>		<i>98.4</i>		<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 16:14</i>
<i>Surr: Dibromofluoromethane</i>		<i>102</i>		<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 16:14</i>
<i>Surr: Toluene-d8</i>		<i>102</i>		<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 16:14</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW09-20200715
 Collection Date: 15-Jul-2020 10:25

ANALYTICAL REPORT
 WorkOrder:HS20070774
 Lab ID:HS20070774-05
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 20-Jul-2020		Analyst: ACN	
1,2-Diphenylhydrazine	U		0.000021	0.00020	mg/L	1	25-Jul-2020 12:53
2,4-Dimethylphenol	U		0.000040	0.00020	mg/L	1	25-Jul-2020 12:53
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	25-Jul-2020 12:53
2,6-Dinitrotoluene	U		0.000042	0.00020	mg/L	1	25-Jul-2020 12:53
2-Chloronaphthalene	U		0.000021	0.00020	mg/L	1	25-Jul-2020 12:53
2-Methylnaphthalene	U		0.000019	0.00010	mg/L	1	25-Jul-2020 12:53
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	25-Jul-2020 12:53
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	25-Jul-2020 12:53
Acenaphthene	U		0.000027	0.00010	mg/L	1	25-Jul-2020 12:53
Acenaphthylene	U		0.000015	0.00010	mg/L	1	25-Jul-2020 12:53
Anthracene	0.000035	J	0.000014	0.00010	mg/L	1	25-Jul-2020 12:53
Benz(a)anthracene	U		0.000050	0.00010	mg/L	1	25-Jul-2020 12:53
Benzo(a)pyrene	U		0.000020	0.00010	mg/L	1	25-Jul-2020 12:53
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	25-Jul-2020 12:53
Bis(2-ethylhexyl)phthalate	0.000040	J	0.000037	0.00020	mg/L	1	25-Jul-2020 12:53
Chrysene	U		0.000021	0.00010	mg/L	1	25-Jul-2020 12:53
Dibenzofuran	U		0.000020	0.00010	mg/L	1	25-Jul-2020 12:53
Di-n-butyl phthalate	0.000034	J	0.000020	0.00020	mg/L	1	25-Jul-2020 12:53
Fluoranthene	U		0.000010	0.00010	mg/L	1	25-Jul-2020 12:53
Fluorene	U		0.000030	0.00010	mg/L	1	25-Jul-2020 12:53
Naphthalene	U		0.000020	0.00010	mg/L	1	25-Jul-2020 12:53
Nitrobenzene	U		0.000024	0.00020	mg/L	1	25-Jul-2020 12:53
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	25-Jul-2020 12:53
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	25-Jul-2020 12:53
Phenanthrene	U		0.000021	0.00010	mg/L	1	25-Jul-2020 12:53
Phenol	U		0.000035	0.00020	mg/L	1	25-Jul-2020 12:53
Pyrene	0.000031	J	0.000019	0.00010	mg/L	1	25-Jul-2020 12:53
<i>Surr: 2,4,6-Tribromophenol</i>	<i>78.5</i>			<i>34-129</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 12:53</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>59.7</i>			<i>40-125</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 12:53</i>
<i>Surr: 2-Fluorophenol</i>	<i>55.5</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 12:53</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>92.4</i>			<i>40-135</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 12:53</i>
<i>Surr: Nitrobenzene-d5</i>	<i>69.2</i>			<i>41-120</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 12:53</i>
<i>Surr: Phenol-d6</i>	<i>75.8</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 12:53</i>
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 23-Jul-2020		Analyst: JHD	
Arsenic	0.00287		0.000400	0.00200	mg/L	1	24-Jul-2020 13:27

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW64A-20200715
 Collection Date: 15-Jul-2020 11:40

ANALYTICAL REPORT
 WorkOrder:HS20070774
 Lab ID:HS20070774-06
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	21-Jul-2020 00:26
Benzene	U		0.00020	0.0010	mg/L	1	21-Jul-2020 00:26
Chlorobenzene	U		0.00030	0.0010	mg/L	1	21-Jul-2020 00:26
Ethylbenzene	U		0.00030	0.0010	mg/L	1	21-Jul-2020 00:26
Methylene chloride	U		0.0010	0.0020	mg/L	1	21-Jul-2020 00:26
Toluene	U		0.00020	0.0010	mg/L	1	21-Jul-2020 00:26
Xylenes, Total	U		0.00030	0.0010	mg/L	1	21-Jul-2020 00:26
<i>Surr: 1,2-Dichloroethane-d4</i>		<i>103</i>		<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 00:26</i>
<i>Surr: 4-Bromofluorobenzene</i>		<i>98.4</i>		<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 00:26</i>
<i>Surr: Dibromofluoromethane</i>		<i>104</i>		<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 00:26</i>
<i>Surr: Toluene-d8</i>		<i>101</i>		<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 00:26</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW64A-20200715
 Collection Date: 15-Jul-2020 11:40

ANALYTICAL REPORT
 WorkOrder:HS20070774
 Lab ID:HS20070774-06
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 20-Jul-2020		Analyst: ACN	
1,2-Diphenylhydrazine	U		0.000021	0.00020	mg/L	1	25-Jul-2020 13:13
2,4-Dimethylphenol	U		0.000040	0.00020	mg/L	1	25-Jul-2020 13:13
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	25-Jul-2020 13:13
2,6-Dinitrotoluene	U		0.000042	0.00020	mg/L	1	25-Jul-2020 13:13
2-Chloronaphthalene	U		0.000021	0.00020	mg/L	1	25-Jul-2020 13:13
2-Methylnaphthalene	U		0.000019	0.00010	mg/L	1	25-Jul-2020 13:13
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	25-Jul-2020 13:13
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	25-Jul-2020 13:13
Acenaphthene	U		0.000027	0.00010	mg/L	1	25-Jul-2020 13:13
Acenaphthylene	U		0.000015	0.00010	mg/L	1	25-Jul-2020 13:13
Anthracene	0.000082	J	0.000014	0.00010	mg/L	1	25-Jul-2020 13:13
Benz(a)anthracene	U		0.000050	0.00010	mg/L	1	25-Jul-2020 13:13
Benzo(a)pyrene	U		0.000020	0.00010	mg/L	1	25-Jul-2020 13:13
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	25-Jul-2020 13:13
Bis(2-ethylhexyl)phthalate	0.000060		0.000037	0.00020	mg/L	1	25-Jul-2020 13:13
Chrysene	0.000023	J	0.000021	0.00010	mg/L	1	25-Jul-2020 13:13
Dibenzofuran	U		0.000020	0.00010	mg/L	1	25-Jul-2020 13:13
Di-n-butyl phthalate	0.000075	J	0.000020	0.00020	mg/L	1	25-Jul-2020 13:13
Fluoranthene	0.000040		0.000010	0.00010	mg/L	1	25-Jul-2020 13:13
Fluorene	0.000050	J	0.000030	0.00010	mg/L	1	25-Jul-2020 13:13
Naphthalene	0.000083	J	0.000020	0.00010	mg/L	1	25-Jul-2020 13:13
Nitrobenzene	U		0.000024	0.00020	mg/L	1	25-Jul-2020 13:13
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	25-Jul-2020 13:13
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	25-Jul-2020 13:13
Phenanthrene	0.000086	J	0.000021	0.00010	mg/L	1	25-Jul-2020 13:13
Phenol	0.000073	J	0.000035	0.00020	mg/L	1	25-Jul-2020 13:13
Pyrene	0.000022		0.000019	0.00010	mg/L	1	25-Jul-2020 13:13
<i>Surr: 2,4,6-Tribromophenol</i>	98.6			34-129	%REC	1	25-Jul-2020 13:13
<i>Surr: 2-Fluorobiphenyl</i>	71.6			40-125	%REC	1	25-Jul-2020 13:13
<i>Surr: 2-Fluorophenol</i>	57.9			20-120	%REC	1	25-Jul-2020 13:13
<i>Surr: 4-Terphenyl-d14</i>	101			40-135	%REC	1	25-Jul-2020 13:13
<i>Surr: Nitrobenzene-d5</i>	77.4			41-120	%REC	1	25-Jul-2020 13:13
<i>Surr: Phenol-d6</i>	90.4			20-120	%REC	1	25-Jul-2020 13:13
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 23-Jul-2020		Analyst: JHD	
Arsenic	0.00490		0.000400	0.00200	mg/L	1	24-Jul-2020 13:29

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-FB02-20200715
 Collection Date: 15-Jul-2020 14:45

ANALYTICAL REPORT
 WorkOrder:HS20070774
 Lab ID:HS20070774-07
 Matrix:Water

ANALYSES	RESULT	QUAL	SDL	MLL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	21-Jul-2020 00:02
Benzene	U		0.00020	0.0010	mg/L	1	21-Jul-2020 00:02
Chlorobenzene	U		0.00030	0.0010	mg/L	1	21-Jul-2020 00:02
Ethylbenzene	U		0.00030	0.0010	mg/L	1	21-Jul-2020 00:02
Methylene chloride	U		0.0010	0.0020	mg/L	1	21-Jul-2020 00:02
Toluene	U		0.00020	0.0010	mg/L	1	21-Jul-2020 00:02
Vinyl chloride	U		0.00020	0.0010	mg/L	1	21-Jul-2020 00:02
Xylenes, Total	U		0.00030	0.0010	mg/L	1	21-Jul-2020 00:02
<i>Surr: 1,2-Dichloroethane-d4</i>		<i>101</i>		<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 00:02</i>
<i>Surr: 4-Bromofluorobenzene</i>		<i>99.4</i>		<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 00:02</i>
<i>Surr: Dibromofluoromethane</i>		<i>103</i>		<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 00:02</i>
<i>Surr: Toluene-d8</i>		<i>101</i>		<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 00:02</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-FB02-20200715
 Collection Date: 15-Jul-2020 14:45

ANALYTICAL REPORT
 WorkOrder:HS20070774
 Lab ID:HS20070774-07
 Matrix:Water

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 20-Jul-2020		Analyst: ACN	
1,2-Diphenylhydrazine	U		0.000021	0.00020	mg/L	1	25-Jul-2020 16:09
2,4-Dimethylphenol	U		0.000040	0.00020	mg/L	1	25-Jul-2020 16:09
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	25-Jul-2020 16:09
2,6-Dinitrotoluene	U		0.000042	0.00020	mg/L	1	25-Jul-2020 16:09
2-Chloronaphthalene	U		0.000021	0.00020	mg/L	1	25-Jul-2020 16:09
2-Methylnaphthalene	U		0.000019	0.00010	mg/L	1	25-Jul-2020 16:09
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	25-Jul-2020 16:09
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	25-Jul-2020 16:09
Acenaphthene	U		0.000027	0.00010	mg/L	1	25-Jul-2020 16:09
Acenaphthylene	U		0.000015	0.00010	mg/L	1	25-Jul-2020 16:09
Anthracene	U		0.000014	0.00010	mg/L	1	25-Jul-2020 16:09
Benz(a)anthracene	U		0.000050	0.00010	mg/L	1	25-Jul-2020 16:09
Benzo(a)pyrene	U		0.000020	0.00010	mg/L	1	25-Jul-2020 16:09
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	25-Jul-2020 16:09
Bis(2-ethylhexyl)phthalate	0.000042	J	0.000037	0.00020	mg/L	1	25-Jul-2020 16:09
Chrysene	U		0.000021	0.00010	mg/L	1	25-Jul-2020 16:09
Dibenzofuran	U		0.000020	0.00010	mg/L	1	25-Jul-2020 16:09
Di-n-butyl phthalate	0.000022	J	0.000020	0.00020	mg/L	1	25-Jul-2020 16:09
Fluoranthene	0.000014	J	0.000010	0.00010	mg/L	1	25-Jul-2020 16:09
Fluorene	U		0.000030	0.00010	mg/L	1	25-Jul-2020 16:09
Naphthalene	U		0.000020	0.00010	mg/L	1	25-Jul-2020 16:09
Nitrobenzene	U		0.000024	0.00020	mg/L	1	25-Jul-2020 16:09
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	25-Jul-2020 16:09
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	25-Jul-2020 16:09
Phenanthrene	U		0.000021	0.00010	mg/L	1	25-Jul-2020 16:09
Phenol	U		0.000035	0.00020	mg/L	1	25-Jul-2020 16:09
Pyrene	U		0.000019	0.00010	mg/L	1	25-Jul-2020 16:09
<i>Surr: 2,4,6-Tribromophenol</i>	<i>88.6</i>			<i>34-129</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 16:09</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>90.8</i>			<i>40-125</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 16:09</i>
<i>Surr: 2-Fluorophenol</i>	<i>80.3</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 16:09</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>108</i>			<i>40-135</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 16:09</i>
<i>Surr: Nitrobenzene-d5</i>	<i>101</i>			<i>41-120</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 16:09</i>
<i>Surr: Phenol-d6</i>	<i>89.1</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 16:09</i>
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 23-Jul-2020		Analyst: JHD	
Arsenic	U		0.000400	0.00200	mg/L	1	24-Jul-2020 13:31

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW51C-20200716
 Collection Date: 16-Jul-2020 08:35

ANALYTICAL REPORT
 WorkOrder:HS20070774
 Lab ID:HS20070774-08
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	21-Jul-2020 00:49
Benzene	U		0.00020	0.0010	mg/L	1	21-Jul-2020 00:49
Chlorobenzene	U		0.00030	0.0010	mg/L	1	21-Jul-2020 00:49
Ethylbenzene	U		0.00030	0.0010	mg/L	1	21-Jul-2020 00:49
Methylene chloride	U		0.0010	0.0020	mg/L	1	21-Jul-2020 00:49
Toluene	U		0.00020	0.0010	mg/L	1	21-Jul-2020 00:49
Xylenes, Total	U		0.00030	0.0010	mg/L	1	21-Jul-2020 00:49
<i>Surr: 1,2-Dichloroethane-d4</i>		<i>103</i>		<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 00:49</i>
<i>Surr: 4-Bromofluorobenzene</i>		<i>99.8</i>		<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 00:49</i>
<i>Surr: Dibromofluoromethane</i>		<i>105</i>		<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 00:49</i>
<i>Surr: Toluene-d8</i>		<i>101</i>		<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 00:49</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW51C-20200716
 Collection Date: 16-Jul-2020 08:35

ANALYTICAL REPORT
 WorkOrder:HS20070774
 Lab ID:HS20070774-08
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 20-Jul-2020		Analyst: ACN	
1,2-Diphenylhydrazine	0.000032	J	0.000021	0.00020	mg/L	1	25-Jul-2020 16:28
2,4-Dimethylphenol	0.000070	J	0.000040	0.00020	mg/L	1	25-Jul-2020 16:28
2,4-Dinitrotoluene		U	0.000058	0.00020	mg/L	1	25-Jul-2020 16:28
2,6-Dinitrotoluene		U	0.000042	0.00020	mg/L	1	25-Jul-2020 16:28
2-Chloronaphthalene		U	0.000021	0.00020	mg/L	1	25-Jul-2020 16:28
2-Methylnaphthalene	0.00015		0.000019	0.00010	mg/L	1	25-Jul-2020 16:28
4,6-Dinitro-2-methylphenol		U	0.000020	0.00020	mg/L	1	25-Jul-2020 16:28
4-Nitrophenol		U	0.000047	0.0010	mg/L	1	25-Jul-2020 16:28
Acenaphthene	0.00033		0.000027	0.00010	mg/L	1	25-Jul-2020 16:28
Acenaphthylene		U	0.000015	0.00010	mg/L	1	25-Jul-2020 16:28
Anthracene	0.00045		0.000014	0.00010	mg/L	1	25-Jul-2020 16:28
Benz(a)anthracene		U	0.000050	0.00010	mg/L	1	25-Jul-2020 16:28
Benzo(a)pyrene		U	0.000020	0.00010	mg/L	1	25-Jul-2020 16:28
Bis(2-chloroethoxy)methane		U	0.000030	0.00020	mg/L	1	25-Jul-2020 16:28
Bis(2-ethylhexyl)phthalate	0.000051	J	0.000037	0.00020	mg/L	1	25-Jul-2020 16:28
Chrysene	0.000050	J	0.000021	0.00010	mg/L	1	25-Jul-2020 16:28
Dibenzofuran	0.00032		0.000020	0.00010	mg/L	1	25-Jul-2020 16:28
Di-n-butyl phthalate		U	0.000020	0.00020	mg/L	1	25-Jul-2020 16:28
Fluoranthene	0.0011		0.000010	0.00010	mg/L	1	25-Jul-2020 16:28
Fluorene	0.00049		0.000030	0.00010	mg/L	1	25-Jul-2020 16:28
Naphthalene	0.00061		0.000020	0.00010	mg/L	1	25-Jul-2020 16:28
Nitrobenzene		U	0.000024	0.00020	mg/L	1	25-Jul-2020 16:28
N-Nitrosodiphenylamine		U	0.000025	0.00020	mg/L	1	25-Jul-2020 16:28
Pentachlorophenol		U	0.000079	0.00020	mg/L	1	25-Jul-2020 16:28
Phenanthrene	0.0027		0.000021	0.00010	mg/L	1	25-Jul-2020 16:28
Phenol		U	0.000035	0.00020	mg/L	1	25-Jul-2020 16:28
Pyrene	0.00062		0.000019	0.00010	mg/L	1	25-Jul-2020 16:28
Surr: 2,4,6-Tribromophenol	78.1			34-129	%REC	1	25-Jul-2020 16:28
Surr: 2-Fluorobiphenyl	66.3			40-125	%REC	1	25-Jul-2020 16:28
Surr: 2-Fluorophenol	60.2			20-120	%REC	1	25-Jul-2020 16:28
Surr: 4-Terphenyl-d14	103			40-135	%REC	1	25-Jul-2020 16:28
Surr: Nitrobenzene-d5	75.2			41-120	%REC	1	25-Jul-2020 16:28
Surr: Phenol-d6	90.2			20-120	%REC	1	25-Jul-2020 16:28
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 23-Jul-2020		Analyst: JHD	
Arsenic		U	0.000400	0.00200	mg/L	1	24-Jul-2020 13:33

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW51A-20200716
 Collection Date: 16-Jul-2020 09:25

ANALYTICAL REPORT
 WorkOrder:HS20070774
 Lab ID:HS20070774-09
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	21-Jul-2020 01:12
Benzene	U		0.00020	0.0010	mg/L	1	21-Jul-2020 01:12
Chlorobenzene	U		0.00030	0.0010	mg/L	1	21-Jul-2020 01:12
Ethylbenzene	U		0.00030	0.0010	mg/L	1	21-Jul-2020 01:12
Methylene chloride	U		0.0010	0.0020	mg/L	1	21-Jul-2020 01:12
Toluene	U		0.00020	0.0010	mg/L	1	21-Jul-2020 01:12
Xylenes, Total	U		0.00030	0.0010	mg/L	1	21-Jul-2020 01:12
<i>Surr: 1,2-Dichloroethane-d4</i>		<i>102</i>		<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 01:12</i>
<i>Surr: 4-Bromofluorobenzene</i>		<i>101</i>		<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 01:12</i>
<i>Surr: Dibromofluoromethane</i>		<i>104</i>		<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 01:12</i>
<i>Surr: Toluene-d8</i>		<i>101</i>		<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 01:12</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW51A-20200716
 Collection Date: 16-Jul-2020 09:25

ANALYTICAL REPORT
 WorkOrder:HS20070774
 Lab ID:HS20070774-09
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 20-Jul-2020		Analyst: ACN	
1,2-Diphenylhydrazine	U		0.000021	0.00020	mg/L	1	25-Jul-2020 16:48
2,4-Dimethylphenol	U		0.000040	0.00020	mg/L	1	25-Jul-2020 16:48
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	25-Jul-2020 16:48
2,6-Dinitrotoluene	U		0.000042	0.00020	mg/L	1	25-Jul-2020 16:48
2-Chloronaphthalene	U		0.000021	0.00020	mg/L	1	25-Jul-2020 16:48
2-Methylnaphthalene	U		0.000019	0.00010	mg/L	1	25-Jul-2020 16:48
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	25-Jul-2020 16:48
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	25-Jul-2020 16:48
Acenaphthene	U		0.000027	0.00010	mg/L	1	25-Jul-2020 16:48
Acenaphthylene	U		0.000015	0.00010	mg/L	1	25-Jul-2020 16:48
Anthracene	0.000015	J	0.000014	0.00010	mg/L	1	25-Jul-2020 16:48
Benz(a)anthracene	U		0.000050	0.00010	mg/L	1	25-Jul-2020 16:48
Benzo(a)pyrene	U		0.000020	0.00010	mg/L	1	25-Jul-2020 16:48
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	25-Jul-2020 16:48
Bis(2-ethylhexyl)phthalate	0.000042	J	0.000037	0.00020	mg/L	1	25-Jul-2020 16:48
Chrysene	U		0.000021	0.00010	mg/L	1	25-Jul-2020 16:48
Dibenzofuran	U		0.000020	0.00010	mg/L	1	25-Jul-2020 16:48
Di-n-butyl phthalate	0.000036	J	0.000020	0.00020	mg/L	1	25-Jul-2020 16:48
Fluoranthene	0.000028	J	0.000010	0.00010	mg/L	1	25-Jul-2020 16:48
Fluorene	U		0.000030	0.00010	mg/L	1	25-Jul-2020 16:48
Naphthalene	U		0.000020	0.00010	mg/L	1	25-Jul-2020 16:48
Nitrobenzene	U		0.000024	0.00020	mg/L	1	25-Jul-2020 16:48
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	25-Jul-2020 16:48
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	25-Jul-2020 16:48
Phenanthrene	U		0.000021	0.00010	mg/L	1	25-Jul-2020 16:48
Phenol	U		0.000035	0.00020	mg/L	1	25-Jul-2020 16:48
Pyrene	0.000043	J	0.000019	0.00010	mg/L	1	25-Jul-2020 16:48
<i>Surr: 2,4,6-Tribromophenol</i>	<i>69.7</i>			<i>34-129</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 16:48</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>54.6</i>			<i>40-125</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 16:48</i>
<i>Surr: 2-Fluorophenol</i>	<i>51.9</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 16:48</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>94.8</i>			<i>40-135</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 16:48</i>
<i>Surr: Nitrobenzene-d5</i>	<i>68.1</i>			<i>41-120</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 16:48</i>
<i>Surr: Phenol-d6</i>	<i>75.1</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 16:48</i>
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 23-Jul-2020		Analyst: JHD	
Arsenic	0.000588	J	0.000400	0.00200	mg/L	1	24-Jul-2020 13:37

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW86C-20200716
 Collection Date: 16-Jul-2020 10:15

ANALYTICAL REPORT
 WorkOrder:HS20070774
 Lab ID:HS20070774-10
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	21-Jul-2020 01:36
Benzene	U		0.00020	0.0010	mg/L	1	21-Jul-2020 01:36
Chlorobenzene	U		0.00030	0.0010	mg/L	1	21-Jul-2020 01:36
Ethylbenzene	U		0.00030	0.0010	mg/L	1	21-Jul-2020 01:36
Methylene chloride	U		0.0010	0.0020	mg/L	1	21-Jul-2020 01:36
Toluene	U		0.00020	0.0010	mg/L	1	21-Jul-2020 01:36
Xylenes, Total	U		0.00030	0.0010	mg/L	1	21-Jul-2020 01:36
<i>Surr: 1,2-Dichloroethane-d4</i>		<i>102</i>		<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 01:36</i>
<i>Surr: 4-Bromofluorobenzene</i>		<i>98.9</i>		<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 01:36</i>
<i>Surr: Dibromofluoromethane</i>		<i>104</i>		<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 01:36</i>
<i>Surr: Toluene-d8</i>		<i>102</i>		<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 01:36</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW86C-20200716
 Collection Date: 16-Jul-2020 10:15

ANALYTICAL REPORT
 WorkOrder:HS20070774
 Lab ID:HS20070774-10
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 20-Jul-2020		Analyst: ACN	
1,2-Diphenylhydrazine	U		0.000021	0.00020	mg/L	1	25-Jul-2020 17:07
2,4-Dimethylphenol	U		0.000040	0.00020	mg/L	1	25-Jul-2020 17:07
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	25-Jul-2020 17:07
2,6-Dinitrotoluene	U		0.000042	0.00020	mg/L	1	25-Jul-2020 17:07
2-Chloronaphthalene	U		0.000021	0.00020	mg/L	1	25-Jul-2020 17:07
2-Methylnaphthalene	U		0.000019	0.00010	mg/L	1	25-Jul-2020 17:07
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	25-Jul-2020 17:07
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	25-Jul-2020 17:07
Acenaphthene	U		0.000027	0.00010	mg/L	1	25-Jul-2020 17:07
Acenaphthylene	U		0.000015	0.00010	mg/L	1	25-Jul-2020 17:07
Anthracene	0.000015	J	0.000014	0.00010	mg/L	1	25-Jul-2020 17:07
Benz(a)anthracene	U		0.000050	0.00010	mg/L	1	25-Jul-2020 17:07
Benzo(a)pyrene	U		0.000020	0.00010	mg/L	1	25-Jul-2020 17:07
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	25-Jul-2020 17:07
Bis(2-ethylhexyl)phthalate	U		0.000037	0.00020	mg/L	1	25-Jul-2020 17:07
Chrysene	U		0.000021	0.00010	mg/L	1	25-Jul-2020 17:07
Dibenzofuran	U		0.000020	0.00010	mg/L	1	25-Jul-2020 17:07
Di-n-butyl phthalate	0.000083	J	0.000020	0.00020	mg/L	1	25-Jul-2020 17:07
Fluoranthene	0.000028	J	0.000010	0.00010	mg/L	1	25-Jul-2020 17:07
Fluorene	U		0.000030	0.00010	mg/L	1	25-Jul-2020 17:07
Naphthalene	0.000034	J	0.000020	0.00010	mg/L	1	25-Jul-2020 17:07
Nitrobenzene	U		0.000024	0.00020	mg/L	1	25-Jul-2020 17:07
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	25-Jul-2020 17:07
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	25-Jul-2020 17:07
Phenanthrene	0.000086	J	0.000021	0.00010	mg/L	1	25-Jul-2020 17:07
Phenol	U		0.000035	0.00020	mg/L	1	25-Jul-2020 17:07
Pyrene	U		0.000019	0.00010	mg/L	1	25-Jul-2020 17:07
<i>Surr: 2,4,6-Tribromophenol</i>	<i>80.4</i>			<i>34-129</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 17:07</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>75.7</i>			<i>40-125</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 17:07</i>
<i>Surr: 2-Fluorophenol</i>	<i>58.2</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 17:07</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>129</i>			<i>40-135</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 17:07</i>
<i>Surr: Nitrobenzene-d5</i>	<i>73.9</i>			<i>41-120</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 17:07</i>
<i>Surr: Phenol-d6</i>	<i>92.2</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 17:07</i>
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 23-Jul-2020		Analyst: JHD	
Arsenic	0.00209		0.000400	0.00200	mg/L	1	24-Jul-2020 13:38

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW97A-20200716
 Collection Date: 16-Jul-2020 11:05

ANALYTICAL REPORT
 WorkOrder:HS20070774
 Lab ID:HS20070774-11
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	21-Jul-2020 03:32
Benzene	U		0.00020	0.0010	mg/L	1	21-Jul-2020 03:32
Chlorobenzene	U		0.00030	0.0010	mg/L	1	21-Jul-2020 03:32
Ethylbenzene	U		0.00030	0.0010	mg/L	1	21-Jul-2020 03:32
Methylene chloride	U		0.0010	0.0020	mg/L	1	21-Jul-2020 03:32
Toluene	U		0.00020	0.0010	mg/L	1	21-Jul-2020 03:32
Xylenes, Total	U		0.00030	0.0010	mg/L	1	21-Jul-2020 03:32
<i>Surr: 1,2-Dichloroethane-d4</i>		<i>101</i>		<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 03:32</i>
<i>Surr: 4-Bromofluorobenzene</i>		<i>100</i>		<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 03:32</i>
<i>Surr: Dibromofluoromethane</i>		<i>103</i>		<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 03:32</i>
<i>Surr: Toluene-d8</i>		<i>99.7</i>		<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 03:32</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW97A-20200716
 Collection Date: 16-Jul-2020 11:05

ANALYTICAL REPORT
 WorkOrder:HS20070774
 Lab ID:HS20070774-11
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 20-Jul-2020		Analyst: ACN	
1,2-Diphenylhydrazine	U		0.000021	0.00020	mg/L	1	25-Jul-2020 17:27
2,4-Dimethylphenol	U		0.000040	0.00020	mg/L	1	25-Jul-2020 17:27
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	25-Jul-2020 17:27
2,6-Dinitrotoluene	U		0.000042	0.00020	mg/L	1	25-Jul-2020 17:27
2-Chloronaphthalene	U		0.000021	0.00020	mg/L	1	25-Jul-2020 17:27
2-Methylnaphthalene	U		0.000019	0.00010	mg/L	1	25-Jul-2020 17:27
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	25-Jul-2020 17:27
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	25-Jul-2020 17:27
Acenaphthene	U		0.000027	0.00010	mg/L	1	25-Jul-2020 17:27
Acenaphthylene	U		0.000015	0.00010	mg/L	1	25-Jul-2020 17:27
Anthracene	0.000046	J	0.000014	0.00010	mg/L	1	25-Jul-2020 17:27
Benz(a)anthracene	U		0.000050	0.00010	mg/L	1	25-Jul-2020 17:27
Benzo(a)pyrene	U		0.000020	0.00010	mg/L	1	25-Jul-2020 17:27
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	25-Jul-2020 17:27
Bis(2-ethylhexyl)phthalate	U		0.000037	0.00020	mg/L	1	25-Jul-2020 17:27
Chrysene	U		0.000021	0.00010	mg/L	1	25-Jul-2020 17:27
Dibenzofuran	0.000024	J	0.000020	0.00010	mg/L	1	25-Jul-2020 17:27
Di-n-butyl phthalate	U		0.000020	0.00020	mg/L	1	25-Jul-2020 17:27
Fluoranthene	0.000033	J	0.000010	0.00010	mg/L	1	25-Jul-2020 17:27
Fluorene	U		0.000030	0.00010	mg/L	1	25-Jul-2020 17:27
Naphthalene	0.00018		0.000020	0.00010	mg/L	1	25-Jul-2020 17:27
Nitrobenzene	U		0.000024	0.00020	mg/L	1	25-Jul-2020 17:27
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	25-Jul-2020 17:27
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	25-Jul-2020 17:27
Phenanthrene	0.000087	J	0.000021	0.00010	mg/L	1	25-Jul-2020 17:27
Phenol	U		0.000035	0.00020	mg/L	1	25-Jul-2020 17:27
Pyrene	0.000025	J	0.000019	0.00010	mg/L	1	25-Jul-2020 17:27
Surr: 2,4,6-Tribromophenol	97.4			34-129	%REC	1	25-Jul-2020 17:27
Surr: 2-Fluorobiphenyl	74.7			40-125	%REC	1	25-Jul-2020 17:27
Surr: 2-Fluorophenol	58.2			20-120	%REC	1	25-Jul-2020 17:27
Surr: 4-Terphenyl-d14	99.0			40-135	%REC	1	25-Jul-2020 17:27
Surr: Nitrobenzene-d5	76.0			41-120	%REC	1	25-Jul-2020 17:27
Surr: Phenol-d6	97.2			20-120	%REC	1	25-Jul-2020 17:27
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 23-Jul-2020		Analyst: JHD	
Arsenic	0.00478		0.000400	0.00200	mg/L	1	24-Jul-2020 13:40

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW98B-20200716
 Collection Date: 16-Jul-2020 11:50

ANALYTICAL REPORT
 WorkOrder:HS20070774
 Lab ID:HS20070774-12
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	21-Jul-2020 03:55
Benzene	U		0.00020	0.0010	mg/L	1	21-Jul-2020 03:55
Chlorobenzene	U		0.00030	0.0010	mg/L	1	21-Jul-2020 03:55
Ethylbenzene	U		0.00030	0.0010	mg/L	1	21-Jul-2020 03:55
Methylene chloride	U		0.0010	0.0020	mg/L	1	21-Jul-2020 03:55
Toluene	0.00060	J	0.00020	0.0010	mg/L	1	21-Jul-2020 03:55
Xylenes, Total	U		0.00030	0.0010	mg/L	1	21-Jul-2020 03:55
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>101</i>			<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 03:55</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>98.8</i>			<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 03:55</i>
<i>Surr: Dibromofluoromethane</i>	<i>103</i>			<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 03:55</i>
<i>Surr: Toluene-d8</i>	<i>102</i>			<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 03:55</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW98B-20200716
 Collection Date: 16-Jul-2020 11:50

ANALYTICAL REPORT
 WorkOrder:HS20070774
 Lab ID:HS20070774-12
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 20-Jul-2020		Analyst: ACN	
1,2-Diphenylhydrazine	U		0.000021	0.00020	mg/L	1	25-Jul-2020 17:46
2,4-Dimethylphenol	U		0.000040	0.00020	mg/L	1	25-Jul-2020 17:46
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	25-Jul-2020 17:46
2,6-Dinitrotoluene	U		0.000042	0.00020	mg/L	1	25-Jul-2020 17:46
2-Chloronaphthalene	U		0.000021	0.00020	mg/L	1	25-Jul-2020 17:46
2-Methylnaphthalene	0.000020	J	0.000019	0.00010	mg/L	1	25-Jul-2020 17:46
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	25-Jul-2020 17:46
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	25-Jul-2020 17:46
Acenaphthene	0.000047	J	0.000027	0.00010	mg/L	1	25-Jul-2020 17:46
Acenaphthylene	U		0.000015	0.00010	mg/L	1	25-Jul-2020 17:46
Anthracene	0.000028	J	0.000014	0.00010	mg/L	1	25-Jul-2020 17:46
Benz(a)anthracene	U		0.000050	0.00010	mg/L	1	25-Jul-2020 17:46
Benzo(a)pyrene	U		0.000020	0.00010	mg/L	1	25-Jul-2020 17:46
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	25-Jul-2020 17:46
Bis(2-ethylhexyl)phthalate	U		0.000037	0.00020	mg/L	1	25-Jul-2020 17:46
Chrysene	U		0.000021	0.00010	mg/L	1	25-Jul-2020 17:46
Dibenzofuran	0.000038	J	0.000020	0.00010	mg/L	1	25-Jul-2020 17:46
Di-n-butyl phthalate	0.000030	J	0.000020	0.00020	mg/L	1	25-Jul-2020 17:46
Fluoranthene	0.000038	J	0.000010	0.00010	mg/L	1	25-Jul-2020 17:46
Fluorene	0.000060	J	0.000030	0.00010	mg/L	1	25-Jul-2020 17:46
Naphthalene	0.00016		0.000020	0.00010	mg/L	1	25-Jul-2020 17:46
Nitrobenzene	U		0.000024	0.00020	mg/L	1	25-Jul-2020 17:46
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	25-Jul-2020 17:46
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	25-Jul-2020 17:46
Phenanthrene	0.00013		0.000021	0.00010	mg/L	1	25-Jul-2020 17:46
Phenol	U		0.000035	0.00020	mg/L	1	25-Jul-2020 17:46
Pyrene	0.000022	J	0.000019	0.00010	mg/L	1	25-Jul-2020 17:46
<i>Surr: 2,4,6-Tribromophenol</i>	74.2			34-129	%REC	1	25-Jul-2020 17:46
<i>Surr: 2-Fluorobiphenyl</i>	66.5			40-125	%REC	1	25-Jul-2020 17:46
<i>Surr: 2-Fluorophenol</i>	57.1			20-120	%REC	1	25-Jul-2020 17:46
<i>Surr: 4-Terphenyl-d14</i>	97.2			40-135	%REC	1	25-Jul-2020 17:46
<i>Surr: Nitrobenzene-d5</i>	74.6			41-120	%REC	1	25-Jul-2020 17:46
<i>Surr: Phenol-d6</i>	81.7			20-120	%REC	1	25-Jul-2020 17:46
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 23-Jul-2020		Analyst: JHD	
Arsenic	0.00302		0.000400	0.00200	mg/L	1	24-Jul-2020 13:42

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW98A-20200716
 Collection Date: 16-Jul-2020 13:10

ANALYTICAL REPORT
 WorkOrder:HS20070774
 Lab ID:HS20070774-13
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	21-Jul-2020 04:18
Benzene	0.00024	J	0.00020	0.0010	mg/L	1	21-Jul-2020 04:18
Chlorobenzene	U		0.00030	0.0010	mg/L	1	21-Jul-2020 04:18
Ethylbenzene	U		0.00030	0.0010	mg/L	1	21-Jul-2020 04:18
Methylene chloride	U		0.0010	0.0020	mg/L	1	21-Jul-2020 04:18
Toluene	U		0.00020	0.0010	mg/L	1	21-Jul-2020 04:18
Xylenes, Total	U		0.00030	0.0010	mg/L	1	21-Jul-2020 04:18
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>102</i>			<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 04:18</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>100</i>			<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 04:18</i>
<i>Surr: Dibromofluoromethane</i>	<i>102</i>			<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 04:18</i>
<i>Surr: Toluene-d8</i>	<i>101</i>			<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 04:18</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW98A-20200716
 Collection Date: 16-Jul-2020 13:10

ANALYTICAL REPORT
 WorkOrder:HS20070774
 Lab ID:HS20070774-13
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 20-Jul-2020		Analyst: ACN	
1,2-Diphenylhydrazine	U		0.000021	0.00020	mg/L	1	24-Jul-2020 22:53
2,4-Dimethylphenol	U		0.000040	0.00020	mg/L	1	24-Jul-2020 22:53
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	24-Jul-2020 22:53
2,6-Dinitrotoluene	U		0.000042	0.00020	mg/L	1	24-Jul-2020 22:53
2-Chloronaphthalene	U		0.000021	0.00020	mg/L	1	24-Jul-2020 22:53
2-Methylnaphthalene	U		0.000019	0.00010	mg/L	1	24-Jul-2020 22:53
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	24-Jul-2020 22:53
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	24-Jul-2020 22:53
Acenaphthene	0.000030	J	0.000027	0.00010	mg/L	1	24-Jul-2020 22:53
Acenaphthylene	U		0.000015	0.00010	mg/L	1	24-Jul-2020 22:53
Anthracene	0.000080	J	0.000014	0.00010	mg/L	1	24-Jul-2020 22:53
Benz(a)anthracene	U		0.000050	0.00010	mg/L	1	24-Jul-2020 22:53
Benzo(a)pyrene	U		0.000020	0.00010	mg/L	1	24-Jul-2020 22:53
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	24-Jul-2020 22:53
Bis(2-ethylhexyl)phthalate	U		0.000037	0.00020	mg/L	1	24-Jul-2020 22:53
Chrysene	U		0.000021	0.00010	mg/L	1	24-Jul-2020 22:53
Dibenzofuran	0.000021	J	0.000020	0.00010	mg/L	1	24-Jul-2020 22:53
Di-n-butyl phthalate	U		0.000020	0.00020	mg/L	1	24-Jul-2020 22:53
Fluoranthene	0.000033	J	0.000010	0.00010	mg/L	1	24-Jul-2020 22:53
Fluorene	0.000051	J	0.000030	0.00010	mg/L	1	24-Jul-2020 22:53
Naphthalene	0.00011		0.000020	0.00010	mg/L	1	24-Jul-2020 22:53
Nitrobenzene	U		0.000024	0.00020	mg/L	1	24-Jul-2020 22:53
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	24-Jul-2020 22:53
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	24-Jul-2020 22:53
Phenanthrene	0.00010		0.000021	0.00010	mg/L	1	24-Jul-2020 22:53
Phenol	U		0.000035	0.00020	mg/L	1	24-Jul-2020 22:53
Pyrene	0.000031	J	0.000019	0.00010	mg/L	1	24-Jul-2020 22:53
<i>Surr: 2,4,6-Tribromophenol</i>	66.7			34-129	%REC	1	24-Jul-2020 22:53
<i>Surr: 2-Fluorobiphenyl</i>	53.9			40-125	%REC	1	24-Jul-2020 22:53
<i>Surr: 2-Fluorophenol</i>	50.6			20-120	%REC	1	24-Jul-2020 22:53
<i>Surr: 4-Terphenyl-d14</i>	73.2			40-135	%REC	1	24-Jul-2020 22:53
<i>Surr: Nitrobenzene-d5</i>	60.9			41-120	%REC	1	24-Jul-2020 22:53
<i>Surr: Phenol-d6</i>	55.5			20-120	%REC	1	24-Jul-2020 22:53
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 23-Jul-2020		Analyst: JHD	
Arsenic	0.0187		0.000400	0.00200	mg/L	1	24-Jul-2020 13:50

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW50B-20200716
 Collection Date: 16-Jul-2020 14:00

ANALYTICAL REPORT
 WorkOrder:HS20070774
 Lab ID:HS20070774-14
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	21-Jul-2020 04:41
Benzene	U		0.00020	0.0010	mg/L	1	21-Jul-2020 04:41
Chlorobenzene	U		0.00030	0.0010	mg/L	1	21-Jul-2020 04:41
Ethylbenzene	U		0.00030	0.0010	mg/L	1	21-Jul-2020 04:41
Methylene chloride	U		0.0010	0.0020	mg/L	1	21-Jul-2020 04:41
Toluene	0.00048	J	0.00020	0.0010	mg/L	1	21-Jul-2020 04:41
Xylenes, Total	U		0.00030	0.0010	mg/L	1	21-Jul-2020 04:41
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>101</i>			<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 04:41</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>101</i>			<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 04:41</i>
<i>Surr: Dibromofluoromethane</i>	<i>103</i>			<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 04:41</i>
<i>Surr: Toluene-d8</i>	<i>99.7</i>			<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 04:41</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW50B-20200716
 Collection Date: 16-Jul-2020 14:00

ANALYTICAL REPORT
 WorkOrder:HS20070774
 Lab ID:HS20070774-14
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 20-Jul-2020		Analyst: ACN	
1,2-Diphenylhydrazine	U		0.000021	0.00020	mg/L	1	25-Jul-2020 18:06
2,4-Dimethylphenol	U		0.000040	0.00020	mg/L	1	25-Jul-2020 18:06
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	25-Jul-2020 18:06
2,6-Dinitrotoluene	U		0.000042	0.00020	mg/L	1	25-Jul-2020 18:06
2-Chloronaphthalene	U		0.000021	0.00020	mg/L	1	25-Jul-2020 18:06
2-Methylnaphthalene	0.000040	J	0.000019	0.00010	mg/L	1	25-Jul-2020 18:06
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	25-Jul-2020 18:06
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	25-Jul-2020 18:06
Acenaphthene	0.000091		0.000027	0.00010	mg/L	1	25-Jul-2020 18:06
Acenaphthylene	U		0.000015	0.00010	mg/L	1	25-Jul-2020 18:06
Anthracene	0.000078	J	0.000014	0.00010	mg/L	1	25-Jul-2020 18:06
Benz(a)anthracene	U		0.000050	0.00010	mg/L	1	25-Jul-2020 18:06
Benzo(a)pyrene	U		0.000020	0.00010	mg/L	1	25-Jul-2020 18:06
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	25-Jul-2020 18:06
Bis(2-ethylhexyl)phthalate	U		0.000037	0.00020	mg/L	1	25-Jul-2020 18:06
Chrysene	U		0.000021	0.00010	mg/L	1	25-Jul-2020 18:06
Dibenzofuran	0.000058		0.000020	0.00010	mg/L	1	25-Jul-2020 18:06
Di-n-butyl phthalate	0.000053	J	0.000020	0.00020	mg/L	1	25-Jul-2020 18:06
Fluoranthene	0.00011		0.000010	0.00010	mg/L	1	25-Jul-2020 18:06
Fluorene	0.00026		0.000030	0.00010	mg/L	1	25-Jul-2020 18:06
Naphthalene	0.000064	J	0.000020	0.00010	mg/L	1	25-Jul-2020 18:06
Nitrobenzene	U		0.000024	0.00020	mg/L	1	25-Jul-2020 18:06
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	25-Jul-2020 18:06
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	25-Jul-2020 18:06
Phenanthrene	0.00034		0.000021	0.00010	mg/L	1	25-Jul-2020 18:06
Phenol	U		0.000035	0.00020	mg/L	1	25-Jul-2020 18:06
Pyrene	0.000064	J	0.000019	0.00010	mg/L	1	25-Jul-2020 18:06
<i>Surr: 2,4,6-Tribromophenol</i>	66.4			34-129	%REC	1	25-Jul-2020 18:06
<i>Surr: 2-Fluorobiphenyl</i>	61.2			40-125	%REC	1	25-Jul-2020 18:06
<i>Surr: 2-Fluorophenol</i>	50.9			20-120	%REC	1	25-Jul-2020 18:06
<i>Surr: 4-Terphenyl-d14</i>	97.6			40-135	%REC	1	25-Jul-2020 18:06
<i>Surr: Nitrobenzene-d5</i>	66.5			41-120	%REC	1	25-Jul-2020 18:06
<i>Surr: Phenol-d6</i>	69.3			20-120	%REC	1	25-Jul-2020 18:06
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 23-Jul-2020		Analyst: JHD	
Arsenic	0.00707		0.000400	0.00200	mg/L	1	24-Jul-2020 13:52

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW85C-20200716
 Collection Date: 16-Jul-2020 14:50

ANALYTICAL REPORT
 WorkOrder:HS20070774
 Lab ID:HS20070774-15
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.0050	0.025	mg/L	25	21-Jul-2020 14:40
Benzene	U		0.0050	0.025	mg/L	25	21-Jul-2020 14:40
Chlorobenzene	U		0.0075	0.025	mg/L	25	21-Jul-2020 14:40
Ethylbenzene	U		0.0075	0.025	mg/L	25	21-Jul-2020 14:40
Methylene chloride	U		0.025	0.050	mg/L	25	21-Jul-2020 14:40
Toluene	U		0.0050	0.025	mg/L	25	21-Jul-2020 14:40
Xylenes, Total	U		0.0075	0.025	mg/L	25	21-Jul-2020 14:40
<i>Surr: 1,2-Dichloroethane-d4</i>		<i>102</i>		<i>70-126</i>	<i>%REC</i>	<i>25</i>	<i>21-Jul-2020 14:40</i>
<i>Surr: 4-Bromofluorobenzene</i>		<i>99.7</i>		<i>81-113</i>	<i>%REC</i>	<i>25</i>	<i>21-Jul-2020 14:40</i>
<i>Surr: Dibromofluoromethane</i>		<i>102</i>		<i>77-123</i>	<i>%REC</i>	<i>25</i>	<i>21-Jul-2020 14:40</i>
<i>Surr: Toluene-d8</i>		<i>102</i>		<i>82-127</i>	<i>%REC</i>	<i>25</i>	<i>21-Jul-2020 14:40</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW85C-20200716
 Collection Date: 16-Jul-2020 14:50

ANALYTICAL REPORT
 WorkOrder:HS20070774
 Lab ID:HS20070774-15
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 20-Jul-2020		Analyst: ACN	
1,2-Diphenylhydrazine	U		0.000021	0.00020	mg/L	1	25-Jul-2020 13:32
2,4-Dimethylphenol	U		0.000040	0.00020	mg/L	1	25-Jul-2020 13:32
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	25-Jul-2020 13:32
2,6-Dinitrotoluene	U		0.000042	0.00020	mg/L	1	25-Jul-2020 13:32
2-Chloronaphthalene	U		0.000021	0.00020	mg/L	1	25-Jul-2020 13:32
2-Methylnaphthalene	0.000031	J	0.000019	0.00010	mg/L	1	25-Jul-2020 13:32
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	25-Jul-2020 13:32
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	25-Jul-2020 13:32
Acenaphthene	0.0012		0.000027	0.00010	mg/L	1	25-Jul-2020 13:32
Acenaphthylene	U		0.000015	0.00010	mg/L	1	25-Jul-2020 13:32
Anthracene	0.00015		0.000014	0.00010	mg/L	1	25-Jul-2020 13:32
Benz(a)anthracene	U		0.000050	0.00010	mg/L	1	25-Jul-2020 13:32
Benzo(a)pyrene	U		0.000020	0.00010	mg/L	1	25-Jul-2020 13:32
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	25-Jul-2020 13:32
Bis(2-ethylhexyl)phthalate	0.000089	J	0.000037	0.00020	mg/L	1	25-Jul-2020 13:32
Chrysene	U		0.000021	0.00010	mg/L	1	25-Jul-2020 13:32
Dibenzofuran	0.00070		0.000020	0.00010	mg/L	1	25-Jul-2020 13:32
Di-n-butyl phthalate	0.000038	J	0.000020	0.00020	mg/L	1	25-Jul-2020 13:32
Fluoranthene	0.000100	J	0.000010	0.00010	mg/L	1	25-Jul-2020 13:32
Fluorene	0.00059		0.000030	0.00010	mg/L	1	25-Jul-2020 13:32
Naphthalene	0.0031		0.000020	0.00010	mg/L	1	25-Jul-2020 13:32
Nitrobenzene	U		0.000024	0.00020	mg/L	1	25-Jul-2020 13:32
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	25-Jul-2020 13:32
Pentachlorophenol	0.00061		0.000079	0.00020	mg/L	1	25-Jul-2020 13:32
Phenanthrene	0.00026		0.000021	0.00010	mg/L	1	25-Jul-2020 13:32
Phenol	0.000048	J	0.000035	0.00020	mg/L	1	25-Jul-2020 13:32
Pyrene	0.000065	J	0.000019	0.00010	mg/L	1	25-Jul-2020 13:32
<i>Surr: 2,4,6-Tribromophenol</i>	79.9			34-129	%REC	1	25-Jul-2020 13:32
<i>Surr: 2-Fluorobiphenyl</i>	63.6			40-125	%REC	1	25-Jul-2020 13:32
<i>Surr: 2-Fluorophenol</i>	63.7			20-120	%REC	1	25-Jul-2020 13:32
<i>Surr: 4-Terphenyl-d14</i>	103			40-135	%REC	1	25-Jul-2020 13:32
<i>Surr: Nitrobenzene-d5</i>	87.3			41-120	%REC	1	25-Jul-2020 13:32
<i>Surr: Phenol-d6</i>	74.7			20-120	%REC	1	25-Jul-2020 13:32
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 23-Jul-2020		Analyst: JHD	
Arsenic	0.170		0.00200	0.0100	mg/L	5	24-Jul-2020 13:54

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW47C-20200716
 Collection Date: 16-Jul-2020 15:50

ANALYTICAL REPORT
 WorkOrder:HS20070774
 Lab ID:HS20070774-16
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	21-Jul-2020 05:04
Benzene	U		0.00020	0.0010	mg/L	1	21-Jul-2020 05:04
Chlorobenzene	U		0.00030	0.0010	mg/L	1	21-Jul-2020 05:04
Ethylbenzene	U		0.00030	0.0010	mg/L	1	21-Jul-2020 05:04
Methylene chloride	U		0.0010	0.0020	mg/L	1	21-Jul-2020 05:04
Toluene	U		0.00020	0.0010	mg/L	1	21-Jul-2020 05:04
Xylenes, Total	U		0.00030	0.0010	mg/L	1	21-Jul-2020 05:04
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>100</i>			<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 05:04</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>99.9</i>			<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 05:04</i>
<i>Surr: Dibromofluoromethane</i>	<i>103</i>			<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 05:04</i>
<i>Surr: Toluene-d8</i>	<i>101</i>			<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 05:04</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW47C-20200716
 Collection Date: 16-Jul-2020 15:50

ANALYTICAL REPORT
 WorkOrder:HS20070774
 Lab ID:HS20070774-16
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 20-Jul-2020		Analyst: ACN	
1,2-Diphenylhydrazine	U		0.000021	0.00020	mg/L	1	25-Jul-2020 13:52
2,4-Dimethylphenol	U		0.000040	0.00020	mg/L	1	25-Jul-2020 13:52
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	25-Jul-2020 13:52
2,6-Dinitrotoluene	U		0.000042	0.00020	mg/L	1	25-Jul-2020 13:52
2-Chloronaphthalene	U		0.000021	0.00020	mg/L	1	25-Jul-2020 13:52
2-Methylnaphthalene	U		0.000019	0.00010	mg/L	1	25-Jul-2020 13:52
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	25-Jul-2020 13:52
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	25-Jul-2020 13:52
Acenaphthene	U		0.000027	0.00010	mg/L	1	25-Jul-2020 13:52
Acenaphthylene	U		0.000015	0.00010	mg/L	1	25-Jul-2020 13:52
Anthracene	U		0.000014	0.00010	mg/L	1	25-Jul-2020 13:52
Benz(a)anthracene	U		0.000050	0.00010	mg/L	1	25-Jul-2020 13:52
Benzo(a)pyrene	U		0.000020	0.00010	mg/L	1	25-Jul-2020 13:52
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	25-Jul-2020 13:52
Bis(2-ethylhexyl)phthalate	0.00020		0.000037	0.00020	mg/L	1	25-Jul-2020 13:52
Chrysene	U		0.000021	0.00010	mg/L	1	25-Jul-2020 13:52
Dibenzofuran	U		0.000020	0.00010	mg/L	1	25-Jul-2020 13:52
Di-n-butyl phthalate	0.00089		0.000020	0.00020	mg/L	1	25-Jul-2020 13:52
Fluoranthene	0.000037	J	0.000010	0.00010	mg/L	1	25-Jul-2020 13:52
Fluorene	U		0.000030	0.00010	mg/L	1	25-Jul-2020 13:52
Naphthalene	U		0.000020	0.00010	mg/L	1	25-Jul-2020 13:52
Nitrobenzene	U		0.000024	0.00020	mg/L	1	25-Jul-2020 13:52
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	25-Jul-2020 13:52
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	25-Jul-2020 13:52
Phenanthrene	0.000022	J	0.000021	0.00010	mg/L	1	25-Jul-2020 13:52
Phenol	U		0.000035	0.00020	mg/L	1	25-Jul-2020 13:52
Pyrene	0.000022	J	0.000019	0.00010	mg/L	1	25-Jul-2020 13:52
<i>Surr: 2,4,6-Tribromophenol</i>	<i>87.5</i>			<i>34-129</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 13:52</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>74.6</i>			<i>40-125</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 13:52</i>
<i>Surr: 2-Fluorophenol</i>	<i>67.3</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 13:52</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>96.3</i>			<i>40-135</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 13:52</i>
<i>Surr: Nitrobenzene-d5</i>	<i>83.4</i>			<i>41-120</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 13:52</i>
<i>Surr: Phenol-d6</i>	<i>81.5</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 13:52</i>
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 23-Jul-2020		Analyst: JHD	
Arsenic	0.00142	J	0.000400	0.00200	mg/L	1	24-Jul-2020 13:55

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW49A-20200716
 Collection Date: 16-Jul-2020 16:45

ANALYTICAL REPORT
 WorkOrder:HS20070774
 Lab ID:HS20070774-17
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	SQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane		U	0.00020	0.0010	mg/L	1	21-Jul-2020 05:27
Benzene	0.13		0.00020	0.0010	mg/L	1	21-Jul-2020 05:27
Chlorobenzene	0.0027		0.00030	0.0010	mg/L	1	21-Jul-2020 05:27
Ethylbenzene	0.077		0.00030	0.0010	mg/L	1	21-Jul-2020 05:27
Methylene chloride		U	0.0010	0.0020	mg/L	1	21-Jul-2020 05:27
Toluene	0.13		0.00020	0.0010	mg/L	1	21-Jul-2020 05:27
Vinyl chloride		U	0.00020	0.0010	mg/L	1	21-Jul-2020 05:27
Xylenes, Total	0.18		0.00030	0.0010	mg/L	1	21-Jul-2020 05:27
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>98.8</i>			<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 05:27</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>104</i>			<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 05:27</i>
<i>Surr: Dibromofluoromethane</i>	<i>102</i>			<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 05:27</i>
<i>Surr: Toluene-d8</i>	<i>99.2</i>			<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 05:27</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW49A-20200716
 Collection Date: 16-Jul-2020 16:45

ANALYTICAL REPORT
 WorkOrder:HS20070774
 Lab ID:HS20070774-17
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D	Method:SW8270				Prep:SW3510 / 20-Jul-2020		Analyst: GEY
1,2-Diphenylhydrazine	U		0.000021	0.00020	mg/L	1	25-Jul-2020 18:59
2,4-Dimethylphenol	0.58		0.0040	0.020	mg/L	100	25-Jul-2020 21:36
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	25-Jul-2020 18:59
2,6-Dinitrotoluene	U		0.000042	0.00020	mg/L	1	25-Jul-2020 18:59
2-Chloronaphthalene	U		0.000021	0.00020	mg/L	1	25-Jul-2020 18:59
2-Methylnaphthalene	0.095		0.00019	0.0010	mg/L	10	25-Jul-2020 19:18
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	25-Jul-2020 18:59
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	25-Jul-2020 18:59
Acenaphthene	0.057		0.00027	0.0010	mg/L	10	25-Jul-2020 19:18
Acenaphthylene	0.0019		0.000015	0.00010	mg/L	1	25-Jul-2020 18:59
Anthracene	0.024		0.00014	0.0010	mg/L	10	25-Jul-2020 19:18
Benz(a)anthracene	0.0094		0.00050	0.0010	mg/L	10	25-Jul-2020 19:18
Benzo(a)pyrene	0.0045		0.000020	0.00010	mg/L	1	25-Jul-2020 18:59
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	25-Jul-2020 18:59
Bis(2-ethylhexyl)phthalate	0.00018	J	0.000037	0.00020	mg/L	1	25-Jul-2020 18:59
Chrysene	0.0086		0.00021	0.0010	mg/L	10	25-Jul-2020 19:18
Dibenzofuran	0.044		0.00020	0.0010	mg/L	10	25-Jul-2020 19:18
Di-n-butyl phthalate	U		0.000020	0.00020	mg/L	1	25-Jul-2020 18:59
Fluoranthene	0.046		0.00010	0.0010	mg/L	10	25-Jul-2020 19:18
Fluorene	0.046		0.00030	0.0010	mg/L	10	25-Jul-2020 19:18
Naphthalene	2.0		0.020	0.10	mg/L	1000	28-Jul-2020 15:35
Nitrobenzene	U		0.000024	0.00020	mg/L	1	25-Jul-2020 18:59
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	25-Jul-2020 18:59
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	25-Jul-2020 18:59
Phenanthrene	0.22		0.0021	0.010	mg/L	100	25-Jul-2020 21:36
Phenol	0.0017		0.000035	0.00020	mg/L	1	25-Jul-2020 18:59
Pyrene	0.030		0.00019	0.0010	mg/L	10	25-Jul-2020 19:18
<i>Surr: 2,4,6-Tribromophenol</i>	0	JS		34-129	%REC	1000	28-Jul-2020 15:35
<i>Surr: 2,4,6-Tribromophenol</i>	93.7			34-129	%REC	1	25-Jul-2020 18:59
<i>Surr: 2,4,6-Tribromophenol</i>	66.5			34-129	%REC	10	25-Jul-2020 19:18
<i>Surr: 2,4,6-Tribromophenol</i>	0	JS		34-129	%REC	100	25-Jul-2020 21:36
<i>Surr: 2-Fluorobiphenyl</i>	74.2			40-125	%REC	1	25-Jul-2020 18:59
<i>Surr: 2-Fluorobiphenyl</i>	56.4			40-125	%REC	10	25-Jul-2020 19:18
<i>Surr: 2-Fluorobiphenyl</i>	0	JS		40-125	%REC	100	25-Jul-2020 21:36
<i>Surr: 2-Fluorobiphenyl</i>	0	JS		40-125	%REC	1000	28-Jul-2020 15:35
<i>Surr: 2-Fluorophenol</i>	0	JS		20-120	%REC	1000	28-Jul-2020 15:35
<i>Surr: 2-Fluorophenol</i>	87.1			20-120	%REC	1	25-Jul-2020 18:59
<i>Surr: 2-Fluorophenol</i>	68.9			20-120	%REC	10	25-Jul-2020 19:18
<i>Surr: 2-Fluorophenol</i>	0	JS		20-120	%REC	100	25-Jul-2020 21:36

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW49A-20200716
 Collection Date: 16-Jul-2020 16:45

ANALYTICAL REPORT
 WorkOrder:HS20070774
 Lab ID:HS20070774-17
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 20-Jul-2020		Analyst: GEY	
Surr: 4-Terphenyl-d14	95.5			40-135	%REC	1	25-Jul-2020 18:59
Surr: 4-Terphenyl-d14	73.9			40-135	%REC	10	25-Jul-2020 19:18
Surr: 4-Terphenyl-d14	0	JS		40-135	%REC	100	25-Jul-2020 21:36
Surr: 4-Terphenyl-d14	0	JS		40-135	%REC	1000	28-Jul-2020 15:35
Surr: Nitrobenzene-d5	118			41-120	%REC	1	25-Jul-2020 18:59
Surr: Nitrobenzene-d5	70.1			41-120	%REC	10	25-Jul-2020 19:18
Surr: Nitrobenzene-d5	0	JS		41-120	%REC	100	25-Jul-2020 21:36
Surr: Nitrobenzene-d5	0	JS		41-120	%REC	1000	28-Jul-2020 15:35
Surr: Phenol-d6	79.3			20-120	%REC	10	25-Jul-2020 19:18
Surr: Phenol-d6	0	JS		20-120	%REC	100	25-Jul-2020 21:36
Surr: Phenol-d6	105			20-120	%REC	1	25-Jul-2020 18:59
Surr: Phenol-d6	0	JS		20-120	%REC	1000	28-Jul-2020 15:35
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 23-Jul-2020		Analyst: JHD	
Arsenic	0.00113	J	0.000400	0.00200	mg/L	1	24-Jul-2020 13:57

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW48C-20200716
 Collection Date: 16-Jul-2020 17:35

ANALYTICAL REPORT
 WorkOrder:HS20070774
 Lab ID:HS20070774-18
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	21-Jul-2020 05:49
Benzene	U		0.00020	0.0010	mg/L	1	21-Jul-2020 05:49
Chlorobenzene	U		0.00030	0.0010	mg/L	1	21-Jul-2020 05:49
Ethylbenzene	U		0.00030	0.0010	mg/L	1	21-Jul-2020 05:49
Methylene chloride	U		0.0010	0.0020	mg/L	1	21-Jul-2020 05:49
Toluene	U		0.00020	0.0010	mg/L	1	21-Jul-2020 05:49
Xylenes, Total	U		0.00030	0.0010	mg/L	1	21-Jul-2020 05:49
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>100</i>			<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 05:49</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>99.0</i>			<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 05:49</i>
<i>Surr: Dibromofluoromethane</i>	<i>103</i>			<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 05:49</i>
<i>Surr: Toluene-d8</i>	<i>101</i>			<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 05:49</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW48C-20200716
 Collection Date: 16-Jul-2020 17:35

ANALYTICAL REPORT
 WorkOrder:HS20070774
 Lab ID:HS20070774-18
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 20-Jul-2020		Analyst: ACN	
1,2-Diphenylhydrazine	U		0.000021	0.00020	mg/L	1	25-Jul-2020 14:11
2,4-Dimethylphenol	U		0.000040	0.00020	mg/L	1	25-Jul-2020 14:11
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	25-Jul-2020 14:11
2,6-Dinitrotoluene	0.00031		0.000042	0.00020	mg/L	1	25-Jul-2020 14:11
2-Chloronaphthalene	U		0.000021	0.00020	mg/L	1	25-Jul-2020 14:11
2-Methylnaphthalene	U		0.000019	0.00010	mg/L	1	25-Jul-2020 14:11
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	25-Jul-2020 14:11
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	25-Jul-2020 14:11
Acenaphthene	U		0.000027	0.00010	mg/L	1	25-Jul-2020 14:11
Acenaphthylene	U		0.000015	0.00010	mg/L	1	25-Jul-2020 14:11
Anthracene	U		0.000014	0.00010	mg/L	1	25-Jul-2020 14:11
Benz(a)anthracene	U		0.000050	0.00010	mg/L	1	25-Jul-2020 14:11
Benzo(a)pyrene	U		0.000020	0.00010	mg/L	1	25-Jul-2020 14:11
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	25-Jul-2020 14:11
Bis(2-ethylhexyl)phthalate	0.000057	J	0.000037	0.00020	mg/L	1	25-Jul-2020 14:11
Chrysene	U		0.000021	0.00010	mg/L	1	25-Jul-2020 14:11
Dibenzofuran	U		0.000020	0.00010	mg/L	1	25-Jul-2020 14:11
Di-n-butyl phthalate	0.000026	J	0.000020	0.00020	mg/L	1	25-Jul-2020 14:11
Fluoranthene	0.000052	J	0.000010	0.00010	mg/L	1	25-Jul-2020 14:11
Fluorene	U		0.000030	0.00010	mg/L	1	25-Jul-2020 14:11
Naphthalene	0.000071	J	0.000020	0.00010	mg/L	1	25-Jul-2020 14:11
Nitrobenzene	U		0.000024	0.00020	mg/L	1	25-Jul-2020 14:11
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	25-Jul-2020 14:11
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	25-Jul-2020 14:11
Phenanthrene	U		0.000021	0.00010	mg/L	1	25-Jul-2020 14:11
Phenol	U		0.000035	0.00020	mg/L	1	25-Jul-2020 14:11
Pyrene	0.000043	J	0.000019	0.00010	mg/L	1	25-Jul-2020 14:11
<i>Surr: 2,4,6-Tribromophenol</i>	<i>86.4</i>			<i>34-129</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 14:11</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>77.2</i>			<i>40-125</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 14:11</i>
<i>Surr: 2-Fluorophenol</i>	<i>60.3</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 14:11</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>85.9</i>			<i>40-135</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 14:11</i>
<i>Surr: Nitrobenzene-d5</i>	<i>78.8</i>			<i>41-120</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 14:11</i>
<i>Surr: Phenol-d6</i>	<i>71.5</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 14:11</i>
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 23-Jul-2020		Analyst: JHD	
Arsenic	0.00102	J	0.000400	0.00200	mg/L	1	24-Jul-2020 13:59

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW21C-20200716
 Collection Date: 16-Jul-2020 08:40

ANALYTICAL REPORT
 WorkOrder:HS20070774
 Lab ID:HS20070774-19
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	21-Jul-2020 06:12
Benzene	U		0.00020	0.0010	mg/L	1	21-Jul-2020 06:12
Chlorobenzene	U		0.00030	0.0010	mg/L	1	21-Jul-2020 06:12
Ethylbenzene	U		0.00030	0.0010	mg/L	1	21-Jul-2020 06:12
Methylene chloride	U		0.0010	0.0020	mg/L	1	21-Jul-2020 06:12
Toluene	U		0.00020	0.0010	mg/L	1	21-Jul-2020 06:12
Xylenes, Total	U		0.00030	0.0010	mg/L	1	21-Jul-2020 06:12
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>101</i>			<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 06:12</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>99.5</i>			<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 06:12</i>
<i>Surr: Dibromofluoromethane</i>	<i>103</i>			<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 06:12</i>
<i>Surr: Toluene-d8</i>	<i>101</i>			<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 06:12</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW21C-20200716
 Collection Date: 16-Jul-2020 08:40

ANALYTICAL REPORT
 WorkOrder:HS20070774
 Lab ID:HS20070774-19
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MLL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 21-Jul-2020		Analyst: ACN	
1,2-Diphenylhydrazine	U		0.000021	0.00020	mg/L	1	25-Jul-2020 14:31
2,4-Dimethylphenol	U		0.000040	0.00020	mg/L	1	25-Jul-2020 14:31
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	25-Jul-2020 14:31
2,6-Dinitrotoluene	0.0021		0.000042	0.00020	mg/L	1	25-Jul-2020 14:31
2-Chloronaphthalene	U		0.000021	0.00020	mg/L	1	25-Jul-2020 14:31
2-Methylnaphthalene	0.000021	J	0.000019	0.00010	mg/L	1	25-Jul-2020 14:31
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	25-Jul-2020 14:31
4-Nitrophenol	0.00014	J	0.000047	0.0010	mg/L	1	25-Jul-2020 14:31
Acenaphthene	U		0.000027	0.00010	mg/L	1	25-Jul-2020 14:31
Acenaphthylene	U		0.000015	0.00010	mg/L	1	25-Jul-2020 14:31
Anthracene	U		0.000014	0.00010	mg/L	1	25-Jul-2020 14:31
Benz(a)anthracene	U		0.000050	0.00010	mg/L	1	25-Jul-2020 14:31
Benzo(a)pyrene	U		0.000020	0.00010	mg/L	1	25-Jul-2020 14:31
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	25-Jul-2020 14:31
Bis(2-ethylhexyl)phthalate	0.000061	J	0.000037	0.00020	mg/L	1	25-Jul-2020 14:31
Chrysene	U		0.000021	0.00010	mg/L	1	25-Jul-2020 14:31
Dibenzofuran	U		0.000020	0.00010	mg/L	1	25-Jul-2020 14:31
Di-n-butyl phthalate	0.000028	J	0.000020	0.00020	mg/L	1	25-Jul-2020 14:31
Fluoranthene	0.000019	J	0.000010	0.00010	mg/L	1	25-Jul-2020 14:31
Fluorene	U		0.000030	0.00010	mg/L	1	25-Jul-2020 14:31
Naphthalene	0.000042	J	0.000020	0.00010	mg/L	1	25-Jul-2020 14:31
Nitrobenzene	U		0.000024	0.00020	mg/L	1	25-Jul-2020 14:31
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	25-Jul-2020 14:31
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	25-Jul-2020 14:31
Phenanthrene	U		0.000021	0.00010	mg/L	1	25-Jul-2020 14:31
Phenol	U		0.000035	0.00020	mg/L	1	25-Jul-2020 14:31
Pyrene	U		0.000019	0.00010	mg/L	1	25-Jul-2020 14:31
<i>Surr: 2,4,6-Tribromophenol</i>	<i>75.0</i>			<i>34-129</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 14:31</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>70.0</i>			<i>40-125</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 14:31</i>
<i>Surr: 2-Fluorophenol</i>	<i>59.6</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 14:31</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>88.1</i>			<i>40-135</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 14:31</i>
<i>Surr: Nitrobenzene-d5</i>	<i>72.1</i>			<i>41-120</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 14:31</i>
<i>Surr: Phenol-d6</i>	<i>78.2</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 14:31</i>
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 23-Jul-2020		Analyst: JHD	
Arsenic	0.000873	J	0.000400	0.00200	mg/L	1	24-Jul-2020 14:01

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-P11-20200716
 Collection Date: 16-Jul-2020 10:25

ANALYTICAL REPORT
 WorkOrder:HS20070774
 Lab ID:HS20070774-20
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	21-Jul-2020 06:35
Benzene	U		0.00020	0.0010	mg/L	1	21-Jul-2020 06:35
Chlorobenzene	U		0.00030	0.0010	mg/L	1	21-Jul-2020 06:35
Ethylbenzene	U		0.00030	0.0010	mg/L	1	21-Jul-2020 06:35
Methylene chloride	U		0.0010	0.0020	mg/L	1	21-Jul-2020 06:35
Toluene	U		0.00020	0.0010	mg/L	1	21-Jul-2020 06:35
Xylenes, Total	U		0.00030	0.0010	mg/L	1	21-Jul-2020 06:35
<i>Surr: 1,2-Dichloroethane-d4</i>		<i>102</i>		<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 06:35</i>
<i>Surr: 4-Bromofluorobenzene</i>		<i>99.3</i>		<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 06:35</i>
<i>Surr: Dibromofluoromethane</i>		<i>102</i>		<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 06:35</i>
<i>Surr: Toluene-d8</i>		<i>101</i>		<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 06:35</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-P11-20200716
 Collection Date: 16-Jul-2020 10:25

ANALYTICAL REPORT
 WorkOrder:HS20070774
 Lab ID:HS20070774-20
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 21-Jul-2020		Analyst: ACN	
1,2-Diphenylhydrazine	0.00014	J	0.000021	0.00020	mg/L	1	25-Jul-2020 18:25
2,4-Dimethylphenol		U	0.000040	0.00020	mg/L	1	25-Jul-2020 18:25
2,4-Dinitrotoluene		U	0.000058	0.00020	mg/L	1	25-Jul-2020 18:25
2,6-Dinitrotoluene		U	0.000042	0.00020	mg/L	1	25-Jul-2020 18:25
2-Chloronaphthalene		U	0.000021	0.00020	mg/L	1	25-Jul-2020 18:25
2-Methylnaphthalene		U	0.000019	0.00010	mg/L	1	25-Jul-2020 18:25
4,6-Dinitro-2-methylphenol		U	0.000020	0.00020	mg/L	1	25-Jul-2020 18:25
4-Nitrophenol		U	0.000047	0.0010	mg/L	1	25-Jul-2020 18:25
Acenaphthene	0.00080		0.000027	0.00010	mg/L	1	25-Jul-2020 18:25
Acenaphthylene		U	0.000015	0.00010	mg/L	1	25-Jul-2020 18:25
Anthracene	0.000078	J	0.000014	0.00010	mg/L	1	25-Jul-2020 18:25
Benz(a)anthracene		U	0.000050	0.00010	mg/L	1	25-Jul-2020 18:25
Benzo(a)pyrene		U	0.000020	0.00010	mg/L	1	25-Jul-2020 18:25
Bis(2-chloroethoxy)methane		U	0.000030	0.00020	mg/L	1	25-Jul-2020 18:25
Bis(2-ethylhexyl)phthalate	0.000068	J	0.000037	0.00020	mg/L	1	25-Jul-2020 18:25
Chrysene		U	0.000021	0.00010	mg/L	1	25-Jul-2020 18:25
Dibenzofuran	0.00019		0.000020	0.00010	mg/L	1	25-Jul-2020 18:25
Di-n-butyl phthalate	0.000025	J	0.000020	0.00020	mg/L	1	25-Jul-2020 18:25
Fluoranthene	0.00022		0.000010	0.00010	mg/L	1	25-Jul-2020 18:25
Fluorene	0.00017		0.000030	0.00010	mg/L	1	25-Jul-2020 18:25
Naphthalene	0.00011		0.000020	0.00010	mg/L	1	25-Jul-2020 18:25
Nitrobenzene		U	0.000024	0.00020	mg/L	1	25-Jul-2020 18:25
N-Nitrosodiphenylamine		U	0.000025	0.00020	mg/L	1	25-Jul-2020 18:25
Pentachlorophenol		U	0.000079	0.00020	mg/L	1	25-Jul-2020 18:25
Phenanthrene	0.00024		0.000021	0.00010	mg/L	1	25-Jul-2020 18:25
Phenol		U	0.000035	0.00020	mg/L	1	25-Jul-2020 18:25
Pyrene	0.00010		0.000019	0.00010	mg/L	1	25-Jul-2020 18:25
<i>Surr: 2,4,6-Tribromophenol</i>	96.2			34-129	%REC	1	25-Jul-2020 18:25
<i>Surr: 2-Fluorobiphenyl</i>	66.7			40-125	%REC	1	25-Jul-2020 18:25
<i>Surr: 2-Fluorophenol</i>	55.1			20-120	%REC	1	25-Jul-2020 18:25
<i>Surr: 4-Terphenyl-d14</i>	94.8			40-135	%REC	1	25-Jul-2020 18:25
<i>Surr: Nitrobenzene-d5</i>	72.8			41-120	%REC	1	25-Jul-2020 18:25
<i>Surr: Phenol-d6</i>	82.7			20-120	%REC	1	25-Jul-2020 18:25
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 23-Jul-2020		Analyst: JHD	
Arsenic	0.0116		0.000400	0.00200	mg/L	1	24-Jul-2020 14:03

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW62B-20200716
 Collection Date: 16-Jul-2020 11:25

ANALYTICAL REPORT
 WorkOrder:HS20070774
 Lab ID:HS20070774-21
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	21-Jul-2020 06:58
Benzene	0.0022		0.00020	0.0010	mg/L	1	21-Jul-2020 06:58
Chlorobenzene	U		0.00030	0.0010	mg/L	1	21-Jul-2020 06:58
Ethylbenzene	0.018		0.00030	0.0010	mg/L	1	21-Jul-2020 06:58
Methylene chloride	U		0.0010	0.0020	mg/L	1	21-Jul-2020 06:58
Toluene	0.0052		0.00020	0.0010	mg/L	1	21-Jul-2020 06:58
Xylenes, Total	0.023		0.00030	0.0010	mg/L	1	21-Jul-2020 06:58
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>100</i>			<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 06:58</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>101</i>			<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 06:58</i>
<i>Surr: Dibromofluoromethane</i>	<i>102</i>			<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 06:58</i>
<i>Surr: Toluene-d8</i>	<i>99.9</i>			<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 06:58</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW62B-20200716
 Collection Date: 16-Jul-2020 11:25

ANALYTICAL REPORT
 WorkOrder:HS20070774
 Lab ID:HS20070774-21
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 21-Jul-2020		Analyst: ACN	
1,2-Diphenylhydrazine	U		0.000021	0.00020	mg/L	1	25-Jul-2020 20:42
2,4-Dimethylphenol	U		0.000040	0.00020	mg/L	1	25-Jul-2020 20:42
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	25-Jul-2020 20:42
2,6-Dinitrotoluene	U		0.000042	0.00020	mg/L	1	25-Jul-2020 20:42
2-Chloronaphthalene	U		0.000021	0.00020	mg/L	1	25-Jul-2020 20:42
2-Methylnaphthalene	0.00058		0.000019	0.00010	mg/L	1	25-Jul-2020 20:42
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	25-Jul-2020 20:42
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	25-Jul-2020 20:42
Acenaphthene	0.064		0.00027	0.0010	mg/L	10	25-Jul-2020 21:01
Acenaphthylene	0.00086		0.000015	0.00010	mg/L	1	25-Jul-2020 20:42
Anthracene	0.0034		0.000014	0.00010	mg/L	1	25-Jul-2020 20:42
Benz(a)anthracene	U		0.000050	0.00010	mg/L	1	25-Jul-2020 20:42
Benzo(a)pyrene	0.000024	J	0.000020	0.00010	mg/L	1	25-Jul-2020 20:42
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	25-Jul-2020 20:42
Bis(2-ethylhexyl)phthalate	0.00011	J	0.000037	0.00020	mg/L	1	25-Jul-2020 20:42
Chrysene	U		0.000021	0.00010	mg/L	1	25-Jul-2020 20:42
Dibenzofuran	0.038		0.00020	0.0010	mg/L	10	25-Jul-2020 21:01
Di-n-butyl phthalate	U		0.000020	0.00020	mg/L	1	25-Jul-2020 20:42
Fluoranthene	0.0035		0.000010	0.00010	mg/L	1	25-Jul-2020 20:42
Fluorene	0.030		0.00030	0.0010	mg/L	10	25-Jul-2020 21:01
Naphthalene	0.092		0.0010	0.0050	mg/L	50	28-Jul-2020 12:00
Nitrobenzene	U		0.000024	0.00020	mg/L	1	25-Jul-2020 20:42
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	25-Jul-2020 20:42
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	25-Jul-2020 20:42
Phenanthrene	0.0089		0.000021	0.00010	mg/L	1	25-Jul-2020 20:42
Phenol	U		0.000035	0.00020	mg/L	1	25-Jul-2020 20:42
Pyrene	0.0016		0.000019	0.00010	mg/L	1	25-Jul-2020 20:42
Surr: 2,4,6-Tribromophenol	85.9			34-129	%REC	1	25-Jul-2020 20:42
Surr: 2,4,6-Tribromophenol	68.8			34-129	%REC	10	25-Jul-2020 21:01
Surr: 2,4,6-Tribromophenol	55.4	J		34-129	%REC	50	28-Jul-2020 12:00
Surr: 2-Fluorobiphenyl	63.3			40-125	%REC	1	25-Jul-2020 20:42
Surr: 2-Fluorobiphenyl	57.1			40-125	%REC	10	25-Jul-2020 21:01
Surr: 2-Fluorobiphenyl	36.7	JS		40-125	%REC	50	28-Jul-2020 12:00
Surr: 2-Fluorophenol	53.3	J		20-120	%REC	50	28-Jul-2020 12:00
Surr: 2-Fluorophenol	58.7			20-120	%REC	1	25-Jul-2020 20:42
Surr: 2-Fluorophenol	53.0			20-120	%REC	10	25-Jul-2020 21:01
Surr: 4-Terphenyl-d14	95.3			40-135	%REC	1	25-Jul-2020 20:42
Surr: 4-Terphenyl-d14	86.7			40-135	%REC	10	25-Jul-2020 21:01
Surr: 4-Terphenyl-d14	69.1	J		40-135	%REC	50	28-Jul-2020 12:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW62B-20200716
 Collection Date: 16-Jul-2020 11:25

ANALYTICAL REPORT
 WorkOrder:HS20070774
 Lab ID:HS20070774-21
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 21-Jul-2020		Analyst: ACN	
Surr: Nitrobenzene-d5	52.5	J		41-120	%REC	50	28-Jul-2020 12:00
Surr: Nitrobenzene-d5	72.0			41-120	%REC	1	25-Jul-2020 20:42
Surr: Nitrobenzene-d5	69.3			41-120	%REC	10	25-Jul-2020 21:01
Surr: Phenol-d6	62.6			20-120	%REC	1	25-Jul-2020 20:42
Surr: Phenol-d6	50.3			20-120	%REC	10	25-Jul-2020 21:01
Surr: Phenol-d6	53.5	J		20-120	%REC	50	28-Jul-2020 12:00
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 23-Jul-2020		Analyst: JHD	
Arsenic	0.0285		0.000400	0.00200	mg/L	1	24-Jul-2020 14:05

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW88B-20200716
 Collection Date: 16-Jul-2020 12:25

ANALYTICAL REPORT
 WorkOrder:HS20070774
 Lab ID:HS20070774-22
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MLL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	21-Jul-2020 01:59
Benzene	U		0.00020	0.0010	mg/L	1	21-Jul-2020 01:59
Chlorobenzene	U		0.00030	0.0010	mg/L	1	21-Jul-2020 01:59
Ethylbenzene	U		0.00030	0.0010	mg/L	1	21-Jul-2020 01:59
Methylene chloride	U		0.0010	0.0020	mg/L	1	21-Jul-2020 01:59
Toluene	U		0.00020	0.0010	mg/L	1	21-Jul-2020 01:59
Vinyl chloride	U		0.00020	0.0010	mg/L	1	21-Jul-2020 01:59
Xylenes, Total	U		0.00030	0.0010	mg/L	1	21-Jul-2020 01:59
<i>Surr: 1,2-Dichloroethane-d4</i>		<i>102</i>		<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 01:59</i>
<i>Surr: 4-Bromofluorobenzene</i>		<i>101</i>		<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 01:59</i>
<i>Surr: Dibromofluoromethane</i>		<i>103</i>		<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 01:59</i>
<i>Surr: Toluene-d8</i>		<i>99.6</i>		<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 01:59</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW88B-20200716
 Collection Date: 16-Jul-2020 12:25

ANALYTICAL REPORT
 WorkOrder:HS20070774
 Lab ID:HS20070774-22
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 21-Jul-2020		Analyst: ACN	
1,2-Diphenylhydrazine	U		0.000021	0.00020	mg/L	1	25-Jul-2020 18:45
2,4-Dimethylphenol	U		0.000040	0.00020	mg/L	1	25-Jul-2020 18:45
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	25-Jul-2020 18:45
2,6-Dinitrotoluene	U		0.000042	0.00020	mg/L	1	25-Jul-2020 18:45
2-Chloronaphthalene	U		0.000021	0.00020	mg/L	1	25-Jul-2020 18:45
2-Methylnaphthalene	U		0.000019	0.00010	mg/L	1	25-Jul-2020 18:45
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	25-Jul-2020 18:45
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	25-Jul-2020 18:45
Acenaphthene	0.000037	J	0.000027	0.00010	mg/L	1	25-Jul-2020 18:45
Acenaphthylene	U		0.000015	0.00010	mg/L	1	25-Jul-2020 18:45
Anthracene	0.000043	J	0.000014	0.00010	mg/L	1	25-Jul-2020 18:45
Benz(a)anthracene	U		0.000050	0.00010	mg/L	1	25-Jul-2020 18:45
Benzo(a)pyrene	U		0.000020	0.00010	mg/L	1	25-Jul-2020 18:45
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	25-Jul-2020 18:45
Bis(2-ethylhexyl)phthalate	0.000060	J	0.000037	0.00020	mg/L	1	25-Jul-2020 18:45
Chrysene	U		0.000021	0.00010	mg/L	1	25-Jul-2020 18:45
Dibenzofuran	0.000024	J	0.000020	0.00010	mg/L	1	25-Jul-2020 18:45
Di-n-butyl phthalate	U		0.000020	0.00020	mg/L	1	25-Jul-2020 18:45
Fluoranthene	0.000044	J	0.000010	0.00010	mg/L	1	25-Jul-2020 18:45
Fluorene	U		0.000030	0.00010	mg/L	1	25-Jul-2020 18:45
Naphthalene	0.000083	J	0.000020	0.00010	mg/L	1	25-Jul-2020 18:45
Nitrobenzene	U		0.000024	0.00020	mg/L	1	25-Jul-2020 18:45
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	25-Jul-2020 18:45
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	25-Jul-2020 18:45
Phenanthrene	0.000075	J	0.000021	0.00010	mg/L	1	25-Jul-2020 18:45
Phenol	U		0.000035	0.00020	mg/L	1	25-Jul-2020 18:45
Pyrene	0.000025	J	0.000019	0.00010	mg/L	1	25-Jul-2020 18:45
<i>Surr: 2,4,6-Tribromophenol</i>	<i>77.1</i>			<i>34-129</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 18:45</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>75.9</i>			<i>40-125</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 18:45</i>
<i>Surr: 2-Fluorophenol</i>	<i>60.5</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 18:45</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>109</i>			<i>40-135</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 18:45</i>
<i>Surr: Nitrobenzene-d5</i>	<i>81.4</i>			<i>41-120</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 18:45</i>
<i>Surr: Phenol-d6</i>	<i>69.1</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 18:45</i>
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 23-Jul-2020		Analyst: JHD	
Arsenic	0.00268		0.000400	0.00200	mg/L	1	24-Jul-2020 13:08

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW42B-20200716
 Collection Date: 16-Jul-2020 13:45

ANALYTICAL REPORT
 WorkOrder:HS20070774
 Lab ID:HS20070774-23
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	21-Jul-2020 07:21
Benzene	U		0.00020	0.0010	mg/L	1	21-Jul-2020 07:21
Chlorobenzene	U		0.00030	0.0010	mg/L	1	21-Jul-2020 07:21
Ethylbenzene	U		0.00030	0.0010	mg/L	1	21-Jul-2020 07:21
Methylene chloride	U		0.0010	0.0020	mg/L	1	21-Jul-2020 07:21
Toluene	U		0.00020	0.0010	mg/L	1	21-Jul-2020 07:21
Xylenes, Total	U		0.00030	0.0010	mg/L	1	21-Jul-2020 07:21
<i>Surr: 1,2-Dichloroethane-d4</i>		<i>101</i>		<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 07:21</i>
<i>Surr: 4-Bromofluorobenzene</i>		<i>99.8</i>		<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 07:21</i>
<i>Surr: Dibromofluoromethane</i>		<i>103</i>		<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 07:21</i>
<i>Surr: Toluene-d8</i>		<i>101</i>		<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 07:21</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW42B-20200716
 Collection Date: 16-Jul-2020 13:45

ANALYTICAL REPORT
 WorkOrder:HS20070774
 Lab ID:HS20070774-23
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 21-Jul-2020		Analyst: ACN	
1,2-Diphenylhydrazine		U	0.000021	0.00020	mg/L	1	25-Jul-2020 19:43
2,4-Dimethylphenol		U	0.000040	0.00020	mg/L	1	25-Jul-2020 19:43
2,4-Dinitrotoluene		U	0.000058	0.00020	mg/L	1	25-Jul-2020 19:43
2,6-Dinitrotoluene	0.000070		0.000042	0.00020	mg/L	1	25-Jul-2020 19:43
2-Chloronaphthalene	0.000025	J	0.000021	0.00020	mg/L	1	25-Jul-2020 19:43
2-Methylnaphthalene		U	0.000019	0.00010	mg/L	1	25-Jul-2020 19:43
4,6-Dinitro-2-methylphenol		U	0.000020	0.00020	mg/L	1	25-Jul-2020 19:43
4-Nitrophenol		U	0.000047	0.0010	mg/L	1	25-Jul-2020 19:43
Acenaphthene		U	0.000027	0.00010	mg/L	1	25-Jul-2020 19:43
Acenaphthylene		U	0.000015	0.00010	mg/L	1	25-Jul-2020 19:43
Anthracene	0.000026	J	0.000014	0.00010	mg/L	1	25-Jul-2020 19:43
Benz(a)anthracene		U	0.000050	0.00010	mg/L	1	25-Jul-2020 19:43
Benzo(a)pyrene	0.000027	J	0.000020	0.00010	mg/L	1	25-Jul-2020 19:43
Bis(2-chloroethoxy)methane		U	0.000030	0.00020	mg/L	1	25-Jul-2020 19:43
Bis(2-ethylhexyl)phthalate	0.00015	J	0.000037	0.00020	mg/L	1	25-Jul-2020 19:43
Chrysene	0.000022	J	0.000021	0.00010	mg/L	1	25-Jul-2020 19:43
Dibenzofuran		U	0.000020	0.00010	mg/L	1	25-Jul-2020 19:43
Di-n-butyl phthalate	0.000026	J	0.000020	0.00020	mg/L	1	25-Jul-2020 19:43
Fluoranthene	0.000053	J	0.000010	0.00010	mg/L	1	25-Jul-2020 19:43
Fluorene		U	0.000030	0.00010	mg/L	1	25-Jul-2020 19:43
Naphthalene	0.000031	J	0.000020	0.00010	mg/L	1	25-Jul-2020 19:43
Nitrobenzene		U	0.000024	0.00020	mg/L	1	25-Jul-2020 19:43
N-Nitrosodiphenylamine		U	0.000025	0.00020	mg/L	1	25-Jul-2020 19:43
Pentachlorophenol		U	0.000079	0.00020	mg/L	1	25-Jul-2020 19:43
Phenanthrene		U	0.000021	0.00010	mg/L	1	25-Jul-2020 19:43
Phenol		U	0.000035	0.00020	mg/L	1	25-Jul-2020 19:43
Pyrene	0.000059	J	0.000019	0.00010	mg/L	1	25-Jul-2020 19:43
<i>Surr: 2,4,6-Tribromophenol</i>	<i>72.1</i>			<i>34-129</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 19:43</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>67.5</i>			<i>40-125</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 19:43</i>
<i>Surr: 2-Fluorophenol</i>	<i>43.3</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 19:43</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>93.4</i>			<i>40-135</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 19:43</i>
<i>Surr: Nitrobenzene-d5</i>	<i>83.4</i>			<i>41-120</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 19:43</i>
<i>Surr: Phenol-d6</i>	<i>77.6</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 19:43</i>
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 23-Jul-2020		Analyst: JHD	
Arsenic	0.00127	J	0.000400	0.00200	mg/L	1	24-Jul-2020 15:04

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW40B-20200716
 Collection Date: 16-Jul-2020 14:45

ANALYTICAL REPORT
 WorkOrder:HS20070774
 Lab ID:HS20070774-24
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	21-Jul-2020 07:44
Benzene	0.010		0.00020	0.0010	mg/L	1	21-Jul-2020 07:44
Chlorobenzene	U		0.00030	0.0010	mg/L	1	21-Jul-2020 07:44
Ethylbenzene	0.086		0.00030	0.0010	mg/L	1	21-Jul-2020 07:44
Methylene chloride	U		0.0010	0.0020	mg/L	1	21-Jul-2020 07:44
Toluene	0.016		0.00020	0.0010	mg/L	1	21-Jul-2020 07:44
Xylenes, Total	0.12		0.00030	0.0010	mg/L	1	21-Jul-2020 07:44
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>99.7</i>			<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 07:44</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>103</i>			<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 07:44</i>
<i>Surr: Dibromofluoromethane</i>	<i>102</i>			<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 07:44</i>
<i>Surr: Toluene-d8</i>	<i>99.7</i>			<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 07:44</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW40B-20200716
 Collection Date: 16-Jul-2020 14:45

ANALYTICAL REPORT
 WorkOrder:HS20070774
 Lab ID:HS20070774-24
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 21-Jul-2020		Analyst: ACN	
1,2-Diphenylhydrazine	U		0.000021	0.00020	mg/L	1	25-Jul-2020 22:00
2,4-Dimethylphenol	U		0.000040	0.00020	mg/L	1	25-Jul-2020 22:00
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	25-Jul-2020 22:00
2,6-Dinitrotoluene	U		0.000042	0.00020	mg/L	1	25-Jul-2020 22:00
2-Chloronaphthalene	U		0.000021	0.00020	mg/L	1	25-Jul-2020 22:00
2-Methylnaphthalene	0.27		0.0019	0.010	mg/L	100	28-Jul-2020 14:16
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	25-Jul-2020 22:00
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	25-Jul-2020 22:00
Acenaphthene	0.27		0.0027	0.010	mg/L	100	28-Jul-2020 14:16
Acenaphthylene	0.0018		0.000015	0.00010	mg/L	1	25-Jul-2020 22:00
Anthracene	0.0080		0.00014	0.0010	mg/L	10	25-Jul-2020 22:19
Benz(a)anthracene	0.000069	J	0.000050	0.00010	mg/L	1	25-Jul-2020 22:00
Benzo(a)pyrene	U		0.000020	0.00010	mg/L	1	25-Jul-2020 22:00
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	25-Jul-2020 22:00
Bis(2-ethylhexyl)phthalate	0.000061	J	0.000037	0.00020	mg/L	1	25-Jul-2020 22:00
Chrysene	0.000051	J	0.000021	0.00010	mg/L	1	25-Jul-2020 22:00
Dibenzofuran	0.081		0.00020	0.0010	mg/L	10	25-Jul-2020 22:19
Di-n-butyl phthalate	0.000069	J	0.000020	0.00020	mg/L	1	25-Jul-2020 22:00
Fluoranthene	0.0055		0.000010	0.00010	mg/L	1	25-Jul-2020 22:00
Fluorene	0.078		0.00030	0.0010	mg/L	10	25-Jul-2020 22:19
Naphthalene	2.3		0.020	0.10	mg/L	1000	28-Jul-2020 12:39
Nitrobenzene	U		0.000024	0.00020	mg/L	1	25-Jul-2020 22:00
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	25-Jul-2020 22:00
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	25-Jul-2020 22:00
Phenanthrene	0.066		0.00021	0.0010	mg/L	10	25-Jul-2020 22:19
Phenol	U		0.000035	0.00020	mg/L	1	25-Jul-2020 22:00
Pyrene	0.0026		0.000019	0.00010	mg/L	1	25-Jul-2020 22:00
<i>Surr: 2,4,6-Tribromophenol</i>	<i>75.0</i>			<i>34-129</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 22:00</i>
<i>Surr: 2,4,6-Tribromophenol</i>	<i>0</i>	<i>JS</i>		<i>34-129</i>	<i>%REC</i>	<i>1000</i>	<i>28-Jul-2020 12:39</i>
<i>Surr: 2,4,6-Tribromophenol</i>	<i>0</i>	<i>JS</i>		<i>34-129</i>	<i>%REC</i>	<i>100</i>	<i>28-Jul-2020 14:16</i>
<i>Surr: 2,4,6-Tribromophenol</i>	<i>67.4</i>			<i>34-129</i>	<i>%REC</i>	<i>10</i>	<i>25-Jul-2020 22:19</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>66.2</i>			<i>40-125</i>	<i>%REC</i>	<i>10</i>	<i>25-Jul-2020 22:19</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>0</i>	<i>JS</i>		<i>40-125</i>	<i>%REC</i>	<i>100</i>	<i>28-Jul-2020 14:16</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>0</i>	<i>JS</i>		<i>40-125</i>	<i>%REC</i>	<i>1000</i>	<i>28-Jul-2020 12:39</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>77.8</i>			<i>40-125</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 22:00</i>
<i>Surr: 2-Fluorophenol</i>	<i>105</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 22:00</i>
<i>Surr: 2-Fluorophenol</i>	<i>0</i>	<i>JS</i>		<i>20-120</i>	<i>%REC</i>	<i>1000</i>	<i>28-Jul-2020 12:39</i>
<i>Surr: 2-Fluorophenol</i>	<i>0</i>	<i>JS</i>		<i>20-120</i>	<i>%REC</i>	<i>100</i>	<i>28-Jul-2020 14:16</i>
<i>Surr: 2-Fluorophenol</i>	<i>76.3</i>			<i>20-120</i>	<i>%REC</i>	<i>10</i>	<i>25-Jul-2020 22:19</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW40B-20200716
 Collection Date: 16-Jul-2020 14:45

ANALYTICAL REPORT
 WorkOrder:HS20070774
 Lab ID:HS20070774-24
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 21-Jul-2020		Analyst: ACN	
Surr: 4-Terphenyl-d14	75.6			40-135	%REC	10	25-Jul-2020 22:19
Surr: 4-Terphenyl-d14	0	JS		40-135	%REC	100	28-Jul-2020 14:16
Surr: 4-Terphenyl-d14	0	JS		40-135	%REC	1000	28-Jul-2020 12:39
Surr: 4-Terphenyl-d14	97.6			40-135	%REC	1	25-Jul-2020 22:00
Surr: Nitrobenzene-d5	89.7			41-120	%REC	1	25-Jul-2020 22:00
Surr: Nitrobenzene-d5	0	JS		41-120	%REC	1000	28-Jul-2020 12:39
Surr: Nitrobenzene-d5	0	JS		41-120	%REC	100	28-Jul-2020 14:16
Surr: Nitrobenzene-d5	75.3			41-120	%REC	10	25-Jul-2020 22:19
Surr: Phenol-d6	0	JS		20-120	%REC	100	28-Jul-2020 14:16
Surr: Phenol-d6	0	JS		20-120	%REC	1000	28-Jul-2020 12:39
Surr: Phenol-d6	81.3			20-120	%REC	1	25-Jul-2020 22:00
Surr: Phenol-d6	54.8			20-120	%REC	10	25-Jul-2020 22:19
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 23-Jul-2020		Analyst: JHD	
Arsenic	0.0442		0.000400	0.00200	mg/L	1	24-Jul-2020 15:06

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW39B-20200716
 Collection Date: 16-Jul-2020 15:40

ANALYTICAL REPORT
 WorkOrder:HS20070774
 Lab ID:HS20070774-25
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	21-Jul-2020 08:07
Benzene	U		0.00020	0.0010	mg/L	1	21-Jul-2020 08:07
Chlorobenzene	U		0.00030	0.0010	mg/L	1	21-Jul-2020 08:07
Ethylbenzene	0.00078	J	0.00030	0.0010	mg/L	1	21-Jul-2020 08:07
Methylene chloride	U		0.0010	0.0020	mg/L	1	21-Jul-2020 08:07
Toluene	0.00038	J	0.00020	0.0010	mg/L	1	21-Jul-2020 08:07
Xylenes, Total	0.0031		0.00030	0.0010	mg/L	1	21-Jul-2020 08:07
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>101</i>			<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 08:07</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>99.6</i>			<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 08:07</i>
<i>Surr: Dibromofluoromethane</i>	<i>102</i>			<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 08:07</i>
<i>Surr: Toluene-d8</i>	<i>101</i>			<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 08:07</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW39B-20200716
 Collection Date: 16-Jul-2020 15:40

ANALYTICAL REPORT
 WorkOrder:HS20070774
 Lab ID:HS20070774-25
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 21-Jul-2020		Analyst: ACN	
1,2-Diphenylhydrazine	U		0.000021	0.00020	mg/L	1	25-Jul-2020 14:51
2,4-Dimethylphenol	U		0.000040	0.00020	mg/L	1	25-Jul-2020 14:51
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	25-Jul-2020 14:51
2,6-Dinitrotoluene	U		0.000042	0.00020	mg/L	1	25-Jul-2020 14:51
2-Chloronaphthalene	0.000090	J	0.000021	0.00020	mg/L	1	25-Jul-2020 14:51
2-Methylnaphthalene	0.000067	J	0.000019	0.00010	mg/L	1	25-Jul-2020 14:51
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	25-Jul-2020 14:51
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	25-Jul-2020 14:51
Acenaphthene	0.024		0.00014	0.00050	mg/L	5	28-Jul-2020 12:58
Acenaphthylene	0.00015		0.000015	0.00010	mg/L	1	25-Jul-2020 14:51
Anthracene	0.00063		0.000014	0.00010	mg/L	1	25-Jul-2020 14:51
Benz(a)anthracene	U		0.000050	0.00010	mg/L	1	25-Jul-2020 14:51
Benzo(a)pyrene	U		0.000020	0.00010	mg/L	1	25-Jul-2020 14:51
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	25-Jul-2020 14:51
Bis(2-ethylhexyl)phthalate	0.000071	J	0.000037	0.00020	mg/L	1	25-Jul-2020 14:51
Chrysene	0.000028	J	0.000021	0.00010	mg/L	1	25-Jul-2020 14:51
Dibenzofuran	0.00011		0.000020	0.00010	mg/L	1	25-Jul-2020 14:51
Di-n-butyl phthalate	U		0.000020	0.00020	mg/L	1	25-Jul-2020 14:51
Fluoranthene	0.0013		0.000010	0.00010	mg/L	1	25-Jul-2020 14:51
Fluorene	0.0014		0.000030	0.00010	mg/L	1	25-Jul-2020 14:51
Naphthalene	0.0011		0.000020	0.00010	mg/L	1	25-Jul-2020 14:51
Nitrobenzene	U		0.000024	0.00020	mg/L	1	25-Jul-2020 14:51
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	25-Jul-2020 14:51
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	25-Jul-2020 14:51
Phenanthrene	0.000047	J	0.000021	0.00010	mg/L	1	25-Jul-2020 14:51
Phenol	U		0.000035	0.00020	mg/L	1	25-Jul-2020 14:51
Pyrene	0.00095		0.000019	0.00010	mg/L	1	25-Jul-2020 14:51
<i>Surr: 2,4,6-Tribromophenol</i>	<i>126</i>			<i>34-129</i>	<i>%REC</i>	<i>5</i>	<i>28-Jul-2020 12:58</i>
<i>Surr: 2,4,6-Tribromophenol</i>	<i>91.6</i>			<i>34-129</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 14:51</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>76.7</i>			<i>40-125</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 14:51</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>87.8</i>			<i>40-125</i>	<i>%REC</i>	<i>5</i>	<i>28-Jul-2020 12:58</i>
<i>Surr: 2-Fluorophenol</i>	<i>81.8</i>			<i>20-120</i>	<i>%REC</i>	<i>5</i>	<i>28-Jul-2020 12:58</i>
<i>Surr: 2-Fluorophenol</i>	<i>58.8</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 14:51</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>91.0</i>			<i>40-135</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 14:51</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>120</i>			<i>40-135</i>	<i>%REC</i>	<i>5</i>	<i>28-Jul-2020 12:58</i>
<i>Surr: Nitrobenzene-d5</i>	<i>80.1</i>			<i>41-120</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 14:51</i>
<i>Surr: Nitrobenzene-d5</i>	<i>97.6</i>			<i>41-120</i>	<i>%REC</i>	<i>5</i>	<i>28-Jul-2020 12:58</i>
<i>Surr: Phenol-d6</i>	<i>120</i>			<i>20-120</i>	<i>%REC</i>	<i>5</i>	<i>28-Jul-2020 12:58</i>
<i>Surr: Phenol-d6</i>	<i>94.1</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 14:51</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW39B-20200716
 Collection Date: 16-Jul-2020 15:40

ANALYTICAL REPORT

WorkOrder:HS20070774
 Lab ID:HS20070774-25
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020			Prep:SW3010A / 23-Jul-2020		Analyst: JHD
Arsenic	0.0489		0.000400	0.00200	mg/L	1	24-Jul-2020 15:08

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-DUP01-20200716
 Collection Date: 16-Jul-2020 00:00

ANALYTICAL REPORT
 WorkOrder:HS20070774
 Lab ID:HS20070774-26
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	21-Jul-2020 08:30
Benzene	U		0.00020	0.0010	mg/L	1	21-Jul-2020 08:30
Chlorobenzene	U		0.00030	0.0010	mg/L	1	21-Jul-2020 08:30
Ethylbenzene	U		0.00030	0.0010	mg/L	1	21-Jul-2020 08:30
Methylene chloride	U		0.0010	0.0020	mg/L	1	21-Jul-2020 08:30
Toluene	U		0.00020	0.0010	mg/L	1	21-Jul-2020 08:30
Xylenes, Total	U		0.00030	0.0010	mg/L	1	21-Jul-2020 08:30
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>101</i>			<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 08:30</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>100</i>			<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 08:30</i>
<i>Surr: Dibromofluoromethane</i>	<i>103</i>			<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 08:30</i>
<i>Surr: Toluene-d8</i>	<i>102</i>			<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 08:30</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-DUP01-20200716
 Collection Date: 16-Jul-2020 00:00

ANALYTICAL REPORT
 WorkOrder:HS20070774
 Lab ID:HS20070774-26
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 21-Jul-2020		Analyst: ACN	
1,2-Diphenylhydrazine	U		0.000021	0.00020	mg/L	1	25-Jul-2020 12:14
2,4-Dimethylphenol	U		0.000040	0.00020	mg/L	1	25-Jul-2020 12:14
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	25-Jul-2020 12:14
2,6-Dinitrotoluene	U		0.000042	0.00020	mg/L	1	25-Jul-2020 12:14
2-Chloronaphthalene	U		0.000021	0.00020	mg/L	1	25-Jul-2020 12:14
2-Methylnaphthalene	0.000046	J	0.000019	0.00010	mg/L	1	25-Jul-2020 12:14
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	25-Jul-2020 12:14
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	25-Jul-2020 12:14
Acenaphthene	0.000061		0.000027	0.00010	mg/L	1	25-Jul-2020 12:14
Acenaphthylene	U		0.000015	0.00010	mg/L	1	25-Jul-2020 12:14
Anthracene	0.000034	J	0.000014	0.00010	mg/L	1	25-Jul-2020 12:14
Benz(a)anthracene	U		0.000050	0.00010	mg/L	1	25-Jul-2020 12:14
Benzo(a)pyrene	U		0.000020	0.00010	mg/L	1	25-Jul-2020 12:14
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	25-Jul-2020 12:14
Bis(2-ethylhexyl)phthalate	0.000087	J	0.000037	0.00020	mg/L	1	25-Jul-2020 12:14
Chrysene	U		0.000021	0.00010	mg/L	1	25-Jul-2020 12:14
Dibenzofuran	U		0.000020	0.00010	mg/L	1	25-Jul-2020 12:14
Di-n-butyl phthalate	0.000033	J	0.000020	0.00020	mg/L	1	25-Jul-2020 12:14
Fluoranthene	0.000067	J	0.000010	0.00010	mg/L	1	25-Jul-2020 12:14
Fluorene	0.000060	J	0.000030	0.00010	mg/L	1	25-Jul-2020 12:14
Naphthalene	0.00016		0.000020	0.00010	mg/L	1	25-Jul-2020 12:14
Nitrobenzene	U		0.000024	0.00020	mg/L	1	25-Jul-2020 12:14
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	25-Jul-2020 12:14
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	25-Jul-2020 12:14
Phenanthrene	0.000026	J	0.000021	0.00010	mg/L	1	25-Jul-2020 12:14
Phenol	U		0.000035	0.00020	mg/L	1	25-Jul-2020 12:14
Pyrene	0.000044	J	0.000019	0.00010	mg/L	1	25-Jul-2020 12:14
<i>Surr: 2,4,6-Tribromophenol</i>	<i>75.0</i>			<i>34-129</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 12:14</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>68.7</i>			<i>40-125</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 12:14</i>
<i>Surr: 2-Fluorophenol</i>	<i>57.0</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 12:14</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>101</i>			<i>40-135</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 12:14</i>
<i>Surr: Nitrobenzene-d5</i>	<i>72.5</i>			<i>41-120</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 12:14</i>
<i>Surr: Phenol-d6</i>	<i>85.6</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 12:14</i>
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 23-Jul-2020		Analyst: JHD	
Arsenic	0.000910	J	0.000400	0.00200	mg/L	1	24-Jul-2020 15:10

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-FB03-20200716
 Collection Date: 16-Jul-2020 16:00

ANALYTICAL REPORT
 WorkOrder:HS20070774
 Lab ID:HS20070774-27
 Matrix:Water

ANALYSES	RESULT	QUAL	SDL	SQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	21-Jul-2020 12:40
Benzene	U		0.00020	0.0010	mg/L	1	21-Jul-2020 12:40
Chlorobenzene	U		0.00030	0.0010	mg/L	1	21-Jul-2020 12:40
Ethylbenzene	U		0.00030	0.0010	mg/L	1	21-Jul-2020 12:40
Methylene chloride	U		0.0010	0.0020	mg/L	1	21-Jul-2020 12:40
Toluene	U		0.00020	0.0010	mg/L	1	21-Jul-2020 12:40
Vinyl chloride	U		0.00020	0.0010	mg/L	1	21-Jul-2020 12:40
Xylenes, Total	U		0.00030	0.0010	mg/L	1	21-Jul-2020 12:40
<i>Surr: 1,2-Dichloroethane-d4</i>		<i>101</i>		<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 12:40</i>
<i>Surr: 4-Bromofluorobenzene</i>		<i>99.0</i>		<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 12:40</i>
<i>Surr: Dibromofluoromethane</i>		<i>102</i>		<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 12:40</i>
<i>Surr: Toluene-d8</i>		<i>102</i>		<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 12:40</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-FB03-20200716
 Collection Date: 16-Jul-2020 16:00

ANALYTICAL REPORT
 WorkOrder:HS20070774
 Lab ID:HS20070774-27
 Matrix:Water

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 21-Jul-2020		Analyst: ACN	
1,2-Diphenylhydrazine	U		0.000021	0.00020	mg/L	1	25-Jul-2020 15:10
2,4-Dimethylphenol	U		0.000040	0.00020	mg/L	1	25-Jul-2020 15:10
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	25-Jul-2020 15:10
2,6-Dinitrotoluene	U		0.000042	0.00020	mg/L	1	25-Jul-2020 15:10
2-Chloronaphthalene	U		0.000021	0.00020	mg/L	1	25-Jul-2020 15:10
2-Methylnaphthalene	0.000036	J	0.000019	0.00010	mg/L	1	25-Jul-2020 15:10
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	25-Jul-2020 15:10
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	25-Jul-2020 15:10
Acenaphthene	0.000062	J	0.000027	0.00010	mg/L	1	25-Jul-2020 15:10
Acenaphthylene	U		0.000015	0.00010	mg/L	1	25-Jul-2020 15:10
Anthracene	U		0.000014	0.00010	mg/L	1	25-Jul-2020 15:10
Benz(a)anthracene	U		0.000050	0.00010	mg/L	1	25-Jul-2020 15:10
Benzo(a)pyrene	U		0.000020	0.00010	mg/L	1	25-Jul-2020 15:10
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	25-Jul-2020 15:10
Bis(2-ethylhexyl)phthalate	0.000068	J	0.000037	0.00020	mg/L	1	25-Jul-2020 15:10
Chrysene	U		0.000021	0.00010	mg/L	1	25-Jul-2020 15:10
Dibenzofuran	0.000061	J	0.000020	0.00010	mg/L	1	25-Jul-2020 15:10
Di-n-butyl phthalate	0.000020	J	0.000020	0.00020	mg/L	1	25-Jul-2020 15:10
Fluoranthene	0.000018	J	0.000010	0.00010	mg/L	1	25-Jul-2020 15:10
Fluorene	0.000072	J	0.000030	0.00010	mg/L	1	25-Jul-2020 15:10
Naphthalene	0.00023		0.000020	0.00010	mg/L	1	25-Jul-2020 15:10
Nitrobenzene	U		0.000024	0.00020	mg/L	1	25-Jul-2020 15:10
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	25-Jul-2020 15:10
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	25-Jul-2020 15:10
Phenanthrene	0.00018		0.000021	0.00010	mg/L	1	25-Jul-2020 15:10
Phenol	U		0.000035	0.00020	mg/L	1	25-Jul-2020 15:10
Pyrene	U		0.000019	0.00010	mg/L	1	25-Jul-2020 15:10
<i>Surr: 2,4,6-Tribromophenol</i>	<i>82.1</i>			<i>34-129</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 15:10</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>75.6</i>			<i>40-125</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 15:10</i>
<i>Surr: 2-Fluorophenol</i>	<i>47.7</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 15:10</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>99.3</i>			<i>40-135</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 15:10</i>
<i>Surr: Nitrobenzene-d5</i>	<i>79.2</i>			<i>41-120</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 15:10</i>
<i>Surr: Phenol-d6</i>	<i>77.1</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 15:10</i>
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 23-Jul-2020		Analyst: JHD	
Arsenic	U		0.000400	0.00200	mg/L	1	24-Jul-2020 15:14

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-TW41B-20200717
 Collection Date: 17-Jul-2020 09:00

ANALYTICAL REPORT
 WorkOrder:HS20070774
 Lab ID:HS20070774-28
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	21-Jul-2020 13:28
Benzene	0.0017		0.00020	0.0010	mg/L	1	21-Jul-2020 13:28
Chlorobenzene	U		0.00030	0.0010	mg/L	1	21-Jul-2020 13:28
Ethylbenzene	0.0015		0.00030	0.0010	mg/L	1	21-Jul-2020 13:28
Methylene chloride	U		0.0010	0.0020	mg/L	1	21-Jul-2020 13:28
Toluene	0.0016		0.00020	0.0010	mg/L	1	21-Jul-2020 13:28
Xylenes, Total	0.021		0.00030	0.0010	mg/L	1	21-Jul-2020 13:28
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>100</i>			<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 13:28</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>102</i>			<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 13:28</i>
<i>Surr: Dibromofluoromethane</i>	<i>101</i>			<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 13:28</i>
<i>Surr: Toluene-d8</i>	<i>101</i>			<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 13:28</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-TW41B-20200717
 Collection Date: 17-Jul-2020 09:00

ANALYTICAL REPORT
 WorkOrder:HS20070774
 Lab ID:HS20070774-28
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 21-Jul-2020		Analyst: ACN	
1,2-Diphenylhydrazine	U		0.000021	0.00020	mg/L	1	25-Jul-2020 21:21
2,4-Dimethylphenol	U		0.000040	0.00020	mg/L	1	25-Jul-2020 21:21
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	25-Jul-2020 21:21
2,6-Dinitrotoluene	U		0.000042	0.00020	mg/L	1	25-Jul-2020 21:21
2-Chloronaphthalene	U		0.000021	0.00020	mg/L	1	25-Jul-2020 21:21
2-Methylnaphthalene	0.029		0.00019	0.0010	mg/L	10	25-Jul-2020 21:40
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	25-Jul-2020 21:21
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	25-Jul-2020 21:21
Acenaphthene	0.065		0.00027	0.0010	mg/L	10	25-Jul-2020 21:40
Acenaphthylene	0.0011		0.000015	0.00010	mg/L	1	25-Jul-2020 21:21
Anthracene	0.0039		0.000014	0.00010	mg/L	1	25-Jul-2020 21:21
Benz(a)anthracene	U		0.000050	0.00010	mg/L	1	25-Jul-2020 21:21
Benzo(a)pyrene	U		0.000020	0.00010	mg/L	1	25-Jul-2020 21:21
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	25-Jul-2020 21:21
Bis(2-ethylhexyl)phthalate	U		0.000037	0.00020	mg/L	1	25-Jul-2020 21:21
Chrysene	U		0.000021	0.00010	mg/L	1	25-Jul-2020 21:21
Dibenzofuran	0.034		0.00020	0.0010	mg/L	10	25-Jul-2020 21:40
Di-n-butyl phthalate	U		0.000020	0.00020	mg/L	1	25-Jul-2020 21:21
Fluoranthene	0.0025		0.000010	0.00010	mg/L	1	25-Jul-2020 21:21
Fluorene	0.044		0.00030	0.0010	mg/L	10	25-Jul-2020 21:40
Naphthalene	0.60		0.0020	0.010	mg/L	100	28-Jul-2020 15:15
Nitrobenzene	U		0.000024	0.00020	mg/L	1	25-Jul-2020 21:21
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	25-Jul-2020 21:21
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	25-Jul-2020 21:21
Phenanthrene	0.018		0.00021	0.0010	mg/L	10	25-Jul-2020 21:40
Phenol	U		0.000035	0.00020	mg/L	1	25-Jul-2020 21:21
Pyrene	0.0011		0.000019	0.00010	mg/L	1	25-Jul-2020 21:21
Surr: 2,4,6-Tribromophenol	0	JS		34-129	%REC	100	28-Jul-2020 15:15
Surr: 2,4,6-Tribromophenol	72.1			34-129	%REC	10	25-Jul-2020 21:40
Surr: 2,4,6-Tribromophenol	89.3			34-129	%REC	1	25-Jul-2020 21:21
Surr: 2-Fluorobiphenyl	58.3			40-125	%REC	1	25-Jul-2020 21:21
Surr: 2-Fluorobiphenyl	45.8			40-125	%REC	10	25-Jul-2020 21:40
Surr: 2-Fluorobiphenyl	0	JS		40-125	%REC	100	28-Jul-2020 15:15
Surr: 2-Fluorophenol	0	JS		20-120	%REC	100	28-Jul-2020 15:15
Surr: 2-Fluorophenol	40.2			20-120	%REC	10	25-Jul-2020 21:40
Surr: 2-Fluorophenol	45.6			20-120	%REC	1	25-Jul-2020 21:21
Surr: 4-Terphenyl-d14	93.9			40-135	%REC	1	25-Jul-2020 21:21
Surr: 4-Terphenyl-d14	80.8			40-135	%REC	10	25-Jul-2020 21:40
Surr: 4-Terphenyl-d14	0	JS		40-135	%REC	100	28-Jul-2020 15:15

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-TW41B-20200717
 Collection Date: 17-Jul-2020 09:00

ANALYTICAL REPORT
 WorkOrder:HS20070774
 Lab ID:HS20070774-28
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 21-Jul-2020		Analyst: ACN	
Surr: Nitrobenzene-d5	0	JS		41-120	%REC	100	28-Jul-2020 15:15
Surr: Nitrobenzene-d5	59.0			41-120	%REC	1	25-Jul-2020 21:21
Surr: Nitrobenzene-d5	49.4			41-120	%REC	10	25-Jul-2020 21:40
Surr: Phenol-d6	53.5			20-120	%REC	1	25-Jul-2020 21:21
Surr: Phenol-d6	41.6			20-120	%REC	10	25-Jul-2020 21:40
Surr: Phenol-d6	0	JS		20-120	%REC	100	28-Jul-2020 15:15
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 23-Jul-2020		Analyst: JHD	
Arsenic	0.0883		0.000400	0.00200	mg/L	1	24-Jul-2020 15:25

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW12A-20200717
 Collection Date: 17-Jul-2020 10:10

ANALYTICAL REPORT
 WorkOrder:HS20070774
 Lab ID:HS20070774-29
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	21-Jul-2020 13:52
Benzene	U		0.00020	0.0010	mg/L	1	21-Jul-2020 13:52
Chlorobenzene	U		0.00030	0.0010	mg/L	1	21-Jul-2020 13:52
Ethylbenzene	U		0.00030	0.0010	mg/L	1	21-Jul-2020 13:52
Methylene chloride	U		0.0010	0.0020	mg/L	1	21-Jul-2020 13:52
Toluene	U		0.00020	0.0010	mg/L	1	21-Jul-2020 13:52
Xylenes, Total	U		0.00030	0.0010	mg/L	1	21-Jul-2020 13:52
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>101</i>			<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 13:52</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>101</i>			<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 13:52</i>
<i>Surr: Dibromofluoromethane</i>	<i>102</i>			<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 13:52</i>
<i>Surr: Toluene-d8</i>	<i>100</i>			<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 13:52</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW12A-20200717
 Collection Date: 17-Jul-2020 10:10

ANALYTICAL REPORT
 WorkOrder:HS20070774
 Lab ID:HS20070774-29
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 21-Jul-2020		Analyst: ACN	
1,2-Diphenylhydrazine		U	0.000021	0.00020	mg/L	1	25-Jul-2020 20:03
2,4-Dimethylphenol		U	0.000040	0.00020	mg/L	1	25-Jul-2020 20:03
2,4-Dinitrotoluene		U	0.000058	0.00020	mg/L	1	25-Jul-2020 20:03
2,6-Dinitrotoluene		U	0.000042	0.00020	mg/L	1	25-Jul-2020 20:03
2-Chloronaphthalene		U	0.000021	0.00020	mg/L	1	25-Jul-2020 20:03
2-Methylnaphthalene	0.012		0.00019	0.0010	mg/L	10	25-Jul-2020 20:22
4,6-Dinitro-2-methylphenol		U	0.000020	0.00020	mg/L	1	25-Jul-2020 20:03
4-Nitrophenol		U	0.000047	0.0010	mg/L	1	25-Jul-2020 20:03
Acenaphthene	0.093		0.00027	0.0010	mg/L	10	25-Jul-2020 20:22
Acenaphthylene	0.00096		0.000015	0.00010	mg/L	1	25-Jul-2020 20:03
Anthracene	0.0076		0.000014	0.00010	mg/L	1	25-Jul-2020 20:03
Benz(a)anthracene	0.00015		0.000050	0.00010	mg/L	1	25-Jul-2020 20:03
Benzo(a)pyrene	0.000051	J	0.000020	0.00010	mg/L	1	25-Jul-2020 20:03
Bis(2-chloroethoxy)methane		U	0.000030	0.00020	mg/L	1	25-Jul-2020 20:03
Bis(2-ethylhexyl)phthalate	0.00013	J	0.000037	0.00020	mg/L	1	25-Jul-2020 20:03
Chrysene	0.00015		0.000021	0.00010	mg/L	1	25-Jul-2020 20:03
Dibenzofuran	0.064		0.00020	0.0010	mg/L	10	25-Jul-2020 20:22
Di-n-butyl phthalate	0.000042	J	0.000020	0.00020	mg/L	1	25-Jul-2020 20:03
Fluoranthene	0.0089		0.000010	0.00010	mg/L	1	25-Jul-2020 20:03
Fluorene	0.078		0.00030	0.0010	mg/L	10	25-Jul-2020 20:22
Naphthalene	0.00048		0.000020	0.00010	mg/L	1	25-Jul-2020 20:03
Nitrobenzene		U	0.000024	0.00020	mg/L	1	25-Jul-2020 20:03
N-Nitrosodiphenylamine		U	0.000025	0.00020	mg/L	1	25-Jul-2020 20:03
Pentachlorophenol		U	0.000079	0.00020	mg/L	1	25-Jul-2020 20:03
Phenanthrene	0.041		0.00021	0.0010	mg/L	10	25-Jul-2020 20:22
Phenol		U	0.000035	0.00020	mg/L	1	25-Jul-2020 20:03
Pyrene	0.0044		0.000019	0.00010	mg/L	1	25-Jul-2020 20:03
<i>Surr: 2,4,6-Tribromophenol</i>	<i>56.2</i>			<i>34-129</i>	<i>%REC</i>	<i>10</i>	<i>25-Jul-2020 20:22</i>
<i>Surr: 2,4,6-Tribromophenol</i>	<i>78.8</i>			<i>34-129</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 20:03</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>61.4</i>			<i>40-125</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 20:03</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>60.7</i>			<i>40-125</i>	<i>%REC</i>	<i>10</i>	<i>25-Jul-2020 20:22</i>
<i>Surr: 2-Fluorophenol</i>	<i>47.6</i>			<i>20-120</i>	<i>%REC</i>	<i>10</i>	<i>25-Jul-2020 20:22</i>
<i>Surr: 2-Fluorophenol</i>	<i>58.8</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 20:03</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>101</i>			<i>40-135</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 20:03</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>100</i>			<i>40-135</i>	<i>%REC</i>	<i>10</i>	<i>25-Jul-2020 20:22</i>
<i>Surr: Nitrobenzene-d5</i>	<i>69.8</i>			<i>41-120</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 20:03</i>
<i>Surr: Nitrobenzene-d5</i>	<i>60.7</i>			<i>41-120</i>	<i>%REC</i>	<i>10</i>	<i>25-Jul-2020 20:22</i>
<i>Surr: Phenol-d6</i>	<i>65.4</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 20:03</i>
<i>Surr: Phenol-d6</i>	<i>52.2</i>			<i>20-120</i>	<i>%REC</i>	<i>10</i>	<i>25-Jul-2020 20:22</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW12A-20200717
 Collection Date: 17-Jul-2020 10:10

ANALYTICAL REPORT

WorkOrder:HS20070774
 Lab ID:HS20070774-29
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020			Prep:SW3010A / 23-Jul-2020		Analyst: JHD
Arsenic	U		0.000400	0.00200	mg/L	1	24-Jul-2020 15:27

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW12C-20200717
 Collection Date: 17-Jul-2020 10:40

ANALYTICAL REPORT
 WorkOrder:HS20070774
 Lab ID:HS20070774-30
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	21-Jul-2020 14:16
Benzene	U		0.00020	0.0010	mg/L	1	21-Jul-2020 14:16
Chlorobenzene	U		0.00030	0.0010	mg/L	1	21-Jul-2020 14:16
Ethylbenzene	U		0.00030	0.0010	mg/L	1	21-Jul-2020 14:16
Methylene chloride	U		0.0010	0.0020	mg/L	1	21-Jul-2020 14:16
Toluene	U		0.00020	0.0010	mg/L	1	21-Jul-2020 14:16
Xylenes, Total	U		0.00030	0.0010	mg/L	1	21-Jul-2020 14:16
<i>Surr: 1,2-Dichloroethane-d4</i>		<i>102</i>		<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 14:16</i>
<i>Surr: 4-Bromofluorobenzene</i>		<i>99.3</i>		<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 14:16</i>
<i>Surr: Dibromofluoromethane</i>		<i>103</i>		<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 14:16</i>
<i>Surr: Toluene-d8</i>		<i>100</i>		<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>21-Jul-2020 14:16</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW12C-20200717
 Collection Date: 17-Jul-2020 10:40

ANALYTICAL REPORT
 WorkOrder:HS20070774
 Lab ID:HS20070774-30
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 21-Jul-2020		Analyst: ACN	
1,2-Diphenylhydrazine	U		0.000021	0.00020	mg/L	1	25-Jul-2020 15:30
2,4-Dimethylphenol	U		0.000040	0.00020	mg/L	1	25-Jul-2020 15:30
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	25-Jul-2020 15:30
2,6-Dinitrotoluene	U		0.000042	0.00020	mg/L	1	25-Jul-2020 15:30
2-Chloronaphthalene	0.000029	J	0.000021	0.00020	mg/L	1	25-Jul-2020 15:30
2-Methylnaphthalene	0.000052	J	0.000019	0.00010	mg/L	1	25-Jul-2020 15:30
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	25-Jul-2020 15:30
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	25-Jul-2020 15:30
Acenaphthene	0.000070	J	0.000027	0.00010	mg/L	1	25-Jul-2020 15:30
Acenaphthylene	U		0.000015	0.00010	mg/L	1	25-Jul-2020 15:30
Anthracene	0.000019	J	0.000014	0.00010	mg/L	1	25-Jul-2020 15:30
Benz(a)anthracene	U		0.000050	0.00010	mg/L	1	25-Jul-2020 15:30
Benzo(a)pyrene	U		0.000020	0.00010	mg/L	1	25-Jul-2020 15:30
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	25-Jul-2020 15:30
Bis(2-ethylhexyl)phthalate	0.000053	J	0.000037	0.00020	mg/L	1	25-Jul-2020 15:30
Chrysene	U		0.000021	0.00010	mg/L	1	25-Jul-2020 15:30
Dibenzofuran	0.000041	J	0.000020	0.00010	mg/L	1	25-Jul-2020 15:30
Di-n-butyl phthalate	0.000021	J	0.000020	0.00020	mg/L	1	25-Jul-2020 15:30
Fluoranthene	0.000021	J	0.000010	0.00010	mg/L	1	25-Jul-2020 15:30
Fluorene	U		0.000030	0.00010	mg/L	1	25-Jul-2020 15:30
Naphthalene	0.00023		0.000020	0.00010	mg/L	1	25-Jul-2020 15:30
Nitrobenzene	U		0.000024	0.00020	mg/L	1	25-Jul-2020 15:30
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	25-Jul-2020 15:30
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	25-Jul-2020 15:30
Phenanthrene	0.000037	J	0.000021	0.00010	mg/L	1	25-Jul-2020 15:30
Phenol	0.000042	J	0.000035	0.00020	mg/L	1	25-Jul-2020 15:30
Pyrene	U		0.000019	0.00010	mg/L	1	25-Jul-2020 15:30
<i>Surr: 2,4,6-Tribromophenol</i>	69.5			34-129	%REC	1	25-Jul-2020 15:30
<i>Surr: 2-Fluorobiphenyl</i>	59.4			40-125	%REC	1	25-Jul-2020 15:30
<i>Surr: 2-Fluorophenol</i>	40.4			20-120	%REC	1	25-Jul-2020 15:30
<i>Surr: 4-Terphenyl-d14</i>	88.7			40-135	%REC	1	25-Jul-2020 15:30
<i>Surr: Nitrobenzene-d5</i>	66.5			41-120	%REC	1	25-Jul-2020 15:30
<i>Surr: Phenol-d6</i>	62.6			20-120	%REC	1	25-Jul-2020 15:30
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 23-Jul-2020		Analyst: JHD	
Arsenic	0.00171	J	0.000400	0.00200	mg/L	1	24-Jul-2020 21:08

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-FB04-20200717
 Collection Date: 17-Jul-2020 11:30

ANALYTICAL REPORT
 WorkOrder:HS20070774
 Lab ID:HS20070774-31
 Matrix:Water

ANALYSES	RESULT	QUAL	SDL	MLL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	21-Jul-2020 13:04
Benzene	U		0.00020	0.0010	mg/L	1	21-Jul-2020 13:04
Chlorobenzene	U		0.00030	0.0010	mg/L	1	21-Jul-2020 13:04
Ethylbenzene	U		0.00030	0.0010	mg/L	1	21-Jul-2020 13:04
Methylene chloride	U		0.0010	0.0020	mg/L	1	21-Jul-2020 13:04
Toluene	U		0.00020	0.0010	mg/L	1	21-Jul-2020 13:04
Vinyl chloride	U		0.00020	0.0010	mg/L	1	21-Jul-2020 13:04
Xylenes, Total	U		0.00030	0.0010	mg/L	1	21-Jul-2020 13:04
<i>Surr: 1,2-Dichloroethane-d4</i>		101		70-126	%REC	1	21-Jul-2020 13:04
<i>Surr: 4-Bromofluorobenzene</i>		99.7		81-113	%REC	1	21-Jul-2020 13:04
<i>Surr: Dibromofluoromethane</i>		102		77-123	%REC	1	21-Jul-2020 13:04
<i>Surr: Toluene-d8</i>		103		82-127	%REC	1	21-Jul-2020 13:04

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-FB04-20200717
 Collection Date: 17-Jul-2020 11:30

ANALYTICAL REPORT
 WorkOrder:HS20070774
 Lab ID:HS20070774-31
 Matrix:Water

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D			Method:SW8270		Prep:SW3510 / 21-Jul-2020		Analyst: ACN
1,2-Diphenylhydrazine	0.000063	J	0.000021	0.00020	mg/L	1	25-Jul-2020 15:49
2,4-Dimethylphenol	U		0.000040	0.00020	mg/L	1	25-Jul-2020 15:49
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	25-Jul-2020 15:49
2,6-Dinitrotoluene	0.000091	J	0.000042	0.00020	mg/L	1	25-Jul-2020 15:49
2-Chloronaphthalene	U		0.000021	0.00020	mg/L	1	25-Jul-2020 15:49
2-Methylnaphthalene	U		0.000019	0.00010	mg/L	1	25-Jul-2020 15:49
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	25-Jul-2020 15:49
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	25-Jul-2020 15:49
Acenaphthene	U		0.000027	0.00010	mg/L	1	25-Jul-2020 15:49
Acenaphthylene	U		0.000015	0.00010	mg/L	1	25-Jul-2020 15:49
Anthracene	U		0.000014	0.00010	mg/L	1	25-Jul-2020 15:49
Benz(a)anthracene	U		0.000050	0.00010	mg/L	1	25-Jul-2020 15:49
Benzo(a)pyrene	U		0.000020	0.00010	mg/L	1	25-Jul-2020 15:49
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	25-Jul-2020 15:49
Bis(2-ethylhexyl)phthalate	0.000040	J	0.000037	0.00020	mg/L	1	25-Jul-2020 15:49
Chrysene	U		0.000021	0.00010	mg/L	1	25-Jul-2020 15:49
Dibenzofuran	U		0.000020	0.00010	mg/L	1	25-Jul-2020 15:49
Di-n-butyl phthalate	0.000025	J	0.000020	0.00020	mg/L	1	25-Jul-2020 15:49
Fluoranthene	0.000011	J	0.000010	0.00010	mg/L	1	25-Jul-2020 15:49
Fluorene	U		0.000030	0.00010	mg/L	1	25-Jul-2020 15:49
Naphthalene	0.000073	J	0.000020	0.00010	mg/L	1	25-Jul-2020 15:49
Nitrobenzene	U		0.000024	0.00020	mg/L	1	25-Jul-2020 15:49
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	25-Jul-2020 15:49
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	25-Jul-2020 15:49
Phenanthrene	U		0.000021	0.00010	mg/L	1	25-Jul-2020 15:49
Phenol	U		0.000035	0.00020	mg/L	1	25-Jul-2020 15:49
Pyrene	U		0.000019	0.00010	mg/L	1	25-Jul-2020 15:49
<i>Surr: 2,4,6-Tribromophenol</i>	<i>69.5</i>			<i>34-129</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 15:49</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>70.8</i>			<i>40-125</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 15:49</i>
<i>Surr: 2-Fluorophenol</i>	<i>54.9</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 15:49</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>101</i>			<i>40-135</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 15:49</i>
<i>Surr: Nitrobenzene-d5</i>	<i>86.8</i>			<i>41-120</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 15:49</i>
<i>Surr: Phenol-d6</i>	<i>80.0</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 15:49</i>
ICP-MS METALS BY SW6020A			Method:SW6020		Prep:SW3010A / 23-Jul-2020		Analyst: JHD
Arsenic	U		0.000400	0.00200	mg/L	1	24-Jul-2020 21:10

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Weight / Prep Log

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20070774

Batch ID: 155547 **Start Date:** 20 Jul 2020 07:00 **End Date:** 20 Jul 2020 12:30
Method: SV AQ SEP FUN EXTRACT-LOWLEV - 3510C **Prep Code:** 3510_B_LOW

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS20070774-02	1	1000 (mL)	1 (mL)	0.001
HS20070774-03	1	1000 (mL)	1 (mL)	0.001
HS20070774-04	1	1000 (mL)	1 (mL)	0.001
HS20070774-05	1	1000 (mL)	1 (mL)	0.001
HS20070774-06	1	1000 (mL)	1 (mL)	0.001

Batch ID: 155565 **Start Date:** 20 Jul 2020 09:30 **End Date:** 20 Jul 2020 14:00
Method: SV AQ SEP FUN EXTRACT-LOWLEV - 3510C **Prep Code:** 3510_B_LOW

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS20070774-07	1	1000 (mL)	1 (mL)	0.001
HS20070774-08	1	1000 (mL)	1 (mL)	0.001
HS20070774-09	1	1000 (mL)	1 (mL)	0.001
HS20070774-10	1	1000 (mL)	1 (mL)	0.001
HS20070774-11	1	1000 (mL)	1 (mL)	0.001
HS20070774-12	1	1000 (mL)	1 (mL)	0.001
HS20070774-13	1	1000 (mL)	1 (mL)	0.001
HS20070774-14	1	1000 (mL)	1 (mL)	0.001
HS20070774-15	1	1000 (mL)	1 (mL)	0.001
HS20070774-16	1	1000 (mL)	1 (mL)	0.001
HS20070774-17	1	1000 (mL)	1 (mL)	0.001
HS20070774-18	1	1000 (mL)	1 (mL)	0.001

Batch ID: 155609 **Start Date:** 21 Jul 2020 08:30 **End Date:** 21 Jul 2020 14:30
Method: SV AQ SEP FUN EXTRACT-LOWLEV - 3510C **Prep Code:** 3510_B_LOW

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS20070774-19	1	1000 (mL)	1 (mL)	0.001
HS20070774-20	1	1000 (mL)	1 (mL)	0.001
HS20070774-21	1	1000 (mL)	1 (mL)	0.001
HS20070774-22	1	1000 (mL)	1 (mL)	0.001
HS20070774-23	1	1000 (mL)	1 (mL)	0.001
HS20070774-24	1	1000 (mL)	1 (mL)	0.001
HS20070774-25	1	1000 (mL)	1 (mL)	0.001
HS20070774-26	1	1000 (mL)	1 (mL)	0.001
HS20070774-27	1	1000 (mL)	1 (mL)	0.001
HS20070774-28	1	1000 (mL)	1 (mL)	0.001
HS20070774-29	1	1000 (mL)	1 (mL)	0.001
HS20070774-30	1	1000 (mL)	1 (mL)	0.001
HS20070774-31	1	1000 (mL)	1 (mL)	0.001

Weight / Prep Log

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20070774

Batch ID: 155717 **Start Date:** 23 Jul 2020 13:30 **End Date:** 23 Jul 2020 17:00
Method: WATER - SW3010A **Prep Code:** 3010A

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS20070774-02		10 (mL)	10 (mL)	1
HS20070774-23		10 (mL)	10 (mL)	1
HS20070774-24		10 (mL)	10 (mL)	1
HS20070774-25		10 (mL)	10 (mL)	1
HS20070774-26		10 (mL)	10 (mL)	1
HS20070774-27		10 (mL)	10 (mL)	1
HS20070774-28		10 (mL)	10 (mL)	1
HS20070774-29		10 (mL)	10 (mL)	1

Batch ID: 155718 **Start Date:** 23 Jul 2020 13:30 **End Date:** 23 Jul 2020 17:30
Method: WATER - SW3010A **Prep Code:** 3010A

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS20070774-03		10 (mL)	10 (mL)	1
HS20070774-04		10 (mL)	10 (mL)	1
HS20070774-05		10 (mL)	10 (mL)	1
HS20070774-06		10 (mL)	10 (mL)	1
HS20070774-07		10 (mL)	10 (mL)	1
HS20070774-08		10 (mL)	10 (mL)	1
HS20070774-09		10 (mL)	10 (mL)	1
HS20070774-10		10 (mL)	10 (mL)	1
HS20070774-11		10 (mL)	10 (mL)	1
HS20070774-12		10 (mL)	10 (mL)	1
HS20070774-13		10 (mL)	10 (mL)	1
HS20070774-14		10 (mL)	10 (mL)	1
HS20070774-15		10 (mL)	10 (mL)	1
HS20070774-16		10 (mL)	10 (mL)	1
HS20070774-17		10 (mL)	10 (mL)	1
HS20070774-18		10 (mL)	10 (mL)	1
HS20070774-19		10 (mL)	10 (mL)	1
HS20070774-20		10 (mL)	10 (mL)	1
HS20070774-21		10 (mL)	10 (mL)	1
HS20070774-22		10 (mL)	10 (mL)	1

Batch ID: 155719 **Start Date:** 23 Jul 2020 13:30 **End Date:** 23 Jul 2020 17:30
Method: WATER - SW3010A **Prep Code:** 3010A

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS20070774-30		10 (mL)	10 (mL)	1
HS20070774-31		10 (mL)	10 (mL)	1

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20070774

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 155547 (0)		Test Name : LOW-LEVEL SEMIVOLATILES BY 8270D			Matrix: Groundwater	
HS20070774-02	WG-1620-MW03-20200715	15 Jul 2020 12:40		20 Jul 2020 11:28	25 Jul 2020 11:35	1
HS20070774-03	WG-1620-MW04-20200715	15 Jul 2020 14:25		20 Jul 2020 11:28	25 Jul 2020 11:54	1
HS20070774-04	WG-1620-MW05-20200715	15 Jul 2020 13:35		20 Jul 2020 11:28	25 Jul 2020 12:34	1
HS20070774-05	WG-1620-MW09-20200715	15 Jul 2020 10:25		20 Jul 2020 11:28	25 Jul 2020 12:53	1
HS20070774-06	WG-1620-MW64A-20200715	15 Jul 2020 11:40		20 Jul 2020 11:28	25 Jul 2020 13:13	1
Batch ID: 155565 (0)		Test Name : LOW-LEVEL SEMIVOLATILES BY 8270D			Matrix: Groundwater	
HS20070774-08	WG-1620-MW51C-20200716	16 Jul 2020 08:35		20 Jul 2020 13:57	25 Jul 2020 16:28	1
HS20070774-09	WG-1620-MW51A-20200716	16 Jul 2020 09:25		20 Jul 2020 13:57	25 Jul 2020 16:48	1
HS20070774-10	WG-1620-MW86C-20200716	16 Jul 2020 10:15		20 Jul 2020 13:57	25 Jul 2020 17:07	1
HS20070774-11	WG-1620-MW97A-20200716	16 Jul 2020 11:05		20 Jul 2020 13:57	25 Jul 2020 17:27	1
HS20070774-12	WG-1620-MW98B-20200716	16 Jul 2020 11:50		20 Jul 2020 13:57	25 Jul 2020 17:46	1
HS20070774-13	WG-1620-MW98A-20200716	16 Jul 2020 13:10		20 Jul 2020 13:57	24 Jul 2020 22:53	1
HS20070774-14	WG-1620-MW50B-20200716	16 Jul 2020 14:00		20 Jul 2020 13:57	25 Jul 2020 18:06	1
HS20070774-15	WG-1620-MW85C-20200716	16 Jul 2020 14:50		20 Jul 2020 13:57	25 Jul 2020 13:32	1
HS20070774-16	WG-1620-MW47C-20200716	16 Jul 2020 15:50		20 Jul 2020 13:57	25 Jul 2020 13:52	1
HS20070774-17	WG-1620-MW49A-20200716	16 Jul 2020 16:45		20 Jul 2020 13:57	28 Jul 2020 15:35	1000
HS20070774-17	WG-1620-MW49A-20200716	16 Jul 2020 16:45		20 Jul 2020 13:57	25 Jul 2020 21:36	100
HS20070774-17	WG-1620-MW49A-20200716	16 Jul 2020 16:45		20 Jul 2020 13:57	25 Jul 2020 19:18	10
HS20070774-17	WG-1620-MW49A-20200716	16 Jul 2020 16:45		20 Jul 2020 13:57	25 Jul 2020 18:59	1
HS20070774-18	WG-1620-MW48C-20200716	16 Jul 2020 17:35		20 Jul 2020 13:57	25 Jul 2020 14:11	1
Batch ID: 155565 (0)		Test Name : LOW-LEVEL SEMIVOLATILES BY 8270D			Matrix: Water	
HS20070774-07	WG-1620-FB02-20200715	15 Jul 2020 14:45		20 Jul 2020 13:57	25 Jul 2020 16:09	1
Batch ID: 155609 (0)		Test Name : LOW-LEVEL SEMIVOLATILES BY 8270D			Matrix: Water	
HS20070774-27	WG-1620-FB03-20200716	16 Jul 2020 16:00		21 Jul 2020 12:50	25 Jul 2020 15:10	1
HS20070774-31	WG-1620-FB04-20200717	17 Jul 2020 11:30		21 Jul 2020 12:50	25 Jul 2020 15:49	1

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20070774

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 155609 (0)		Test Name : LOW-LEVEL SEMIVOLATILES BY 8270D			Matrix: Groundwater	
HS20070774-19	WG-1620-MW21C-20200716	16 Jul 2020 08:40		21 Jul 2020 12:50	25 Jul 2020 14:31	1
HS20070774-20	WG-1620-P11-20200716	16 Jul 2020 10:25		21 Jul 2020 12:50	25 Jul 2020 18:25	1
HS20070774-21	WG-1620-MW62B-20200716	16 Jul 2020 11:25		21 Jul 2020 12:50	28 Jul 2020 12:00	50
HS20070774-21	WG-1620-MW62B-20200716	16 Jul 2020 11:25		21 Jul 2020 12:50	25 Jul 2020 21:01	10
HS20070774-21	WG-1620-MW62B-20200716	16 Jul 2020 11:25		21 Jul 2020 12:50	25 Jul 2020 20:42	1
HS20070774-22	WG-1620-MW88B-20200716	16 Jul 2020 12:25		21 Jul 2020 12:50	25 Jul 2020 18:45	1
HS20070774-23	WG-1620-MW42B-20200716	16 Jul 2020 13:45		21 Jul 2020 12:50	25 Jul 2020 19:43	1
HS20070774-24	WG-1620-MW40B-20200716	16 Jul 2020 14:45		21 Jul 2020 12:50	28 Jul 2020 12:39	1000
HS20070774-24	WG-1620-MW40B-20200716	16 Jul 2020 14:45		21 Jul 2020 12:50	28 Jul 2020 14:16	100
HS20070774-24	WG-1620-MW40B-20200716	16 Jul 2020 14:45		21 Jul 2020 12:50	25 Jul 2020 22:19	10
HS20070774-24	WG-1620-MW40B-20200716	16 Jul 2020 14:45		21 Jul 2020 12:50	25 Jul 2020 22:00	1
HS20070774-25	WG-1620-MW39B-20200716	16 Jul 2020 15:40		21 Jul 2020 12:50	28 Jul 2020 12:58	5
HS20070774-25	WG-1620-MW39B-20200716	16 Jul 2020 15:40		21 Jul 2020 12:50	25 Jul 2020 14:51	1
HS20070774-26	WG-1620-DUP01-20200716	16 Jul 2020 00:00		21 Jul 2020 12:50	25 Jul 2020 12:14	1
HS20070774-28	WG-1620-TW41B-20200717	17 Jul 2020 09:00		21 Jul 2020 12:50	28 Jul 2020 15:15	100
HS20070774-28	WG-1620-TW41B-20200717	17 Jul 2020 09:00		21 Jul 2020 12:50	25 Jul 2020 21:40	10
HS20070774-28	WG-1620-TW41B-20200717	17 Jul 2020 09:00		21 Jul 2020 12:50	25 Jul 2020 21:21	1
HS20070774-29	WG-1620-MW12A-20200717	17 Jul 2020 10:10		21 Jul 2020 12:50	25 Jul 2020 20:22	10
HS20070774-29	WG-1620-MW12A-20200717	17 Jul 2020 10:10		21 Jul 2020 12:50	25 Jul 2020 20:03	1
HS20070774-30	WG-1620-MW12C-20200717	17 Jul 2020 10:40		21 Jul 2020 12:50	25 Jul 2020 15:30	1
Batch ID: 155717 (0)		Test Name : ICP-MS METALS BY SW6020A			Matrix: Water	
HS20070774-27	WG-1620-FB03-20200716	16 Jul 2020 16:00		23 Jul 2020 17:00	24 Jul 2020 15:14	1
Batch ID: 155717 (0)		Test Name : ICP-MS METALS BY SW6020A			Matrix: Groundwater	
HS20070774-02	WG-1620-MW03-20200715	15 Jul 2020 12:40		23 Jul 2020 17:00	24 Jul 2020 15:02	1
HS20070774-23	WG-1620-MW42B-20200716	16 Jul 2020 13:45		23 Jul 2020 17:00	24 Jul 2020 15:04	1
HS20070774-24	WG-1620-MW40B-20200716	16 Jul 2020 14:45		23 Jul 2020 17:00	24 Jul 2020 15:06	1
HS20070774-25	WG-1620-MW39B-20200716	16 Jul 2020 15:40		23 Jul 2020 17:00	24 Jul 2020 15:08	1
HS20070774-26	WG-1620-DUP01-20200716	16 Jul 2020 00:00		23 Jul 2020 17:00	24 Jul 2020 15:10	1
HS20070774-28	WG-1620-TW41B-20200717	17 Jul 2020 09:00		23 Jul 2020 17:00	24 Jul 2020 15:25	1
HS20070774-29	WG-1620-MW12A-20200717	17 Jul 2020 10:10		23 Jul 2020 17:00	24 Jul 2020 15:27	1
Batch ID: 155718 (0)		Test Name : ICP-MS METALS BY SW6020A			Matrix: Water	
HS20070774-07	WG-1620-FB02-20200715	15 Jul 2020 14:45		23 Jul 2020 17:30	24 Jul 2020 13:31	1

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20070774

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 155718 (0)		Test Name : ICP-MS METALS BY SW6020A			Matrix: Groundwater	
HS20070774-03	WG-1620-MW04-20200715	15 Jul 2020 14:25		23 Jul 2020 17:30	24 Jul 2020 13:18	1
HS20070774-04	WG-1620-MW05-20200715	15 Jul 2020 13:35		23 Jul 2020 17:30	24 Jul 2020 13:20	1
HS20070774-05	WG-1620-MW09-20200715	15 Jul 2020 10:25		23 Jul 2020 17:30	24 Jul 2020 13:27	1
HS20070774-06	WG-1620-MW64A-20200715	15 Jul 2020 11:40		23 Jul 2020 17:30	24 Jul 2020 13:29	1
HS20070774-08	WG-1620-MW51C-20200716	16 Jul 2020 08:35		23 Jul 2020 17:30	24 Jul 2020 13:33	1
HS20070774-09	WG-1620-MW51A-20200716	16 Jul 2020 09:25		23 Jul 2020 17:30	24 Jul 2020 13:37	1
HS20070774-10	WG-1620-MW86C-20200716	16 Jul 2020 10:15		23 Jul 2020 17:30	24 Jul 2020 13:38	1
HS20070774-11	WG-1620-MW97A-20200716	16 Jul 2020 11:05		23 Jul 2020 17:30	24 Jul 2020 13:40	1
HS20070774-12	WG-1620-MW98B-20200716	16 Jul 2020 11:50		23 Jul 2020 17:30	24 Jul 2020 13:42	1
HS20070774-13	WG-1620-MW98A-20200716	16 Jul 2020 13:10		23 Jul 2020 17:30	24 Jul 2020 13:50	1
HS20070774-14	WG-1620-MW50B-20200716	16 Jul 2020 14:00		23 Jul 2020 17:30	24 Jul 2020 13:52	1
HS20070774-15	WG-1620-MW85C-20200716	16 Jul 2020 14:50		23 Jul 2020 17:30	24 Jul 2020 13:54	5
HS20070774-16	WG-1620-MW47C-20200716	16 Jul 2020 15:50		23 Jul 2020 17:30	24 Jul 2020 13:55	1
HS20070774-17	WG-1620-MW49A-20200716	16 Jul 2020 16:45		23 Jul 2020 17:30	24 Jul 2020 13:57	1
HS20070774-18	WG-1620-MW48C-20200716	16 Jul 2020 17:35		23 Jul 2020 17:30	24 Jul 2020 13:59	1
HS20070774-19	WG-1620-MW21C-20200716	16 Jul 2020 08:40		23 Jul 2020 17:30	24 Jul 2020 14:01	1
HS20070774-20	WG-1620-P11-20200716	16 Jul 2020 10:25		23 Jul 2020 17:30	24 Jul 2020 14:03	1
HS20070774-21	WG-1620-MW62B-20200716	16 Jul 2020 11:25		23 Jul 2020 17:30	24 Jul 2020 14:05	1
HS20070774-22	WG-1620-MW88B-20200716	16 Jul 2020 12:25		23 Jul 2020 17:30	24 Jul 2020 13:08	1
Batch ID: 155719 (0)		Test Name : ICP-MS METALS BY SW6020A			Matrix: Water	
HS20070774-31	WG-1620-FB04-20200717	17 Jul 2020 11:30		23 Jul 2020 13:30	24 Jul 2020 21:10	1
Batch ID: 155719 (0)		Test Name : ICP-MS METALS BY SW6020A			Matrix: Groundwater	
HS20070774-30	WG-1620-MW12C-20200717	17 Jul 2020 10:40		23 Jul 2020 13:30	24 Jul 2020 21:08	1
Batch ID: R365342 (0)		Test Name : LOW LEVEL VOLATILES BY SW8260C			Matrix: Groundwater	
HS20070774-02	WG-1620-MW03-20200715	15 Jul 2020 12:40			20 Jul 2020 19:45	1
HS20070774-03	WG-1620-MW04-20200715	15 Jul 2020 14:25			20 Jul 2020 20:08	1
HS20070774-04	WG-1620-MW05-20200715	15 Jul 2020 13:35			20 Jul 2020 20:32	1
Batch ID: R365342 (0)		Test Name : LOW LEVEL VOLATILES BY SW8260C			Matrix: Water	
HS20070774-01	WQ-1620-TB02-20200716	16 Jul 2020 00:00			20 Jul 2020 19:22	1
Batch ID: R365345 (0)		Test Name : LOW LEVEL VOLATILES BY SW8260C			Matrix: Water	
HS20070774-07	WG-1620-FB02-20200715	15 Jul 2020 14:45			21 Jul 2020 00:02	1

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20070774

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R365345 (0)		Test Name : LOW LEVEL VOLATILES BY SW8260C			Matrix: Groundwater	
HS20070774-06	WG-1620-MW64A-20200715	15 Jul 2020 11:40			21 Jul 2020 00:26	1
HS20070774-08	WG-1620-MW51C-20200716	16 Jul 2020 08:35			21 Jul 2020 00:49	1
HS20070774-09	WG-1620-MW51A-20200716	16 Jul 2020 09:25			21 Jul 2020 01:12	1
HS20070774-10	WG-1620-MW86C-20200716	16 Jul 2020 10:15			21 Jul 2020 01:36	1
HS20070774-11	WG-1620-MW97A-20200716	16 Jul 2020 11:05			21 Jul 2020 03:32	1
HS20070774-12	WG-1620-MW98B-20200716	16 Jul 2020 11:50			21 Jul 2020 03:55	1
HS20070774-13	WG-1620-MW98A-20200716	16 Jul 2020 13:10			21 Jul 2020 04:18	1
HS20070774-14	WG-1620-MW50B-20200716	16 Jul 2020 14:00			21 Jul 2020 04:41	1
HS20070774-16	WG-1620-MW47C-20200716	16 Jul 2020 15:50			21 Jul 2020 05:04	1
HS20070774-17	WG-1620-MW49A-20200716	16 Jul 2020 16:45			21 Jul 2020 05:27	1
HS20070774-18	WG-1620-MW48C-20200716	16 Jul 2020 17:35			21 Jul 2020 05:49	1
HS20070774-19	WG-1620-MW21C-20200716	16 Jul 2020 08:40			21 Jul 2020 06:12	1
HS20070774-20	WG-1620-P11-20200716	16 Jul 2020 10:25			21 Jul 2020 06:35	1
HS20070774-21	WG-1620-MW62B-20200716	16 Jul 2020 11:25			21 Jul 2020 06:58	1
HS20070774-22	WG-1620-MW88B-20200716	16 Jul 2020 12:25			21 Jul 2020 01:59	1
HS20070774-23	WG-1620-MW42B-20200716	16 Jul 2020 13:45			21 Jul 2020 07:21	1
HS20070774-24	WG-1620-MW40B-20200716	16 Jul 2020 14:45			21 Jul 2020 07:44	1
HS20070774-25	WG-1620-MW39B-20200716	16 Jul 2020 15:40			21 Jul 2020 08:07	1
HS20070774-26	WG-1620-DUP01-20200716	16 Jul 2020 00:00			21 Jul 2020 08:30	1
Batch ID: R365396 (0)		Test Name : LOW LEVEL VOLATILES BY SW8260C			Matrix: Water	
HS20070774-27	WG-1620-FB03-20200716	16 Jul 2020 16:00			21 Jul 2020 12:40	1
HS20070774-31	WG-1620-FB04-20200717	17 Jul 2020 11:30			21 Jul 2020 13:04	1
Batch ID: R365396 (0)		Test Name : LOW LEVEL VOLATILES BY SW8260C			Matrix: Groundwater	
HS20070774-05	WG-1620-MW09-20200715	15 Jul 2020 10:25			21 Jul 2020 16:14	1
HS20070774-15	WG-1620-MW85C-20200716	16 Jul 2020 14:50			21 Jul 2020 14:40	25
HS20070774-28	WG-1620-TW41B-20200717	17 Jul 2020 09:00			21 Jul 2020 13:28	1
HS20070774-29	WG-1620-MW12A-20200717	17 Jul 2020 10:10			21 Jul 2020 13:52	1
HS20070774-30	WG-1620-MW12C-20200717	17 Jul 2020 10:40			21 Jul 2020 14:16	1

WorkOrder: HS20070774
 InstrumentID: ICPMS06
 Test Code: ICP_TW
 Test Number: SW6020
 Test Name: ICP-MS Metals by SW6020A

**METHOD DETECTION /
 REPORTING LIMITS**

Matrix: Aqueous **Units:** mg/L

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	Arsenic	7440-38-2	0.00100	0.000928	0.000400	0.00200

WorkOrder: HS20070774
 InstrumentID: SV-6
 Test Code: 8270_LOW_W
 Test Number: SW8270
 Test Name: Low-Level Semivolatiles by 8270D

**METHOD DETECTION /
 REPORTING LIMITS**

Matrix: Aqueous **Units:** mg/L

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	1,2-Diphenylhydrazine	122-66-7	0.00010	0.000074	0.000021	0.00020
A	2,4-Dimethylphenol	105-67-9	0.00010	0.000077	0.000040	0.00020
A	2,4-Dinitrotoluene	121-14-2	0.00010	0.000065	0.000058	0.00020
A	2,6-Dinitrotoluene	606-20-2	0.00010	0.000074	0.000042	0.00020
A	2-Chloronaphthalene	91-58-7	0.00010	0.000093	0.000021	0.00020
A	2-Methylnaphthalene	91-57-6	0.000050	0.000035	0.000019	0.00010
A	4,6-Dinitro-2-methylphenol	534-52-1	0.00010	0.000037	0.000020	0.00020
A	4-Nitrophenol	100-02-7	0.00010	0.000024	0.000047	0.0010
A	Acenaphthene	83-32-9	0.000050	0.000043	0.000027	0.00010
A	Acenaphthylene	208-96-8	0.000050	0.000039	0.000015	0.00010
A	Anthracene	120-12-7	0.000050	0.000037	0.000014	0.00010
A	Benz(a)anthracene	56-55-3	0.000050	0.000029	0.000050	0.00010
A	Benzo(a)pyrene	50-32-8	0.000050	0.000030	0.000020	0.00010
A	Bis(2-chloroethoxy)methane	111-91-1	0.00010	0.000091	0.000030	0.00020
A	Bis(2-ethylhexyl)phthalate	117-81-7	0.00010	0.000036	0.000037	0.00020
A	Chrysene	218-01-9	0.000050	0.000044	0.000021	0.00010
A	Dibenzofuran	132-64-9	0.000050	0.000038	0.000020	0.00010
A	Di-n-butyl phthalate	84-74-2	0.00010	0.000071	0.000020	0.00020
A	Fluoranthene	206-44-0	0.000050	0.000036	0.000010	0.00010
A	Fluorene	86-73-7	0.000050	0.000039	0.000030	0.00010
A	Naphthalene	91-20-3	0.000050	0.000042	0.000020	0.00010
A	Nitrobenzene	98-95-3	0.00010	0.00011	0.000024	0.00020
A	N-Nitrosodiphenylamine	86-30-6	0.00010	0.000084	0.000025	0.00020
A	Pentachlorophenol	87-86-5	0.00010	0.000040	0.000079	0.00020
A	Phenanthrene	85-01-8	0.000050	0.000040	0.000021	0.00010
A	Phenol	108-95-2	0.00010	0.000083	0.000035	0.00020
A	Pyrene	129-00-0	0.000050	0.000043	0.000019	0.00010
S	2,4,6-Tribromophenol	118-79-6	0	0	0	0.00020
S	2-Fluorobiphenyl	321-60-8	0	0	0	0.00020
S	2-Fluorophenol	367-12-4	0	0	0	0.00020
S	4-Terphenyl-d14	1718-51-0	0	0	0	0.00020
S	Nitrobenzene-d5	4165-60-0	0	0	0	0.00020
S	Phenol-d6	13127-88-3	0	0	0	0.00020

WorkOrder: HS20070774
 InstrumentID: SV-7
 Test Code: 8270_LOW_W
 Test Number: SW8270
 Test Name: Low-Level Semivolatiles by 8270D

**METHOD DETECTION /
 REPORTING LIMITS**

Matrix: Aqueous

Units: mg/L

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	1,2-Diphenylhydrazine	122-66-7	0.00010	0.000073	0.000021	0.00020
A	2,4-Dimethylphenol	105-67-9	0.00010	0.000085	0.000040	0.00020
A	2,4-Dinitrotoluene	121-14-2	0.00010	0.000088	0.000058	0.00020
A	2,6-Dinitrotoluene	606-20-2	0.00010	0.000082	0.000042	0.00020
A	2-Chloronaphthalene	91-58-7	0.00010	0.000084	0.000021	0.00020
A	2-Methylnaphthalene	91-57-6	0.000050	0.000040	0.000019	0.00010
A	4,6-Dinitro-2-methylphenol	534-52-1	0.00010	0.000056	0.000020	0.00020
A	4-Nitrophenol	100-02-7	0.00010	0.000075	0.000047	0.0010
A	Acenaphthene	83-32-9	0.000050	0.000045	0.000027	0.00010
A	Acenaphthylene	208-96-8	0.000050	0.000039	0.000015	0.00010
A	Anthracene	120-12-7	0.000050	0.000040	0.000014	0.00010
A	Benz(a)anthracene	56-55-3	0.000050	0.000036	0.000050	0.00010
A	Benzo(a)pyrene	50-32-8	0.000050	0.000029	0.000020	0.00010
A	Bis(2-chloroethoxy)methane	111-91-1	0.00010	0.000085	0.000030	0.00020
A	Bis(2-ethylhexyl)phthalate	117-81-7	0.00010	0.000072	0.000037	0.00020
A	Chrysene	218-01-9	0.000050	0.000040	0.000021	0.00010
A	Dibenzofuran	132-64-9	0.000050	0.000045	0.000020	0.00010
A	Di-n-butyl phthalate	84-74-2	0.00010	0.000073	0.000020	0.00020
A	Fluoranthene	206-44-0	0.000050	0.000033	0.000010	0.00010
A	Fluorene	86-73-7	0.000050	0.000045	0.000030	0.00010
A	Naphthalene	91-20-3	0.000050	0.000066	0.000020	0.00010
A	Nitrobenzene	98-95-3	0.00010	0.000098	0.000024	0.00020
A	N-Nitrosodiphenylamine	86-30-6	0.00010	0.000079	0.000025	0.00020
A	Pentachlorophenol	87-86-5	0.00010	0.000060	0.000079	0.00020
A	Phenanthrene	85-01-8	0.000050	0.000042	0.000021	0.00010
A	Phenol	108-95-2	0.00010	0.000090	0.000035	0.00020
A	Pyrene	129-00-0	0.000050	0.000044	0.000019	0.00010
S	2,4,6-Tribromophenol	118-79-6	0	0	0	0.00020
S	2-Fluorobiphenyl	321-60-8	0	0	0	0.00020
S	2-Fluorophenol	367-12-4	0	0	0	0.00020
S	4-Terphenyl-d14	1718-51-0	0	0	0	0.00020
S	Nitrobenzene-d5	4165-60-0	0	0	0	0.00020
S	Phenol-d6	13127-88-3	0	0	0	0.00020

WorkOrder: HS20070774
 InstrumentID: VOA2
 Test Code: 8260_LL_W
 Test Number: SW8260
 Test Name: Low Level Volatiles by SW8260C

**METHOD DETECTION /
 REPORTING LIMITS**

Matrix: Aqueous

Units: mg/L

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	1,2-Dichloroethane	107-06-2	0.00050	0.00063	0.00020	0.0010
A	Benzene	71-43-2	0.00050	0.00052	0.00020	0.0010
A	Chlorobenzene	108-90-7	0.0010	0.0011	0.00030	0.0010
A	Ethylbenzene	100-41-4	0.0010	0.0011	0.00030	0.0010
A	Methylene chloride	75-09-2	0.0020	0.00081	0.0010	0.0020
A	Toluene	108-88-3	0.00050	0.00056	0.00020	0.0010
A	Vinyl chloride	75-01-4	0.00050	0.00035	0.00020	0.0010
A	Xylenes, Total	1330-20-7	0.0010	0.0032	0.00030	0.0010
S	1,2-Dichloroethane-d4	17060-07-0	0	0	0	0.0010
S	4-Bromofluorobenzene	460-00-4	0	0	0	0.0010
S	Dibromofluoromethane	1868-53-7	0	0	0	0.0010
S	Toluene-d8	2037-26-5	0	0	0	0.0010

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20070774

QC BATCH REPORT

Batch ID: 155717 (0)		Instrument: ICPMS06		Method: ICP-MS METALS BY SW6020A						
MBLK	Sample ID: MBLK-155717	Units: mg/L		Analysis Date: 24-Jul-2020 14:58						
Client ID:	Run ID: ICPMS06_365578	SeqNo: 5673508		PrepDate: 23-Jul-2020		DF: 1				
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual	
Arsenic	U	0.00200								
LCS	Sample ID: LCS-155717	Units: mg/L		Analysis Date: 24-Jul-2020 15:00						
Client ID:	Run ID: ICPMS06_365578	SeqNo: 5673509		PrepDate: 23-Jul-2020		DF: 1				
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual	
Arsenic	0.04683	0.00200	0.05	0	93.7	80 - 120				
MS	Sample ID: HS20070978-01MS	Units: mg/L		Analysis Date: 24-Jul-2020 15:32						
Client ID:	Run ID: ICPMS06_365578	SeqNo: 5673558		PrepDate: 23-Jul-2020		DF: 2				
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual	
Arsenic	0.06009	0.00400	0.05	0.0104	99.4	80 - 120				
MSD	Sample ID: HS20070978-01MSD	Units: mg/L		Analysis Date: 24-Jul-2020 15:48						
Client ID:	Run ID: ICPMS06_365578	SeqNo: 5673560		PrepDate: 23-Jul-2020		DF: 2				
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual	
Arsenic	0.0599	0.00400	0.05	0.0104	99.0	80 - 120	0.06009	0.305	20	
SD	Sample ID: HS20070978-01SD	Units: mg/L		Analysis Date: 24-Jul-2020 15:31						
Client ID:	Run ID: ICPMS06_365578	SeqNo: 5673557		PrepDate: 23-Jul-2020		DF: 10				
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	Limit Qual	
Arsenic	0.0101	0.0200					0.0104	0	10 J	

The following samples were analyzed in this batch:

HS20070774-02	HS20070774-23	HS20070774-24	HS20070774-25
HS20070774-26	HS20070774-27	HS20070774-28	HS20070774-29

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20070774

QC BATCH REPORT

Batch ID: 155718 (0)		Instrument: ICPMS06		Method: ICP-MS METALS BY SW6020A						
MBLK	Sample ID: MBLK-155718	Units: mg/L		Analysis Date: 24-Jul-2020 13:05						
Client ID:	Run ID: ICPMS06_365578	SeqNo: 5673369	PrepDate: 23-Jul-2020	DF: 1						
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Arsenic	U	0.00200								
LCS	Sample ID: LCS-155718	Units: mg/L		Analysis Date: 24-Jul-2020 13:07						
Client ID:	Run ID: ICPMS06_365578	SeqNo: 5673370	PrepDate: 23-Jul-2020	DF: 1						
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Arsenic	0.04838	0.00200	0.05	0	96.8	80 - 120				
MS	Sample ID: HS20070774-22MS	Units: mg/L		Analysis Date: 24-Jul-2020 13:12						
Client ID: WG-1620-MW88B-20200716	Run ID: ICPMS06_365578	SeqNo: 5673373	PrepDate: 23-Jul-2020	DF: 1						
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Arsenic	0.04998	0.00200	0.05	0.002684	94.6	80 - 120				
MSD	Sample ID: HS20070774-22MSD	Units: mg/L		Analysis Date: 24-Jul-2020 13:14						
Client ID: WG-1620-MW88B-20200716	Run ID: ICPMS06_365578	SeqNo: 5673374	PrepDate: 23-Jul-2020	DF: 1						
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Arsenic	0.05124	0.00200	0.05	0.002684	97.1	80 - 120	0.04998	2.49	20	
PDS	Sample ID: HS20070774-22PDS	Units: mg/L		Analysis Date: 24-Jul-2020 13:16						
Client ID: WG-1620-MW88B-20200716	Run ID: ICPMS06_365578	SeqNo: 5673375	PrepDate: 23-Jul-2020	DF: 1						
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Arsenic	0.1098	0.00200	0.1	0.002684	107	75 - 125				
SD	Sample ID: HS20070774-22SD	Units: mg/L		Analysis Date: 24-Jul-2020 13:10						
Client ID: WG-1620-MW88B-20200716	Run ID: ICPMS06_365578	SeqNo: 5673372	PrepDate: 23-Jul-2020	DF: 5						
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	RPD Limit	Qual
Arsenic	0.002592	0.0100					0.002684	0 10		J

The following samples were analyzed in this batch:

HS20070774-03	HS20070774-04	HS20070774-05	HS20070774-06
HS20070774-07	HS20070774-08	HS20070774-09	HS20070774-10
HS20070774-11	HS20070774-12	HS20070774-13	HS20070774-14
HS20070774-15	HS20070774-16	HS20070774-17	HS20070774-18
HS20070774-19	HS20070774-20	HS20070774-21	HS20070774-22

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20070774

QC BATCH REPORT

Batch ID: 155719 (0)		Instrument: ICPMS06		Method: ICP-MS METALS BY SW6020A						
MBLK	Sample ID: MBLK-155719	Units: mg/L		Analysis Date: 24-Jul-2020 20:45						
Client ID:		Run ID: ICPMS06_365578	SeqNo: 5673855	PrepDate: 23-Jul-2020	DF: 1					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual	
Arsenic	U	0.00200								
LCS	Sample ID: LCS-155719	Units: mg/L		Analysis Date: 24-Jul-2020 20:47						
Client ID:		Run ID: ICPMS06_365578	SeqNo: 5673856	PrepDate: 23-Jul-2020	DF: 1					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual	
Arsenic	0.04623	0.00200	0.05	0	92.5	80 - 120				
MS	Sample ID: HS20070815-01MS	Units: mg/L		Analysis Date: 24-Jul-2020 20:53						
Client ID:		Run ID: ICPMS06_365578	SeqNo: 5673859	PrepDate: 23-Jul-2020	DF: 1					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual	
Arsenic	0.04945	0.00200	0.05	0.000619	97.7	80 - 120				
MSD	Sample ID: HS20070815-01MSD	Units: mg/L		Analysis Date: 24-Jul-2020 20:55						
Client ID:		Run ID: ICPMS06_365578	SeqNo: 5673860	PrepDate: 23-Jul-2020	DF: 1					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual	
Arsenic	0.04704	0.00200	0.05	0.000619	92.8	80 - 120	0.04945	4.98	20	
PDS	Sample ID: HS20070815-01PDS	Units: mg/L		Analysis Date: 24-Jul-2020 20:56						
Client ID:		Run ID: ICPMS06_365578	SeqNo: 5673861	PrepDate: 23-Jul-2020	DF: 1					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual	
Arsenic	0.1084	0.00200	0.1	0.000619	108	75 - 125				
SD	Sample ID: HS20070815-01SD	Units: mg/L		Analysis Date: 24-Jul-2020 20:51						
Client ID:		Run ID: ICPMS06_365578	SeqNo: 5673858	PrepDate: 23-Jul-2020	DF: 5					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	RPD Limit Qual	
Arsenic	U	0.0100					0.000619	0	10	

The following samples were analyzed in this batch: HS20070774-30 HS20070774-31

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20070774

QC BATCH REPORT

Batch ID: 155547 (0)		Instrument: SV-7		Method: LOW-LEVEL SEMIVOLATILES BY 8270D						
MBLK	Sample ID: MBLK-155547	Units: ug/L			Analysis Date: 20-Jul-2020 13:50					
Client ID:	Run ID: SV-7_365364	SeqNo: 5668015	PrepDate: 20-Jul-2020	DF: 1						
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Diphenylhydrazine	U	0.20								
2,4-Dimethylphenol	U	0.20								
2,4-Dinitrotoluene	U	0.20								
2,6-Dinitrotoluene	U	0.20								
2-Chloronaphthalene	U	0.20								
2-Methylnaphthalene	U	0.10								
4,6-Dinitro-2-methylphenol	U	0.20								
4-Nitrophenol	U	1.0								
Acenaphthene	U	0.10								
Acenaphthylene	U	0.10								
Anthracene	U	0.10								
Benz(a)anthracene	U	0.10								
Benzo(a)pyrene	U	0.10								
Bis(2-chloroethoxy)methane	U	0.20								
Bis(2-ethylhexyl)phthalate	U	0.20								
Chrysene	U	0.10								
Dibenzofuran	U	0.10								
Di-n-butyl phthalate	U	0.20								
Fluoranthene	U	0.10								
Fluorene	U	0.10								
Naphthalene	U	0.10								
Nitrobenzene	U	0.20								
N-Nitrosodiphenylamine	U	0.20								
Pentachlorophenol	U	0.20								
Phenanthrene	U	0.10								
Phenol	U	0.20								
Pyrene	U	0.10								
<i>Surr: 2,4,6-Tribromophenol</i>	<i>3.103</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>62.1</i>	<i>34 - 129</i>				
<i>Surr: 2-Fluorobiphenyl</i>	<i>3.506</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>70.1</i>	<i>40 - 125</i>				
<i>Surr: 2-Fluorophenol</i>	<i>3.547</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>70.9</i>	<i>20 - 120</i>				
<i>Surr: 4-Terphenyl-d14</i>	<i>4.607</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>92.1</i>	<i>40 - 135</i>				
<i>Surr: Nitrobenzene-d5</i>	<i>3.696</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>73.9</i>	<i>41 - 120</i>				
<i>Surr: Phenol-d6</i>	<i>4.108</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>82.2</i>	<i>20 - 120</i>				

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20070774

QC BATCH REPORT

Batch ID: 155547 (0)		Instrument: SV-7		Method: LOW-LEVEL SEMIVOLATILES BY 8270D						
LCS	Sample ID: LCS-155547	Units: ug/L			Analysis Date: 20-Jul-2020 15:11					
Client ID:	Run ID: SV-7_365364	SeqNo: 5668017		PrepDate: 20-Jul-2020		DF: 1				
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
1,2-Diphenylhydrazine	3.193	0.20	5	0	63.9	39 - 127				
2,4-Dimethylphenol	3.313	0.20	5	0	66.3	35 - 120				
2,4-Dinitrotoluene	4.06	0.20	5	0	81.2	50 - 122				
2,6-Dinitrotoluene	3.794	0.20	5	0	75.9	50 - 120				
2-Chloronaphthalene	3.786	0.20	5	0	75.7	50 - 120				
2-Methylnaphthalene	2.822	0.10	5	0	56.4	50 - 120				
4,6-Dinitro-2-methylphenol	2.957	0.20	5	0	59.1	25 - 121				
4-Nitrophenol	2.276	1.0	5	0	45.5	30 - 130				
Acenaphthene	3.315	0.10	5	0	66.3	45 - 120				
Acenaphthylene	3.682	0.10	5	0	73.6	47 - 120				
Anthracene	4.019	0.10	5	0	80.4	45 - 120				
Benz(a)anthracene	4.782	0.10	5	0	95.6	40 - 120				
Benzo(a)pyrene	5.395	0.10	5	0	108	45 - 120				
Bis(2-chloroethoxy)methane	3.637	0.20	5	0	72.7	45 - 120				
Bis(2-ethylhexyl)phthalate	5.115	0.20	5	0	102	40 - 139				
Chrysene	4.665	0.10	5	0	93.3	43 - 120				
Dibenzofuran	3.619	0.10	5	0	72.4	50 - 120				
Di-n-butyl phthalate	4.658	0.20	5	0	93.2	45 - 123				
Fluoranthene	4.467	0.10	5	0	89.3	45 - 125				
Fluorene	3.884	0.10	5	0	77.7	49 - 120				
Naphthalene	3.599	0.10	5	0	72.0	45 - 120				
Nitrobenzene	4.043	0.20	5	0	80.9	44 - 120				
N-Nitrosodiphenylamine	3.988	0.20	5	0	79.8	40 - 125				
Pentachlorophenol	2.026	0.20	5	0	40.5	19 - 121				
Phenanthrene	4.035	0.10	5	0	80.7	45 - 121				
Phenol	3.713	0.20	5	0	74.3	20 - 124				
Pyrene	4.262	0.10	5	0	85.2	40 - 130				
<i>Surr: 2,4,6-Tribromophenol</i>	<i>4.567</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>91.3</i>	<i>34 - 129</i>				
<i>Surr: 2-Fluorobiphenyl</i>	<i>3.532</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>70.6</i>	<i>40 - 125</i>				
<i>Surr: 2-Fluorophenol</i>	<i>3.567</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>71.3</i>	<i>20 - 120</i>				
<i>Surr: 4-Terphenyl-d14</i>	<i>4.594</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>91.9</i>	<i>40 - 135</i>				
<i>Surr: Nitrobenzene-d5</i>	<i>3.79</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>75.8</i>	<i>41 - 120</i>				
<i>Surr: Phenol-d6</i>	<i>3.979</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>79.6</i>	<i>20 - 120</i>				

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20070774

QC BATCH REPORT

Batch ID: 155547 (0)		Instrument: SV-7		Method: LOW-LEVEL SEMIVOLATILES BY 8270D						
MS	Sample ID: HS20070658-13MS	Units: ug/L			Analysis Date: 20-Jul-2020 19:18					
Client ID:	Run ID: SV-7_365364	SeqNo: 5668022	PrepDate: 20-Jul-2020	DF: 1						
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Diphenylhydrazine	2.94	0.20	5	0	58.8	39 - 127				
2,4-Dimethylphenol	2.882	0.20	5	0	57.6	35 - 120				
2,4-Dinitrotoluene	3.601	0.20	5	0	72.0	50 - 122				
2,6-Dinitrotoluene	3.146	0.20	5	0	62.9	50 - 120				
2-Chloronaphthalene	3.425	0.20	5	0	68.5	50 - 120				
2-Methylnaphthalene	3.153	0.10	5	0	63.1	50 - 120				
4,6-Dinitro-2-methylphenol	3.16	0.20	5	0	63.2	25 - 121				
4-Nitrophenol	1.749	1.0	5	0	35.0	30 - 130				
Acenaphthene	2.947	0.10	5	0	58.9	45 - 120				
Acenaphthylene	3.282	0.10	5	0	65.6	47 - 120				
Anthracene	3.665	0.10	5	0	73.3	45 - 120				
Benz(a)anthracene	4.141	0.10	5	0	82.8	40 - 120				
Benzo(a)pyrene	5.016	0.10	5	0	100	45 - 120				
Bis(2-chloroethoxy)methane	2.883	0.20	5	0	57.7	45 - 120				
Bis(2-ethylhexyl)phthalate	4.59	0.20	5	0	91.8	40 - 139				
Chrysene	4.128	0.10	5	0	82.6	43 - 120				
Dibenzofuran	3.246	0.10	5	0	64.9	50 - 120				
Di-n-butyl phthalate	4.268	0.20	5	0	85.4	45 - 123				
Fluoranthene	4.311	0.10	5	0	86.2	45 - 125				
Fluorene	3.474	0.10	5	0	69.5	49 - 120				
Naphthalene	3.07	0.10	5	0	61.4	45 - 120				
Nitrobenzene	2.876	0.20	5	0	57.5	44 - 120				
N-Nitrosodiphenylamine	3.779	0.20	5	0	75.6	40 - 125				
Pentachlorophenol	2.799	0.20	5	0	56.0	19 - 121				
Phenanthrene	3.747	0.10	5	0	74.9	45 - 121				
Phenol	2.853	0.20	5	0	57.1	20 - 124				
Pyrene	3.863	0.10	5	0	77.3	40 - 130				
<i>Surr: 2,4,6-Tribromophenol</i>	<i>4.187</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>83.7</i>	<i>34 - 129</i>				
<i>Surr: 2-Fluorobiphenyl</i>	<i>3.121</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>62.4</i>	<i>40 - 125</i>				
<i>Surr: 2-Fluorophenol</i>	<i>2.793</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>55.9</i>	<i>20 - 120</i>				
<i>Surr: 4-Terphenyl-d14</i>	<i>4.106</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>82.1</i>	<i>40 - 135</i>				
<i>Surr: Nitrobenzene-d5</i>	<i>2.825</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>56.5</i>	<i>41 - 120</i>				
<i>Surr: Phenol-d6</i>	<i>3.132</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>62.6</i>	<i>20 - 120</i>				

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20070774

QC BATCH REPORT

Batch ID: 155547 (0)		Instrument: SV-7		Method: LOW-LEVEL SEMIVOLATILES BY 8270D						
MSD	Sample ID: HS20070658-13MSD	Units: ug/L			Analysis Date: 20-Jul-2020 19:37					
Client ID:	Run ID: SV-7_365364	SeqNo: 5668023	PrepDate: 20-Jul-2020	DF: 1						
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Diphenylhydrazine	2.752	0.20	5	0	55.0	39 - 127	2.94	6.59	20	
2,4-Dimethylphenol	2.764	0.20	5	0	55.3	35 - 120	2.882	4.18	20	
2,4-Dinitrotoluene	3.308	0.20	5	0	66.2	50 - 122	3.601	8.49	20	
2,6-Dinitrotoluene	3.191	0.20	5	0	63.8	50 - 120	3.146	1.42	20	
2-Chloronaphthalene	3.239	0.20	5	0	64.8	50 - 120	3.425	5.6	20	
2-Methylnaphthalene	2.824	0.10	5	0	56.5	50 - 120	3.153	11	20	
4,6-Dinitro-2-methylphenol	3.122	0.20	5	0	62.4	25 - 121	3.16	1.23	30	
4-Nitrophenol	2.688	1.0	5	0	53.8	30 - 130	1.749	42.3	20	R
Acenaphthene	2.77	0.10	5	0	55.4	45 - 120	2.947	6.19	20	
Acenaphthylene	2.996	0.10	5	0	59.9	47 - 120	3.282	9.11	20	
Anthracene	3.494	0.10	5	0	69.9	45 - 120	3.665	4.79	20	
Benz(a)anthracene	4.178	0.10	5	0	83.6	40 - 120	4.141	0.9	20	
Benzo(a)pyrene	5.001	0.10	5	0	100	45 - 120	5.016	0.293	20	
Bis(2-chloroethoxy)methane	2.624	0.20	5	0	52.5	45 - 120	2.883	9.44	20	
Bis(2-ethylhexyl)phthalate	4.632	0.20	5	0	92.6	40 - 139	4.59	0.916	20	
Chrysene	4.031	0.10	5	0	80.6	43 - 120	4.128	2.39	20	
Dibenzofuran	3.069	0.10	5	0	61.4	50 - 120	3.246	5.62	20	
Di-n-butyl phthalate	3.896	0.20	5	0	77.9	45 - 123	4.268	9.1	20	
Fluoranthene	3.867	0.10	5	0	77.3	45 - 125	4.311	10.9	20	
Fluorene	3.3	0.10	5	0	66.0	49 - 120	3.474	5.14	20	
Naphthalene	2.842	0.10	5	0	56.8	45 - 120	3.07	7.71	20	
Nitrobenzene	2.63	0.20	5	0	52.6	44 - 120	2.876	8.95	20	
N-Nitrosodiphenylamine	3.423	0.20	5	0	68.5	40 - 125	3.779	9.89	20	
Pentachlorophenol	2.5	0.20	5	0	50.0	19 - 121	2.799	11.2	20	
Phenanthrene	3.506	0.10	5	0	70.1	45 - 121	3.747	6.65	20	
Phenol	2.833	0.20	5	0	56.7	20 - 124	2.853	0.727	20	
Pyrene	3.964	0.10	5	0	79.3	40 - 130	3.863	2.59	20	
Surr: 2,4,6-Tribromophenol	3.624	0.20	5	0	72.5	34 - 129	4.187	14.4	20	
Surr: 2-Fluorobiphenyl	2.715	0.20	5	0	54.3	40 - 125	3.121	13.9	20	
Surr: 2-Fluorophenol	2.687	0.20	5	0	53.7	20 - 120	2.793	3.87	20	
Surr: 4-Terphenyl-d14	3.842	0.20	5	0	76.8	40 - 135	4.106	6.65	20	
Surr: Nitrobenzene-d5	2.44	0.20	5	0	48.8	41 - 120	2.825	14.6	20	
Surr: Phenol-d6	3.07	0.20	5	0	61.4	20 - 120	3.132	2.01	20	

The following samples were analyzed in this batch: HS20070774-02 HS20070774-03 HS20070774-04 HS20070774-05
 HS20070774-06

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20070774

QC BATCH REPORT

Batch ID: 155565 (0) **Instrument:** SV-7 **Method:** LOW-LEVEL SEMIVOLATILES BY 8270D

MBLK	Sample ID: MBLK-155565	Units: ug/L			Analysis Date: 21-Jul-2020 14:39					
Client ID:	Run ID: SV-7_365425	SeqNo: 5669594	PrepDate: 20-Jul-2020	DF: 1						
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4-Dimethylphenol	U	0.20								
2,4-Dinitrotoluene	U	0.20								
2,6-Dinitrotoluene	U	0.20								
2-Chloronaphthalene	U	0.20								
2-Methylnaphthalene	U	0.10								
4,6-Dinitro-2-methylphenol	U	0.20								
4-Nitrophenol	U	1.0								
Acenaphthene	U	0.10								
Acenaphthylene	U	0.10								
Anthracene	U	0.10								
Benz(a)anthracene	U	0.10								
Benzo(a)pyrene	U	0.10								
Bis(2-chloroethoxy)methane	U	0.20								
Bis(2-ethylhexyl)phthalate	U	0.20								
Chrysene	U	0.10								
Dibenzofuran	U	0.10								
Di-n-butyl phthalate	U	0.20								
Fluoranthene	U	0.10								
Fluorene	U	0.10								
Naphthalene	U	0.10								
Nitrobenzene	U	0.20								
N-Nitrosodiphenylamine	U	0.20								
Pentachlorophenol	U	0.20								
Phenanthrene	U	0.10								
Phenol	U	0.20								
Pyrene	U	0.10								
<i>Surr: 2,4,6-Tribromophenol</i>	3.036	0.20	5	0	60.7	34 - 129				
<i>Surr: 2-Fluorobiphenyl</i>	3.358	0.20	5	0	67.2	40 - 125				
<i>Surr: 2-Fluorophenol</i>	3.356	0.20	5	0	67.1	20 - 120				
<i>Surr: 4-Terphenyl-d14</i>	3.93	0.20	5	0	78.6	40 - 135				
<i>Surr: Nitrobenzene-d5</i>	3.732	0.20	5	0	74.6	41 - 120				
<i>Surr: Phenol-d6</i>	4.011	0.20	5	0	80.2	20 - 120				

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20070774

QC BATCH REPORT

Batch ID: 155565 (0)		Instrument: SV-7		Method: LOW-LEVEL SEMIVOLATILES BY 8270D						
LCS	Sample ID: LCS-155565	Units: ug/L			Analysis Date: 21-Jul-2020 14:58					
Client ID:	Run ID: SV-7_365425	SeqNo: 5669595		PrepDate: 20-Jul-2020		DF: 1				
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4-Dimethylphenol	3.564	0.20	5	0	71.3	35 - 120				
2,4-Dinitrotoluene	4.021	0.20	5	0	80.4	50 - 122				
2,6-Dinitrotoluene	3.985	0.20	5	0	79.7	50 - 120				
2-Chloronaphthalene	4.353	0.20	5	0	87.1	50 - 120				
2-Methylnaphthalene	3.954	0.10	5	0	79.1	50 - 120				
4,6-Dinitro-2-methylphenol	3.891	0.20	5	0	77.8	25 - 121				
4-Nitrophenol	2.832	1.0	5	0	56.6	30 - 130				
Acenaphthene	3.473	0.10	5	0	69.5	45 - 120				
Acenaphthylene	3.853	0.10	5	0	77.1	47 - 120				
Anthracene	4.374	0.10	5	0	87.5	45 - 120				
Benz(a)anthracene	4.381	0.10	5	0	87.6	40 - 120				
Benzo(a)pyrene	4.94	0.10	5	0	98.8	45 - 120				
Bis(2-chloroethoxy)methane	4.03	0.20	5	0	80.6	45 - 120				
Bis(2-ethylhexyl)phthalate	4.455	0.20	5	0	89.1	40 - 139				
Chrysene	4.354	0.10	5	0	87.1	43 - 120				
Dibenzofuran	3.864	0.10	5	0	77.3	50 - 120				
Di-n-butyl phthalate	4.42	0.20	5	0	88.4	45 - 123				
Fluoranthene	4.59	0.10	5	0	91.8	45 - 125				
Fluorene	3.996	0.10	5	0	79.9	49 - 120				
Naphthalene	3.939	0.10	5	0	78.8	45 - 120				
Nitrobenzene	4.484	0.20	5	0	89.7	44 - 120				
N-Nitrosodiphenylamine	4.124	0.20	5	0	82.5	40 - 125				
Pentachlorophenol	2.512	0.20	5	0	50.2	19 - 121				
Phenanthrene	4.129	0.10	5	0	82.6	45 - 121				
Phenol	4.501	0.20	5	0	90.0	20 - 124				
Pyrene	3.906	0.10	5	0	78.1	40 - 130				
Surr: 2,4,6-Tribromophenol	4.369	0.20	5	0	87.4	34 - 129				
Surr: 2-Fluorobiphenyl	3.802	0.20	5	0	76.0	40 - 125				
Surr: 2-Fluorophenol	4.09	0.20	5	0	81.8	20 - 120				
Surr: 4-Terphenyl-d14	3.955	0.20	5	0	79.1	40 - 135				
Surr: Nitrobenzene-d5	4.126	0.20	5	0	82.5	41 - 120				
Surr: Phenol-d6	4.769	0.20	5	0	95.4	20 - 120				

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20070774

QC BATCH REPORT

Batch ID: 155565 (0)		Instrument: SV-7		Method: LOW-LEVEL SEMIVOLATILES BY 8270D						
LCSD		Sample ID: LCSD-155565		Units: ug/L		Analysis Date: 21-Jul-2020 15:17				
Client ID:		Run ID: SV-7_365425		SeqNo: 5669596		PrepDate: 20-Jul-2020		DF: 1		
Analyte	Result	MLQ	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
2,4-Dimethylphenol	3.367	0.20	5	0	67.3	35 - 120	3.564	5.68	20	
2,4-Dinitrotoluene	3.638	0.20	5	0	72.8	50 - 122	4.021	10	20	
2,6-Dinitrotoluene	3.812	0.20	5	0	76.2	50 - 120	3.985	4.44	20	
2-Chloronaphthalene	3.734	0.20	5	0	74.7	50 - 120	4.353	15.3	20	
2-Methylnaphthalene	3.977	0.10	5	0	79.5	50 - 120	3.954	0.577	20	
4,6-Dinitro-2-methylphenol	3.379	0.20	5	0	67.6	25 - 121	3.891	14.1	30	
4-Nitrophenol	2.304	1.0	5	0	46.1	30 - 130	2.832	20.6	20 R	
Acenaphthene	3.328	0.10	5	0	66.6	45 - 120	3.473	4.28	20	
Acenaphthylene	3.68	0.10	5	0	73.6	47 - 120	3.853	4.6	20	
Anthracene	3.946	0.10	5	0	78.9	45 - 120	4.374	10.3	20	
Benz(a)anthracene	4.139	0.10	5	0	82.8	40 - 120	4.381	5.68	20	
Benzo(a)pyrene	4.592	0.10	5	0	91.8	45 - 120	4.94	7.29	20	
Bis(2-chloroethoxy)methane	4.096	0.20	5	0	81.9	45 - 120	4.03	1.64	20	
Bis(2-ethylhexyl)phthalate	4.412	0.20	5	0	88.2	40 - 139	4.455	0.965	20	
Chrysene	4.364	0.10	5	0	87.3	43 - 120	4.354	0.237	20	
Dibenzofuran	3.621	0.10	5	0	72.4	50 - 120	3.864	6.51	20	
Di-n-butyl phthalate	4.502	0.20	5	0	90.0	45 - 123	4.42	1.86	20	
Fluoranthene	4.585	0.10	5	0	91.7	45 - 125	4.59	0.128	20	
Fluorene	3.69	0.10	5	0	73.8	49 - 120	3.996	7.96	20	
Naphthalene	3.884	0.10	5	0	77.7	45 - 120	3.939	1.4	20	
Nitrobenzene	4.286	0.20	5	0	85.7	44 - 120	4.484	4.5	20	
N-Nitrosodiphenylamine	3.906	0.20	5	0	78.1	40 - 125	4.124	5.43	20	
Pentachlorophenol	1.96	0.20	5	0	39.2	19 - 121	2.512	24.7	20 R	
Phenanthrene	4.147	0.10	5	0	82.9	45 - 121	4.129	0.431	20	
Phenol	4.05	0.20	5	0	81.0	20 - 124	4.501	10.5	20	
Pyrene	4.017	0.10	5	0	80.3	40 - 130	3.906	2.79	20	
Surr: 2,4,6-Tribromophenol	3.97	0.20	5	0	79.4	34 - 129	4.369	9.56	20	
Surr: 2-Fluorobiphenyl	3.477	0.20	5	0	69.5	40 - 125	3.802	8.91	20	
Surr: 2-Fluorophenol	3.997	0.20	5	0	79.9	20 - 120	4.09	2.3	20	
Surr: 4-Terphenyl-d14	3.986	0.20	5	0	79.7	40 - 135	3.955	0.781	20	
Surr: Nitrobenzene-d5	4.31	0.20	5	0	86.2	41 - 120	4.126	4.38	20	
Surr: Phenol-d6	4.639	0.20	5	0	92.8	20 - 120	4.769	2.77	20	

The following samples were analyzed in this batch:

HS20070774-07	HS20070774-08	HS20070774-09	HS20070774-10
HS20070774-11	HS20070774-12	HS20070774-13	HS20070774-14
HS20070774-15	HS20070774-16	HS20070774-17	HS20070774-18

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20070774

QC BATCH REPORT

Batch ID: 155609 (0)		Instrument: SV-6		Method: LOW-LEVEL SEMIVOLATILES BY 8270D						
MBLK	Sample ID: MBLK-155609	Units: ug/L			Analysis Date: 24-Jul-2020 12:25					
Client ID:	Run ID: SV-6_365624	SeqNo: 5673546	PrepDate: 21-Jul-2020	DF: 1						
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Diphenylhydrazine	U	0.20								
2,4-Dimethylphenol	U	0.20								
2,4-Dinitrotoluene	U	0.20								
2,6-Dinitrotoluene	U	0.20								
2-Chloronaphthalene	U	0.20								
2-Methylnaphthalene	U	0.10								
4,6-Dinitro-2-methylphenol	U	0.20								
4-Nitrophenol	U	1.0								
Acenaphthene	U	0.10								
Acenaphthylene	U	0.10								
Anthracene	U	0.10								
Benz(a)anthracene	U	0.10								
Benzo(a)pyrene	U	0.10								
Bis(2-chloroethoxy)methane	U	0.20								
Bis(2-ethylhexyl)phthalate	U	0.20								
Chrysene	U	0.10								
Dibenzofuran	U	0.10								
Di-n-butyl phthalate	U	0.20								
Fluoranthene	U	0.10								
Fluorene	U	0.10								
Naphthalene	U	0.10								
Nitrobenzene	U	0.20								
N-Nitrosodiphenylamine	U	0.20								
Pentachlorophenol	U	0.20								
Phenanthrene	U	0.10								
Phenol	U	0.20								
Pyrene	U	0.10								
<i>Surr: 2,4,6-Tribromophenol</i>	3.282	0.20	5	0	65.6	34 - 129				
<i>Surr: 2-Fluorobiphenyl</i>	3.62	0.20	5	0	72.4	40 - 125				
<i>Surr: 2-Fluorophenol</i>	2.986	0.20	5	0	59.7	20 - 120				
<i>Surr: 4-Terphenyl-d14</i>	3.863	0.20	5	0	77.3	40 - 135				
<i>Surr: Nitrobenzene-d5</i>	3.889	0.20	5	0	77.8	41 - 120				
<i>Surr: Phenol-d6</i>	4.015	0.20	5	0	80.3	20 - 120				

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20070774

QC BATCH REPORT

Batch ID: 155609 (0)		Instrument: SV-6		Method: LOW-LEVEL SEMIVOLATILES BY 8270D						
LCS	Sample ID: LCS-155609	Units: ug/L			Analysis Date: 24-Jul-2020 12:45					
Client ID:	Run ID: SV-6_365624	SeqNo: 5673547		PrepDate: 21-Jul-2020		DF: 1				
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Diphenylhydrazine	3.006	0.20	5	0	60.1	39 - 127				
2,4-Dimethylphenol	3.535	0.20	5	0	70.7	35 - 120				
2,4-Dinitrotoluene	4.094	0.20	5	0	81.9	50 - 122				
2,6-Dinitrotoluene	4.028	0.20	5	0	80.6	50 - 120				
2-Chloronaphthalene	3.804	0.20	5	0	76.1	50 - 120				
2-Methylnaphthalene	3.57	0.10	5	0	71.4	50 - 120				
4,6-Dinitro-2-methylphenol	4.437	0.20	5	0	88.7	25 - 121				
4-Nitrophenol	3.548	1.0	5	0	71.0	30 - 130				
Acenaphthene	3.322	0.10	5	0	66.4	45 - 120				
Acenaphthylene	3.532	0.10	5	0	70.6	47 - 120				
Anthracene	3.728	0.10	5	0	74.6	45 - 120				
Benz(a)anthracene	4.237	0.10	5	0	84.7	40 - 120				
Benzo(a)pyrene	4.511	0.10	5	0	90.2	45 - 120				
Bis(2-chloroethoxy)methane	3.358	0.20	5	0	67.2	45 - 120				
Bis(2-ethylhexyl)phthalate	4.485	0.20	5	0	89.7	40 - 139				
Chrysene	4.032	0.10	5	0	80.6	43 - 120				
Dibenzofuran	3.542	0.10	5	0	70.8	50 - 120				
Di-n-butyl phthalate	4.25	0.20	5	0	85.0	45 - 123				
Fluoranthene	3.915	0.10	5	0	78.3	45 - 125				
Fluorene	3.557	0.10	5	0	71.1	49 - 120				
Naphthalene	3.457	0.10	5	0	69.1	45 - 120				
Nitrobenzene	3.222	0.20	5	0	64.4	44 - 120				
N-Nitrosodiphenylamine	3.695	0.20	5	0	73.9	40 - 125				
Pentachlorophenol	3.183	0.20	5	0	63.7	19 - 121				
Phenanthrene	3.678	0.10	5	0	73.6	45 - 121				
Phenol	2.917	0.20	5	0	58.3	20 - 124				
Pyrene	4.029	0.10	5	0	80.6	40 - 130				
<i>Surr: 2,4,6-Tribromophenol</i>	<i>4.012</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>80.2</i>	<i>34 - 129</i>				
<i>Surr: 2-Fluorobiphenyl</i>	<i>3.705</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>74.1</i>	<i>40 - 125</i>				
<i>Surr: 2-Fluorophenol</i>	<i>3.126</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>62.5</i>	<i>20 - 120</i>				
<i>Surr: 4-Terphenyl-d14</i>	<i>4.747</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>94.9</i>	<i>40 - 135</i>				
<i>Surr: Nitrobenzene-d5</i>	<i>4.072</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>81.4</i>	<i>41 - 120</i>				
<i>Surr: Phenol-d6</i>	<i>3.73</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>74.6</i>	<i>20 - 120</i>				

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20070774

QC BATCH REPORT

Batch ID: 155609 (0)		Instrument: SV-6		Method: LOW-LEVEL SEMIVOLATILES BY 8270D						
MS		Sample ID: HS20070774-22MS		Units: ug/L		Analysis Date: 25-Jul-2020 19:04				
Client ID: WG-1620-MW88B-20200716		Run ID: SV-6_365701		SeqNo: 5675195		PrepDate: 21-Jul-2020		DF: 1		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
1,2-Diphenylhydrazine	3.276	0.20	5	0	65.5	39 - 127				
2,4-Dimethylphenol	3.575	0.20	5	0	71.5	35 - 120				
2,4-Dinitrotoluene	4.66	0.20	5	0	93.2	50 - 122				
2,6-Dinitrotoluene	4.282	0.20	5	0	85.6	50 - 120				
2-Chloronaphthalene	3.982	0.20	5	0	79.6	50 - 120				
2-Methylnaphthalene	3.609	0.10	5	0.01487	71.9	50 - 120				
4,6-Dinitro-2-methylphenol	5.177	0.20	5	0	104	25 - 121				
4-Nitrophenol	3.952	1.0	5	0	79.0	30 - 130				
Acenaphthene	3.485	0.10	5	0.03718	69.0	45 - 120				
Acenaphthylene	3.621	0.10	5	0	72.4	47 - 120				
Anthracene	4.298	0.10	5	0.04323	85.1	45 - 120				
Benz(a)anthracene	4.538	0.10	5	0	90.8	40 - 120				
Benzo(a)pyrene	4.729	0.10	5	0	94.6	45 - 120				
Bis(2-chloroethoxy)methane	3.372	0.20	5	0	67.4	45 - 120				
Bis(2-ethylhexyl)phthalate	4.989	0.20	5	0.05963	98.6	40 - 139				
Chrysene	4.537	0.10	5	0	90.7	43 - 120				
Dibenzofuran	3.671	0.10	5	0.02376	72.9	50 - 120				
Di-n-butyl phthalate	4.971	0.20	5	0.01803	99.1	45 - 123				
Fluoranthene	4.815	0.10	5	0.04378	95.4	45 - 125				
Fluorene	3.843	0.10	5	0.02691	76.3	49 - 120				
Naphthalene	3.75	0.10	5	0.08304	73.3	45 - 120				
Nitrobenzene	3.335	0.20	5	0	66.7	44 - 120				
N-Nitrosodiphenylamine	4.043	0.20	5	0	80.9	40 - 125				
Pentachlorophenol	3.516	0.20	5	0	70.3	19 - 121				
Phenanthrene	4.482	0.10	5	0.07467	88.1	45 - 121				
Phenol	3.536	0.20	5	0	70.7	20 - 124				
Pyrene	4.696	0.10	5	0.0246	93.4	40 - 130				
<i>Surr: 2,4,6-Tribromophenol</i>	<i>4.686</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>93.7</i>	<i>34 - 129</i>				
<i>Surr: 2-Fluorobiphenyl</i>	<i>3.724</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>74.5</i>	<i>40 - 125</i>				
<i>Surr: 2-Fluorophenol</i>	<i>3.165</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>63.3</i>	<i>20 - 120</i>				
<i>Surr: 4-Terphenyl-d14</i>	<i>4.991</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>99.8</i>	<i>40 - 135</i>				
<i>Surr: Nitrobenzene-d5</i>	<i>4.117</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>82.3</i>	<i>41 - 120</i>				
<i>Surr: Phenol-d6</i>	<i>3.609</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>72.2</i>	<i>20 - 120</i>				

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20070774

QC BATCH REPORT

Batch ID: 155609 (0)		Instrument: SV-6		Method: LOW-LEVEL SEMIVOLATILES BY 8270D						
MS		Sample ID: HS20070677-01MS		Units: ug/L		Analysis Date: 24-Jul-2020 13:43				
Client ID:		Run ID: SV-6_365624		SeqNo: 5673549		PrepDate: 21-Jul-2020		DF: 1		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
1,2-Diphenylhydrazine	2.781	0.20	5	0	55.6	39 - 127				
2,4-Dimethylphenol	3.329	0.20	5	0	66.6	35 - 120				
2,4-Dinitrotoluene	3.809	0.20	5	0	76.2	50 - 122				
2,6-Dinitrotoluene	3.795	0.20	5	0	75.9	50 - 120				
2-Chloronaphthalene	3.673	0.20	5	0	73.5	50 - 120				
2-Methylnaphthalene	3.356	0.10	5	0	67.1	50 - 120				
4,6-Dinitro-2-methylphenol	4.095	0.20	5	0	81.9	25 - 121				
4-Nitrophenol	3.453	1.0	5	0	69.1	30 - 130				
Acenaphthene	3.135	0.10	5	0	62.7	45 - 120				
Acenaphthylene	3.333	0.10	5	0	66.7	47 - 120				
Anthracene	3.508	0.10	5	0.01147	69.9	45 - 120				
Benz(a)anthracene	3.799	0.10	5	0.03099	75.4	40 - 120				
Benzo(a)pyrene	3.985	0.10	5	0.01786	79.3	45 - 120				
Bis(2-chloroethoxy)methane	3.103	0.20	5	0	62.1	45 - 120				
Bis(2-ethylhexyl)phthalate	4.067	0.20	5	0.1204	78.9	40 - 139				
Chrysene	3.455	0.10	5	0.02806	68.5	43 - 120				
Dibenzofuran	3.307	0.10	5	0	66.1	50 - 120				
Di-n-butyl phthalate	3.883	0.20	5	0.208	73.5	45 - 123				
Fluoranthene	3.723	0.10	5	0.02576	74.0	45 - 125				
Fluorene	3.323	0.10	5	0	66.5	49 - 120				
Naphthalene	3.369	0.10	5	0.06029	66.2	45 - 120				
Nitrobenzene	3.04	0.20	5	0	60.8	44 - 120				
N-Nitrosodiphenylamine	3.461	0.20	5	0	69.2	40 - 125				
Pentachlorophenol	3.335	0.20	5	0	66.7	19 - 121				
Phenanthrene	3.501	0.10	5	0.01286	69.8	45 - 121				
Phenol	2.572	0.20	5	0	51.4	20 - 124				
Pyrene	3.784	0.10	5	0.03013	75.1	40 - 130				
<i>Surr: 2,4,6-Tribromophenol</i>	<i>4.09</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>81.8</i>	<i>34 - 129</i>				
<i>Surr: 2-Fluorobiphenyl</i>	<i>3.539</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>70.8</i>	<i>40 - 125</i>				
<i>Surr: 2-Fluorophenol</i>	<i>2.714</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>54.3</i>	<i>20 - 120</i>				
<i>Surr: 4-Terphenyl-d14</i>	<i>4.207</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>84.1</i>	<i>40 - 135</i>				
<i>Surr: Nitrobenzene-d5</i>	<i>3.884</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>77.7</i>	<i>41 - 120</i>				
<i>Surr: Phenol-d6</i>	<i>3.5</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>70.0</i>	<i>20 - 120</i>				

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20070774

QC BATCH REPORT

Batch ID: 155609 (0)		Instrument: SV-6		Method: LOW-LEVEL SEMIVOLATILES BY 8270D						
MSD		Sample ID: HS20070774-22MSD			Units: ug/L		Analysis Date: 25-Jul-2020 19:24			
Client ID: WG-1620-MW88B-20200716		Run ID: SV-6_365701		SeqNo: 5675196		PrepDate: 21-Jul-2020		DF: 1		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Diphenylhydrazine	3.033	0.20	5	0	60.7	39 - 127	3.276	7.7	20	
2,4-Dimethylphenol	3.258	0.20	5	0	65.2	35 - 120	3.575	9.28	20	
2,4-Dinitrotoluene	4.469	0.20	5	0	89.4	50 - 122	4.66	4.2	20	
2,6-Dinitrotoluene	4.023	0.20	5	0	80.5	50 - 120	4.282	6.23	20	
2-Chloronaphthalene	3.59	0.20	5	0	71.8	50 - 120	3.982	10.3	20	
2-Methylnaphthalene	3.268	0.10	5	0.01487	65.1	50 - 120	3.609	9.9	20	
4,6-Dinitro-2-methylphenol	4.639	0.20	5	0	92.8	25 - 121	5.177	11	30	
4-Nitrophenol	3.798	1.0	5	0	76.0	30 - 130	3.952	3.97	20	
Acenaphthene	3.153	0.10	5	0.03718	62.3	45 - 120	3.485	10	20	
Acenaphthylene	3.265	0.10	5	0	65.3	47 - 120	3.621	10.3	20	
Anthracene	4.109	0.10	5	0.04323	81.3	45 - 120	4.298	4.51	20	
Benz(a)anthracene	4.376	0.10	5	0	87.5	40 - 120	4.538	3.63	20	
Benzo(a)pyrene	4.637	0.10	5	0	92.7	45 - 120	4.729	1.97	20	
Bis(2-chloroethoxy)methane	3.183	0.20	5	0	63.7	45 - 120	3.372	5.75	20	
Bis(2-ethylhexyl)phthalate	4.854	0.20	5	0.05963	95.9	40 - 139	4.989	2.74	20	
Chrysene	4.406	0.10	5	0	88.1	43 - 120	4.537	2.93	20	
Dibenzofuran	3.309	0.10	5	0.02376	65.7	50 - 120	3.671	10.4	20	
Di-n-butyl phthalate	4.819	0.20	5	0.01803	96.0	45 - 123	4.971	3.11	20	
Fluoranthene	4.609	0.10	5	0.04378	91.3	45 - 125	4.815	4.39	20	
Fluorene	3.486	0.10	5	0.02691	69.2	49 - 120	3.843	9.75	20	
Naphthalene	3.465	0.10	5	0.08304	67.6	45 - 120	3.75	7.9	20	
Nitrobenzene	3.041	0.20	5	0	60.8	44 - 120	3.335	9.22	20	
N-Nitrosodiphenylamine	3.821	0.20	5	0	76.4	40 - 125	4.043	5.64	20	
Pentachlorophenol	3.425	0.20	5	0	68.5	19 - 121	3.516	2.63	20	
Phenanthrene	4.333	0.10	5	0.07467	85.2	45 - 121	4.482	3.39	20	
Phenol	2.738	0.20	5	0	54.8	20 - 124	3.536	25.4	20	R
Pyrene	4.557	0.10	5	0.0246	90.7	40 - 130	4.696	3	20	
Surr: 2,4,6-Tribromophenol	4.424	0.20	5	0	88.5	34 - 129	4.686	5.75	20	
Surr: 2-Fluorobiphenyl	3.362	0.20	5	0	67.2	40 - 125	3.724	10.2	20	
Surr: 2-Fluorophenol	2.716	0.20	5	0	54.3	20 - 120	3.165	15.3	20	
Surr: 4-Terphenyl-d14	4.698	0.20	5	0	94.0	40 - 135	4.991	6.05	20	
Surr: Nitrobenzene-d5	3.768	0.20	5	0	75.4	41 - 120	4.117	8.86	20	
Surr: Phenol-d6	4.376	0.20	5	0	87.5	20 - 120	3.609	19.2	20	

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20070774

QC BATCH REPORT

Batch ID: 155609 (0)		Instrument: SV-6		Method: LOW-LEVEL SEMIVOLATILES BY 8270D						
MSD	Sample ID: HS20070677-01MSD	Units: ug/L			Analysis Date: 24-Jul-2020 14:03					
Client ID:	Run ID: SV-6_365624	SeqNo: 5673550		PrepDate: 21-Jul-2020		DF: 1				
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Diphenylhydrazine	3.01	0.20	5	0	60.2	39 - 127	2.781	7.93	20	
2,4-Dimethylphenol	3.44	0.20	5	0	68.8	35 - 120	3.329	3.29	20	
2,4-Dinitrotoluene	4.056	0.20	5	0	81.1	50 - 122	3.809	6.27	20	
2,6-Dinitrotoluene	3.982	0.20	5	0	79.6	50 - 120	3.795	4.81	20	
2-Chloronaphthalene	3.757	0.20	5	0	75.1	50 - 120	3.673	2.27	20	
2-Methylnaphthalene	3.383	0.10	5	0	67.7	50 - 120	3.356	0.798	20	
4,6-Dinitro-2-methylphenol	4.378	0.20	5	0	87.6	25 - 121	4.095	6.68	30	
4-Nitrophenol	3.512	1.0	5	0	70.2	30 - 130	3.453	1.67	20	
Acenaphthene	3.192	0.10	5	0	63.8	45 - 120	3.135	1.81	20	
Acenaphthylene	3.478	0.10	5	0	69.6	47 - 120	3.333	4.25	20	
Anthracene	3.618	0.10	5	0.01147	72.1	45 - 120	3.508	3.1	20	
Benz(a)anthracene	3.847	0.10	5	0.03099	76.3	40 - 120	3.799	1.24	20	
Benzo(a)pyrene	4.271	0.10	5	0.01786	85.1	45 - 120	3.985	6.94	20	
Bis(2-chloroethoxy)methane	3.177	0.20	5	0	63.5	45 - 120	3.103	2.36	20	
Bis(2-ethylhexyl)phthalate	4.163	0.20	5	0.1204	80.9	40 - 139	4.067	2.35	20	
Chrysene	3.635	0.10	5	0.02806	72.1	43 - 120	3.455	5.1	20	
Dibenzofuran	3.463	0.10	5	0	69.3	50 - 120	3.307	4.63	20	
Di-n-butyl phthalate	4.256	0.20	5	0.208	81.0	45 - 123	3.883	9.17	20	
Fluoranthene	3.92	0.10	5	0.02576	77.9	45 - 125	3.723	5.15	20	
Fluorene	3.454	0.10	5	0	69.1	49 - 120	3.323	3.86	20	
Naphthalene	3.429	0.10	5	0.06029	67.4	45 - 120	3.369	1.77	20	
Nitrobenzene	3.131	0.20	5	0	62.6	44 - 120	3.04	2.97	20	
N-Nitrosodiphenylamine	3.701	0.20	5	0	74.0	40 - 125	3.461	6.71	20	
Pentachlorophenol	3.449	0.20	5	0	69.0	19 - 121	3.335	3.37	20	
Phenanthrene	3.704	0.10	5	0.01286	73.8	45 - 121	3.501	5.64	20	
Phenol	2.643	0.20	5	0	52.9	20 - 124	2.572	2.7	20	
Pyrene	3.925	0.10	5	0.03013	77.9	40 - 130	3.784	3.68	20	
<i>Surr: 2,4,6-Tribromophenol</i>	<i>4.02</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>80.4</i>	<i>34 - 129</i>	<i>4.09</i>	<i>1.73</i>	<i>20</i>	
<i>Surr: 2-Fluorobiphenyl</i>	<i>3.51</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>70.2</i>	<i>40 - 125</i>	<i>3.539</i>	<i>0.833</i>	<i>20</i>	
<i>Surr: 2-Fluorophenol</i>	<i>2.378</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>47.6</i>	<i>20 - 120</i>	<i>2.714</i>	<i>13.2</i>	<i>20</i>	
<i>Surr: 4-Terphenyl-d14</i>	<i>4.219</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>84.4</i>	<i>40 - 135</i>	<i>4.207</i>	<i>0.282</i>	<i>20</i>	
<i>Surr: Nitrobenzene-d5</i>	<i>3.775</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>75.5</i>	<i>41 - 120</i>	<i>3.884</i>	<i>2.85</i>	<i>20</i>	
<i>Surr: Phenol-d6</i>	<i>3.102</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>62.0</i>	<i>20 - 120</i>	<i>3.5</i>	<i>12.1</i>	<i>20</i>	

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20070774

QC BATCH REPORT

Batch ID: 155609 (0)	Instrument: SV-6	Method: LOW-LEVEL SEMIVOLATILES BY 8270D		
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The following samples were analyzed in this batch:

HS20070774-19	HS20070774-20	HS20070774-21	HS20070774-22
HS20070774-23	HS20070774-24	HS20070774-25	HS20070774-26
HS20070774-27	HS20070774-28	HS20070774-29	HS20070774-30
HS20070774-31			

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20070774

QC BATCH REPORT

Batch ID: R365342 (0)		Instrument: VOA2		Method: LOW LEVEL VOLATILES BY SW8260C					
MBLK	Sample ID: VBLKW-200720	Units: ug/L			Analysis Date: 20-Jul-2020 11:50				
Client ID:	Run ID: VOA2_365342	SeqNo: 5667644		PrepDate:		DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

1,2-Dichloroethane	U	1.0							
Benzene	U	1.0							
Chlorobenzene	U	1.0							
Ethylbenzene	U	1.0							
Methylene chloride	U	2.0							
Toluene	U	1.0							
Vinyl chloride	U	1.0							
Xylenes, Total	U	1.0							
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>51.37</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>103</i>	<i>70 - 123</i>			
<i>Surr: 4-Bromofluorobenzene</i>	<i>50.33</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>101</i>	<i>82 - 115</i>			
<i>Surr: Dibromofluoromethane</i>	<i>52</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>104</i>	<i>73 - 126</i>			
<i>Surr: Toluene-d8</i>	<i>50.77</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>102</i>	<i>81 - 120</i>			

LCS	Sample ID: VLCSW-200720	Units: ug/L			Analysis Date: 20-Jul-2020 11:03				
Client ID:	Run ID: VOA2_365342	SeqNo: 5667643		PrepDate:		DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

1,2-Dichloroethane	18.93	1.0	20	0	94.6	70 - 124			
Benzene	18.84	1.0	20	0	94.2	74 - 120			
Chlorobenzene	18.94	1.0	20	0	94.7	76 - 113			
Ethylbenzene	18.95	1.0	20	0	94.7	77 - 117			
Methylene chloride	19.73	2.0	20	0	98.6	70 - 127			
Toluene	19.47	1.0	20	0	97.3	77 - 118			
Vinyl chloride	20.85	1.0	20	0	104	70 - 130			
Xylenes, Total	58.26	1.0	60	0	97.1	75 - 122			
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>52.91</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>106</i>	<i>70 - 130</i>			
<i>Surr: 4-Bromofluorobenzene</i>	<i>49.88</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>99.8</i>	<i>82 - 115</i>			
<i>Surr: Dibromofluoromethane</i>	<i>50.63</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>101</i>	<i>73 - 126</i>			
<i>Surr: Toluene-d8</i>	<i>50.55</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>101</i>	<i>81 - 120</i>			

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20070774

QC BATCH REPORT

Batch ID: R365342 (0) **Instrument:** VOA2 **Method:** LOW LEVEL VOLATILES BY SW8260C

MS		Sample ID: HS20070742-03MS			Units: ug/L		Analysis Date: 20-Jul-2020 16:12			
Client ID:		Run ID: VOA2_365342			SeqNo: 5667655		PrepDate:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Dichloroethane	18.22	1.0	20	0	91.1	70 - 127				
Benzene	17.88	1.0	20	0	89.4	70 - 127				
Chlorobenzene	17.63	1.0	20	0	88.1	70 - 114				
Ethylbenzene	17.79	1.0	20	0	88.9	70 - 124				
Methylene chloride	17.93	2.0	20	0	89.6	70 - 128				
Toluene	18.32	1.0	20	0	91.6	70 - 123				
Vinyl chloride	18.31	1.0	20	0	91.6	70 - 130				
Xylenes, Total	55.08	1.0	60	0.6643	90.7	70 - 130				
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>53.35</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>107</i>	<i>70 - 126</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>49.34</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>98.7</i>	<i>81 - 113</i>				
<i>Surr: Dibromofluoromethane</i>	<i>51.14</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>102</i>	<i>77 - 123</i>				
<i>Surr: Toluene-d8</i>	<i>50.08</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>100</i>	<i>82 - 127</i>				

MS		Sample ID: HS20070742-01MS			Units: ug/L		Analysis Date: 20-Jul-2020 15:24			
Client ID:		Run ID: VOA2_365342			SeqNo: 5667653		PrepDate:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Dichloroethane	17.89	1.0	20	0	89.5	70 - 127				
Benzene	17.63	1.0	20	0	88.1	70 - 127				
Chlorobenzene	17.65	1.0	20	0	88.2	70 - 114				
Ethylbenzene	18.8	1.0	20	1.163	88.2	70 - 124				
Methylene chloride	17.53	2.0	20	0	87.6	70 - 128				
Toluene	18.22	1.0	20	0	91.1	70 - 123				
Vinyl chloride	17.74	1.0	20	0	88.7	70 - 130				
Xylenes, Total	61.79	1.0	60	7.365	90.7	70 - 130				
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>54.16</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>108</i>	<i>70 - 126</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>49.25</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>98.5</i>	<i>81 - 113</i>				
<i>Surr: Dibromofluoromethane</i>	<i>51.51</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>103</i>	<i>77 - 123</i>				
<i>Surr: Toluene-d8</i>	<i>50.25</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>100</i>	<i>82 - 127</i>				

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20070774

QC BATCH REPORT

Batch ID: R365342 (0) **Instrument:** VOA2 **Method:** LOW LEVEL VOLATILES BY SW8260C

MSD		Sample ID: HS20070742-03MSD			Units: ug/L		Analysis Date: 20-Jul-2020 16:36			
Client ID:		Run ID: VOA2_365342			SeqNo: 5667656		PrepDate:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Dichloroethane	18.18	1.0	20	0	90.9	70 - 127	18.22	0.221	20	
Benzene	17.99	1.0	20	0	90.0	70 - 127	17.88	0.604	20	
Chlorobenzene	17.71	1.0	20	0	88.5	70 - 114	17.63	0.463	20	
Ethylbenzene	18.09	1.0	20	0	90.4	70 - 124	17.79	1.67	20	
Methylene chloride	18	2.0	20	0	90.0	70 - 128	17.93	0.417	20	
Toluene	18.51	1.0	20	0	92.5	70 - 123	18.32	0.991	20	
Vinyl chloride	18.83	1.0	20	0	94.1	70 - 130	18.31	2.79	20	
Xylenes, Total	55.93	1.0	60	0.6643	92.1	70 - 130	55.08	1.54	20	
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>53.84</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>108</i>	<i>70 - 126</i>	<i>53.35</i>	<i>0.906</i>	<i>20</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>50.05</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>100</i>	<i>81 - 113</i>	<i>49.34</i>	<i>1.43</i>	<i>20</i>	
<i>Surr: Dibromofluoromethane</i>	<i>51.11</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>102</i>	<i>77 - 123</i>	<i>51.14</i>	<i>0.0462</i>	<i>20</i>	
<i>Surr: Toluene-d8</i>	<i>49.87</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>99.7</i>	<i>82 - 127</i>	<i>50.08</i>	<i>0.428</i>	<i>20</i>	

MSD		Sample ID: HS20070742-01MSD			Units: ug/L		Analysis Date: 20-Jul-2020 15:48			
Client ID:		Run ID: VOA2_365342			SeqNo: 5667654		PrepDate:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Dichloroethane	17.95	1.0	20	0	89.7	70 - 127	17.89	0.313	20	
Benzene	17.65	1.0	20	0	88.2	70 - 127	17.63	0.102	20	
Chlorobenzene	17.38	1.0	20	0	86.9	70 - 114	17.65	1.52	20	
Ethylbenzene	18.88	1.0	20	1.163	88.6	70 - 124	18.8	0.402	20	
Methylene chloride	17.75	2.0	20	0	88.8	70 - 128	17.53	1.27	20	
Toluene	18.2	1.0	20	0	91.0	70 - 123	18.22	0.161	20	
Vinyl chloride	18.42	1.0	20	0	92.1	70 - 130	17.74	3.77	20	
Xylenes, Total	61.2	1.0	60	7.365	89.7	70 - 130	61.79	0.947	20	
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>54.19</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>108</i>	<i>70 - 126</i>	<i>54.16</i>	<i>0.0439</i>	<i>20</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>49.8</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>99.6</i>	<i>81 - 113</i>	<i>49.25</i>	<i>1.1</i>	<i>20</i>	
<i>Surr: Dibromofluoromethane</i>	<i>51.35</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>103</i>	<i>77 - 123</i>	<i>51.51</i>	<i>0.314</i>	<i>20</i>	
<i>Surr: Toluene-d8</i>	<i>49.87</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>99.7</i>	<i>82 - 127</i>	<i>50.25</i>	<i>0.752</i>	<i>20</i>	

The following samples were analyzed in this batch: HS20070774-01 HS20070774-02 HS20070774-03 HS20070774-04

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20070774

QC BATCH REPORT

Batch ID: R365345 (0)		Instrument: VOA2		Method: LOW LEVEL VOLATILES BY SW8260C					
MBLK	Sample ID: VBLKW-200720	Units: ug/L			Analysis Date: 20-Jul-2020 23:39				
Client ID:	Run ID: VOA2_365345	SeqNo: 5667721		PrepDate:		DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

1,2-Dichloroethane	U	1.0							
Benzene	U	1.0							
Chlorobenzene	U	1.0							
Ethylbenzene	U	1.0							
Methylene chloride	U	2.0							
Toluene	U	1.0							
Vinyl chloride	U	1.0							
Xylenes, Total	U	1.0							
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>50.98</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>102</i>	<i>70 - 123</i>			
<i>Surr: 4-Bromofluorobenzene</i>	<i>49.94</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>99.9</i>	<i>82 - 115</i>			
<i>Surr: Dibromofluoromethane</i>	<i>51.79</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>104</i>	<i>73 - 126</i>			
<i>Surr: Toluene-d8</i>	<i>50.69</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>101</i>	<i>81 - 120</i>			

LCS	Sample ID: VLCSW-200720	Units: ug/L			Analysis Date: 20-Jul-2020 22:52				
Client ID:	Run ID: VOA2_365345	SeqNo: 5667720		PrepDate:		DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

1,2-Dichloroethane	19.01	1.0	20	0	95.0	70 - 124			
Benzene	19.05	1.0	20	0	95.3	74 - 120			
Chlorobenzene	19.03	1.0	20	0	95.1	76 - 113			
Ethylbenzene	19.23	1.0	20	0	96.1	77 - 117			
Methylene chloride	21.9	2.0	20	0	110	70 - 127			
Toluene	19.72	1.0	20	0	98.6	77 - 118			
Vinyl chloride	20.04	1.0	20	0	100	70 - 130			
Xylenes, Total	58.96	1.0	60	0	98.3	75 - 122			
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>52.8</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>106</i>	<i>70 - 130</i>			
<i>Surr: 4-Bromofluorobenzene</i>	<i>49.75</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>99.5</i>	<i>82 - 115</i>			
<i>Surr: Dibromofluoromethane</i>	<i>51</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>102</i>	<i>73 - 126</i>			
<i>Surr: Toluene-d8</i>	<i>49.98</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>100.0</i>	<i>81 - 120</i>			

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20070774

QC BATCH REPORT

Batch ID: R365345 (0) **Instrument:** VOA2 **Method:** LOW LEVEL VOLATILES BY SW8260C

MS		Sample ID: HS20070774-22MS			Units: ug/L		Analysis Date: 21-Jul-2020 02:22			
Client ID: WG-1620-MW88B-20200716		Run ID: VOA2_365345			SeqNo: 5667728		PrepDate:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Dichloroethane	18.59	1.0	20	0	93.0	70 - 127				
Benzene	18.72	1.0	20	0	93.6	70 - 127				
Chlorobenzene	18.64	1.0	20	0	93.2	70 - 114				
Ethylbenzene	18.98	1.0	20	0	94.9	70 - 124				
Methylene chloride	20.36	2.0	20	0	102	70 - 128				
Toluene	19.33	1.0	20	0	96.7	70 - 123				
Vinyl chloride	19.08	1.0	20	0	95.4	70 - 130				
Xylenes, Total	57.2	1.0	60	0	95.3	70 - 130				
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>52.94</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>106</i>	<i>70 - 126</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>49.57</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>99.1</i>	<i>81 - 113</i>				
<i>Surr: Dibromofluoromethane</i>	<i>51.68</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>103</i>	<i>77 - 123</i>				
<i>Surr: Toluene-d8</i>	<i>50.19</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>100</i>	<i>82 - 127</i>				

MSD		Sample ID: HS20070774-22MSD			Units: ug/L		Analysis Date: 21-Jul-2020 02:45			
Client ID: WG-1620-MW88B-20200716		Run ID: VOA2_365345			SeqNo: 5667729		PrepDate:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Dichloroethane	18	1.0	20	0	90.0	70 - 127	18.59	3.21	20	
Benzene	18.4	1.0	20	0	92.0	70 - 127	18.72	1.74	20	
Chlorobenzene	18.24	1.0	20	0	91.2	70 - 114	18.64	2.17	20	
Ethylbenzene	18.84	1.0	20	0	94.2	70 - 124	18.98	0.727	20	
Methylene chloride	19.85	2.0	20	0	99.2	70 - 128	20.36	2.52	20	
Toluene	19.11	1.0	20	0	95.6	70 - 123	19.33	1.14	20	
Vinyl chloride	18.81	1.0	20	0	94.1	70 - 130	19.08	1.42	20	
Xylenes, Total	56.6	1.0	60	0	94.3	70 - 130	57.2	1.05	20	
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>52.53</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>105</i>	<i>70 - 126</i>	<i>52.94</i>	<i>0.781</i>	<i>20</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>49.74</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>99.5</i>	<i>81 - 113</i>	<i>49.57</i>	<i>0.346</i>	<i>20</i>	
<i>Surr: Dibromofluoromethane</i>	<i>51.02</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>102</i>	<i>77 - 123</i>	<i>51.68</i>	<i>1.28</i>	<i>20</i>	
<i>Surr: Toluene-d8</i>	<i>50.03</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>100</i>	<i>82 - 127</i>	<i>50.19</i>	<i>0.325</i>	<i>20</i>	

The following samples were analyzed in this batch:

HS20070774-06	HS20070774-07	HS20070774-08	HS20070774-09
HS20070774-10	HS20070774-11	HS20070774-12	HS20070774-13
HS20070774-14	HS20070774-16	HS20070774-17	HS20070774-18
HS20070774-19	HS20070774-20	HS20070774-21	HS20070774-22
HS20070774-23	HS20070774-24	HS20070774-25	HS20070774-26

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20070774

QC BATCH REPORT

Batch ID: R365396 (0)		Instrument: VOA2		Method: LOW LEVEL VOLATILES BY SW8260C					
MBLK	Sample ID: VBLKW-200721	Units: ug/L			Analysis Date: 21-Jul-2020 12:17				
Client ID:	Run ID: VOA2_365396	SeqNo: 5668671		PrepDate:		DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

1,2-Dichloroethane	U	1.0							
Benzene	U	1.0							
Chlorobenzene	U	1.0							
Ethylbenzene	U	1.0							
Methylene chloride	U	2.0							
Toluene	U	1.0							
Vinyl chloride	U	1.0							
Xylenes, Total	U	1.0							
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>50.48</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>101</i>	<i>70 - 123</i>			
<i>Surr: 4-Bromofluorobenzene</i>	<i>49.81</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>99.6</i>	<i>82 - 115</i>			
<i>Surr: Dibromofluoromethane</i>	<i>51.39</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>103</i>	<i>73 - 126</i>			
<i>Surr: Toluene-d8</i>	<i>50.9</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>102</i>	<i>81 - 120</i>			

LCS	Sample ID: VLCSW-200721	Units: ug/L			Analysis Date: 21-Jul-2020 11:30				
Client ID:	Run ID: VOA2_365396	SeqNo: 5668670		PrepDate:		DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

1,2-Dichloroethane	18.6	1.0	20	0	93.0	70 - 124			
Benzene	18.66	1.0	20	0	93.3	74 - 120			
Chlorobenzene	18.61	1.0	20	0	93.1	76 - 113			
Ethylbenzene	18.88	1.0	20	0	94.4	77 - 117			
Methylene chloride	20.03	2.0	20	0	100	70 - 127			
Toluene	19.19	1.0	20	0	96.0	77 - 118			
Vinyl chloride	20.31	1.0	20	0	102	70 - 130			
Xylenes, Total	57.56	1.0	60	0	95.9	75 - 122			
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>52.05</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>104</i>	<i>70 - 130</i>			
<i>Surr: 4-Bromofluorobenzene</i>	<i>49.25</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>98.5</i>	<i>82 - 115</i>			
<i>Surr: Dibromofluoromethane</i>	<i>51.3</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>103</i>	<i>73 - 126</i>			
<i>Surr: Toluene-d8</i>	<i>49.43</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>98.9</i>	<i>81 - 120</i>			

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20070774

QC BATCH REPORT

Batch ID: R365396 (0) **Instrument:** VOA2 **Method:** LOW LEVEL VOLATILES BY SW8260C

MS		Sample ID: HS20070774-28MS			Units: ug/L		Analysis Date: 21-Jul-2020 15:03			
Client ID: WG-1620-TW41B-20200717		Run ID: VOA2_365396			SeqNo: 5669070		PrepDate:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Dichloroethane	18.47	1.0	20	0	92.3	70 - 127				
Benzene	20.3	1.0	20	1.683	93.1	70 - 127				
Chlorobenzene	18.65	1.0	20	0	93.2	70 - 114				
Ethylbenzene	20.3	1.0	20	1.482	94.1	70 - 124				
Methylene chloride	18.73	2.0	20	0	93.6	70 - 128				
Toluene	20.6	1.0	20	1.607	95.0	70 - 123				
Vinyl chloride	18.72	1.0	20	0	93.6	70 - 130				
Xylenes, Total	77.49	1.0	60	21.1	94.0	70 - 130				
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>52.59</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>105</i>	<i>70 - 126</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>50.43</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>101</i>	<i>81 - 113</i>				
<i>Surr: Dibromofluoromethane</i>	<i>50.56</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>101</i>	<i>77 - 123</i>				
<i>Surr: Toluene-d8</i>	<i>49.5</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>99.0</i>	<i>82 - 127</i>				

MSD		Sample ID: HS20070774-28MSD			Units: ug/L		Analysis Date: 21-Jul-2020 15:27			
Client ID: WG-1620-TW41B-20200717		Run ID: VOA2_365396			SeqNo: 5669071		PrepDate:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Dichloroethane	19.21	1.0	20	0	96.0	70 - 127	18.47	3.93	20	
Benzene	21.12	1.0	20	1.683	97.2	70 - 127	20.3	3.95	20	
Chlorobenzene	19.28	1.0	20	0	96.4	70 - 114	18.65	3.36	20	
Ethylbenzene	20.89	1.0	20	1.482	97.0	70 - 124	20.3	2.88	20	
Methylene chloride	19.18	2.0	20	0	95.9	70 - 128	18.73	2.38	20	
Toluene	21.45	1.0	20	1.607	99.2	70 - 123	20.6	4.05	20	
Vinyl chloride	19.86	1.0	20	0	99.3	70 - 130	18.72	5.92	20	
Xylenes, Total	80.29	1.0	60	21.1	98.6	70 - 130	77.49	3.54	20	
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>51.69</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>103</i>	<i>70 - 126</i>	<i>52.59</i>	<i>1.73</i>	<i>20</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>50.37</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>101</i>	<i>81 - 113</i>	<i>50.43</i>	<i>0.133</i>	<i>20</i>	
<i>Surr: Dibromofluoromethane</i>	<i>50.26</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>101</i>	<i>77 - 123</i>	<i>50.56</i>	<i>0.594</i>	<i>20</i>	
<i>Surr: Toluene-d8</i>	<i>50.01</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>100</i>	<i>82 - 127</i>	<i>49.5</i>	<i>1.03</i>	<i>20</i>	

The following samples were analyzed in this batch: HS20070774-05 HS20070774-15 HS20070774-27 HS20070774-28
 HS20070774-29 HS20070774-30 HS20070774-31

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20070774

**QUALIFIERS,
ACRONYMS, UNITS**

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
mg/L	Milligrams per Liter

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	20-030-0	26-Mar-2021
Dept of Defense	ANAB L2231 V009	22-Dec-2021
Illinois	2000322020-4	09-May-2021
Kansas	E-10352 2019-2020	31-Jul-2020
North Carolina	624-2020	31-Dec-2020
Oklahoma	2019-141	31-Aug-2020
Texas	T104704231-20-26	30-Apr-2021

Sample Receipt Checklist

Work Order ID: HS20070774

Date/Time Received: 17-Jul-2020 15:00

Client Name: PBW

Received by: Donald Gilmore

Completed By: /S/ Jared R. Makan	17-Jul-2020 18:16	Reviewed by: /S/ Dane J. Wacasey	20-Jul-2020 10:22
eSignature	Date/Time	eSignature	Date/Time

Matrices: **Water**

Carrier name: **ALS Courier**

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- VOA/TX1005/TX1006 Solids in hermetically sealed vials? Yes No Not Present
- Chain of custody present? Yes No 4 Page(s)
- Chain of custody signed when relinquished and received? Yes No COC IDs:227272, 227154, 227155, 227271
- Samplers name present on COC? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container/Temp Blank temperature in compliance? Yes No

Temperature(s)/Thermometer(s):	1.4°C, 1.2°C, 1.3°C, 0.8°C, 1.1°C, 0.9°C, 1.2°C	IR31
Cooler(s)/Kit(s):	43138, 43509, 43858, 45663, 43809, 44975, 45969	

Date/Time sample(s) sent to storage:	07/17/2020 18:20
--------------------------------------	------------------

- Water - VOA vials have zero headspace? Yes No No VOA vials submitted
- Water - pH acceptable upon receipt? Yes No N/A
- pH adjusted? Yes No N/A

pH adjusted by:

Login Notes:

Client Contacted:	Date Contacted:	Person Contacted:
-------------------	-----------------	-------------------

Contacted By:	Regarding:
---------------	------------

Comments:

Corrective Action:



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Chain of Custody Form

HS20070774

1/4

Page 1 of 1

COC ID: 227272

Golder Associates Inc.
Houston TX-Wood Preserving Works



ALS Project Manager:

Customer Information		Project Information	
Purchase Order	UPRR/Kevin Peterburs	Project Name	Houston TX-Wood Preserving Works
Work Order		Project Number	1620-07-Rev0 SR 92683
Company Name	Golder Associates	Bill To Company	Union Pacific Railroad- A/P
Send Report To	Eric Matzner	Invoice Attn	Accounts Payable
Address	2201 Double Creek Drive	Address	1400 Douglas Street
	Suite 4004		Stop 0750
City/State/Zip	Round Rock, TX 78664	City/State/Zip	Omaha NE 681790750
Phone	(512) 671-3434	Phone	
Fax	(512) 671-3446	Fax	
e-Mail Address	eric.matzner@pbwllc.com	e-Mail Address	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	WG-1620-TB02-20200716	7-16-20		Water	1	2		X									
2	WG-1620-MW03-20200715	7-15-20	1240	Groundwa	1,2,8	6	X		X	X							
3	WG-1620-MW04-20200715	7-15-20	1425	GW		6	X		X	X							
4	WG-1620-MW05-20200715	7-15-20	1335	GW		6	X		X	X							
5	WG-1620-MW09-20200715	7-15-20	1025	GW		6	X		X	X							
6	WG-1620-MW64A-20200715	7-15-20	1140	GW		6	X		X	X							
7	WG-1620-FB02-20200715	7-15-20	1445	GW		6		X	X	X							
8	WG-1620-MWS1C-20200716	7-16-20	0835	GW		6	X		X	X							
9	WG-1620-MWS1A-20200716	7-16-20	0925	GW		6	X		X	X							
10	WG-1620-MW86C-20200716	7-16-20	1015	GW		6	X		X	X							

Sampler(s) Please Print & Sign JOHN DEAYTONG		Shipment Method PICKUP		Required Turnaround Time: (Check Box) <input checked="" type="checkbox"/> STD 10 Wk Days <input type="checkbox"/> 5 Wk Days <input type="checkbox"/> 2 Wk Days <input type="checkbox"/> 24 Hour				Results Due Date:		
Relinquished by: [Signature]		Date: 7-17-20	Time: 13:29	Received by: [Signature]		Notes: UPRR Houston MWPW				
Relinquished by: [Signature]		Date: 7-17-20	Time: 15:00	Received by (Laboratory): [Signature]		Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)		
Logged by (Laboratory):		Date:	Time:	Checked by (Laboratory):		43338	1.4	<input type="checkbox"/> Level II Std QC	<input checked="" type="checkbox"/> TRRP Checklist	
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035						43507	1.2	<input type="checkbox"/> Level III Std QC/Raw Date	<input type="checkbox"/> TRRP Level IV	
						43858	1.3	<input type="checkbox"/> Level IV SW846/CUP		
								<input type="checkbox"/> Other		

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
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Page 2 of

COC ID: 227154

HS20070774

Golder Associates Inc.
Houston TX-Wood Preserving Works



Customer Information		Project Information		ALS Project Manager:	
Purchase Order	UPRR/Kevin Peterburs	Project Name	Houston TX-Wood Preserving Works	A	8260_LL_W (5632528 Volatile Organics Site Specific)
Work Order		Project Number	1620-07-Rev0 SR 92683	B	8260_LL_W (5632528 VOC Site Specific + V.C.)
Company Name	Golder Associates	Bill To Company	Union Pacific Railroad- A/P	C	8270_LOW_W (5632532 Semi/Volatiles Site specific)
Send Report To	Eric Matzner	Invoice Attn	Accounts Payable	D	ICP_TW (5638002 5652646 Metals - As)
Address	2201 Double Creek Drive	Address	1400 Douglas Street	E	
	Suite 4004		Stop 0750	F	
City/State/Zip	Round Rock, TX 78664	City/State/Zip	Omaha NE 681790750	G	
Phone	(512) 671-3434	Phone		H	
Fax	(512) 671-3446	Fax		I	
e-Mail Address	eric.matzner@pbwllc.com	e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	WG-1620-TB0-202007			Water	1	2		X									
2	WG-1620-MW97A-20200716	7-16-20	1105	Groundwa	1,2,8	6	X		X	X							
3	WG-1620-MW98B-20200716	7-16-20	1150	GW		6	X		X	X							
4	WG-1620-MW98A-20200716	7-16-20	1310	GW		6	X		X	X							
5	WG-1620-MW50B-20200716	7-16-20	1400	GW		6	X		X	X							
6	WG-1620-MW85C-20200716	7-16-20	1450	GW		6	X		X	X							
7	WG-1620-MW47C-20200716	7-16-20	1550	GW		6	X		X	X							
8	WG-1620-MW49A-20200716	7-16-20	1645	GW		6		X	X	X							
9	WG-1620-MW48C-20200716	7-16-20	1735	GW		6	X		X	X							
10																	

Sampler(s) Please Print & Sign JOHN BRAYTON		Shipment Method PICKUP	Required Turnaround Time: (Check Box) <input checked="" type="checkbox"/> STD 10 Wk Days <input type="checkbox"/> 5 Wk Days <input type="checkbox"/> 2 Wk Days <input type="checkbox"/> 24 Hour		Results Due Date:
Relinquished by: <i>[Signature]</i>	Date: 7-17-20	Time: 1329	Received by: <i>[Signature]</i>	Notes: UPRR Houston MWPW	
Relinquished by: <i>[Signature]</i>	Date: 7-17-20	Time: 1500	Received by (Laboratory): <i>[Signature]</i>	Cooler ID	Cooler Temp.
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	QC Package: (Check One Box Below)	
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035			<input type="checkbox"/> Level II Std QC <input type="checkbox"/> Level III Std QC/Flow Date <input type="checkbox"/> Level IV SW846/CLP <input type="checkbox"/> Other		

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COC ID: 227155

HS20070774

Golder Associates Inc.
Houston TX-Wood Preserving Works



ALS Project Manager:

Customer Information		Project Information	
Purchase Order	UPRR/Kevin Peterburs	Project Name	Houston TX-Wood Preserving Works
Work Order		Project Number	1620-07-Rev0 SR 92683
Company Name	Golder Associates	Bill To Company	Union Pacific Railroad- A/P
Send Report To	Eric Matzner	Invoice Attn	Accounts Payable
Address	2201 Double Creek Drive	Address	1400 Douglas Street
	Suite 4004		Stop 0750
City/State/Zip	Round Rock, TX 78664	City/State/Zip	Omaha NE 681790750
Phone	(512) 671-3434	Phone	
Fax	(512) 671-3446	Fax	
e-Mail Address	eric.matzner@pbwillc.com	e-Mail Address	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	WG-1620-TB0-20200716	7-16-20	16:00	Water	1	2	X	X									
2	WG-1620-MW 21C 20200716	7-16-20	8:40	Groundwa	1,2,8	6	X		X	X							
3	WG-1620-MW P11 20200716	7-16-20	10:25	W	1,2,8	6	X		X	X							
4	WG-1620-MW 62B 20200716	7-16-20	11:25	W	1,2,8	6	X		X	X							
5	WG-1620-MW 88B 20200716	7-16-20	12:25	W	1,2,8	6	X		X	X							
6	WG-1620-MW 88B MS 20200716	7-16-20	12:25	W	1,2,8	6	X	X	X	X							
7	WG-1620-MW 88B MS 20200716	7-16-20	12:25	W	1,2,8	6	X	X	X	X							
8	WG-1620-MW 42B 20200716	7-16-20	13:45	W	1,2,8	6	X		X	X							
9	WG-1620-MW 40B 20200716	7-16-20	14:45	W	1,2,8	6	X		X	X							
10	WG-1620-MW 39B 20200716	7-16-20	15:40	W	1,2,8	6	X		X	X							

Sampler(s) Please Print & Sign <i>Tim McSpadden</i>		Shipment Method Pickup		Required Turnaround Time: (Check Box) <input checked="" type="checkbox"/> STD 10 Wk Days <input type="checkbox"/> 5 Wk Days <input type="checkbox"/> 2 Wk Days <input type="checkbox"/> 24 Hour				Results Due Date:					
Relinquished by: <i>F. McSpadden</i>		Date: 7-17-20	Time: 13:29	Received by: <i>D. J.</i>		Notes: UPRR Houston MWPW							
Relinquished by: <i>D. J.</i>		Date: 7-17-20	Time: 15:00	Received by (Laboratory): <i>D. J.</i>		Cooler ID		Cooler Temp.		QC Package: (Check One Box Below)			
Logged by (Laboratory):		Date:	Time:	Checked by (Laboratory):						<input type="checkbox"/> Level II Std CC <input type="checkbox"/> Level III Std QC/Raw Data <input type="checkbox"/> Level IV SWS/CLP <input type="checkbox"/> Other			

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COC ID: 227271

HS20070774

Golder Associates Inc.
Houston TX-Wood Preserving Works



Customer Information		Project Information		ALS Project Manager:	
Purchase Order	UPRR/Kevin Peterburs	Project Name	Houston TX-Wood Preserving Works	A	8260_LL_W (5632528 Volatile Organics Site Specific)
Work Order		Project Number	1620-07-Rev0 SR 92688	B	8260_LL_W (5632528 VOC Site Specific + V.C.)
Company Name	Golder Associates	Bill To Company	Union Pacific Railroad- A/P	C	8270_LOW_W (5632532 SemiVolatiles Site specific)
Send Report To	Eric Matzner	Invoice Attn	Accounts Payable	D	ICP_TW (5636002 5652646 Metals - As)
Address	2201 Double Creek Drive	Address	1400 Douglas Street	E	
	Suite 4004		Stop 0750	F	
City/State/Zip	Round Rock, TX 78664	City/State/Zip	Omaha NE 681790750	G	
Phone	(512) 671-3434	Phone		H	
Fax	(512) 671-3446	Fax		I	
e-Mail Address	eric.matzner@pbwllc.com	e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	WG-1620-TB0 202007			Water	1	2		X									
2	WG-1620-DUP0120200716	7-16-20	-	Groundwa	1,2,8	6	X		X	X							
3	WG-1620-FB0320200716	7-16-20	1600	W	1,2,8	6	X	X	X	X							
4	WG-1620-TW41B20200717	7-17-20	9:00	W	1,2,8	6	X		X	X							
5	WG-1620-MW12A20200717	7-17-20	10:10	W	1,2,8	6	X		X	X							
6	WG-1620-MW12C20200717	7-17-20	10:40	W	1,2,8	6	X		X	X							
7	WG-1620-FB0420200717	7-17-20	1130	W	1,2,8	6	X	X	X	X							
8																	
9																	
10																	

Sampler(s) Please Print & Sign <i>Tim McSpadden</i>		Shipment Method Pickup		Required Turnaround Time: (Check Box)				Results Due Date:	
<i>T. McSpadden</i>		<i>T. McSpadden</i>		<input checked="" type="checkbox"/> STD 10 Wk Days	<input type="checkbox"/> 5 Wk Days	<input type="checkbox"/> 2 Wk Days	<input type="checkbox"/> 24 Hour		
Relinquished by:	Date: 7-17-20	Time: 1329	Received by:	Notes: UPRR Houston MWPW					
<i>D. J.</i>	Date: 7-17-20	Time: 1500	Received by (Laboratory):	Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)			
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):			<input type="checkbox"/> Level II Std QC	<input checked="" type="checkbox"/> TRRP CheckList		
						<input type="checkbox"/> Level III Std QC/Raw Data	<input type="checkbox"/> TRRP Level IV		
						<input type="checkbox"/> Level IV SW826/CLP			
						<input type="checkbox"/> Other			

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August 03, 2020

Eric Matzner
Golder Associates Inc.
2201 Double Creek Drive
Suite 4004
Round Rock, TX 78664

Work Order: **HS20070941**

Laboratory Results for: **Houston TX-Wood Preserving Works**

Dear Eric Matzner,

ALS Environmental received 19 sample(s) on Jul 21, 2020 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: JUMOKE.LAWAL
Dane J. Wacasey

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20070941

**TRRP Laboratory Data
Package Cover Page**

This data package consists of all or some of the following as applicable:

This signature page, the laboratory review checklist, and the following reportable data:

- R1 Field chain-of-custody documentation;
- R2 Sample identification cross-reference;
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
 - a) Items consistent with NELAC Chapter 5,
 - b) dilution factors,
 - c) preparation methods,
 - d) cleanup methods, and
 - e) if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate recovery data including:
 - a) Calculated recovery (%R), and
 - b) The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
 - a) LCS spiking amounts,
 - b) Calculated %R for each analyte, and
 - c) The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a) Samples associated with the MS/MSD clearly identified,
 - b) MS/MSD spiking amounts,
 - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d) Calculated %Rs and relative percent differences (RPDs), and
 - e) The laboratory's MS/MSD QC limits.
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
 - a) the amount of analyte measured in the duplicate,
 - b) the calculated RPD, and
 - c) the laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.
- R10 Other problems or anomalies.
The Exception Report for each "No" or "Not Reviewed (NR)" item in Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20070941

**TRRP Laboratory Data
Package Cover Page**

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory have been identified by the laboratory in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Check, if applicable: [NA] This laboratory meets an exception under 30 TAC §25.6 and was last inspected by TCEQ or _____ on (enter date of last inspection). Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.



Dane J. Wacasey

Laboratory Review Checklist: Reportable Data							
Laboratory Name: ALS Laboratory Group				LRC Date: 08/03/2020			
Project Name: Houston TX-Wood Preserving Works				Laboratory Job Number: HS20070941			
Reviewer Name: Dane Wacasey				Prep Batch Number: 155764, 155815,R365498,R365554			
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
R1	OI	Chain-of-custody (C-O-C)					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?	X				
R2	OI	Sample and quality control (QC) identification					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	Test reports					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?			X		
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW-846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	Surrogate recovery data					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?		X			1
R5	OI	Test reports/summary forms for blank samples					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	Laboratory control samples (LCS):					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?	X				
		Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	Analytical duplicate data					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	Method quantitation limits (MQLs):					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	Other problems/anomalies					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Were all necessary corrective actions performed for the reported data?	X				
		Was applicable and available technology used to lower the SDL and minimize the matrix interference affects on the sample results?	X				2
		Is the laboratory NELAC-accredited under the Texas Laboratory Program for the analytes, matrices and methods associated with this laboratory data package?	X				

Laboratory Review Checklist: Supporting Data							
Laboratory Name: ALS Laboratory Group				LRC Date: 08/03/2020			
Project Name: Houston TX-Wood Preserving Works				Laboratory Job Number: HS20070941			
Reviewer Name: Dane Wacasey				Prep Batch Number: 155764, 155815,R365498,R365554			
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S1	OI	Initial calibration (ICAL)					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB)					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	Mass spectral tuning:					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	Internal standards (IS):					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	Raw data (NELAC section 1 appendix A glossary, and section 5.12 or ISO/IEC 17025 section)					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	Dual column confirmation					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	Tentatively identified compounds (TICs):					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	Interference Check Sample (ICS) results:					
		Were percent recoveries within method QC limits?	X				
S9	I	Serial dilutions, post digestion spikes, and method of standard additions					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	X				
S10	OI	Method detection limit (MDL) studies					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	Proficiency test reports:					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards documentation					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/analyte identification procedures					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of analyst competency (DOC)					
		Was DOC conducted consistent with NELAC Chapter 5C or ISO/IEC 4?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/validation documentation for methods (NELAC Chap 5 or ISO/IEC 17025 Section 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory standard operating procedures (SOPs):					
		Are laboratory SOPs current and on file for each method performed?	X				

Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

O = Organic Analyses; I = Inorganic Analyses (and general chemistry, when applicable);

NA = Not Applicable;

NR = Not Reviewed;

R# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Exception Reports

Laboratory Name: ALS Laboratory Group		LRC Date: 08/03/2020
Project Name: Houston TX-Wood Preserving Works		Laboratory Job Number: HS20070941
Reviewer Name: Dane Wacasey		Prep Batch Number: 155764, 155815,R365498,R365554
ER# ⁵	Description	
1	Semivolatile Organics Method SW8270, sample WG-1620-MW78A-20200720, the surrogate recoveries could not be determined due to dilution below the calibration range.	
2	Batch 155764, Semivolatile Organics Method SW8270, sample WG-1620-MW78A-20200720, the GCMS semi-volatile extract of this sample was run at a dilution due to a high level of matrix interference.	
<p>Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.</p> <p>O = Organic Analyses; I = Inorganic Analyses (and general chemistry, when applicable); NA = Not Applicable; NR = Not Reviewed; R# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).</p>		

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
Work Order: HS20070941

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS20070941-01	WQ-1620-TB03-20200721	Water	CG 061220 -211	21-Jul-2020 00:00	21-Jul-2020 12:38	<input type="checkbox"/>
HS20070941-02	WG-1620-MW95A-20200720	Groundwater		20-Jul-2020 09:15	21-Jul-2020 12:38	<input type="checkbox"/>
HS20070941-03	WG-1620-MW38A-20200720	Groundwater		20-Jul-2020 10:20	21-Jul-2020 12:38	<input type="checkbox"/>
HS20070941-04	WG-1620-MW38B-20200720	Groundwater		20-Jul-2020 11:20	21-Jul-2020 12:38	<input type="checkbox"/>
HS20070941-05	WG-1620-MW22AR-20200720	Groundwater		20-Jul-2020 12:15	21-Jul-2020 12:38	<input type="checkbox"/>
HS20070941-06	WG-1620-MW22BR-20200720	Groundwater		20-Jul-2020 13:00	21-Jul-2020 12:38	<input type="checkbox"/>
HS20070941-07	WG-1620-MW96B-20200720	Groundwater		20-Jul-2020 13:55	21-Jul-2020 12:38	<input type="checkbox"/>
HS20070941-08	WG-1620-MW94A-20200720	Groundwater		20-Jul-2020 14:45	21-Jul-2020 12:38	<input type="checkbox"/>
HS20070941-09	WG-1620-MW82B-20200720	Groundwater		20-Jul-2020 15:35	21-Jul-2020 12:38	<input type="checkbox"/>
HS20070941-10	WG-1620-FB05-20200720	Water		20-Jul-2020 16:00	21-Jul-2020 12:38	<input type="checkbox"/>
HS20070941-11	WG-1620-MW80B-20200720	Groundwater		20-Jul-2020 08:05	21-Jul-2020 12:38	<input type="checkbox"/>
HS20070941-12	WG-1620-MW77A-20200720	Groundwater		20-Jul-2020 09:00	21-Jul-2020 12:38	<input type="checkbox"/>
HS20070941-13	WG-1620-MW76B-20200720	Groundwater		20-Jul-2020 09:50	21-Jul-2020 12:38	<input type="checkbox"/>
HS20070941-14	WG-1620-MW76C-20200720	Groundwater		20-Jul-2020 10:35	21-Jul-2020 12:38	<input type="checkbox"/>
HS20070941-15	WG-1620-MW78A-20200720	Groundwater		20-Jul-2020 11:25	21-Jul-2020 12:38	<input type="checkbox"/>
HS20070941-16	WG-1620-MW61A-20200720	Groundwater		20-Jul-2020 12:30	21-Jul-2020 12:38	<input type="checkbox"/>
HS20070941-17	WG-1620-MW61B-20200720	Groundwater		20-Jul-2020 13:55	21-Jul-2020 12:38	<input type="checkbox"/>
HS20070941-18	WG-1620-MW60AR-20200720	Groundwater		20-Jul-2020 14:50	21-Jul-2020 12:38	<input type="checkbox"/>
HS20070941-19	WG-1620-MW60B-20200720	Groundwater		20-Jul-2020 15:35	21-Jul-2020 12:38	<input type="checkbox"/>

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WQ-1620-TB03-20200721
 Collection Date: 21-Jul-2020 00:00

ANALYTICAL REPORT
 WorkOrder:HS20070941
 Lab ID:HS20070941-01
 Matrix:Water

ANALYSES	RESULT	QUAL	SDL	MLL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	22-Jul-2020 12:30
Benzene	U		0.00020	0.0010	mg/L	1	22-Jul-2020 12:30
Chlorobenzene	U		0.00030	0.0010	mg/L	1	22-Jul-2020 12:30
Ethylbenzene	U		0.00030	0.0010	mg/L	1	22-Jul-2020 12:30
Methylene chloride	U		0.0010	0.0020	mg/L	1	22-Jul-2020 12:30
Toluene	U		0.00020	0.0010	mg/L	1	22-Jul-2020 12:30
Vinyl chloride	U		0.00020	0.0010	mg/L	1	22-Jul-2020 12:30
Xylenes, Total	U		0.00030	0.0010	mg/L	1	22-Jul-2020 12:30
<i>Surr: 1,2-Dichloroethane-d4</i>		<i>105</i>		<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>22-Jul-2020 12:30</i>
<i>Surr: 4-Bromofluorobenzene</i>		<i>98.4</i>		<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>22-Jul-2020 12:30</i>
<i>Surr: Dibromofluoromethane</i>		<i>102</i>		<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>22-Jul-2020 12:30</i>
<i>Surr: Toluene-d8</i>		<i>102</i>		<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>22-Jul-2020 12:30</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW95A-20200720
 Collection Date: 20-Jul-2020 09:15

ANALYTICAL REPORT
 WorkOrder:HS20070941
 Lab ID:HS20070941-02
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	22-Jul-2020 14:43
Benzene	U		0.00020	0.0010	mg/L	1	22-Jul-2020 14:43
Chlorobenzene	U		0.00030	0.0010	mg/L	1	22-Jul-2020 14:43
Ethylbenzene	U		0.00030	0.0010	mg/L	1	22-Jul-2020 14:43
Methylene chloride	U		0.0010	0.0020	mg/L	1	22-Jul-2020 14:43
Toluene	U		0.00020	0.0010	mg/L	1	22-Jul-2020 14:43
Xylenes, Total	U		0.00030	0.0010	mg/L	1	22-Jul-2020 14:43
<i>Surr: 1,2-Dichloroethane-d4</i>		<i>104</i>		<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>22-Jul-2020 14:43</i>
<i>Surr: 4-Bromofluorobenzene</i>		<i>99.4</i>		<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>22-Jul-2020 14:43</i>
<i>Surr: Dibromofluoromethane</i>		<i>103</i>		<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>22-Jul-2020 14:43</i>
<i>Surr: Toluene-d8</i>		<i>99.9</i>		<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>22-Jul-2020 14:43</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW95A-20200720
 Collection Date: 20-Jul-2020 09:15

ANALYTICAL REPORT
 WorkOrder:HS20070941
 Lab ID:HS20070941-02
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 24-Jul-2020		Analyst: GEY	
1,2-Diphenylhydrazine	U		0.000021	0.00020	mg/L	1	31-Jul-2020 03:06
2,4-Dimethylphenol	U		0.000040	0.00020	mg/L	1	31-Jul-2020 03:06
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	31-Jul-2020 03:06
2,6-Dinitrotoluene	U		0.000042	0.00020	mg/L	1	31-Jul-2020 03:06
2-Chloronaphthalene	U		0.000021	0.00020	mg/L	1	31-Jul-2020 03:06
2-Methylnaphthalene	U		0.000019	0.00010	mg/L	1	31-Jul-2020 03:06
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	31-Jul-2020 03:06
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	31-Jul-2020 03:06
Acenaphthene	U		0.000027	0.00010	mg/L	1	31-Jul-2020 03:06
Acenaphthylene	U		0.000015	0.00010	mg/L	1	31-Jul-2020 03:06
Anthracene	U		0.000014	0.00010	mg/L	1	31-Jul-2020 03:06
Benz(a)anthracene	U		0.000050	0.00010	mg/L	1	31-Jul-2020 03:06
Benzo(a)pyrene	U		0.000020	0.00010	mg/L	1	31-Jul-2020 03:06
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	31-Jul-2020 03:06
Bis(2-ethylhexyl)phthalate	U		0.000037	0.00020	mg/L	1	31-Jul-2020 03:06
Chrysene	U		0.000021	0.00010	mg/L	1	31-Jul-2020 03:06
Dibenzofuran	U		0.000020	0.00010	mg/L	1	31-Jul-2020 03:06
Di-n-butyl phthalate	U		0.000020	0.00020	mg/L	1	31-Jul-2020 03:06
Fluoranthene	U		0.000010	0.00010	mg/L	1	31-Jul-2020 03:06
Fluorene	U		0.000030	0.00010	mg/L	1	31-Jul-2020 03:06
Naphthalene	U		0.000020	0.00010	mg/L	1	31-Jul-2020 03:06
Nitrobenzene	U		0.000024	0.00020	mg/L	1	31-Jul-2020 03:06
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	31-Jul-2020 03:06
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	31-Jul-2020 03:06
Phenanthrene	U		0.000021	0.00010	mg/L	1	31-Jul-2020 03:06
Phenol	U		0.000035	0.00020	mg/L	1	31-Jul-2020 03:06
Pyrene	U		0.000019	0.00010	mg/L	1	31-Jul-2020 03:06
Surr: 2,4,6-Tribromophenol	46.8			34-129	%REC	1	31-Jul-2020 03:06
Surr: 2-Fluorobiphenyl	42.3			40-125	%REC	1	31-Jul-2020 03:06
Surr: 2-Fluorophenol	42.0			20-120	%REC	1	31-Jul-2020 03:06
Surr: 4-Terphenyl-d14	44.7			40-135	%REC	1	31-Jul-2020 03:06
Surr: Nitrobenzene-d5	49.0			41-120	%REC	1	31-Jul-2020 03:06
Surr: Phenol-d6	46.4			20-120	%REC	1	31-Jul-2020 03:06
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 27-Jul-2020		Analyst: JHD	
Arsenic	0.00378		0.000400	0.00200	mg/L	1	27-Jul-2020 21:39

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW38A-20200720
 Collection Date: 20-Jul-2020 10:20

ANALYTICAL REPORT
 WorkOrder:HS20070941
 Lab ID:HS20070941-03
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	22-Jul-2020 15:05
Benzene	U		0.00020	0.0010	mg/L	1	22-Jul-2020 15:05
Chlorobenzene	U		0.00030	0.0010	mg/L	1	22-Jul-2020 15:05
Ethylbenzene	U		0.00030	0.0010	mg/L	1	22-Jul-2020 15:05
Methylene chloride	U		0.0010	0.0020	mg/L	1	22-Jul-2020 15:05
Toluene	U		0.00020	0.0010	mg/L	1	22-Jul-2020 15:05
Xylenes, Total	U		0.00030	0.0010	mg/L	1	22-Jul-2020 15:05
<i>Surr: 1,2-Dichloroethane-d4</i>		<i>106</i>		<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>22-Jul-2020 15:05</i>
<i>Surr: 4-Bromofluorobenzene</i>		<i>98.6</i>		<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>22-Jul-2020 15:05</i>
<i>Surr: Dibromofluoromethane</i>		<i>105</i>		<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>22-Jul-2020 15:05</i>
<i>Surr: Toluene-d8</i>		<i>101</i>		<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>22-Jul-2020 15:05</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW38A-20200720
 Collection Date: 20-Jul-2020 10:20

ANALYTICAL REPORT
 WorkOrder:HS20070941
 Lab ID:HS20070941-03
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 24-Jul-2020		Analyst: GEY	
1,2-Diphenylhydrazine	U		0.000021	0.00020	mg/L	1	31-Jul-2020 03:25
2,4-Dimethylphenol	U		0.000040	0.00020	mg/L	1	31-Jul-2020 03:25
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	31-Jul-2020 03:25
2,6-Dinitrotoluene	U		0.000042	0.00020	mg/L	1	31-Jul-2020 03:25
2-Chloronaphthalene	U		0.000021	0.00020	mg/L	1	31-Jul-2020 03:25
2-Methylnaphthalene	U		0.000019	0.00010	mg/L	1	31-Jul-2020 03:25
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	31-Jul-2020 03:25
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	31-Jul-2020 03:25
Acenaphthene	0.000089	J	0.000027	0.00010	mg/L	1	31-Jul-2020 03:25
Acenaphthylene	U		0.000015	0.00010	mg/L	1	31-Jul-2020 03:25
Anthracene	U		0.000014	0.00010	mg/L	1	31-Jul-2020 03:25
Benz(a)anthracene	U		0.000050	0.00010	mg/L	1	31-Jul-2020 03:25
Benzo(a)pyrene	U		0.000020	0.00010	mg/L	1	31-Jul-2020 03:25
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	31-Jul-2020 03:25
Bis(2-ethylhexyl)phthalate	U		0.000037	0.00020	mg/L	1	31-Jul-2020 03:25
Chrysene	U		0.000021	0.00010	mg/L	1	31-Jul-2020 03:25
Dibenzofuran	U		0.000020	0.00010	mg/L	1	31-Jul-2020 03:25
Di-n-butyl phthalate	U		0.000020	0.00020	mg/L	1	31-Jul-2020 03:25
Fluoranthene	U		0.000010	0.00010	mg/L	1	31-Jul-2020 03:25
Fluorene	U		0.000030	0.00010	mg/L	1	31-Jul-2020 03:25
Naphthalene	U		0.000020	0.00010	mg/L	1	31-Jul-2020 03:25
Nitrobenzene	U		0.000024	0.00020	mg/L	1	31-Jul-2020 03:25
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	31-Jul-2020 03:25
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	31-Jul-2020 03:25
Phenanthrene	U		0.000021	0.00010	mg/L	1	31-Jul-2020 03:25
Phenol	U		0.000035	0.00020	mg/L	1	31-Jul-2020 03:25
Pyrene	U		0.000019	0.00010	mg/L	1	31-Jul-2020 03:25
<i>Surr: 2,4,6-Tribromophenol</i>	<i>50.2</i>			<i>34-129</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 03:25</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>40.9</i>			<i>40-125</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 03:25</i>
<i>Surr: 2-Fluorophenol</i>	<i>55.9</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 03:25</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>67.8</i>			<i>40-135</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 03:25</i>
<i>Surr: Nitrobenzene-d5</i>	<i>54.2</i>			<i>41-120</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 03:25</i>
<i>Surr: Phenol-d6</i>	<i>63.0</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 03:25</i>
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 27-Jul-2020		Analyst: JHD	
Arsenic	0.00512		0.000400	0.00200	mg/L	1	27-Jul-2020 21:41

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW38B-20200720
 Collection Date: 20-Jul-2020 11:20

ANALYTICAL REPORT
 WorkOrder:HS20070941
 Lab ID:HS20070941-04
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	22-Jul-2020 15:27
Benzene	U		0.00020	0.0010	mg/L	1	22-Jul-2020 15:27
Chlorobenzene	U		0.00030	0.0010	mg/L	1	22-Jul-2020 15:27
Ethylbenzene	U		0.00030	0.0010	mg/L	1	22-Jul-2020 15:27
Methylene chloride	U		0.0010	0.0020	mg/L	1	22-Jul-2020 15:27
Toluene	U		0.00020	0.0010	mg/L	1	22-Jul-2020 15:27
Xylenes, Total	U		0.00030	0.0010	mg/L	1	22-Jul-2020 15:27
<i>Surr: 1,2-Dichloroethane-d4</i>		106		70-126	%REC	1	22-Jul-2020 15:27
<i>Surr: 4-Bromofluorobenzene</i>		100		81-113	%REC	1	22-Jul-2020 15:27
<i>Surr: Dibromofluoromethane</i>		104		77-123	%REC	1	22-Jul-2020 15:27
<i>Surr: Toluene-d8</i>		99.7		82-127	%REC	1	22-Jul-2020 15:27

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW38B-20200720
 Collection Date: 20-Jul-2020 11:20

ANALYTICAL REPORT
 WorkOrder:HS20070941
 Lab ID:HS20070941-04
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 24-Jul-2020		Analyst: GEY	
1,2-Diphenylhydrazine	U		0.000021	0.00020	mg/L	1	31-Jul-2020 03:45
2,4-Dimethylphenol	U		0.000040	0.00020	mg/L	1	31-Jul-2020 03:45
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	31-Jul-2020 03:45
2,6-Dinitrotoluene	U		0.000042	0.00020	mg/L	1	31-Jul-2020 03:45
2-Chloronaphthalene	U		0.000021	0.00020	mg/L	1	31-Jul-2020 03:45
2-Methylnaphthalene	U		0.000019	0.00010	mg/L	1	31-Jul-2020 03:45
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	31-Jul-2020 03:45
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	31-Jul-2020 03:45
Acenaphthene	U		0.000027	0.00010	mg/L	1	31-Jul-2020 03:45
Acenaphthylene	U		0.000015	0.00010	mg/L	1	31-Jul-2020 03:45
Anthracene	U		0.000014	0.00010	mg/L	1	31-Jul-2020 03:45
Benz(a)anthracene	U		0.000050	0.00010	mg/L	1	31-Jul-2020 03:45
Benzo(a)pyrene	U		0.000020	0.00010	mg/L	1	31-Jul-2020 03:45
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	31-Jul-2020 03:45
Bis(2-ethylhexyl)phthalate	U		0.000037	0.00020	mg/L	1	31-Jul-2020 03:45
Chrysene	U		0.000021	0.00010	mg/L	1	31-Jul-2020 03:45
Dibenzofuran	U		0.000020	0.00010	mg/L	1	31-Jul-2020 03:45
Di-n-butyl phthalate	U		0.000020	0.00020	mg/L	1	31-Jul-2020 03:45
Fluoranthene	U		0.000010	0.00010	mg/L	1	31-Jul-2020 03:45
Fluorene	U		0.000030	0.00010	mg/L	1	31-Jul-2020 03:45
Naphthalene	U		0.000020	0.00010	mg/L	1	31-Jul-2020 03:45
Nitrobenzene	U		0.000024	0.00020	mg/L	1	31-Jul-2020 03:45
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	31-Jul-2020 03:45
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	31-Jul-2020 03:45
Phenanthrene	U		0.000021	0.00010	mg/L	1	31-Jul-2020 03:45
Phenol	U		0.000035	0.00020	mg/L	1	31-Jul-2020 03:45
Pyrene	U		0.000019	0.00010	mg/L	1	31-Jul-2020 03:45
Surr: 2,4,6-Tribromophenol	68.5			34-129	%REC	1	31-Jul-2020 03:45
Surr: 2-Fluorobiphenyl	55.2			40-125	%REC	1	31-Jul-2020 03:45
Surr: 2-Fluorophenol	64.5			20-120	%REC	1	31-Jul-2020 03:45
Surr: 4-Terphenyl-d14	89.7			40-135	%REC	1	31-Jul-2020 03:45
Surr: Nitrobenzene-d5	71.6			41-120	%REC	1	31-Jul-2020 03:45
Surr: Phenol-d6	85.3			20-120	%REC	1	31-Jul-2020 03:45
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 27-Jul-2020		Analyst: JHD	
Arsenic	0.000612	J	0.000400	0.00200	mg/L	1	27-Jul-2020 21:42

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW22AR-20200720
 Collection Date: 20-Jul-2020 12:15

ANALYTICAL REPORT
 WorkOrder:HS20070941
 Lab ID:HS20070941-05
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	22-Jul-2020 15:49
Benzene	U		0.00020	0.0010	mg/L	1	22-Jul-2020 15:49
Chlorobenzene	U		0.00030	0.0010	mg/L	1	22-Jul-2020 15:49
Ethylbenzene	U		0.00030	0.0010	mg/L	1	22-Jul-2020 15:49
Methylene chloride	U		0.0010	0.0020	mg/L	1	22-Jul-2020 15:49
Toluene	U		0.00020	0.0010	mg/L	1	22-Jul-2020 15:49
Xylenes, Total	U		0.00030	0.0010	mg/L	1	22-Jul-2020 15:49
<i>Surr: 1,2-Dichloroethane-d4</i>		106		70-126	%REC	1	22-Jul-2020 15:49
<i>Surr: 4-Bromofluorobenzene</i>		99.3		81-113	%REC	1	22-Jul-2020 15:49
<i>Surr: Dibromofluoromethane</i>		104		77-123	%REC	1	22-Jul-2020 15:49
<i>Surr: Toluene-d8</i>		100.0		82-127	%REC	1	22-Jul-2020 15:49

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW22AR-20200720
 Collection Date: 20-Jul-2020 12:15

ANALYTICAL REPORT
 WorkOrder:HS20070941
 Lab ID:HS20070941-05
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 24-Jul-2020		Analyst: GEY	
1,2-Diphenylhydrazine	U		0.000021	0.00020	mg/L	1	31-Jul-2020 04:04
2,4-Dimethylphenol	U		0.000040	0.00020	mg/L	1	31-Jul-2020 04:04
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	31-Jul-2020 04:04
2,6-Dinitrotoluene	U		0.000042	0.00020	mg/L	1	31-Jul-2020 04:04
2-Chloronaphthalene	U		0.000021	0.00020	mg/L	1	31-Jul-2020 04:04
2-Methylnaphthalene	U		0.000019	0.00010	mg/L	1	31-Jul-2020 04:04
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	31-Jul-2020 04:04
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	31-Jul-2020 04:04
Acenaphthene	U		0.000027	0.00010	mg/L	1	31-Jul-2020 04:04
Acenaphthylene	U		0.000015	0.00010	mg/L	1	31-Jul-2020 04:04
Anthracene	U		0.000014	0.00010	mg/L	1	31-Jul-2020 04:04
Benz(a)anthracene	U		0.000050	0.00010	mg/L	1	31-Jul-2020 04:04
Benzo(a)pyrene	U		0.000020	0.00010	mg/L	1	31-Jul-2020 04:04
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	31-Jul-2020 04:04
Bis(2-ethylhexyl)phthalate	U		0.000037	0.00020	mg/L	1	31-Jul-2020 04:04
Chrysene	U		0.000021	0.00010	mg/L	1	31-Jul-2020 04:04
Dibenzofuran	U		0.000020	0.00010	mg/L	1	31-Jul-2020 04:04
Di-n-butyl phthalate	U		0.000020	0.00020	mg/L	1	31-Jul-2020 04:04
Fluoranthene	U		0.000010	0.00010	mg/L	1	31-Jul-2020 04:04
Fluorene	U		0.000030	0.00010	mg/L	1	31-Jul-2020 04:04
Naphthalene	U		0.000020	0.00010	mg/L	1	31-Jul-2020 04:04
Nitrobenzene	U		0.000024	0.00020	mg/L	1	31-Jul-2020 04:04
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	31-Jul-2020 04:04
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	31-Jul-2020 04:04
Phenanthrene	U		0.000021	0.00010	mg/L	1	31-Jul-2020 04:04
Phenol	U		0.000035	0.00020	mg/L	1	31-Jul-2020 04:04
Pyrene	U		0.000019	0.00010	mg/L	1	31-Jul-2020 04:04
<i>Surr: 2,4,6-Tribromophenol</i>		61.4		34-129	%REC	1	31-Jul-2020 04:04
<i>Surr: 2-Fluorobiphenyl</i>		46.0		40-125	%REC	1	31-Jul-2020 04:04
<i>Surr: 2-Fluorophenol</i>		45.6		20-120	%REC	1	31-Jul-2020 04:04
<i>Surr: 4-Terphenyl-d14</i>		56.4		40-135	%REC	1	31-Jul-2020 04:04
<i>Surr: Nitrobenzene-d5</i>		47.2		41-120	%REC	1	31-Jul-2020 04:04
<i>Surr: Phenol-d6</i>		55.7		20-120	%REC	1	31-Jul-2020 04:04
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 27-Jul-2020		Analyst: JHD	
Arsenic	0.00822		0.000400	0.00200	mg/L	1	27-Jul-2020 21:44

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW22BR-20200720
 Collection Date: 20-Jul-2020 13:00

ANALYTICAL REPORT
 WorkOrder:HS20070941
 Lab ID:HS20070941-06
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	22-Jul-2020 16:11
Benzene	U		0.00020	0.0010	mg/L	1	22-Jul-2020 16:11
Chlorobenzene	U		0.00030	0.0010	mg/L	1	22-Jul-2020 16:11
Ethylbenzene	U		0.00030	0.0010	mg/L	1	22-Jul-2020 16:11
Methylene chloride	U		0.0010	0.0020	mg/L	1	22-Jul-2020 16:11
Toluene	U		0.00020	0.0010	mg/L	1	22-Jul-2020 16:11
Xylenes, Total	U		0.00030	0.0010	mg/L	1	22-Jul-2020 16:11
<i>Surr: 1,2-Dichloroethane-d4</i>		<i>105</i>		<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>22-Jul-2020 16:11</i>
<i>Surr: 4-Bromofluorobenzene</i>		<i>99.5</i>		<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>22-Jul-2020 16:11</i>
<i>Surr: Dibromofluoromethane</i>		<i>104</i>		<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>22-Jul-2020 16:11</i>
<i>Surr: Toluene-d8</i>		<i>100</i>		<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>22-Jul-2020 16:11</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW22BR-20200720
 Collection Date: 20-Jul-2020 13:00

ANALYTICAL REPORT
 WorkOrder:HS20070941
 Lab ID:HS20070941-06
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 24-Jul-2020		Analyst: GEY	
1,2-Diphenylhydrazine	U		0.000021	0.00020	mg/L	1	31-Jul-2020 04:24
2,4-Dimethylphenol	U		0.000040	0.00020	mg/L	1	31-Jul-2020 04:24
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	31-Jul-2020 04:24
2,6-Dinitrotoluene	U		0.000042	0.00020	mg/L	1	31-Jul-2020 04:24
2-Chloronaphthalene	U		0.000021	0.00020	mg/L	1	31-Jul-2020 04:24
2-Methylnaphthalene	U		0.000019	0.00010	mg/L	1	31-Jul-2020 04:24
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	31-Jul-2020 04:24
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	31-Jul-2020 04:24
Acenaphthene	0.0024		0.000027	0.00010	mg/L	1	31-Jul-2020 04:24
Acenaphthylene	U		0.000015	0.00010	mg/L	1	31-Jul-2020 04:24
Anthracene	U		0.000014	0.00010	mg/L	1	31-Jul-2020 04:24
Benz(a)anthracene	U		0.000050	0.00010	mg/L	1	31-Jul-2020 04:24
Benzo(a)pyrene	U		0.000020	0.00010	mg/L	1	31-Jul-2020 04:24
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	31-Jul-2020 04:24
Bis(2-ethylhexyl)phthalate	0.000064	J	0.000037	0.00020	mg/L	1	31-Jul-2020 04:24
Chrysene	U		0.000021	0.00010	mg/L	1	31-Jul-2020 04:24
Dibenzofuran	0.000057	J	0.000020	0.00010	mg/L	1	31-Jul-2020 04:24
Di-n-butyl phthalate	0.000052	J	0.000020	0.00020	mg/L	1	31-Jul-2020 04:24
Fluoranthene	0.00050		0.000010	0.00010	mg/L	1	31-Jul-2020 04:24
Fluorene	0.00036		0.000030	0.00010	mg/L	1	31-Jul-2020 04:24
Naphthalene	U		0.000020	0.00010	mg/L	1	31-Jul-2020 04:24
Nitrobenzene	U		0.000024	0.00020	mg/L	1	31-Jul-2020 04:24
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	31-Jul-2020 04:24
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	31-Jul-2020 04:24
Phenanthrene	U		0.000021	0.00010	mg/L	1	31-Jul-2020 04:24
Phenol	U		0.000035	0.00020	mg/L	1	31-Jul-2020 04:24
Pyrene	0.00023		0.000019	0.00010	mg/L	1	31-Jul-2020 04:24
<i>Surr: 2,4,6-Tribromophenol</i>	<i>45.8</i>			<i>34-129</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 04:24</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>47.7</i>			<i>40-125</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 04:24</i>
<i>Surr: 2-Fluorophenol</i>	<i>39.4</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 04:24</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>55.5</i>			<i>40-135</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 04:24</i>
<i>Surr: Nitrobenzene-d5</i>	<i>42.7</i>			<i>41-120</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 04:24</i>
<i>Surr: Phenol-d6</i>	<i>44.1</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 04:24</i>
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 27-Jul-2020		Analyst: JHD	
Arsenic	0.00882		0.000400	0.00200	mg/L	1	27-Jul-2020 21:46

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW96B-20200720
 Collection Date: 20-Jul-2020 13:55

ANALYTICAL REPORT
 WorkOrder:HS20070941
 Lab ID:HS20070941-07
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	22-Jul-2020 16:33
Benzene	U		0.00020	0.0010	mg/L	1	22-Jul-2020 16:33
Chlorobenzene	U		0.00030	0.0010	mg/L	1	22-Jul-2020 16:33
Ethylbenzene	U		0.00030	0.0010	mg/L	1	22-Jul-2020 16:33
Methylene chloride	U		0.0010	0.0020	mg/L	1	22-Jul-2020 16:33
Toluene	U		0.00020	0.0010	mg/L	1	22-Jul-2020 16:33
Xylenes, Total	U		0.00030	0.0010	mg/L	1	22-Jul-2020 16:33
<i>Surr: 1,2-Dichloroethane-d4</i>		<i>108</i>		<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>22-Jul-2020 16:33</i>
<i>Surr: 4-Bromofluorobenzene</i>		<i>98.9</i>		<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>22-Jul-2020 16:33</i>
<i>Surr: Dibromofluoromethane</i>		<i>105</i>		<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>22-Jul-2020 16:33</i>
<i>Surr: Toluene-d8</i>		<i>100</i>		<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>22-Jul-2020 16:33</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW96B-20200720
 Collection Date: 20-Jul-2020 13:55

ANALYTICAL REPORT
 WorkOrder:HS20070941
 Lab ID:HS20070941-07
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 24-Jul-2020		Analyst: GEY	
1,2-Diphenylhydrazine	U		0.000021	0.00020	mg/L	1	31-Jul-2020 04:43
2,4-Dimethylphenol	U		0.000040	0.00020	mg/L	1	31-Jul-2020 04:43
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	31-Jul-2020 04:43
2,6-Dinitrotoluene	U		0.000042	0.00020	mg/L	1	31-Jul-2020 04:43
2-Chloronaphthalene	U		0.000021	0.00020	mg/L	1	31-Jul-2020 04:43
2-Methylnaphthalene	U		0.000019	0.00010	mg/L	1	31-Jul-2020 04:43
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	31-Jul-2020 04:43
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	31-Jul-2020 04:43
Acenaphthene	U		0.000027	0.00010	mg/L	1	31-Jul-2020 04:43
Acenaphthylene	U		0.000015	0.00010	mg/L	1	31-Jul-2020 04:43
Anthracene	U		0.000014	0.00010	mg/L	1	31-Jul-2020 04:43
Benz(a)anthracene	U		0.000050	0.00010	mg/L	1	31-Jul-2020 04:43
Benzo(a)pyrene	U		0.000020	0.00010	mg/L	1	31-Jul-2020 04:43
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	31-Jul-2020 04:43
Bis(2-ethylhexyl)phthalate	U		0.000037	0.00020	mg/L	1	31-Jul-2020 04:43
Chrysene	U		0.000021	0.00010	mg/L	1	31-Jul-2020 04:43
Dibenzofuran	U		0.000020	0.00010	mg/L	1	31-Jul-2020 04:43
Di-n-butyl phthalate	U		0.000020	0.00020	mg/L	1	31-Jul-2020 04:43
Fluoranthene	U		0.000010	0.00010	mg/L	1	31-Jul-2020 04:43
Fluorene	U		0.000030	0.00010	mg/L	1	31-Jul-2020 04:43
Naphthalene	U		0.000020	0.00010	mg/L	1	31-Jul-2020 04:43
Nitrobenzene	U		0.000024	0.00020	mg/L	1	31-Jul-2020 04:43
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	31-Jul-2020 04:43
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	31-Jul-2020 04:43
Phenanthrene	U		0.000021	0.00010	mg/L	1	31-Jul-2020 04:43
Phenol	U		0.000035	0.00020	mg/L	1	31-Jul-2020 04:43
Pyrene	U		0.000019	0.00010	mg/L	1	31-Jul-2020 04:43
<i>Surr: 2,4,6-Tribromophenol</i>	<i>88.0</i>			<i>34-129</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 04:43</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>52.0</i>			<i>40-125</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 04:43</i>
<i>Surr: 2-Fluorophenol</i>	<i>54.9</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 04:43</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>83.6</i>			<i>40-135</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 04:43</i>
<i>Surr: Nitrobenzene-d5</i>	<i>61.5</i>			<i>41-120</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 04:43</i>
<i>Surr: Phenol-d6</i>	<i>63.6</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 04:43</i>
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 27-Jul-2020		Analyst: JHD	
Arsenic	0.00192	J	0.000400	0.00200	mg/L	1	27-Jul-2020 21:48

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW94A-20200720
 Collection Date: 20-Jul-2020 14:45

ANALYTICAL REPORT
 WorkOrder:HS20070941
 Lab ID:HS20070941-08
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	22-Jul-2020 16:55
Benzene	U		0.00020	0.0010	mg/L	1	22-Jul-2020 16:55
Chlorobenzene	U		0.00030	0.0010	mg/L	1	22-Jul-2020 16:55
Ethylbenzene	U		0.00030	0.0010	mg/L	1	22-Jul-2020 16:55
Methylene chloride	U		0.0010	0.0020	mg/L	1	22-Jul-2020 16:55
Toluene	U		0.00020	0.0010	mg/L	1	22-Jul-2020 16:55
Xylenes, Total	U		0.00030	0.0010	mg/L	1	22-Jul-2020 16:55
<i>Surr: 1,2-Dichloroethane-d4</i>		<i>105</i>		<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>22-Jul-2020 16:55</i>
<i>Surr: 4-Bromofluorobenzene</i>		<i>98.6</i>		<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>22-Jul-2020 16:55</i>
<i>Surr: Dibromofluoromethane</i>		<i>104</i>		<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>22-Jul-2020 16:55</i>
<i>Surr: Toluene-d8</i>		<i>99.9</i>		<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>22-Jul-2020 16:55</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW94A-20200720
 Collection Date: 20-Jul-2020 14:45

ANALYTICAL REPORT
 WorkOrder:HS20070941
 Lab ID:HS20070941-08
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 24-Jul-2020		Analyst: ACN	
1,2-Diphenylhydrazine	U		0.000021	0.00020	mg/L	1	31-Jul-2020 15:16
2,4-Dimethylphenol	U		0.000040	0.00020	mg/L	1	31-Jul-2020 15:16
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	31-Jul-2020 15:16
2,6-Dinitrotoluene	U		0.000042	0.00020	mg/L	1	31-Jul-2020 15:16
2-Chloronaphthalene	U		0.000021	0.00020	mg/L	1	31-Jul-2020 15:16
2-Methylnaphthalene	U		0.000019	0.00010	mg/L	1	31-Jul-2020 15:16
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	31-Jul-2020 15:16
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	31-Jul-2020 15:16
Acenaphthene	U		0.000027	0.00010	mg/L	1	31-Jul-2020 15:16
Acenaphthylene	U		0.000015	0.00010	mg/L	1	31-Jul-2020 15:16
Anthracene	U		0.000014	0.00010	mg/L	1	31-Jul-2020 15:16
Benz(a)anthracene	U		0.000050	0.00010	mg/L	1	31-Jul-2020 15:16
Benzo(a)pyrene	U		0.000020	0.00010	mg/L	1	31-Jul-2020 15:16
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	31-Jul-2020 15:16
Bis(2-ethylhexyl)phthalate	0.000040	J	0.000037	0.00020	mg/L	1	31-Jul-2020 15:16
Chrysene	U		0.000021	0.00010	mg/L	1	31-Jul-2020 15:16
Dibenzofuran	U		0.000020	0.00010	mg/L	1	31-Jul-2020 15:16
Di-n-butyl phthalate	U		0.000020	0.00020	mg/L	1	31-Jul-2020 15:16
Fluoranthene	0.000019	J	0.000010	0.00010	mg/L	1	31-Jul-2020 15:16
Fluorene	U		0.000030	0.00010	mg/L	1	31-Jul-2020 15:16
Naphthalene	U		0.000020	0.00010	mg/L	1	31-Jul-2020 15:16
Nitrobenzene	U		0.000024	0.00020	mg/L	1	31-Jul-2020 15:16
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	31-Jul-2020 15:16
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	31-Jul-2020 15:16
Phenanthrene	U		0.000021	0.00010	mg/L	1	31-Jul-2020 15:16
Phenol	U		0.000035	0.00020	mg/L	1	31-Jul-2020 15:16
Pyrene	U		0.000019	0.00010	mg/L	1	31-Jul-2020 15:16
<i>Surr: 2,4,6-Tribromophenol</i>	<i>74.7</i>			<i>34-129</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 15:16</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>57.9</i>			<i>40-125</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 15:16</i>
<i>Surr: 2-Fluorophenol</i>	<i>49.1</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 15:16</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>92.5</i>			<i>40-135</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 15:16</i>
<i>Surr: Nitrobenzene-d5</i>	<i>91.0</i>			<i>41-120</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 15:16</i>
<i>Surr: Phenol-d6</i>	<i>70.5</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 15:16</i>
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 27-Jul-2020		Analyst: JHD	
Arsenic	0.00455		0.000400	0.00200	mg/L	1	27-Jul-2020 21:50

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW82B-20200720
 Collection Date: 20-Jul-2020 15:35

ANALYTICAL REPORT

WorkOrder:HS20070941
 Lab ID:HS20070941-09
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	22-Jul-2020 17:17
Benzene	U		0.00020	0.0010	mg/L	1	22-Jul-2020 17:17
Chlorobenzene	U		0.00030	0.0010	mg/L	1	22-Jul-2020 17:17
Ethylbenzene	U		0.00030	0.0010	mg/L	1	22-Jul-2020 17:17
Methylene chloride	U		0.0010	0.0020	mg/L	1	22-Jul-2020 17:17
Toluene	U		0.00020	0.0010	mg/L	1	22-Jul-2020 17:17
Xylenes, Total	U		0.00030	0.0010	mg/L	1	22-Jul-2020 17:17
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>107</i>			<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>22-Jul-2020 17:17</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>99.0</i>			<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>22-Jul-2020 17:17</i>
<i>Surr: Dibromofluoromethane</i>	<i>107</i>			<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>22-Jul-2020 17:17</i>
<i>Surr: Toluene-d8</i>	<i>99.1</i>			<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>22-Jul-2020 17:17</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW82B-20200720
 Collection Date: 20-Jul-2020 15:35

ANALYTICAL REPORT
 WorkOrder:HS20070941
 Lab ID:HS20070941-09
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 24-Jul-2020		Analyst: ACN	
1,2-Diphenylhydrazine	U		0.000021	0.00020	mg/L	1	31-Jul-2020 16:34
2,4-Dimethylphenol	U		0.000040	0.00020	mg/L	1	31-Jul-2020 16:34
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	31-Jul-2020 16:34
2,6-Dinitrotoluene	U		0.000042	0.00020	mg/L	1	31-Jul-2020 16:34
2-Chloronaphthalene	U		0.000021	0.00020	mg/L	1	31-Jul-2020 16:34
2-Methylnaphthalene	U		0.000019	0.00010	mg/L	1	31-Jul-2020 16:34
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	31-Jul-2020 16:34
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	31-Jul-2020 16:34
Acenaphthene	U		0.000027	0.00010	mg/L	1	31-Jul-2020 16:34
Acenaphthylene	U		0.000015	0.00010	mg/L	1	31-Jul-2020 16:34
Anthracene	U		0.000014	0.00010	mg/L	1	31-Jul-2020 16:34
Benz(a)anthracene	U		0.000050	0.00010	mg/L	1	31-Jul-2020 16:34
Benzo(a)pyrene	U		0.000020	0.00010	mg/L	1	31-Jul-2020 16:34
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	31-Jul-2020 16:34
Bis(2-ethylhexyl)phthalate	0.000052	J	0.000037	0.00020	mg/L	1	31-Jul-2020 16:34
Chrysene	U		0.000021	0.00010	mg/L	1	31-Jul-2020 16:34
Dibenzofuran	U		0.000020	0.00010	mg/L	1	31-Jul-2020 16:34
Di-n-butyl phthalate	0.000022	J	0.000020	0.00020	mg/L	1	31-Jul-2020 16:34
Fluoranthene	0.000015	J	0.000010	0.00010	mg/L	1	31-Jul-2020 16:34
Fluorene	U		0.000030	0.00010	mg/L	1	31-Jul-2020 16:34
Naphthalene	U		0.000020	0.00010	mg/L	1	31-Jul-2020 16:34
Nitrobenzene	U		0.000024	0.00020	mg/L	1	31-Jul-2020 16:34
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	31-Jul-2020 16:34
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	31-Jul-2020 16:34
Phenanthrene	U		0.000021	0.00010	mg/L	1	31-Jul-2020 16:34
Phenol	U		0.000035	0.00020	mg/L	1	31-Jul-2020 16:34
Pyrene	U		0.000019	0.00010	mg/L	1	31-Jul-2020 16:34
<i>Surr: 2,4,6-Tribromophenol</i>	<i>69.4</i>			<i>34-129</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 16:34</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>65.6</i>			<i>40-125</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 16:34</i>
<i>Surr: 2-Fluorophenol</i>	<i>55.5</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 16:34</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>90.6</i>			<i>40-135</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 16:34</i>
<i>Surr: Nitrobenzene-d5</i>	<i>99.7</i>			<i>41-120</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 16:34</i>
<i>Surr: Phenol-d6</i>	<i>82.8</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 16:34</i>
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 27-Jul-2020		Analyst: JHD	
Arsenic	0.00299		0.000400	0.00200	mg/L	1	27-Jul-2020 21:52

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-FB05-20200720
 Collection Date: 20-Jul-2020 16:00

ANALYTICAL REPORT
 WorkOrder:HS20070941
 Lab ID:HS20070941-10
 Matrix:Water

ANALYSES	RESULT	QUAL	SDL	MLL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	22-Jul-2020 12:52
Benzene	U		0.00020	0.0010	mg/L	1	22-Jul-2020 12:52
Chlorobenzene	U		0.00030	0.0010	mg/L	1	22-Jul-2020 12:52
Ethylbenzene	U		0.00030	0.0010	mg/L	1	22-Jul-2020 12:52
Methylene chloride	U		0.0010	0.0020	mg/L	1	22-Jul-2020 12:52
Toluene	U		0.00020	0.0010	mg/L	1	22-Jul-2020 12:52
Vinyl chloride	U		0.00020	0.0010	mg/L	1	22-Jul-2020 12:52
Xylenes, Total	U		0.00030	0.0010	mg/L	1	22-Jul-2020 12:52
<i>Surr: 1,2-Dichloroethane-d4</i>		106		70-126	%REC	1	22-Jul-2020 12:52
<i>Surr: 4-Bromofluorobenzene</i>		98.7		81-113	%REC	1	22-Jul-2020 12:52
<i>Surr: Dibromofluoromethane</i>		101		77-123	%REC	1	22-Jul-2020 12:52
<i>Surr: Toluene-d8</i>		99.9		82-127	%REC	1	22-Jul-2020 12:52

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-FB05-20200720
 Collection Date: 20-Jul-2020 16:00

ANALYTICAL REPORT
 WorkOrder:HS20070941
 Lab ID:HS20070941-10
 Matrix:Water

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 24-Jul-2020		Analyst: ACN	
1,2-Diphenylhydrazine	0.000062	J	0.000021	0.00020	mg/L	1	31-Jul-2020 16:53
2,4-Dimethylphenol	U		0.000040	0.00020	mg/L	1	31-Jul-2020 16:53
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	31-Jul-2020 16:53
2,6-Dinitrotoluene	U		0.000042	0.00020	mg/L	1	31-Jul-2020 16:53
2-Chloronaphthalene	U		0.000021	0.00020	mg/L	1	31-Jul-2020 16:53
2-Methylnaphthalene	U		0.000019	0.00010	mg/L	1	31-Jul-2020 16:53
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	31-Jul-2020 16:53
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	31-Jul-2020 16:53
Acenaphthene	U		0.000027	0.00010	mg/L	1	31-Jul-2020 16:53
Acenaphthylene	U		0.000015	0.00010	mg/L	1	31-Jul-2020 16:53
Anthracene	U		0.000014	0.00010	mg/L	1	31-Jul-2020 16:53
Benz(a)anthracene	U		0.000050	0.00010	mg/L	1	31-Jul-2020 16:53
Benzo(a)pyrene	U		0.000020	0.00010	mg/L	1	31-Jul-2020 16:53
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	31-Jul-2020 16:53
Bis(2-ethylhexyl)phthalate	U		0.000037	0.00020	mg/L	1	31-Jul-2020 16:53
Chrysene	U		0.000021	0.00010	mg/L	1	31-Jul-2020 16:53
Dibenzofuran	U		0.000020	0.00010	mg/L	1	31-Jul-2020 16:53
Di-n-butyl phthalate	U		0.000020	0.00020	mg/L	1	31-Jul-2020 16:53
Fluoranthene	U		0.000010	0.00010	mg/L	1	31-Jul-2020 16:53
Fluorene	U		0.000030	0.00010	mg/L	1	31-Jul-2020 16:53
Naphthalene	0.000038	J	0.000020	0.00010	mg/L	1	31-Jul-2020 16:53
Nitrobenzene	U		0.000024	0.00020	mg/L	1	31-Jul-2020 16:53
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	31-Jul-2020 16:53
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	31-Jul-2020 16:53
Phenanthrene	U		0.000021	0.00010	mg/L	1	31-Jul-2020 16:53
Phenol	U		0.000035	0.00020	mg/L	1	31-Jul-2020 16:53
Pyrene	U		0.000019	0.00010	mg/L	1	31-Jul-2020 16:53
<i>Surr: 2,4,6-Tribromophenol</i>	<i>80.8</i>			<i>34-129</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 16:53</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>72.6</i>			<i>40-125</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 16:53</i>
<i>Surr: 2-Fluorophenol</i>	<i>58.9</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 16:53</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>90.6</i>			<i>40-135</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 16:53</i>
<i>Surr: Nitrobenzene-d5</i>	<i>110</i>			<i>41-120</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 16:53</i>
<i>Surr: Phenol-d6</i>	<i>78.6</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 16:53</i>
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 27-Jul-2020		Analyst: JHD	
Arsenic	U		0.000400	0.00200	mg/L	1	27-Jul-2020 21:54

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW80B-20200720
 Collection Date: 20-Jul-2020 08:05

ANALYTICAL REPORT
 WorkOrder:HS20070941
 Lab ID:HS20070941-11
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	22-Jul-2020 17:40
Benzene	U		0.00020	0.0010	mg/L	1	22-Jul-2020 17:40
Chlorobenzene	U		0.00030	0.0010	mg/L	1	22-Jul-2020 17:40
Ethylbenzene	U		0.00030	0.0010	mg/L	1	22-Jul-2020 17:40
Methylene chloride	U		0.0010	0.0020	mg/L	1	22-Jul-2020 17:40
Toluene	U		0.00020	0.0010	mg/L	1	22-Jul-2020 17:40
Xylenes, Total	U		0.00030	0.0010	mg/L	1	22-Jul-2020 17:40
<i>Surr: 1,2-Dichloroethane-d4</i>		<i>109</i>		<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>22-Jul-2020 17:40</i>
<i>Surr: 4-Bromofluorobenzene</i>		<i>99.4</i>		<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>22-Jul-2020 17:40</i>
<i>Surr: Dibromofluoromethane</i>		<i>105</i>		<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>22-Jul-2020 17:40</i>
<i>Surr: Toluene-d8</i>		<i>101</i>		<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>22-Jul-2020 17:40</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW80B-20200720
 Collection Date: 20-Jul-2020 08:05

ANALYTICAL REPORT
 WorkOrder:HS20070941
 Lab ID:HS20070941-11
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 24-Jul-2020		Analyst: ACN	
1,2-Diphenylhydrazine	U		0.000021	0.00020	mg/L	1	31-Jul-2020 17:32
2,4-Dimethylphenol	U		0.000040	0.00020	mg/L	1	31-Jul-2020 17:32
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	31-Jul-2020 17:32
2,6-Dinitrotoluene	U		0.000042	0.00020	mg/L	1	31-Jul-2020 17:32
2-Chloronaphthalene	U		0.000021	0.00020	mg/L	1	31-Jul-2020 17:32
2-Methylnaphthalene	U		0.000019	0.00010	mg/L	1	31-Jul-2020 17:32
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	31-Jul-2020 17:32
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	31-Jul-2020 17:32
Acenaphthene	U		0.000027	0.00010	mg/L	1	31-Jul-2020 17:32
Acenaphthylene	U		0.000015	0.00010	mg/L	1	31-Jul-2020 17:32
Anthracene	0.000027	J	0.000014	0.00010	mg/L	1	31-Jul-2020 17:32
Benz(a)anthracene	U		0.000050	0.00010	mg/L	1	31-Jul-2020 17:32
Benzo(a)pyrene	U		0.000020	0.00010	mg/L	1	31-Jul-2020 17:32
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	31-Jul-2020 17:32
Bis(2-ethylhexyl)phthalate	0.000055	J	0.000037	0.00020	mg/L	1	31-Jul-2020 17:32
Chrysene	U		0.000021	0.00010	mg/L	1	31-Jul-2020 17:32
Dibenzofuran	U		0.000020	0.00010	mg/L	1	31-Jul-2020 17:32
Di-n-butyl phthalate	0.000034	J	0.000020	0.00020	mg/L	1	31-Jul-2020 17:32
Fluoranthene	0.000047	J	0.000010	0.00010	mg/L	1	31-Jul-2020 17:32
Fluorene	U		0.000030	0.00010	mg/L	1	31-Jul-2020 17:32
Naphthalene	0.000070	J	0.000020	0.00010	mg/L	1	31-Jul-2020 17:32
Nitrobenzene	U		0.000024	0.00020	mg/L	1	31-Jul-2020 17:32
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	31-Jul-2020 17:32
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	31-Jul-2020 17:32
Phenanthrene	0.000049	J	0.000021	0.00010	mg/L	1	31-Jul-2020 17:32
Phenol	U		0.000035	0.00020	mg/L	1	31-Jul-2020 17:32
Pyrene	0.000027	J	0.000019	0.00010	mg/L	1	31-Jul-2020 17:32
<i>Surr: 2,4,6-Tribromophenol</i>	70.8			34-129	%REC	1	31-Jul-2020 17:32
<i>Surr: 2-Fluorobiphenyl</i>	61.6			40-125	%REC	1	31-Jul-2020 17:32
<i>Surr: 2-Fluorophenol</i>	44.8			20-120	%REC	1	31-Jul-2020 17:32
<i>Surr: 4-Terphenyl-d14</i>	88.6			40-135	%REC	1	31-Jul-2020 17:32
<i>Surr: Nitrobenzene-d5</i>	91.4			41-120	%REC	1	31-Jul-2020 17:32
<i>Surr: Phenol-d6</i>	69.7			20-120	%REC	1	31-Jul-2020 17:32
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 27-Jul-2020		Analyst: JHD	
Arsenic	0.00122	J	0.000400	0.00200	mg/L	1	27-Jul-2020 21:56

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW77A-20200720
 Collection Date: 20-Jul-2020 09:00

ANALYTICAL REPORT
 WorkOrder:HS20070941
 Lab ID:HS20070941-12
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	22-Jul-2020 18:02
Benzene	0.021		0.00020	0.0010	mg/L	1	22-Jul-2020 18:02
Chlorobenzene	U		0.00030	0.0010	mg/L	1	22-Jul-2020 18:02
Ethylbenzene	0.022		0.00030	0.0010	mg/L	1	22-Jul-2020 18:02
Methylene chloride	U		0.0010	0.0020	mg/L	1	22-Jul-2020 18:02
Toluene	0.0024		0.00020	0.0010	mg/L	1	22-Jul-2020 18:02
Xylenes, Total	0.026		0.00030	0.0010	mg/L	1	22-Jul-2020 18:02
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>107</i>			<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>22-Jul-2020 18:02</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>101</i>			<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>22-Jul-2020 18:02</i>
<i>Surr: Dibromofluoromethane</i>	<i>104</i>			<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>22-Jul-2020 18:02</i>
<i>Surr: Toluene-d8</i>	<i>101</i>			<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>22-Jul-2020 18:02</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW77A-20200720
 Collection Date: 20-Jul-2020 09:00

ANALYTICAL REPORT
 WorkOrder:HS20070941
 Lab ID:HS20070941-12
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 24-Jul-2020		Analyst: ACN	
1,2-Diphenylhydrazine	U		0.000021	0.00020	mg/L	1	31-Jul-2020 17:52
2,4-Dimethylphenol	0.0013		0.000040	0.00020	mg/L	1	31-Jul-2020 17:52
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	31-Jul-2020 17:52
2,6-Dinitrotoluene	U		0.000042	0.00020	mg/L	1	31-Jul-2020 17:52
2-Chloronaphthalene	U		0.000021	0.00020	mg/L	1	31-Jul-2020 17:52
2-Methylnaphthalene	0.0023		0.000019	0.00010	mg/L	1	31-Jul-2020 17:52
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	31-Jul-2020 17:52
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	31-Jul-2020 17:52
Acenaphthene	0.0090		0.000027	0.00010	mg/L	1	31-Jul-2020 17:52
Acenaphthylene	U		0.000015	0.00010	mg/L	1	31-Jul-2020 17:52
Anthracene	0.00033		0.000014	0.00010	mg/L	1	31-Jul-2020 17:52
Benz(a)anthracene	U		0.000050	0.00010	mg/L	1	31-Jul-2020 17:52
Benzo(a)pyrene	U		0.000020	0.00010	mg/L	1	31-Jul-2020 17:52
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	31-Jul-2020 17:52
Bis(2-ethylhexyl)phthalate	U		0.000037	0.00020	mg/L	1	31-Jul-2020 17:52
Chrysene	U		0.000021	0.00010	mg/L	1	31-Jul-2020 17:52
Dibenzofuran	0.0040		0.000020	0.00010	mg/L	1	31-Jul-2020 17:52
Di-n-butyl phthalate	U		0.000020	0.00020	mg/L	1	31-Jul-2020 17:52
Fluoranthene	0.00012		0.000010	0.00010	mg/L	1	31-Jul-2020 17:52
Fluorene	0.0042		0.000030	0.00010	mg/L	1	31-Jul-2020 17:52
Naphthalene	0.010		0.00020	0.0010	mg/L	10	31-Jul-2020 18:12
Nitrobenzene	U		0.000024	0.00020	mg/L	1	31-Jul-2020 17:52
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	31-Jul-2020 17:52
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	31-Jul-2020 17:52
Phenanthrene	0.0018		0.000021	0.00010	mg/L	1	31-Jul-2020 17:52
Phenol	U		0.000035	0.00020	mg/L	1	31-Jul-2020 17:52
Pyrene	0.000067	J	0.000019	0.00010	mg/L	1	31-Jul-2020 17:52
Surr: 2,4,6-Tribromophenol	85.5			34-129	%REC	1	31-Jul-2020 17:52
Surr: 2,4,6-Tribromophenol	45.4			34-129	%REC	10	31-Jul-2020 18:12
Surr: 2-Fluorobiphenyl	57.3			40-125	%REC	1	31-Jul-2020 17:52
Surr: 2-Fluorobiphenyl	40.9			40-125	%REC	10	31-Jul-2020 18:12
Surr: 2-Fluorophenol	42.9			20-120	%REC	1	31-Jul-2020 17:52
Surr: 2-Fluorophenol	27.5	J		20-120	%REC	10	31-Jul-2020 18:12
Surr: 4-Terphenyl-d14	90.5			40-135	%REC	1	31-Jul-2020 17:52
Surr: 4-Terphenyl-d14	57.1			40-135	%REC	10	31-Jul-2020 18:12
Surr: Nitrobenzene-d5	84.6			41-120	%REC	1	31-Jul-2020 17:52
Surr: Nitrobenzene-d5	51.9			41-120	%REC	10	31-Jul-2020 18:12
Surr: Phenol-d6	67.5			20-120	%REC	1	31-Jul-2020 17:52
Surr: Phenol-d6	47.5			20-120	%REC	10	31-Jul-2020 18:12

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW77A-20200720
 Collection Date: 20-Jul-2020 09:00

ANALYTICAL REPORT

WorkOrder:HS20070941
 Lab ID:HS20070941-12
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020			Prep:SW3010A / 27-Jul-2020		Analyst: JHD
Arsenic	0.0233		0.000400	0.00200	mg/L	1	27-Jul-2020 22:01

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW76B-20200720
 Collection Date: 20-Jul-2020 09:50

ANALYTICAL REPORT
 WorkOrder:HS20070941
 Lab ID:HS20070941-13
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	22-Jul-2020 18:24
Benzene	U		0.00020	0.0010	mg/L	1	22-Jul-2020 18:24
Chlorobenzene	U		0.00030	0.0010	mg/L	1	22-Jul-2020 18:24
Ethylbenzene	U		0.00030	0.0010	mg/L	1	22-Jul-2020 18:24
Methylene chloride	U		0.0010	0.0020	mg/L	1	22-Jul-2020 18:24
Toluene	U		0.00020	0.0010	mg/L	1	22-Jul-2020 18:24
Xylenes, Total	U		0.00030	0.0010	mg/L	1	22-Jul-2020 18:24
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>105</i>			<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>22-Jul-2020 18:24</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>100</i>			<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>22-Jul-2020 18:24</i>
<i>Surr: Dibromofluoromethane</i>	<i>103</i>			<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>22-Jul-2020 18:24</i>
<i>Surr: Toluene-d8</i>	<i>102</i>			<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>22-Jul-2020 18:24</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW76B-20200720
 Collection Date: 20-Jul-2020 09:50

ANALYTICAL REPORT
 WorkOrder:HS20070941
 Lab ID:HS20070941-13
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 24-Jul-2020		Analyst: ACN	
1,2-Diphenylhydrazine		U	0.000021	0.00020	mg/L	1	31-Jul-2020 18:31
2,4-Dimethylphenol	0.00021		0.000040	0.00020	mg/L	1	31-Jul-2020 18:31
2,4-Dinitrotoluene		U	0.000058	0.00020	mg/L	1	31-Jul-2020 18:31
2,6-Dinitrotoluene		U	0.000042	0.00020	mg/L	1	31-Jul-2020 18:31
2-Chloronaphthalene		U	0.000021	0.00020	mg/L	1	31-Jul-2020 18:31
2-Methylnaphthalene	0.00020		0.000019	0.00010	mg/L	1	31-Jul-2020 18:31
4,6-Dinitro-2-methylphenol		U	0.000020	0.00020	mg/L	1	31-Jul-2020 18:31
4-Nitrophenol		U	0.000047	0.0010	mg/L	1	31-Jul-2020 18:31
Acenaphthene	0.00017		0.000027	0.00010	mg/L	1	31-Jul-2020 18:31
Acenaphthylene		U	0.000015	0.00010	mg/L	1	31-Jul-2020 18:31
Anthracene	0.000076	J	0.000014	0.00010	mg/L	1	31-Jul-2020 18:31
Benz(a)anthracene	0.00011		0.000050	0.00010	mg/L	1	31-Jul-2020 18:31
Benzo(a)pyrene	0.000066	J	0.000020	0.00010	mg/L	1	31-Jul-2020 18:31
Bis(2-chloroethoxy)methane		U	0.000030	0.00020	mg/L	1	31-Jul-2020 18:31
Bis(2-ethylhexyl)phthalate	0.000046	J	0.000037	0.00020	mg/L	1	31-Jul-2020 18:31
Chrysene	0.00011		0.000021	0.00010	mg/L	1	31-Jul-2020 18:31
Dibenzofuran	0.00013		0.000020	0.00010	mg/L	1	31-Jul-2020 18:31
Di-n-butyl phthalate	0.000027	J	0.000020	0.00020	mg/L	1	31-Jul-2020 18:31
Fluoranthene	0.00025		0.000010	0.00010	mg/L	1	31-Jul-2020 18:31
Fluorene	0.00013		0.000030	0.00010	mg/L	1	31-Jul-2020 18:31
Naphthalene	0.0020		0.000020	0.00010	mg/L	1	31-Jul-2020 18:31
Nitrobenzene		U	0.000024	0.00020	mg/L	1	31-Jul-2020 18:31
N-Nitrosodiphenylamine		U	0.000025	0.00020	mg/L	1	31-Jul-2020 18:31
Pentachlorophenol		U	0.000079	0.00020	mg/L	1	31-Jul-2020 18:31
Phenanthrene	0.00023		0.000021	0.00010	mg/L	1	31-Jul-2020 18:31
Phenol		U	0.000035	0.00020	mg/L	1	31-Jul-2020 18:31
Pyrene	0.00015		0.000019	0.00010	mg/L	1	31-Jul-2020 18:31
<i>Surr: 2,4,6-Tribromophenol</i>	<i>57.1</i>			<i>34-129</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 18:31</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>51.2</i>			<i>40-125</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 18:31</i>
<i>Surr: 2-Fluorophenol</i>	<i>44.5</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 18:31</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>79.2</i>			<i>40-135</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 18:31</i>
<i>Surr: Nitrobenzene-d5</i>	<i>77.4</i>			<i>41-120</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 18:31</i>
<i>Surr: Phenol-d6</i>	<i>66.5</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 18:31</i>
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 27-Jul-2020		Analyst: JHD	
Arsenic	0.00383		0.000400	0.00200	mg/L	1	27-Jul-2020 22:03

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW76C-20200720
 Collection Date: 20-Jul-2020 10:35

ANALYTICAL REPORT
 WorkOrder:HS20070941
 Lab ID:HS20070941-14
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	22-Jul-2020 18:47
Benzene	U		0.00020	0.0010	mg/L	1	22-Jul-2020 18:47
Chlorobenzene	U		0.00030	0.0010	mg/L	1	22-Jul-2020 18:47
Ethylbenzene	U		0.00030	0.0010	mg/L	1	22-Jul-2020 18:47
Methylene chloride	U		0.0010	0.0020	mg/L	1	22-Jul-2020 18:47
Toluene	U		0.00020	0.0010	mg/L	1	22-Jul-2020 18:47
Xylenes, Total	U		0.00030	0.0010	mg/L	1	22-Jul-2020 18:47
<i>Surr: 1,2-Dichloroethane-d4</i>		<i>105</i>		<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>22-Jul-2020 18:47</i>
<i>Surr: 4-Bromofluorobenzene</i>		<i>99.5</i>		<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>22-Jul-2020 18:47</i>
<i>Surr: Dibromofluoromethane</i>		<i>104</i>		<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>22-Jul-2020 18:47</i>
<i>Surr: Toluene-d8</i>		<i>101</i>		<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>22-Jul-2020 18:47</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW76C-20200720
 Collection Date: 20-Jul-2020 10:35

ANALYTICAL REPORT
 WorkOrder:HS20070941
 Lab ID:HS20070941-14
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 24-Jul-2020		Analyst: ACN	
1,2-Diphenylhydrazine		U	0.000021	0.00020	mg/L	1	31-Jul-2020 18:51
2,4-Dimethylphenol	0.00012	J	0.000040	0.00020	mg/L	1	31-Jul-2020 18:51
2,4-Dinitrotoluene		U	0.000058	0.00020	mg/L	1	31-Jul-2020 18:51
2,6-Dinitrotoluene		U	0.000042	0.00020	mg/L	1	31-Jul-2020 18:51
2-Chloronaphthalene		U	0.000021	0.00020	mg/L	1	31-Jul-2020 18:51
2-Methylnaphthalene		U	0.000019	0.00010	mg/L	1	31-Jul-2020 18:51
4,6-Dinitro-2-methylphenol		U	0.000020	0.00020	mg/L	1	31-Jul-2020 18:51
4-Nitrophenol		U	0.000047	0.0010	mg/L	1	31-Jul-2020 18:51
Acenaphthene	0.000049	J	0.000027	0.00010	mg/L	1	31-Jul-2020 18:51
Acenaphthylene		U	0.000015	0.00010	mg/L	1	31-Jul-2020 18:51
Anthracene		U	0.000014	0.00010	mg/L	1	31-Jul-2020 18:51
Benz(a)anthracene	0.000069	J	0.000050	0.00010	mg/L	1	31-Jul-2020 18:51
Benzo(a)pyrene	0.000058	J	0.000020	0.00010	mg/L	1	31-Jul-2020 18:51
Bis(2-chloroethoxy)methane		U	0.000030	0.00020	mg/L	1	31-Jul-2020 18:51
Bis(2-ethylhexyl)phthalate		U	0.000037	0.00020	mg/L	1	31-Jul-2020 18:51
Chrysene	0.000039	J	0.000021	0.00010	mg/L	1	31-Jul-2020 18:51
Dibenzofuran		U	0.000020	0.00010	mg/L	1	31-Jul-2020 18:51
Di-n-butyl phthalate		U	0.000020	0.00020	mg/L	1	31-Jul-2020 18:51
Fluoranthene	0.000092	J	0.000010	0.00010	mg/L	1	31-Jul-2020 18:51
Fluorene		U	0.000030	0.00010	mg/L	1	31-Jul-2020 18:51
Naphthalene		U	0.000020	0.00010	mg/L	1	31-Jul-2020 18:51
Nitrobenzene		U	0.000024	0.00020	mg/L	1	31-Jul-2020 18:51
N-Nitrosodiphenylamine		U	0.000025	0.00020	mg/L	1	31-Jul-2020 18:51
Pentachlorophenol		U	0.000079	0.00020	mg/L	1	31-Jul-2020 18:51
Phenanthrene		U	0.000021	0.00010	mg/L	1	31-Jul-2020 18:51
Phenol		U	0.000035	0.00020	mg/L	1	31-Jul-2020 18:51
Pyrene	0.000069	J	0.000019	0.00010	mg/L	1	31-Jul-2020 18:51
<i>Surr: 2,4,6-Tribromophenol</i>	<i>90.8</i>			<i>34-129</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 18:51</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>62.3</i>			<i>40-125</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 18:51</i>
<i>Surr: 2-Fluorophenol</i>	<i>44.6</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 18:51</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>91.7</i>			<i>40-135</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 18:51</i>
<i>Surr: Nitrobenzene-d5</i>	<i>84.0</i>			<i>41-120</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 18:51</i>
<i>Surr: Phenol-d6</i>	<i>69.9</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 18:51</i>
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 27-Jul-2020		Analyst: JHD	
Arsenic	0.000427	J	0.000400	0.00200	mg/L	1	27-Jul-2020 22:05

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW78A-20200720
 Collection Date: 20-Jul-2020 11:25

ANALYTICAL REPORT
 WorkOrder:HS20070941
 Lab ID:HS20070941-15
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	22-Jul-2020 19:09
Benzene	0.15		0.00020	0.0010	mg/L	1	22-Jul-2020 19:09
Chlorobenzene	U		0.00030	0.0010	mg/L	1	22-Jul-2020 19:09
Ethylbenzene	0.13		0.00030	0.0010	mg/L	1	22-Jul-2020 19:09
Methylene chloride	U		0.0010	0.0020	mg/L	1	22-Jul-2020 19:09
Toluene	0.27		0.0010	0.0050	mg/L	5	23-Jul-2020 14:29
Xylenes, Total	0.40		0.00030	0.0010	mg/L	1	22-Jul-2020 19:09
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>106</i>			<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>22-Jul-2020 19:09</i>
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>99.7</i>			<i>70-126</i>	<i>%REC</i>	<i>5</i>	<i>23-Jul-2020 14:29</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>104</i>			<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>22-Jul-2020 19:09</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>101</i>			<i>81-113</i>	<i>%REC</i>	<i>5</i>	<i>23-Jul-2020 14:29</i>
<i>Surr: Dibromofluoromethane</i>	<i>103</i>			<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>22-Jul-2020 19:09</i>
<i>Surr: Dibromofluoromethane</i>	<i>101</i>			<i>77-123</i>	<i>%REC</i>	<i>5</i>	<i>23-Jul-2020 14:29</i>
<i>Surr: Toluene-d8</i>	<i>99.3</i>			<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>22-Jul-2020 19:09</i>
<i>Surr: Toluene-d8</i>	<i>99.2</i>			<i>82-127</i>	<i>%REC</i>	<i>5</i>	<i>23-Jul-2020 14:29</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW78A-20200720
 Collection Date: 20-Jul-2020 11:25

ANALYTICAL REPORT
 WorkOrder:HS20070941
 Lab ID:HS20070941-15
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 24-Jul-2020		Analyst: ACN	
1,2-Diphenylhydrazine	U		0.00021	0.0020	mg/L	10	31-Jul-2020 19:10
2,4-Dimethylphenol	0.93		0.0040	0.020	mg/L	100	31-Jul-2020 19:30
2,4-Dinitrotoluene	U		0.00058	0.0020	mg/L	10	31-Jul-2020 19:10
2,6-Dinitrotoluene	U		0.00042	0.0020	mg/L	10	31-Jul-2020 19:10
2-Chloronaphthalene	U		0.00021	0.0020	mg/L	10	31-Jul-2020 19:10
2-Methylnaphthalene	0.44		0.0019	0.010	mg/L	100	31-Jul-2020 19:30
4,6-Dinitro-2-methylphenol	U		0.00020	0.0020	mg/L	10	31-Jul-2020 19:10
4-Nitrophenol	U		0.00047	0.010	mg/L	10	31-Jul-2020 19:10
Acenaphthene	0.30		0.0027	0.010	mg/L	100	31-Jul-2020 19:30
Acenaphthylene	U		0.00015	0.0010	mg/L	10	31-Jul-2020 19:10
Anthracene	0.100		0.00014	0.0010	mg/L	10	31-Jul-2020 19:10
Benz(a)anthracene	0.042		0.00050	0.0010	mg/L	10	31-Jul-2020 19:10
Benzo(a)pyrene	0.015		0.00020	0.0010	mg/L	10	31-Jul-2020 19:10
Bis(2-chloroethoxy)methane	U		0.00030	0.0020	mg/L	10	31-Jul-2020 19:10
Bis(2-ethylhexyl)phthalate	0.00054	J	0.00037	0.0020	mg/L	10	31-Jul-2020 19:10
Chrysene	0.038		0.00021	0.0010	mg/L	10	31-Jul-2020 19:10
Dibenzofuran	0.26		0.0020	0.010	mg/L	100	31-Jul-2020 19:30
Di-n-butyl phthalate	0.00059	J	0.00020	0.0020	mg/L	10	31-Jul-2020 19:10
Fluoranthene	0.29		0.0010	0.010	mg/L	100	31-Jul-2020 19:30
Fluorene	0.28		0.0030	0.010	mg/L	100	31-Jul-2020 19:30
Naphthalene	2.5		0.020	0.10	mg/L	1000	31-Jul-2020 19:49
Nitrobenzene	U		0.00024	0.0020	mg/L	10	31-Jul-2020 19:10
N-Nitrosodiphenylamine	U		0.00025	0.0020	mg/L	10	31-Jul-2020 19:10
Pentachlorophenol	U		0.00079	0.0020	mg/L	10	31-Jul-2020 19:10
Phenanthrene	0.72		0.0021	0.010	mg/L	100	31-Jul-2020 19:30
Phenol	0.015		0.00035	0.0020	mg/L	10	31-Jul-2020 19:10
Pyrene	0.16		0.0019	0.010	mg/L	100	31-Jul-2020 19:30
Surr: 2,4,6-Tribromophenol	95.3			34-129	%REC	10	31-Jul-2020 19:10
Surr: 2,4,6-Tribromophenol	0	JS		34-129	%REC	100	31-Jul-2020 19:30
Surr: 2,4,6-Tribromophenol	0	JS		34-129	%REC	1000	31-Jul-2020 19:49
Surr: 2-Fluorobiphenyl	74.1			40-125	%REC	10	31-Jul-2020 19:10
Surr: 2-Fluorobiphenyl	0	JS		40-125	%REC	100	31-Jul-2020 19:30
Surr: 2-Fluorobiphenyl	0	JS		40-125	%REC	1000	31-Jul-2020 19:49
Surr: 2-Fluorophenol	0	JS		20-120	%REC	1000	31-Jul-2020 19:49
Surr: 2-Fluorophenol	70.4			20-120	%REC	10	31-Jul-2020 19:10
Surr: 2-Fluorophenol	0	JS		20-120	%REC	100	31-Jul-2020 19:30
Surr: 4-Terphenyl-d14	104			40-135	%REC	10	31-Jul-2020 19:10
Surr: 4-Terphenyl-d14	0	JS		40-135	%REC	100	31-Jul-2020 19:30
Surr: 4-Terphenyl-d14	0	JS		40-135	%REC	1000	31-Jul-2020 19:49

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW78A-20200720
 Collection Date: 20-Jul-2020 11:25

ANALYTICAL REPORT
 WorkOrder:HS20070941
 Lab ID:HS20070941-15
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 24-Jul-2020		Analyst: ACN	
Surr: Nitrobenzene-d5	0	JS		41-120	%REC	1000	31-Jul-2020 19:49
Surr: Nitrobenzene-d5	102			41-120	%REC	10	31-Jul-2020 19:10
Surr: Nitrobenzene-d5	0	JS		41-120	%REC	100	31-Jul-2020 19:30
Surr: Phenol-d6	92.6			20-120	%REC	10	31-Jul-2020 19:10
Surr: Phenol-d6	0	JS		20-120	%REC	100	31-Jul-2020 19:30
Surr: Phenol-d6	0	JS		20-120	%REC	1000	31-Jul-2020 19:49
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 27-Jul-2020		Analyst: JHD	
Arsenic	0.00915		0.000400	0.00200	mg/L	1	27-Jul-2020 22:07

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW61A-20200720
 Collection Date: 20-Jul-2020 12:30

ANALYTICAL REPORT

WorkOrder:HS20070941
 Lab ID:HS20070941-16
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MLL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	22-Jul-2020 13:15
Benzene	U		0.00020	0.0010	mg/L	1	22-Jul-2020 13:15
Chlorobenzene	U		0.00030	0.0010	mg/L	1	22-Jul-2020 13:15
Ethylbenzene	U		0.00030	0.0010	mg/L	1	22-Jul-2020 13:15
Methylene chloride	U		0.0010	0.0020	mg/L	1	22-Jul-2020 13:15
Toluene	U		0.00020	0.0010	mg/L	1	22-Jul-2020 13:15
Vinyl chloride	U		0.00020	0.0010	mg/L	1	22-Jul-2020 13:15
Xylenes, Total	U		0.00030	0.0010	mg/L	1	22-Jul-2020 13:15
<i>Surr: 1,2-Dichloroethane-d4</i>		106		70-126	%REC	1	22-Jul-2020 13:15
<i>Surr: 4-Bromofluorobenzene</i>		101		81-113	%REC	1	22-Jul-2020 13:15
<i>Surr: Dibromofluoromethane</i>		103		77-123	%REC	1	22-Jul-2020 13:15
<i>Surr: Toluene-d8</i>		101		82-127	%REC	1	22-Jul-2020 13:15

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW61A-20200720
 Collection Date: 20-Jul-2020 12:30

ANALYTICAL REPORT
 WorkOrder:HS20070941
 Lab ID:HS20070941-16
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 24-Jul-2020		Analyst: ACN	
1,2-Diphenylhydrazine	U		0.000021	0.00020	mg/L	1	31-Jul-2020 17:13
2,4-Dimethylphenol	U		0.000040	0.00020	mg/L	1	31-Jul-2020 17:13
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	31-Jul-2020 17:13
2,6-Dinitrotoluene	U		0.000042	0.00020	mg/L	1	31-Jul-2020 17:13
2-Chloronaphthalene	U		0.000021	0.00020	mg/L	1	31-Jul-2020 17:13
2-Methylnaphthalene	U		0.000019	0.00010	mg/L	1	31-Jul-2020 17:13
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	31-Jul-2020 17:13
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	31-Jul-2020 17:13
Acenaphthene	U		0.000027	0.00010	mg/L	1	31-Jul-2020 17:13
Acenaphthylene	U		0.000015	0.00010	mg/L	1	31-Jul-2020 17:13
Anthracene	0.000024	J	0.000014	0.00010	mg/L	1	31-Jul-2020 17:13
Benz(a)anthracene	U		0.000050	0.00010	mg/L	1	31-Jul-2020 17:13
Benzo(a)pyrene	U		0.000020	0.00010	mg/L	1	31-Jul-2020 17:13
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	31-Jul-2020 17:13
Bis(2-ethylhexyl)phthalate	0.00030		0.000037	0.00020	mg/L	1	31-Jul-2020 17:13
Chrysene	U		0.000021	0.00010	mg/L	1	31-Jul-2020 17:13
Dibenzofuran	U		0.000020	0.00010	mg/L	1	31-Jul-2020 17:13
Di-n-butyl phthalate	U		0.000020	0.00020	mg/L	1	31-Jul-2020 17:13
Fluoranthene	0.000040	J	0.000010	0.00010	mg/L	1	31-Jul-2020 17:13
Fluorene	U		0.000030	0.00010	mg/L	1	31-Jul-2020 17:13
Naphthalene	0.000073	J	0.000020	0.00010	mg/L	1	31-Jul-2020 17:13
Nitrobenzene	U		0.000024	0.00020	mg/L	1	31-Jul-2020 17:13
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	31-Jul-2020 17:13
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	31-Jul-2020 17:13
Phenanthrene	0.000069	J	0.000021	0.00010	mg/L	1	31-Jul-2020 17:13
Phenol	U		0.000035	0.00020	mg/L	1	31-Jul-2020 17:13
Pyrene	0.000028	J	0.000019	0.00010	mg/L	1	31-Jul-2020 17:13
<i>Surr: 2,4,6-Tribromophenol</i>	<i>77.4</i>			<i>34-129</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 17:13</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>75.1</i>			<i>40-125</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 17:13</i>
<i>Surr: 2-Fluorophenol</i>	<i>58.4</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 17:13</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>108</i>			<i>40-135</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 17:13</i>
<i>Surr: Nitrobenzene-d5</i>	<i>106</i>			<i>41-120</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 17:13</i>
<i>Surr: Phenol-d6</i>	<i>85.0</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 17:13</i>
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 27-Jul-2020		Analyst: JHD	
Arsenic	0.000524	J	0.000400	0.00200	mg/L	1	27-Jul-2020 21:25

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW61B-20200720
 Collection Date: 20-Jul-2020 13:55

ANALYTICAL REPORT
 WorkOrder:HS20070941
 Lab ID:HS20070941-17
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MLL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	22-Jul-2020 19:31
Benzene	U		0.00020	0.0010	mg/L	1	22-Jul-2020 19:31
Chlorobenzene	U		0.00030	0.0010	mg/L	1	22-Jul-2020 19:31
Ethylbenzene	U		0.00030	0.0010	mg/L	1	22-Jul-2020 19:31
Methylene chloride	U		0.0010	0.0020	mg/L	1	22-Jul-2020 19:31
Toluene	U		0.00020	0.0010	mg/L	1	23-Jul-2020 14:04
Xylenes, Total	U		0.00030	0.0010	mg/L	1	22-Jul-2020 19:31
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>104</i>			<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>22-Jul-2020 19:31</i>
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>102</i>			<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>23-Jul-2020 14:04</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>100.0</i>			<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>22-Jul-2020 19:31</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>98.7</i>			<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>23-Jul-2020 14:04</i>
<i>Surr: Dibromofluoromethane</i>	<i>103</i>			<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>22-Jul-2020 19:31</i>
<i>Surr: Dibromofluoromethane</i>	<i>103</i>			<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>23-Jul-2020 14:04</i>
<i>Surr: Toluene-d8</i>	<i>102</i>			<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>22-Jul-2020 19:31</i>
<i>Surr: Toluene-d8</i>	<i>102</i>			<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>23-Jul-2020 14:04</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW61B-20200720
 Collection Date: 20-Jul-2020 13:55

ANALYTICAL REPORT
 WorkOrder:HS20070941
 Lab ID:HS20070941-17
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 24-Jul-2020		Analyst: ACN	
1,2-Diphenylhydrazine	U		0.000021	0.00020	mg/L	1	31-Jul-2020 20:09
2,4-Dimethylphenol	U		0.000040	0.00020	mg/L	1	31-Jul-2020 20:09
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	31-Jul-2020 20:09
2,6-Dinitrotoluene	U		0.000042	0.00020	mg/L	1	31-Jul-2020 20:09
2-Chloronaphthalene	U		0.000021	0.00020	mg/L	1	31-Jul-2020 20:09
2-Methylnaphthalene	U		0.000019	0.00010	mg/L	1	31-Jul-2020 20:09
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	31-Jul-2020 20:09
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	31-Jul-2020 20:09
Acenaphthene	U		0.000027	0.00010	mg/L	1	31-Jul-2020 20:09
Acenaphthylene	U		0.000015	0.00010	mg/L	1	31-Jul-2020 20:09
Anthracene	U		0.000014	0.00010	mg/L	1	31-Jul-2020 20:09
Benz(a)anthracene	U		0.000050	0.00010	mg/L	1	31-Jul-2020 20:09
Benzo(a)pyrene	U		0.000020	0.00010	mg/L	1	31-Jul-2020 20:09
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	31-Jul-2020 20:09
Bis(2-ethylhexyl)phthalate	U		0.000037	0.00020	mg/L	1	31-Jul-2020 20:09
Chrysene	U		0.000021	0.00010	mg/L	1	31-Jul-2020 20:09
Dibenzofuran	U		0.000020	0.00010	mg/L	1	31-Jul-2020 20:09
Di-n-butyl phthalate	0.000024	J	0.000020	0.00020	mg/L	1	31-Jul-2020 20:09
Fluoranthene	0.000024	J	0.000010	0.00010	mg/L	1	31-Jul-2020 20:09
Fluorene	U		0.000030	0.00010	mg/L	1	31-Jul-2020 20:09
Naphthalene	0.000032	J	0.000020	0.00010	mg/L	1	31-Jul-2020 20:09
Nitrobenzene	U		0.000024	0.00020	mg/L	1	31-Jul-2020 20:09
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	31-Jul-2020 20:09
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	31-Jul-2020 20:09
Phenanthrene	U		0.000021	0.00010	mg/L	1	31-Jul-2020 20:09
Phenol	U		0.000035	0.00020	mg/L	1	31-Jul-2020 20:09
Pyrene	U		0.000019	0.00010	mg/L	1	31-Jul-2020 20:09
<i>Surr: 2,4,6-Tribromophenol</i>	<i>72.0</i>			<i>34-129</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 20:09</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>62.1</i>			<i>40-125</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 20:09</i>
<i>Surr: 2-Fluorophenol</i>	<i>48.4</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 20:09</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>93.7</i>			<i>40-135</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 20:09</i>
<i>Surr: Nitrobenzene-d5</i>	<i>96.4</i>			<i>41-120</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 20:09</i>
<i>Surr: Phenol-d6</i>	<i>74.9</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 20:09</i>
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 27-Jul-2020		Analyst: JHD	
Arsenic	0.00691		0.000400	0.00200	mg/L	1	27-Jul-2020 22:09

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW60AR-20200720
 Collection Date: 20-Jul-2020 14:50

ANALYTICAL REPORT
 WorkOrder:HS20070941
 Lab ID:HS20070941-18
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	22-Jul-2020 19:53
Benzene	U		0.00020	0.0010	mg/L	1	22-Jul-2020 19:53
Chlorobenzene	U		0.00030	0.0010	mg/L	1	22-Jul-2020 19:53
Ethylbenzene	U		0.00030	0.0010	mg/L	1	22-Jul-2020 19:53
Methylene chloride	U		0.0010	0.0020	mg/L	1	22-Jul-2020 19:53
Toluene	U		0.00020	0.0010	mg/L	1	22-Jul-2020 19:53
Xylenes, Total	U		0.00030	0.0010	mg/L	1	22-Jul-2020 19:53
<i>Surr: 1,2-Dichloroethane-d4</i>		106		70-126	%REC	1	22-Jul-2020 19:53
<i>Surr: 4-Bromofluorobenzene</i>		98.3		81-113	%REC	1	22-Jul-2020 19:53
<i>Surr: Dibromofluoromethane</i>		102		77-123	%REC	1	22-Jul-2020 19:53
<i>Surr: Toluene-d8</i>		99.7		82-127	%REC	1	22-Jul-2020 19:53

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW60AR-20200720
 Collection Date: 20-Jul-2020 14:50

ANALYTICAL REPORT
 WorkOrder:HS20070941
 Lab ID:HS20070941-18
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 24-Jul-2020		Analyst: ACN	
1,2-Diphenylhydrazine	U		0.000021	0.00020	mg/L	1	31-Jul-2020 20:28
2,4-Dimethylphenol	U		0.000040	0.00020	mg/L	1	31-Jul-2020 20:28
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	31-Jul-2020 20:28
2,6-Dinitrotoluene	U		0.000042	0.00020	mg/L	1	31-Jul-2020 20:28
2-Chloronaphthalene	U		0.000021	0.00020	mg/L	1	31-Jul-2020 20:28
2-Methylnaphthalene	U		0.000019	0.00010	mg/L	1	31-Jul-2020 20:28
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	31-Jul-2020 20:28
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	31-Jul-2020 20:28
Acenaphthene	U		0.000027	0.00010	mg/L	1	31-Jul-2020 20:28
Acenaphthylene	U		0.000015	0.00010	mg/L	1	31-Jul-2020 20:28
Anthracene	0.000019	J	0.000014	0.00010	mg/L	1	31-Jul-2020 20:28
Benz(a)anthracene	U		0.000050	0.00010	mg/L	1	31-Jul-2020 20:28
Benzo(a)pyrene	U		0.000020	0.00010	mg/L	1	31-Jul-2020 20:28
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	31-Jul-2020 20:28
Bis(2-ethylhexyl)phthalate	U		0.000037	0.00020	mg/L	1	31-Jul-2020 20:28
Chrysene	U		0.000021	0.00010	mg/L	1	31-Jul-2020 20:28
Dibenzofuran	U		0.000020	0.00010	mg/L	1	31-Jul-2020 20:28
Di-n-butyl phthalate	U		0.000020	0.00020	mg/L	1	31-Jul-2020 20:28
Fluoranthene	0.000013	J	0.000010	0.00010	mg/L	1	31-Jul-2020 20:28
Fluorene	U		0.000030	0.00010	mg/L	1	31-Jul-2020 20:28
Naphthalene	U		0.000020	0.00010	mg/L	1	31-Jul-2020 20:28
Nitrobenzene	U		0.000024	0.00020	mg/L	1	31-Jul-2020 20:28
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	31-Jul-2020 20:28
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	31-Jul-2020 20:28
Phenanthrene	U		0.000021	0.00010	mg/L	1	31-Jul-2020 20:28
Phenol	U		0.000035	0.00020	mg/L	1	31-Jul-2020 20:28
Pyrene	U		0.000019	0.00010	mg/L	1	31-Jul-2020 20:28
<i>Surr: 2,4,6-Tribromophenol</i>	<i>45.3</i>			<i>34-129</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 20:28</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>67.4</i>			<i>40-125</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 20:28</i>
<i>Surr: 2-Fluorophenol</i>	<i>34.0</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 20:28</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>85.1</i>			<i>40-135</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 20:28</i>
<i>Surr: Nitrobenzene-d5</i>	<i>89.3</i>			<i>41-120</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 20:28</i>
<i>Surr: Phenol-d6</i>	<i>56.9</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 20:28</i>
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 27-Jul-2020		Analyst: JHD	
Arsenic	0.00370		0.000400	0.00200	mg/L	1	27-Jul-2020 22:11

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW60B-20200720
 Collection Date: 20-Jul-2020 15:35

ANALYTICAL REPORT
 WorkOrder:HS20070941
 Lab ID:HS20070941-19
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	22-Jul-2020 20:15
Benzene	U		0.00020	0.0010	mg/L	1	22-Jul-2020 20:15
Chlorobenzene	U		0.00030	0.0010	mg/L	1	22-Jul-2020 20:15
Ethylbenzene	U		0.00030	0.0010	mg/L	1	22-Jul-2020 20:15
Methylene chloride	U		0.0010	0.0020	mg/L	1	22-Jul-2020 20:15
Toluene	U		0.00020	0.0010	mg/L	1	22-Jul-2020 20:15
Xylenes, Total	U		0.00030	0.0010	mg/L	1	22-Jul-2020 20:15
<i>Surr: 1,2-Dichloroethane-d4</i>		<i>102</i>		<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>22-Jul-2020 20:15</i>
<i>Surr: 4-Bromofluorobenzene</i>		<i>99.0</i>		<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>22-Jul-2020 20:15</i>
<i>Surr: Dibromofluoromethane</i>		<i>103</i>		<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>22-Jul-2020 20:15</i>
<i>Surr: Toluene-d8</i>		<i>100</i>		<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>22-Jul-2020 20:15</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW60B-20200720
 Collection Date: 20-Jul-2020 15:35

ANALYTICAL REPORT
 WorkOrder:HS20070941
 Lab ID:HS20070941-19
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 24-Jul-2020		Analyst: ACN	
1,2-Diphenylhydrazine	U		0.000021	0.00020	mg/L	1	31-Jul-2020 20:48
2,4-Dimethylphenol	U		0.000040	0.00020	mg/L	1	31-Jul-2020 20:48
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	31-Jul-2020 20:48
2,6-Dinitrotoluene	U		0.000042	0.00020	mg/L	1	31-Jul-2020 20:48
2-Chloronaphthalene	U		0.000021	0.00020	mg/L	1	31-Jul-2020 20:48
2-Methylnaphthalene	0.000022	J	0.000019	0.00010	mg/L	1	31-Jul-2020 20:48
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	31-Jul-2020 20:48
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	31-Jul-2020 20:48
Acenaphthene	0.000042	J	0.000027	0.00010	mg/L	1	31-Jul-2020 20:48
Acenaphthylene	U		0.000015	0.00010	mg/L	1	31-Jul-2020 20:48
Anthracene	U		0.000014	0.00010	mg/L	1	31-Jul-2020 20:48
Benz(a)anthracene	U		0.000050	0.00010	mg/L	1	31-Jul-2020 20:48
Benzo(a)pyrene	U		0.000020	0.00010	mg/L	1	31-Jul-2020 20:48
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	31-Jul-2020 20:48
Bis(2-ethylhexyl)phthalate	0.000065	J	0.000037	0.00020	mg/L	1	31-Jul-2020 20:48
Chrysene	U		0.000021	0.00010	mg/L	1	31-Jul-2020 20:48
Dibenzofuran	0.000023	J	0.000020	0.00010	mg/L	1	31-Jul-2020 20:48
Di-n-butyl phthalate	0.000021	J	0.000020	0.00020	mg/L	1	31-Jul-2020 20:48
Fluoranthene	U		0.000010	0.00010	mg/L	1	31-Jul-2020 20:48
Fluorene	U		0.000030	0.00010	mg/L	1	31-Jul-2020 20:48
Naphthalene	0.00012		0.000020	0.00010	mg/L	1	31-Jul-2020 20:48
Nitrobenzene	U		0.000024	0.00020	mg/L	1	31-Jul-2020 20:48
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	31-Jul-2020 20:48
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	31-Jul-2020 20:48
Phenanthrene	U		0.000021	0.00010	mg/L	1	31-Jul-2020 20:48
Phenol	U		0.000035	0.00020	mg/L	1	31-Jul-2020 20:48
Pyrene	U		0.000019	0.00010	mg/L	1	31-Jul-2020 20:48
<i>Surr: 2,4,6-Tribromophenol</i>	<i>65.4</i>			<i>34-129</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 20:48</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>53.4</i>			<i>40-125</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 20:48</i>
<i>Surr: 2-Fluorophenol</i>	<i>46.4</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 20:48</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>85.6</i>			<i>40-135</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 20:48</i>
<i>Surr: Nitrobenzene-d5</i>	<i>86.1</i>			<i>41-120</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 20:48</i>
<i>Surr: Phenol-d6</i>	<i>69.4</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 20:48</i>
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 27-Jul-2020		Analyst: JHD	
Arsenic	0.00932		0.000400	0.00200	mg/L	1	27-Jul-2020 22:13

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Weight / Prep Log

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20070941

Batch ID: 155764 **Start Date:** 24 Jul 2020 08:30 **End Date:** 24 Jul 2020 15:30
Method: SV AQ SEP FUN EXTRACT-LOWLEV - 3510C **Prep Code:** 3510_B_LOW

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS20070941-02	1	1000 (mL)	1 (mL)	0.001
HS20070941-03	1	1000 (mL)	1 (mL)	0.001
HS20070941-04	1	1000 (mL)	1 (mL)	0.001
HS20070941-05	1	1000 (mL)	1 (mL)	0.001
HS20070941-06	1	1000 (mL)	1 (mL)	0.001
HS20070941-07	1	1000 (mL)	1 (mL)	0.001
HS20070941-08	1	1000 (mL)	1 (mL)	0.001
HS20070941-09	1	1000 (mL)	1 (mL)	0.001
HS20070941-10	1	1000 (mL)	1 (mL)	0.001
HS20070941-11	1	1000 (mL)	1 (mL)	0.001
HS20070941-12	1	1000 (mL)	1 (mL)	0.001
HS20070941-13	1	1000 (mL)	1 (mL)	0.001
HS20070941-14	1	1000 (mL)	1 (mL)	0.001
HS20070941-15	1	1000 (mL)	1 (mL)	0.001
HS20070941-16	1	1000 (mL)	1 (mL)	0.001
HS20070941-17	1	1000 (mL)	1 (mL)	0.001
HS20070941-18	1	1000 (mL)	1 (mL)	0.001
HS20070941-19	1	1000 (mL)	1 (mL)	0.001

Batch ID: 155815 **Start Date:** 27 Jul 2020 14:30 **End Date:** 27 Jul 2020 18:30
Method: WATER - SW3010A **Prep Code:** 3010A

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS20070941-02		10 (mL)	10 (mL)	1
HS20070941-03		10 (mL)	10 (mL)	1
HS20070941-04		10 (mL)	10 (mL)	1
HS20070941-05		10 (mL)	10 (mL)	1
HS20070941-06		10 (mL)	10 (mL)	1
HS20070941-07		10 (mL)	10 (mL)	1
HS20070941-08		10 (mL)	10 (mL)	1
HS20070941-09		10 (mL)	10 (mL)	1
HS20070941-10		10 (mL)	10 (mL)	1
HS20070941-11		10 (mL)	10 (mL)	1
HS20070941-12		10 (mL)	10 (mL)	1
HS20070941-13		10 (mL)	10 (mL)	1
HS20070941-14		10 (mL)	10 (mL)	1
HS20070941-15		10 (mL)	10 (mL)	1
HS20070941-16		10 (mL)	10 (mL)	1
HS20070941-17		10 (mL)	10 (mL)	1
HS20070941-18		10 (mL)	10 (mL)	1
HS20070941-19		10 (mL)	10 (mL)	1

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20070941

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 155764 (0)		Test Name : LOW-LEVEL SEMIVOLATILES BY 8270D			Matrix: Water	
HS20070941-10	WG-1620-FB05-20200720	20 Jul 2020 16:00		24 Jul 2020 15:42	31 Jul 2020 16:53	1
Batch ID: 155764 (0)		Test Name : LOW-LEVEL SEMIVOLATILES BY 8270D			Matrix: Groundwater	
HS20070941-02	WG-1620-MW95A-20200720	20 Jul 2020 09:15		24 Jul 2020 15:42	31 Jul 2020 03:06	1
HS20070941-03	WG-1620-MW38A-20200720	20 Jul 2020 10:20		24 Jul 2020 15:42	31 Jul 2020 03:25	1
HS20070941-04	WG-1620-MW38B-20200720	20 Jul 2020 11:20		24 Jul 2020 15:42	31 Jul 2020 03:45	1
HS20070941-05	WG-1620-MW22AR-20200720	20 Jul 2020 12:15		24 Jul 2020 15:42	31 Jul 2020 04:04	1
HS20070941-06	WG-1620-MW22BR-20200720	20 Jul 2020 13:00		24 Jul 2020 15:42	31 Jul 2020 04:24	1
HS20070941-07	WG-1620-MW96B-20200720	20 Jul 2020 13:55		24 Jul 2020 15:42	31 Jul 2020 04:43	1
HS20070941-08	WG-1620-MW94A-20200720	20 Jul 2020 14:45		24 Jul 2020 15:42	31 Jul 2020 15:16	1
HS20070941-09	WG-1620-MW82B-20200720	20 Jul 2020 15:35		24 Jul 2020 15:42	31 Jul 2020 16:34	1
HS20070941-11	WG-1620-MW80B-20200720	20 Jul 2020 08:05		24 Jul 2020 15:42	31 Jul 2020 17:32	1
HS20070941-12	WG-1620-MW77A-20200720	20 Jul 2020 09:00		24 Jul 2020 15:42	31 Jul 2020 18:12	10
HS20070941-12	WG-1620-MW77A-20200720	20 Jul 2020 09:00		24 Jul 2020 15:42	31 Jul 2020 17:52	1
HS20070941-13	WG-1620-MW76B-20200720	20 Jul 2020 09:50		24 Jul 2020 15:42	31 Jul 2020 18:31	1
HS20070941-14	WG-1620-MW76C-20200720	20 Jul 2020 10:35		24 Jul 2020 15:42	31 Jul 2020 18:51	1
HS20070941-15	WG-1620-MW78A-20200720	20 Jul 2020 11:25		24 Jul 2020 15:42	31 Jul 2020 19:49	1000
HS20070941-15	WG-1620-MW78A-20200720	20 Jul 2020 11:25		24 Jul 2020 15:42	31 Jul 2020 19:30	100
HS20070941-15	WG-1620-MW78A-20200720	20 Jul 2020 11:25		24 Jul 2020 15:42	31 Jul 2020 19:10	10
HS20070941-16	WG-1620-MW61A-20200720	20 Jul 2020 12:30		24 Jul 2020 15:42	31 Jul 2020 17:13	1
HS20070941-17	WG-1620-MW61B-20200720	20 Jul 2020 13:55		24 Jul 2020 15:42	31 Jul 2020 20:09	1
HS20070941-18	WG-1620-MW60AR-20200720	20 Jul 2020 14:50		24 Jul 2020 15:42	31 Jul 2020 20:28	1
HS20070941-19	WG-1620-MW60B-20200720	20 Jul 2020 15:35		24 Jul 2020 15:42	31 Jul 2020 20:48	1
Batch ID: 155815 (0)		Test Name : ICP-MS METALS BY SW6020A			Matrix: Water	
HS20070941-10	WG-1620-FB05-20200720	20 Jul 2020 16:00		27 Jul 2020 18:30	27 Jul 2020 21:54	1

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20070941

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 155815 (0)		Test Name : ICP-MS METALS BY SW6020A			Matrix: Groundwater	
HS20070941-02	WG-1620-MW95A-20200720	20 Jul 2020 09:15		27 Jul 2020 18:30	27 Jul 2020 21:39	1
HS20070941-03	WG-1620-MW38A-20200720	20 Jul 2020 10:20		27 Jul 2020 18:30	27 Jul 2020 21:41	1
HS20070941-04	WG-1620-MW38B-20200720	20 Jul 2020 11:20		27 Jul 2020 18:30	27 Jul 2020 21:42	1
HS20070941-05	WG-1620-MW22AR-20200720	20 Jul 2020 12:15		27 Jul 2020 18:30	27 Jul 2020 21:44	1
HS20070941-06	WG-1620-MW22BR-20200720	20 Jul 2020 13:00		27 Jul 2020 18:30	27 Jul 2020 21:46	1
HS20070941-07	WG-1620-MW96B-20200720	20 Jul 2020 13:55		27 Jul 2020 18:30	27 Jul 2020 21:48	1
HS20070941-08	WG-1620-MW94A-20200720	20 Jul 2020 14:45		27 Jul 2020 18:30	27 Jul 2020 21:50	1
HS20070941-09	WG-1620-MW82B-20200720	20 Jul 2020 15:35		27 Jul 2020 18:30	27 Jul 2020 21:52	1
HS20070941-11	WG-1620-MW80B-20200720	20 Jul 2020 08:05		27 Jul 2020 18:30	27 Jul 2020 21:56	1
HS20070941-12	WG-1620-MW77A-20200720	20 Jul 2020 09:00		27 Jul 2020 18:30	27 Jul 2020 22:01	1
HS20070941-13	WG-1620-MW76B-20200720	20 Jul 2020 09:50		27 Jul 2020 18:30	27 Jul 2020 22:03	1
HS20070941-14	WG-1620-MW76C-20200720	20 Jul 2020 10:35		27 Jul 2020 18:30	27 Jul 2020 22:05	1
HS20070941-15	WG-1620-MW78A-20200720	20 Jul 2020 11:25		27 Jul 2020 18:30	27 Jul 2020 22:07	1
HS20070941-16	WG-1620-MW61A-20200720	20 Jul 2020 12:30		27 Jul 2020 18:30	27 Jul 2020 21:25	1
HS20070941-17	WG-1620-MW61B-20200720	20 Jul 2020 13:55		27 Jul 2020 18:30	27 Jul 2020 22:09	1
HS20070941-18	WG-1620-MW60AR-20200720	20 Jul 2020 14:50		27 Jul 2020 18:30	27 Jul 2020 22:11	1
HS20070941-19	WG-1620-MW60B-20200720	20 Jul 2020 15:35		27 Jul 2020 18:30	27 Jul 2020 22:13	1
Batch ID: R365498 (0)		Test Name : LOW LEVEL VOLATILES BY SW8260C			Matrix: Groundwater	
HS20070941-02	WG-1620-MW95A-20200720	20 Jul 2020 09:15			22 Jul 2020 14:43	1
HS20070941-03	WG-1620-MW38A-20200720	20 Jul 2020 10:20			22 Jul 2020 15:05	1
HS20070941-04	WG-1620-MW38B-20200720	20 Jul 2020 11:20			22 Jul 2020 15:27	1
HS20070941-05	WG-1620-MW22AR-20200720	20 Jul 2020 12:15			22 Jul 2020 15:49	1
HS20070941-06	WG-1620-MW22BR-20200720	20 Jul 2020 13:00			22 Jul 2020 16:11	1
HS20070941-07	WG-1620-MW96B-20200720	20 Jul 2020 13:55			22 Jul 2020 16:33	1
HS20070941-08	WG-1620-MW94A-20200720	20 Jul 2020 14:45			22 Jul 2020 16:55	1
HS20070941-09	WG-1620-MW82B-20200720	20 Jul 2020 15:35			22 Jul 2020 17:17	1
HS20070941-11	WG-1620-MW80B-20200720	20 Jul 2020 08:05			22 Jul 2020 17:40	1
HS20070941-12	WG-1620-MW77A-20200720	20 Jul 2020 09:00			22 Jul 2020 18:02	1
HS20070941-13	WG-1620-MW76B-20200720	20 Jul 2020 09:50			22 Jul 2020 18:24	1
HS20070941-14	WG-1620-MW76C-20200720	20 Jul 2020 10:35			22 Jul 2020 18:47	1
HS20070941-15	WG-1620-MW78A-20200720	20 Jul 2020 11:25			22 Jul 2020 19:09	1
HS20070941-16	WG-1620-MW61A-20200720	20 Jul 2020 12:30			22 Jul 2020 13:15	1
HS20070941-17	WG-1620-MW61B-20200720	20 Jul 2020 13:55			22 Jul 2020 19:31	1
HS20070941-18	WG-1620-MW60AR-20200720	20 Jul 2020 14:50			22 Jul 2020 19:53	1
HS20070941-19	WG-1620-MW60B-20200720	20 Jul 2020 15:35			22 Jul 2020 20:15	1

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20070941

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R365498 (0)		Test Name : LOW LEVEL VOLATILES BY SW8260C			Matrix: Water	
HS20070941-01	WQ-1620-TB03-20200721	21 Jul 2020 00:00			22 Jul 2020 12:30	1
HS20070941-10	WG-1620-FB05-20200720	20 Jul 2020 16:00			22 Jul 2020 12:52	1
Batch ID: R365554 (0)		Test Name : LOW LEVEL VOLATILES BY SW8260C			Matrix: Groundwater	
HS20070941-15	WG-1620-MW78A-20200720	20 Jul 2020 11:25			23 Jul 2020 14:29	5
HS20070941-17	WG-1620-MW61B-20200720	20 Jul 2020 13:55			23 Jul 2020 14:04	1

WorkOrder: HS20070941
 InstrumentID: ICPMS06
 Test Code: ICP_TW
 Test Number: SW6020
 Test Name: ICP-MS Metals by SW6020A

**METHOD DETECTION /
 REPORTING LIMITS**

Matrix: Aqueous **Units:** mg/L

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	Arsenic	7440-38-2	0.00100	0.000928	0.000400	0.00200

WorkOrder: HS20070941
 InstrumentID: SV-7
 Test Code: 8270_LOW_W
 Test Number: SW8270
 Test Name: Low-Level Semivolatiles by 8270D

**METHOD DETECTION /
 REPORTING LIMITS**

Matrix: Aqueous **Units:** mg/L

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	1,2-Diphenylhydrazine	122-66-7	0.00010	0.000073	0.000021	0.00020
A	2,4-Dimethylphenol	105-67-9	0.00010	0.000085	0.000040	0.00020
A	2,4-Dinitrotoluene	121-14-2	0.00010	0.000088	0.000058	0.00020
A	2,6-Dinitrotoluene	606-20-2	0.00010	0.000082	0.000042	0.00020
A	2-Chloronaphthalene	91-58-7	0.00010	0.000084	0.000021	0.00020
A	2-Methylnaphthalene	91-57-6	0.000050	0.000040	0.000019	0.00010
A	4,6-Dinitro-2-methylphenol	534-52-1	0.00010	0.000056	0.000020	0.00020
A	4-Nitrophenol	100-02-7	0.00010	0.000075	0.000047	0.0010
A	Acenaphthene	83-32-9	0.000050	0.000045	0.000027	0.00010
A	Acenaphthylene	208-96-8	0.000050	0.000039	0.000015	0.00010
A	Anthracene	120-12-7	0.000050	0.000040	0.000014	0.00010
A	Benz(a)anthracene	56-55-3	0.000050	0.000036	0.000050	0.00010
A	Benzo(a)pyrene	50-32-8	0.000050	0.000029	0.000020	0.00010
A	Bis(2-chloroethoxy)methane	111-91-1	0.00010	0.000085	0.000030	0.00020
A	Bis(2-ethylhexyl)phthalate	117-81-7	0.00010	0.000072	0.000037	0.00020
A	Chrysene	218-01-9	0.000050	0.000040	0.000021	0.00010
A	Dibenzofuran	132-64-9	0.000050	0.000045	0.000020	0.00010
A	Di-n-butyl phthalate	84-74-2	0.00010	0.000073	0.000020	0.00020
A	Fluoranthene	206-44-0	0.000050	0.000033	0.000010	0.00010
A	Fluorene	86-73-7	0.000050	0.000045	0.000030	0.00010
A	Naphthalene	91-20-3	0.000050	0.000066	0.000020	0.00010
A	Nitrobenzene	98-95-3	0.00010	0.000098	0.000024	0.00020
A	N-Nitrosodiphenylamine	86-30-6	0.00010	0.000079	0.000025	0.00020
A	Pentachlorophenol	87-86-5	0.00010	0.000060	0.000079	0.00020
A	Phenanthrene	85-01-8	0.000050	0.000042	0.000021	0.00010
A	Phenol	108-95-2	0.00010	0.000090	0.000035	0.00020
A	Pyrene	129-00-0	0.000050	0.000044	0.000019	0.00010
S	2,4,6-Tribromophenol	118-79-6	0	0	0	0.00020
S	2-Fluorobiphenyl	321-60-8	0	0	0	0.00020
S	2-Fluorophenol	367-12-4	0	0	0	0.00020
S	4-Terphenyl-d14	1718-51-0	0	0	0	0.00020
S	Nitrobenzene-d5	4165-60-0	0	0	0	0.00020
S	Phenol-d6	13127-88-3	0	0	0	0.00020

WorkOrder: HS20070941
 InstrumentID: SV-6
 Test Code: 8270_LOW_W
 Test Number: SW8270
 Test Name: Low-Level Semivolatiles by 8270D

**METHOD DETECTION /
 REPORTING LIMITS**

Matrix: Aqueous **Units:** mg/L

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	1,2-Diphenylhydrazine	122-66-7	0.00010	0.000074	0.000021	0.00020
A	2,4-Dimethylphenol	105-67-9	0.00010	0.000077	0.000040	0.00020
A	2,4-Dinitrotoluene	121-14-2	0.00010	0.000065	0.000058	0.00020
A	2,6-Dinitrotoluene	606-20-2	0.00010	0.000074	0.000042	0.00020
A	2-Chloronaphthalene	91-58-7	0.00010	0.000093	0.000021	0.00020
A	2-Methylnaphthalene	91-57-6	0.000050	0.000035	0.000019	0.00010
A	4,6-Dinitro-2-methylphenol	534-52-1	0.00010	0.000037	0.000020	0.00020
A	4-Nitrophenol	100-02-7	0.00010	0.000024	0.000047	0.0010
A	Acenaphthene	83-32-9	0.000050	0.000043	0.000027	0.00010
A	Acenaphthylene	208-96-8	0.000050	0.000039	0.000015	0.00010
A	Anthracene	120-12-7	0.000050	0.000037	0.000014	0.00010
A	Benz(a)anthracene	56-55-3	0.000050	0.000029	0.000050	0.00010
A	Benzo(a)pyrene	50-32-8	0.000050	0.000030	0.000020	0.00010
A	Bis(2-chloroethoxy)methane	111-91-1	0.00010	0.000091	0.000030	0.00020
A	Bis(2-ethylhexyl)phthalate	117-81-7	0.00010	0.000036	0.000037	0.00020
A	Chrysene	218-01-9	0.000050	0.000044	0.000021	0.00010
A	Dibenzofuran	132-64-9	0.000050	0.000038	0.000020	0.00010
A	Di-n-butyl phthalate	84-74-2	0.00010	0.000071	0.000020	0.00020
A	Fluoranthene	206-44-0	0.000050	0.000036	0.000010	0.00010
A	Fluorene	86-73-7	0.000050	0.000039	0.000030	0.00010
A	Naphthalene	91-20-3	0.000050	0.000042	0.000020	0.00010
A	Nitrobenzene	98-95-3	0.00010	0.00011	0.000024	0.00020
A	N-Nitrosodiphenylamine	86-30-6	0.00010	0.000084	0.000025	0.00020
A	Pentachlorophenol	87-86-5	0.00010	0.000040	0.000079	0.00020
A	Phenanthrene	85-01-8	0.000050	0.000040	0.000021	0.00010
A	Phenol	108-95-2	0.00010	0.000083	0.000035	0.00020
A	Pyrene	129-00-0	0.000050	0.000043	0.000019	0.00010
S	2,4,6-Tribromophenol	118-79-6	0	0	0	0.00020
S	2-Fluorobiphenyl	321-60-8	0	0	0	0.00020
S	2-Fluorophenol	367-12-4	0	0	0	0.00020
S	4-Terphenyl-d14	1718-51-0	0	0	0	0.00020
S	Nitrobenzene-d5	4165-60-0	0	0	0	0.00020
S	Phenol-d6	13127-88-3	0	0	0	0.00020

WorkOrder: HS20070941
 InstrumentID: VOA4
 Test Code: 8260_LL_W
 Test Number: SW8260
 Test Name: Low Level Volatiles by SW8260C

**METHOD DETECTION /
 REPORTING LIMITS**

Matrix: Aqueous

Units: mg/L

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	1,2-Dichloroethane	107-06-2	0.00050	0.00056	0.00020	0.0010
A	Benzene	71-43-2	0.00050	0.00052	0.00020	0.0010
A	Chlorobenzene	108-90-7	0.0010	0.00097	0.00030	0.0010
A	Ethylbenzene	100-41-4	0.0010	0.00070	0.00030	0.0010
A	Methylene chloride	75-09-2	0.0020	0.00062	0.0010	0.0020
A	Toluene	108-88-3	0.00050	0.00060	0.00020	0.0010
A	Vinyl chloride	75-01-4	0.00050	0.00046	0.00020	0.0010
A	Xylenes, Total	1330-20-7	0.0010	0.0024	0.00030	0.0010
S	1,2-Dichloroethane-d4	17060-07-0	0	0	0	0.0010
S	4-Bromofluorobenzene	460-00-4	0	0	0	0.0010
S	Dibromofluoromethane	1868-53-7	0	0	0	0.0010
S	Toluene-d8	2037-26-5	0	0	0	0.0010

WorkOrder: HS20070941
 InstrumentID: VOA2
 Test Code: 8260_LL_W
 Test Number: SW8260
 Test Name: Low Level Volatiles by SW8260C

**METHOD DETECTION /
 REPORTING LIMITS**

Matrix: Aqueous

Units: mg/L

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	Toluene	108-88-3	0.00050	0.00056	0.00020	0.0010
S	1,2-Dichloroethane-d4	17060-07-0	0	0	0	0.0010
S	4-Bromofluorobenzene	460-00-4	0	0	0	0.0010
S	Dibromofluoromethane	1868-53-7	0	0	0	0.0010
S	Toluene-d8	2037-26-5	0	0	0	0.0010

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20070941

QC BATCH REPORT

Batch ID: 155815 (0)		Instrument: ICPMS06		Method: ICP-MS METALS BY SW6020A					
MBLK	Sample ID: MBLK-155815	Units: mg/L		Analysis Date: 27-Jul-2020 21:22					
Client ID:	Run ID: ICPMS06_365696	SeqNo: 5675719	PrepDate: 27-Jul-2020	DF: 1					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Arsenic U 0.00200

LCS	Sample ID: LCS-155815	Units: mg/L		Analysis Date: 27-Jul-2020 21:24					
Client ID:	Run ID: ICPMS06_365696	SeqNo: 5675720	PrepDate: 27-Jul-2020	DF: 1					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Arsenic 0.04404 0.00200 0.05 0 88.1 80 - 120

MS	Sample ID: HS20070941-16MS	Units: mg/L		Analysis Date: 27-Jul-2020 21:29					
Client ID: WG-1620-MW61A-20200720	Run ID: ICPMS06_365696	SeqNo: 5675723	PrepDate: 27-Jul-2020	DF: 1					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Arsenic 0.04392 0.00200 0.05 0.000524 86.8 80 - 120

MSD	Sample ID: HS20070941-16MSD	Units: mg/L		Analysis Date: 27-Jul-2020 21:31					
Client ID: WG-1620-MW61A-20200720	Run ID: ICPMS06_365696	SeqNo: 5675724	PrepDate: 27-Jul-2020	DF: 1					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Arsenic 0.04784 0.00200 0.05 0.000524 94.6 80 - 120 0.04392 8.54 20

PDS	Sample ID: HS20070941-16PDS	Units: mg/L		Analysis Date: 27-Jul-2020 21:33					
Client ID: WG-1620-MW61A-20200720	Run ID: ICPMS06_365696	SeqNo: 5675725	PrepDate: 27-Jul-2020	DF: 1					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Arsenic 0.09589 0.00200 0.1 0.000524 95.4 75 - 125

SD	Sample ID: HS20070941-16SD	Units: mg/L		Analysis Date: 27-Jul-2020 21:27					
Client ID: WG-1620-MW61A-20200720	Run ID: ICPMS06_365696	SeqNo: 5675722	PrepDate: 27-Jul-2020	DF: 5					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	RPD Limit Qual

Arsenic U 0.0100 0.000524 0 10

The following samples were analyzed in this batch:	HS20070941-02	HS20070941-03	HS20070941-04	HS20070941-05
	HS20070941-06	HS20070941-07	HS20070941-08	HS20070941-09
	HS20070941-10	HS20070941-11	HS20070941-12	HS20070941-13
	HS20070941-14	HS20070941-15	HS20070941-16	HS20070941-17
	HS20070941-18	HS20070941-19		

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20070941

QC BATCH REPORT

Batch ID: 155764 (0)		Instrument: SV-7		Method: LOW-LEVEL SEMIVOLATILES BY 8270D						
MBLK	Sample ID: MBLK-155764	Units: ug/L			Analysis Date: 31-Jul-2020 11:21					
Client ID:	Run ID: SV-7_365999	SeqNo: 5681517		PrepDate: 24-Jul-2020		DF: 1				
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Diphenylhydrazine	U	0.20								
2,4-Dimethylphenol	U	0.20								
2,4-Dinitrotoluene	U	0.20								
2,6-Dinitrotoluene	U	0.20								
2-Chloronaphthalene	U	0.20								
2-Methylnaphthalene	U	0.10								
4,6-Dinitro-2-methylphenol	U	0.20								
4-Nitrophenol	U	1.0								
Acenaphthene	U	0.10								
Acenaphthylene	U	0.10								
Anthracene	U	0.10								
Benz(a)anthracene	U	0.10								
Benzo(a)pyrene	U	0.10								
Bis(2-chloroethoxy)methane	U	0.20								
Bis(2-ethylhexyl)phthalate	U	0.20								
Chrysene	U	0.10								
Dibenzofuran	U	0.10								
Di-n-butyl phthalate	U	0.20								
Fluoranthene	U	0.10								
Fluorene	U	0.10								
Naphthalene	U	0.10								
Nitrobenzene	U	0.20								
N-Nitrosodiphenylamine	U	0.20								
Pentachlorophenol	U	0.20								
Phenanthrene	U	0.10								
Phenol	U	0.20								
Pyrene	U	0.10								
<i>Surr: 2,4,6-Tribromophenol</i>	3.476	0.20	5	0	69.5	34 - 129				
<i>Surr: 2-Fluorobiphenyl</i>	3.247	0.20	5	0	64.9	40 - 125				
<i>Surr: 2-Fluorophenol</i>	3.452	0.20	5	0	69.0	20 - 120				
<i>Surr: 4-Terphenyl-d14</i>	4.446	0.20	5	0	88.9	40 - 135				
<i>Surr: Nitrobenzene-d5</i>	3.965	0.20	5	0	79.3	41 - 120				
<i>Surr: Phenol-d6</i>	4.243	0.20	5	0	84.9	20 - 120				

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20070941

QC BATCH REPORT

Batch ID: 155764 (0)		Instrument: SV-7		Method: LOW-LEVEL SEMIVOLATILES BY 8270D						
LCS	Sample ID: LCS-155764	Units: ug/L			Analysis Date: 31-Jul-2020 11:40					
Client ID:	Run ID: SV-7_365999	SeqNo: 5681510		PrepDate: 24-Jul-2020		DF: 1				
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
1,2-Diphenylhydrazine	3.67	0.20	5	0	73.4	39 - 127				
2,4-Dimethylphenol	2.55	0.20	5	0	51.0	35 - 120				
2,4-Dinitrotoluene	3.004	0.20	5	0	60.1	50 - 122				
2,6-Dinitrotoluene	3.034	0.20	5	0	60.7	50 - 120				
2-Chloronaphthalene	3.013	0.20	5	0	60.3	50 - 120				
2-Methylnaphthalene	2.799	0.10	5	0	56.0	50 - 120				
4,6-Dinitro-2-methylphenol	2.529	0.20	5	0	50.6	25 - 121				
4-Nitrophenol	3.245	1.0	5	0	64.9	30 - 130				
Acenaphthene	2.684	0.10	5	0	53.7	45 - 120				
Acenaphthylene	2.978	0.10	5	0	59.6	47 - 120				
Anthracene	2.953	0.10	5	0	59.1	45 - 120				
Benz(a)anthracene	3.528	0.10	5	0	70.6	40 - 120				
Benzo(a)pyrene	3.311	0.10	5	0	66.2	45 - 120				
Bis(2-chloroethoxy)methane	3	0.20	5	0	60.0	45 - 120				
Bis(2-ethylhexyl)phthalate	4.279	0.20	5	0	85.6	40 - 139				
Chrysene	3.045	0.10	5	0	60.9	43 - 120				
Dibenzofuran	2.884	0.10	5	0	57.7	50 - 120				
Di-n-butyl phthalate	3.403	0.20	5	0	68.1	45 - 123				
Fluoranthene	2.91	0.10	5	0	58.2	45 - 125				
Fluorene	2.981	0.10	5	0	59.6	49 - 120				
Naphthalene	2.822	0.10	5	0	56.4	45 - 120				
Nitrobenzene	3.555	0.20	5	0	71.1	44 - 120				
N-Nitrosodiphenylamine	3.036	0.20	5	0	60.7	40 - 125				
Pentachlorophenol	2.005	0.20	5	0	40.1	19 - 121				
Phenanthrene	2.899	0.10	5	0	58.0	45 - 121				
Phenol	3.023	0.20	5	0	60.5	20 - 124				
Pyrene	3.258	0.10	5	0	65.2	40 - 130				
Surr: 2,4,6-Tribromophenol	3.499	0.20	5	0	70.0	34 - 129				
Surr: 2-Fluorobiphenyl	2.948	0.20	5	0	59.0	40 - 125				
Surr: 2-Fluorophenol	3.197	0.20	5	0	63.9	20 - 120				
Surr: 4-Terphenyl-d14	3.857	0.20	5	0	77.1	40 - 135				
Surr: Nitrobenzene-d5	3.83	0.20	5	0	76.6	41 - 120				
Surr: Phenol-d6	3.736	0.20	5	0	74.7	20 - 120				

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20070941

QC BATCH REPORT

Batch ID: 155764 (0)		Instrument: SV-7		Method: LOW-LEVEL SEMIVOLATILES BY 8270D						
MS		Sample ID: HS20070941-16MS			Units: ug/L		Analysis Date: 31-Jul-2020 15:55			
Client ID: WG-1620-MW61A-20200720		Run ID: SV-6_365998			SeqNo: 5682135		PrepDate: 24-Jul-2020		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Diphenylhydrazine	3.899	0.20	5	0	78.0	39 - 127				
2,4-Dimethylphenol	3.403	0.20	5	0	68.1	35 - 120				
2,4-Dinitrotoluene	4.553	0.20	5	0	91.1	50 - 122				
2,6-Dinitrotoluene	4.164	0.20	5	0	83.3	50 - 120				
2-Chloronaphthalene	3.493	0.20	5	0	69.9	50 - 120				
2-Methylnaphthalene	3.445	0.10	5	0	68.9	50 - 120				
4,6-Dinitro-2-methylphenol	4.762	0.20	5	0	95.2	25 - 121				
4-Nitrophenol	5.13	1.0	5	0	103	30 - 130				
Acenaphthene	3.248	0.10	5	0	65.0	45 - 120				
Acenaphthylene	3.247	0.10	5	0	64.9	47 - 120				
Anthracene	4.194	0.10	5	0.02417	83.4	45 - 120				
Benz(a)anthracene	4.434	0.10	5	0	88.7	40 - 120				
Benzo(a)pyrene	4.617	0.10	5	0	92.3	45 - 120				
Bis(2-chloroethoxy)methane	3.548	0.20	5	0	71.0	45 - 120				
Bis(2-ethylhexyl)phthalate	4.209	0.20	5	0.3014	78.2	40 - 139				
Chrysene	4.097	0.10	5	0	81.9	43 - 120				
Dibenzofuran	3.53	0.10	5	0	70.6	50 - 120				
Di-n-butyl phthalate	4.388	0.20	5	0	87.8	45 - 123				
Fluoranthene	4.778	0.10	5	0.04031	94.8	45 - 125				
Fluorene	3.758	0.10	5	0	75.2	49 - 120				
Naphthalene	3.377	0.10	5	0.07298	66.1	45 - 120				
Nitrobenzene	4.515	0.20	5	0	90.3	44 - 120				
N-Nitrosodiphenylamine	3.756	0.20	5	0	75.1	40 - 125				
Pentachlorophenol	3.95	0.20	5	0	79.0	19 - 121				
Phenanthrene	4.29	0.10	5	0.06853	84.4	45 - 121				
Phenol	3.124	0.20	5	0	62.5	20 - 124				
Pyrene	4.416	0.10	5	0.02832	87.8	40 - 130				
Surr: 2,4,6-Tribromophenol	4.745	0.20	5	0	94.9	34 - 129				
Surr: 2-Fluorobiphenyl	3.792	0.20	5	0	75.8	40 - 125				
Surr: 2-Fluorophenol	3.008	0.20	5	0	60.2	20 - 120				
Surr: 4-Terphenyl-d14	5.029	0.20	5	0	101	40 - 135				
Surr: Nitrobenzene-d5	5.741	0.20	5	0	115	41 - 120				
Surr: Phenol-d6	4.133	0.20	5	0	82.7	20 - 120				

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20070941

QC BATCH REPORT

Batch ID: 155764 (0)		Instrument: SV-7		Method: LOW-LEVEL SEMIVOLATILES BY 8270D						
MSD	Sample ID: HS20070941-16MSD	Units: ug/L			Analysis Date: 31-Jul-2020 16:14					
Client ID: WG-1620-MW61A-20200720	Run ID: SV-6_365998	SeqNo: 5682136	PrepDate: 24-Jul-2020	DF: 1						
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Diphenylhydrazine	4.035	0.20	5	0	80.7	39 - 127	3.899	3.44	20	
2,4-Dimethylphenol	3.511	0.20	5	0	70.2	35 - 120	3.403	3.14	20	
2,4-Dinitrotoluene	4.408	0.20	5	0	88.2	50 - 122	4.553	3.24	20	
2,6-Dinitrotoluene	4.32	0.20	5	0	86.4	50 - 120	4.164	3.68	20	
2-Chloronaphthalene	3.571	0.20	5	0	71.4	50 - 120	3.493	2.21	20	
2-Methylnaphthalene	3.518	0.10	5	0	70.4	50 - 120	3.445	2.07	20	
4,6-Dinitro-2-methylphenol	4.245	0.20	5	0	84.9	25 - 121	4.762	11.5	30	
4-Nitrophenol	5.333	1.0	5	0	107	30 - 130	5.13	3.89	20	
Acenaphthene	3.269	0.10	5	0	65.4	45 - 120	3.248	0.662	20	
Acenaphthylene	3.223	0.10	5	0	64.5	47 - 120	3.247	0.749	20	
Anthracene	4.182	0.10	5	0.02417	83.2	45 - 120	4.194	0.29	20	
Benz(a)anthracene	4.792	0.10	5	0	95.8	40 - 120	4.434	7.76	20	
Benzo(a)pyrene	4.807	0.10	5	0	96.1	45 - 120	4.617	4.02	20	
Bis(2-chloroethoxy)methane	3.631	0.20	5	0	72.6	45 - 120	3.548	2.32	20	
Bis(2-ethylhexyl)phthalate	4.621	0.20	5	0.3014	86.4	40 - 139	4.209	9.32	20	
Chrysene	4.291	0.10	5	0	85.8	43 - 120	4.097	4.64	20	
Dibenzofuran	3.591	0.10	5	0	71.8	50 - 120	3.53	1.72	20	
Di-n-butyl phthalate	4.592	0.20	5	0	91.8	45 - 123	4.388	4.55	20	
Fluoranthene	4.963	0.10	5	0.04031	98.5	45 - 125	4.778	3.8	20	
Fluorene	3.74	0.10	5	0	74.8	49 - 120	3.758	0.472	20	
Naphthalene	3.449	0.10	5	0.07298	67.5	45 - 120	3.377	2.11	20	
Nitrobenzene	4.478	0.20	5	0	89.6	44 - 120	4.515	0.816	20	
N-Nitrosodiphenylamine	3.873	0.20	5	0	77.5	40 - 125	3.756	3.07	20	
Pentachlorophenol	3.913	0.20	5	0	78.3	19 - 121	3.95	0.942	20	
Phenanthrene	4.387	0.10	5	0.06853	86.4	45 - 121	4.29	2.23	20	
Phenol	3.243	0.20	5	0	64.9	20 - 124	3.124	3.75	20	
Pyrene	4.748	0.10	5	0.02832	94.4	40 - 130	4.416	7.23	20	
Surr: 2,4,6-Tribromophenol	4.756	0.20	5	0	95.1	34 - 129	4.745	0.223	20	
Surr: 2-Fluorobiphenyl	3.813	0.20	5	0	76.3	40 - 125	3.792	0.532	20	
Surr: 2-Fluorophenol	2.919	0.20	5	0	58.4	20 - 120	3.008	3	20	
Surr: 4-Terphenyl-d14	5.181	0.20	5	0	104	40 - 135	5.029	2.98	20	
Surr: Nitrobenzene-d5	5.756	0.20	5	0	115	41 - 120	5.741	0.256	20	
Surr: Phenol-d6	4.708	0.20	5	0	94.2	20 - 120	4.133	13	20	

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20070941

QC BATCH REPORT

Batch ID: 155764 (0)	Instrument: SV-7	Method: LOW-LEVEL SEMIVOLATILES BY 8270D
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The following samples were analyzed in this batch:	HS20070941-02	HS20070941-03	HS20070941-04	HS20070941-05
	HS20070941-06	HS20070941-07	HS20070941-08	HS20070941-09
	HS20070941-10	HS20070941-11	HS20070941-12	HS20070941-13
	HS20070941-14	HS20070941-15	HS20070941-16	HS20070941-17
	HS20070941-18	HS20070941-19		

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20070941

QC BATCH REPORT

Batch ID: R365498 (0)		Instrument: VOA4		Method: LOW LEVEL VOLATILES BY SW8260C					
MBLK	Sample ID: VBLKW-200722	Units: ug/L			Analysis Date: 22-Jul-2020 12:08				
Client ID:	Run ID: VOA4_365498	SeqNo: 5671052		PrepDate:		DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

1,2-Dichloroethane	U	1.0							
Benzene	U	1.0							
Chlorobenzene	U	1.0							
Ethylbenzene	U	1.0							
Methylene chloride	U	2.0							
Toluene	U	1.0							
Vinyl chloride	U	1.0							
Xylenes, Total	U	1.0							
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>51.67</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>103</i>	<i>70 - 123</i>			
<i>Surr: 4-Bromofluorobenzene</i>	<i>49.56</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>99.1</i>	<i>82 - 115</i>			
<i>Surr: Dibromofluoromethane</i>	<i>51.5</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>103</i>	<i>73 - 126</i>			
<i>Surr: Toluene-d8</i>	<i>50.58</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>101</i>	<i>81 - 120</i>			

LCS	Sample ID: VLCSW-200722	Units: ug/L			Analysis Date: 22-Jul-2020 11:24				
Client ID:	Run ID: VOA4_365498	SeqNo: 5671051		PrepDate:		DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
1,2-Dichloroethane	18.75	1.0	20	0	93.8	70 - 124			
Benzene	19.83	1.0	20	0	99.1	74 - 120			
Chlorobenzene	20.15	1.0	20	0	101	76 - 113			
Ethylbenzene	20.83	1.0	20	0	104	77 - 117			
Methylene chloride	19.66	2.0	20	0	98.3	70 - 127			
Toluene	19.79	1.0	20	0	99.0	77 - 118			
Vinyl chloride	20.86	1.0	20	0	104	70 - 130			
Xylenes, Total	63.49	1.0	60	0	106	75 - 122			
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>48.95</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>97.9</i>	<i>70 - 130</i>			
<i>Surr: 4-Bromofluorobenzene</i>	<i>50.65</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>101</i>	<i>82 - 115</i>			
<i>Surr: Dibromofluoromethane</i>	<i>49.17</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>98.3</i>	<i>73 - 126</i>			
<i>Surr: Toluene-d8</i>	<i>50.51</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>101</i>	<i>81 - 120</i>			

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20070941

QC BATCH REPORT

Batch ID: R365498 (0) **Instrument:** VOA4 **Method:** LOW LEVEL VOLATILES BY SW8260C

MS		Sample ID: HS20070941-16MS			Units: ug/L		Analysis Date: 22-Jul-2020 13:37			
Client ID: WG-1620-MW61A-20200720		Run ID: VOA4_365498			SeqNo: 5671056		PrepDate:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Dichloroethane	18.04	1.0	20	0	90.2	70 - 127				
Benzene	19.29	1.0	20	0	96.5	70 - 127				
Chlorobenzene	19.99	1.0	20	0	100.0	70 - 114				
Ethylbenzene	20.97	1.0	20	0	105	70 - 124				
Methylene chloride	18.23	2.0	20	0	91.2	70 - 128				
Toluene	20.14	1.0	20	0	101	70 - 123				
Vinyl chloride	20.36	1.0	20	0	102	70 - 130				
Xylenes, Total	63.36	1.0	60	0	106	70 - 130				
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>50.64</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>101</i>	<i>70 - 126</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>50.92</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>102</i>	<i>81 - 113</i>				
<i>Surr: Dibromofluoromethane</i>	<i>51.39</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>103</i>	<i>77 - 123</i>				
<i>Surr: Toluene-d8</i>	<i>50.45</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>101</i>	<i>82 - 127</i>				

MSD		Sample ID: HS20070941-16MSD			Units: ug/L		Analysis Date: 22-Jul-2020 13:59			
Client ID: WG-1620-MW61A-20200720		Run ID: VOA4_365498			SeqNo: 5671057		PrepDate:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Dichloroethane	19.12	1.0	20	0	95.6	70 - 127	18.04	5.81	20	
Benzene	20.01	1.0	20	0	100	70 - 127	19.29	3.65	20	
Chlorobenzene	19.87	1.0	20	0	99.3	70 - 114	19.99	0.638	20	
Ethylbenzene	20.95	1.0	20	0	105	70 - 124	20.97	0.076	20	
Methylene chloride	18.49	2.0	20	0	92.4	70 - 128	18.23	1.4	20	
Toluene	19.7	1.0	20	0	98.5	70 - 123	20.14	2.2	20	
Vinyl chloride	20.02	1.0	20	0	100	70 - 130	20.36	1.65	20	
Xylenes, Total	63.33	1.0	60	0	106	70 - 130	63.36	0.0517	20	
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>49.12</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>98.2</i>	<i>70 - 126</i>	<i>50.64</i>	<i>3.05</i>	<i>20</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>51.01</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>102</i>	<i>81 - 113</i>	<i>50.92</i>	<i>0.185</i>	<i>20</i>	
<i>Surr: Dibromofluoromethane</i>	<i>50.97</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>102</i>	<i>77 - 123</i>	<i>51.39</i>	<i>0.814</i>	<i>20</i>	
<i>Surr: Toluene-d8</i>	<i>50.85</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>102</i>	<i>82 - 127</i>	<i>50.45</i>	<i>0.781</i>	<i>20</i>	

The following samples were analyzed in this batch:

HS20070941-01	HS20070941-02	HS20070941-03	HS20070941-04
HS20070941-05	HS20070941-06	HS20070941-07	HS20070941-08
HS20070941-09	HS20070941-10	HS20070941-11	HS20070941-12
HS20070941-13	HS20070941-14	HS20070941-15	HS20070941-16
HS20070941-17	HS20070941-18	HS20070941-19	

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20070941

QC BATCH REPORT

Batch ID: R365554 (0)		Instrument: VOA2		Method: LOW LEVEL VOLATILES BY SW8260C						
MBLK	Sample ID: VBLKW-200723	Units: ug/L			Analysis Date: 23-Jul-2020 12:27					
Client ID:	Run ID: VOA2_365554	SeqNo: 5672051		PrepDate:			DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Toluene	U	1.0								
Surr: 1,2-Dichloroethane-d4	50.37	1.0	50	0	101	70 - 123				
Surr: 4-Bromofluorobenzene	49.67	1.0	50	0	99.3	82 - 115				
Surr: Dibromofluoromethane	50.9	1.0	50	0	102	73 - 126				
Surr: Toluene-d8	50.52	1.0	50	0	101	81 - 120				
LCS	Sample ID: VLCSW-200723	Units: ug/L			Analysis Date: 23-Jul-2020 11:39					
Client ID:	Run ID: VOA2_365554	SeqNo: 5672050		PrepDate:			DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Toluene	18.9	1.0	20	0	94.5	77 - 118				
Surr: 1,2-Dichloroethane-d4	51.03	1.0	50	0	102	70 - 130				
Surr: 4-Bromofluorobenzene	49.4	1.0	50	0	98.8	82 - 115				
Surr: Dibromofluoromethane	50.06	1.0	50	0	100	73 - 126				
Surr: Toluene-d8	50.16	1.0	50	0	100	81 - 120				
MS	Sample ID: HS20070945-26MS	Units: ug/L			Analysis Date: 23-Jul-2020 15:41					
Client ID:	Run ID: VOA2_365554	SeqNo: 5672059		PrepDate:			DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Toluene	18.33	1.0	20	0.3	90.1	70 - 123				
Surr: 1,2-Dichloroethane-d4	51.66	1.0	50	0	103	70 - 126				
Surr: 4-Bromofluorobenzene	49.34	1.0	50	0	98.7	81 - 113				
Surr: Dibromofluoromethane	50.41	1.0	50	0	101	77 - 123				
Surr: Toluene-d8	50.14	1.0	50	0	100	82 - 127				

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20070941

QC BATCH REPORT

Batch ID: R365554 (0) **Instrument:** VOA2 **Method:** LOW LEVEL VOLATILES BY SW8260C

MSD		Sample ID: HS20070945-26MSD			Units: ug/L		Analysis Date: 23-Jul-2020 16:06			
Client ID:		Run ID: VOA2_365554			SeqNo: 5672060		PrepDate:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Toluene	18.45	1.0	20	0.3	90.8	70 - 123	18.33	0.671	20	
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>51.75</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>104</i>	<i>70 - 126</i>	<i>51.66</i>	<i>0.18</i>	<i>20</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>50.09</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>100</i>	<i>81 - 113</i>	<i>49.34</i>	<i>1.52</i>	<i>20</i>	
<i>Surr: Dibromofluoromethane</i>	<i>50.42</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>101</i>	<i>77 - 123</i>	<i>50.41</i>	<i>0.0145</i>	<i>20</i>	
<i>Surr: Toluene-d8</i>	<i>49.93</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>99.9</i>	<i>82 - 127</i>	<i>50.14</i>	<i>0.424</i>	<i>20</i>	

The following samples were analyzed in this batch: HS20070941-15 HS20070941-17

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20070941

**QUALIFIERS,
ACRONYMS, UNITS**

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
mg/L	Milligrams per Liter

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	20-030-0	26-Mar-2021
California	2919, 2020-2021	30-Apr-2021
Dept of Defense	ANAB L2231 V009	22-Dec-2021
Florida	E87611-30-07/01/2020	30-Jun-2021
Illinois	2000322020-4	09-May-2021
Kentucky	123043, 2020-2021	30-Apr-2021
Louisiana	03087, 2020-2021	30-Jun-2021
Maryland	343, 2019-2020	30-Sep-2020
North Carolina	624-2020	31-Dec-2020
North Dakota	R-193 2020-2021	30-Apr-2021
Oklahoma	2019-141	31-Aug-2020
Texas	T104704231-20-26	30-Apr-2021

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
Work Order: HS20070941

SAMPLE TRACKING

Lab Samp ID	Client Sample ID	Action	Date	Person	New Location
HS20070941-01	WQ-1620-TB03-20200721	Login	7/21/2020 4:11:20 PM	JRM	VOA082
HS20070941-02	WG-1620-MW95A-20200720	Login	7/21/2020 4:11:20 PM	JRM	EXT084
HS20070941-02	WG-1620-MW95A-20200720	Login	7/21/2020 4:11:20 PM	JRM	MET087
HS20070941-02	WG-1620-MW95A-20200720	Login	7/21/2020 4:11:20 PM	JRM	VOA082
HS20070941-03	WG-1620-MW38A-20200720	Login	7/21/2020 4:11:20 PM	JRM	EXT084
HS20070941-03	WG-1620-MW38A-20200720	Login	7/21/2020 4:11:20 PM	JRM	MET087
HS20070941-03	WG-1620-MW38A-20200720	Login	7/21/2020 4:11:20 PM	JRM	VOA082
HS20070941-04	WG-1620-MW38B-20200720	Login	7/21/2020 4:11:20 PM	JRM	EXT084
HS20070941-04	WG-1620-MW38B-20200720	Login	7/21/2020 4:11:20 PM	JRM	MET087
HS20070941-04	WG-1620-MW38B-20200720	Login	7/21/2020 4:11:20 PM	JRM	VOA082
HS20070941-05	WG-1620-MW22AR-20200720	Login	7/21/2020 4:11:20 PM	JRM	EXT084
HS20070941-05	WG-1620-MW22AR-20200720	Login	7/21/2020 4:11:20 PM	JRM	MET087
HS20070941-05	WG-1620-MW22AR-20200720	Login	7/21/2020 4:11:20 PM	JRM	VOA082
HS20070941-06	WG-1620-MW22BR-20200720	Login	7/21/2020 4:11:20 PM	JRM	EXT084
HS20070941-06	WG-1620-MW22BR-20200720	Login	7/21/2020 4:11:20 PM	JRM	MET087
HS20070941-06	WG-1620-MW22BR-20200720	Login	7/21/2020 4:11:20 PM	JRM	VOA082
HS20070941-07	WG-1620-MW96B-20200720	Login	7/21/2020 4:11:20 PM	JRM	EXT084
HS20070941-07	WG-1620-MW96B-20200720	Login	7/21/2020 4:11:20 PM	JRM	MET087
HS20070941-07	WG-1620-MW96B-20200720	Login	7/21/2020 4:11:20 PM	JRM	VOA082
HS20070941-08	WG-1620-MW94A-20200720	Login	7/21/2020 4:11:20 PM	JRM	EXT084
HS20070941-08	WG-1620-MW94A-20200720	Login	7/21/2020 4:11:20 PM	JRM	MET087
HS20070941-08	WG-1620-MW94A-20200720	Login	7/21/2020 4:11:20 PM	JRM	VOA082
HS20070941-09	WG-1620-MW82B-20200720	Login	7/21/2020 4:11:20 PM	JRM	EXT084
HS20070941-09	WG-1620-MW82B-20200720	Login	7/21/2020 4:11:20 PM	JRM	MET087
HS20070941-09	WG-1620-MW82B-20200720	Login	7/21/2020 4:11:20 PM	JRM	VOA082
HS20070941-10	WG-1620-FB05-20200720	Login	7/21/2020 4:11:20 PM	JRM	EXT085
HS20070941-10	WG-1620-FB05-20200720	Login	7/21/2020 4:11:20 PM	JRM	MET087
HS20070941-10	WG-1620-FB05-20200720	Login	7/21/2020 4:11:20 PM	JRM	VOA082
HS20070941-11	WG-1620-MW80B-20200720	Login	7/21/2020 4:11:20 PM	JRM	EXT085
HS20070941-11	WG-1620-MW80B-20200720	Login	7/21/2020 4:11:20 PM	JRM	MET087
HS20070941-11	WG-1620-MW80B-20200720	Login	7/21/2020 4:11:20 PM	JRM	VOA082
HS20070941-12	WG-1620-MW77A-20200720	Login	7/21/2020 4:11:20 PM	JRM	EXT085
HS20070941-12	WG-1620-MW77A-20200720	Login	7/21/2020 4:11:20 PM	JRM	MET087
HS20070941-12	WG-1620-MW77A-20200720	Login	7/21/2020 4:11:20 PM	JRM	VOA082
HS20070941-13	WG-1620-MW76B-20200720	Login	7/21/2020 4:11:20 PM	JRM	EXT085
HS20070941-13	WG-1620-MW76B-20200720	Login	7/21/2020 4:11:20 PM	JRM	MET087
HS20070941-13	WG-1620-MW76B-20200720	Login	7/21/2020 4:11:20 PM	JRM	VOA082
HS20070941-14	WG-1620-MW76C-20200720	Login	7/21/2020 4:11:20 PM	JRM	EXT085
HS20070941-14	WG-1620-MW76C-20200720	Login	7/21/2020 4:11:20 PM	JRM	MET087

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
Work Order: HS20070941

SAMPLE TRACKING

HS20070941-14	WG-1620-MW76C-20200720	Login	7/21/2020 4:11:20 PM	JRM	VOA082
HS20070941-15	WG-1620-MW78A-20200720	Login	7/21/2020 4:11:20 PM	JRM	EXT085
HS20070941-15	WG-1620-MW78A-20200720	Login	7/21/2020 4:11:20 PM	JRM	MET087
HS20070941-15	WG-1620-MW78A-20200720	Login	7/21/2020 4:11:20 PM	JRM	VOA082
HS20070941-16	WG-1620-MW61A-20200720	Login	7/21/2020 4:11:20 PM	JRM	EXT085
HS20070941-16	WG-1620-MW61A-20200720	Login	7/21/2020 4:11:20 PM	JRM	MET087
HS20070941-16	WG-1620-MW61A-20200720	Login	7/21/2020 4:11:20 PM	JRM	VOA082
HS20070941-17	WG-1620-MW61B-20200720	Login	7/21/2020 4:11:20 PM	JRM	EXT085
HS20070941-17	WG-1620-MW61B-20200720	Login	7/21/2020 4:11:20 PM	JRM	MET087
HS20070941-17	WG-1620-MW61B-20200720	Login	7/21/2020 4:11:20 PM	JRM	VOA082
HS20070941-18	WG-1620-MW60AR-20200720	Login	7/21/2020 4:11:20 PM	JRM	EXT086
HS20070941-18	WG-1620-MW60AR-20200720	Login	7/21/2020 4:11:20 PM	JRM	MET087
HS20070941-18	WG-1620-MW60AR-20200720	Login	7/21/2020 4:11:20 PM	JRM	VOA082
HS20070941-19	WG-1620-MW60B-20200720	Login	7/21/2020 4:11:20 PM	JRM	EXT086
HS20070941-19	WG-1620-MW60B-20200720	Login	7/21/2020 4:11:20 PM	JRM	MET087
HS20070941-19	WG-1620-MW60B-20200720	Login	7/21/2020 4:11:20 PM	JRM	VOA082

Sample Receipt Checklist

Work Order ID: HS20070941

Date/Time Received: 21-Jul-2020 12:38

Client Name: PBW

Received by: Paresh M. Giga

Completed By: <u>/S/ Jared R. Makan</u>	21-Jul-2020 16:32	Reviewed by: <u>/S/ Dane J. Wacasey</u>	22-Jul-2020 12:06
eSignature	Date/Time	eSignature	Date/Time

Matrices: **Water**

Carrier name: **ALS Courier**

- | | | | |
|---|---|--|---|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| VOA/TX1005/TX1006 Solids in hermetically sealed vials? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | 3 Page(s) |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | COC IDs:227022, 227152, 227151 |
| Samplers name present on COC? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody agrees with sample labels? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Container/Temp Blank temperature in compliance? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |

Temperature(s)/Thermometer(s):	4.0°C, 3.3°C, 3.9°C, 4.3°C, 3.8°C Corrected temp	IR31
Cooler(s)/Kit(s):	25246, 24346, 45863, 43244, 45446	
Date/Time sample(s) sent to storage:	07/21/2020 16:35	

- | | | | |
|--|---|--|---|
| Water - VOA vials have zero headspace? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | No VOA vials submitted <input type="checkbox"/> |
| Water - pH acceptable upon receipt? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> |
| pH adjusted? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | N/A <input type="checkbox"/> |

pH adjusted by:

Login Notes: MW22BR collection time on SVOC bottles differs: COC = 13:00, bottles = 12:15. Sample logged in per COC.

Client Contacted: _____ Date Contacted: _____ Person Contacted: _____
 Contacted By: _____ Regarding: _____

Comments:

Corrective Action:



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Chain of Custody Form

Page 1 of 3

COC ID: 227022

HS20070941

Golder Associates Inc.
Houston TX-Wood Preserving Works



ALS Project Manager:

Customer Information		Project Information														
Purchase Order	UPRR/Kevin Peterburs	Project Name	Houston TX-Wood Preserving Works	A	8260_LL_W (5632528 Volatile Organics Site Specific)											
Work Order		Project Number	1620-07-Rev0 SR 92688	B	8260_LL_W (5632528 VOC Site Specific + V.C.)											
Company Name	Golder Associates	Bill To Company	Union Pacific Railroad- A/P	C	8270_LOW_W (5632532 Semi/Volatiles Site specific)											
Send Report To	Eric Matzner	Invoice Attn	Accounts Payable	D	ICP_TW (5636002 5652646 Metals - As)											
Address	2201 Double Creek Drive	Address	1400 Douglas Street	E												
	Suite 4004		Stop 0750	F												
City/State/Zip	Round Rock, TX 78664	City/State/Zip	Omaha NE 681790750	G												
Phone	(512) 671-3434	Phone		H												
Fax	(512) 671-3446	Fax		I												
e-Mail Address	eric.matzner@pbwllc.com	e-Mail Address		J												

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	WQ-1620-TB0 <u>03-20200721</u>	7-21-20		Water	1	2	X	X									
2	WG-1620-MW <u>95A20200720</u>	7-20-20	9:15	Groundwa	1,2,8	6	X		X	X							
3	WG-1620-MW <u>38A20200720</u>	7-20-20	10:20	W	1,2,8	6	X		X	X							
4	WG-1620-MW <u>38B20200720</u>	7-20-20	11:20	W	1,2,8	6	X		X	X							
5	WG-1620-MW <u>22AR20200720</u>	7-20-20	12:15	W	1,2,8	6	X		X	X							
6	WG-1620-MW <u>22BR20200720</u>	7-20-20	13:00	W	1,2,8	6	X		X	X							
7	WG-1620-MW <u>96B20200720</u>	7-20-20	13:55	W	1,2,8	6	X		X	X							
8	WG-1620-MW <u>94A20200720</u>	7-20-20	14:45	W	1,2,8	6	X		X	X							
9	WG-1620-MW <u>82B20200720</u>	7-20-20	15:35	W	1,2,8	6	X		X	X							
10	WG-1620-FB <u>0520200720</u>	7-20-20	16:00	W	1,2,8	6	X	X	X	X							

Sampler(s) Please Print & Sign <i>Tim McGadden</i>		Shipment Method HAND DELIVERED		Required Turnaround Time: (Check Box) <input checked="" type="checkbox"/> STD 10 Wk Days <input type="checkbox"/> 5 Wk Days <input type="checkbox"/> 2 Wk Days <input type="checkbox"/> 24 Hour				Results Due Date:			
Relinquished by: <i>Tim McGadden</i>	Date: 7-21-20	Time: 12:38	Received by: <i>[Signature]</i>	Notes: UPRR Houston MWPW							
Relinquished by: <i>[Signature]</i>	Date:	Time:	Received by (Laboratory): <i>[Signature]</i>	Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)					
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	25246	4.00	<input type="checkbox"/> Level II Std QC	<input checked="" type="checkbox"/> TRRP Checklist				
				24346	3.30	<input type="checkbox"/> Level III Std CO/Raw Data	<input type="checkbox"/> TRRP Level IV				
				45863	3.90	<input type="checkbox"/> Level IV SW-8/CLP	<input type="checkbox"/> Other				
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035				43244	4.30						
				45446	3.20						

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
 2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
 3. The Chain of Custody is a legal document. All information must be completed accurately.

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Chain of Custody Form

Page 2 of 3

COC ID: 227152

HS20070941

Golder Associates Inc.
Houston TX-Wood Preserving Works



ALS Project Manager:

Customer Information		Project Information													
Purchase Order	UPRR/Kevin Peterburs	Project Name	Houston TX-Wood Preserving Works	A	8260_LL_W (5632528 Volatile Organics Site Specific)										
Work Order		Project Number	1620-07-Rev0 SR 92688	B	8260_LL_W (5632528 VOC Site Specific + V.C.)										
Company Name	Golder Associates	Bill To Company	Union Pacific Railroad- A/P	C	8270_LOW_W (5632532 SemiVolatiles Site specific)										
Send Report To	Eric Matzner	Invoice Attn	Accounts Payable	D	ICP_TW (5636002 5652646 Metals - As)										
Address	2201 Double Creek Drive	Address	1400 Douglas Street	E											
	Suite 4004		Stop 0750	F											
City/State/Zip	Round Rock, TX 78664	City/State/Zip	Omaha NE 681790750	G											
Phone	(512) 671-3434	Phone		H											
Fax	(512) 671-3446	Fax		I											
e-Mail Address	eric.matzner@pbwllc.com	e-Mail Address		J											

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	WG-1620-TBO-202007			Water	1	2		X									
2	WG-1620-MW80B-20200720	7-20-20	0805	Groundwa	1,2,8	8	X		X	X							
3	WG-1620-MW77A-20200720	7-20-20	0900	GW		6	X		X	X							
4	WG-1620-MW76B-20200720	7-20-20	0950	GW		6	X		X	X							
5	WG-1620-MW76C-20200720	7-20-20	1035	GW		6	X		X	X							
6	WG-1620-MW78A-20200720	7-20-20	1125	GW		6	X		X	X							
7	WG-1620-MW61A-20200720	7-20-20	1230	GW		6		X	X	X							
8	WG-1620-MW61B-20200720	7-20-20	1355	GW		6	X		X	X							
9	WG-1620-MW60AR-20200720	7-20-20	1450	GW		6	X		X	X							
10	WG-1620-MW60B-20200720	7-20-20	1535	GW		6	X		X	X							

Sampler(s) Please Print & Sign JOHN BRAYTON, John B		Shipment Method HAND DELIVERED		Required Turnaround Time: (Check Box) <input checked="" type="checkbox"/> STD 10 Wk Days <input type="checkbox"/> 5 Wk Days <input type="checkbox"/> 2 Wk Days <input type="checkbox"/> 24 Hour				Results Due Date:			
Relinquished by: John B		Date: 7-21-20	Time: 12:38	Received by: [Signature]		Notes: UPRR Houston MWPW					
Relinquished by:		Date:	Time:	Received by (Laboratory): 7/21/20 12:38		Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)			
Logged by (Laboratory):		Date:	Time:	Checked by (Laboratory):		<input type="checkbox"/> Level II Std OC	<input checked="" type="checkbox"/> TRRP Checklist				
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035						<input type="checkbox"/> Level III Std QC/Psw Date	<input type="checkbox"/> TRRP Level IV				
						<input type="checkbox"/> Level IV SWB48/CLP					
						<input type="checkbox"/> Other					

- Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
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Chain of Custody Form

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COC ID: 227151

HS20070941

Golder Associates Inc.
Houston TX-Wood Preserving Works



ALS Project Manager:

Customer Information		Project Information		ALS Project Manager:											
Purchase Order	UPRR/Kevin Peterburs	Project Name	Houston TX-Wood Preserving Works	A	8260_LL_W (5632528 Volatile Organics Site Specific)										
Work Order		Project Number	1620-07-Rev0 SR 92688	B	8260_LL_W (5632528 VOC Site Specific + V.C.)										
Company Name	Golder Associates	Bill To Company	Union Pacific Railroad- A/P	C	8270_LOW_W (5632532 SemiVolatiles Site specific)										
Send Report To	Eric Matzner	Invoice Attn	Accounts Payable	D	ICP_TW (5636002 5652646 Metals - As)										
Address	2201 Double Creek Drive	Address	1400 Douglas Street	E											
	Suite 4004		Stop 0750	F											
City/State/Zip	Round Rock, TX 78664	City/State/Zip	Omaha NE 681790750	G											
Phone	(512) 671-3434	Phone		H											
Fax	(512) 671-3446	Fax		I											
e-Mail Address	eric.matzner@pbwllc.com	e-Mail Address		J											

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	WG-1620-TBO-202007			Water	1	2		X									
2	WG-1620-MW61AMS-20200720	7-20-20	1230	Groundwa	1,2,8	6		X	X	X							
3	WG-1620-MW61AMS-D-20200720	7-20-20	1230			6		X	X	X							
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign <i>John Brayton</i>		Shipment Method HAND DELIVERED		Required Turnaround Time: (Check Box) <input checked="" type="checkbox"/> STD 10 Wk Days <input type="checkbox"/> 5 Wk Days <input type="checkbox"/> 2 Wk Days <input type="checkbox"/> 24 Hour			Results Due Date:	
Relinquished by: <i>John Brayton</i>		Date: 7-21-20	Time: 12:38	Received by: <i>[Signature]</i>		Notes: UPRR Houston MWPW		
Relinquished by:		Date:	Time:	Received by (Laboratory): <i>[Signature]</i>		QC Package: (Check One Box Below)		
Logged by (Laboratory):		Date:	Time:	Checked by (Laboratory): <i>[Signature]</i>		<input type="checkbox"/> Level II Std CC	<input checked="" type="checkbox"/> TRRP Checklist	
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035						<input type="checkbox"/> Level III Std CC/Raw Date	<input type="checkbox"/> TRRP Level IV	
						<input type="checkbox"/> Level IV SW648/CLP		
						<input type="checkbox"/> Other		

- ote: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
 2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
 3. The Chain of Custody is a legal document. All information must be completed accurately.

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August 03, 2020

Eric Matzner
Golder Associates Inc.
2201 Double Creek Drive
Suite 4004
Round Rock, TX 78664

Work Order: **HS20071089**

Laboratory Results for: **Houston TX-Wood Preserving Works**

Dear Eric Matzner,

ALS Environmental received 24 sample(s) on Jul 23, 2020 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: JUMOKE.LAWAL
Dane J. Wacasey

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071089

**TRRP Laboratory Data
Package Cover Page**

This data package consists of all or some of the following as applicable:

This signature page, the laboratory review checklist, and the following reportable data:

- R1 Field chain-of-custody documentation;
- R2 Sample identification cross-reference;
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
 - a) Items consistent with NELAC Chapter 5,
 - b) dilution factors,
 - c) preparation methods,
 - d) cleanup methods, and
 - e) if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate recovery data including:
 - a) Calculated recovery (%R), and
 - b) The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
 - a) LCS spiking amounts,
 - b) Calculated %R for each analyte, and
 - c) The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a) Samples associated with the MS/MSD clearly identified,
 - b) MS/MSD spiking amounts,
 - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d) Calculated %Rs and relative percent differences (RPDs), and
 - e) The laboratory's MS/MSD QC limits.
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
 - a) the amount of analyte measured in the duplicate,
 - b) the calculated RPD, and
 - c) the laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.
- R10 Other problems or anomalies.
The Exception Report for each "No" or "Not Reviewed (NR)" item in Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071089

**TRRP Laboratory Data
Package Cover Page**

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory have been identified by the laboratory in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Check, if applicable: [NA] This laboratory meets an exception under 30 TAC §25.6 and was last inspected by TCEQ or _____ on (enter date of last inspection). Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.



Dane J. Wacasey

Laboratory Review Checklist: Reportable Data							
Laboratory Name: ALS Laboratory Group				LRC Date: 08/03/2020			
Project Name: Houston TX-Wood Preserving Works				Laboratory Job Number: HS20071089			
Reviewer Name: Dane Wacasey				Prep Batch Number: 155764,155783,155784,155816,155835,R365688,R365691,R365748			
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER ⁵
R1	OI	Chain-of-custody (C-O-C)					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?	X				
R2	OI	Sample and quality control (QC) identification					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	Test reports					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?			X		
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW-846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	Surrogate recovery data					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?		X			1
R5	OI	Test reports/summary forms for blank samples					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	Laboratory control samples (LCS):					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?		X			2
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			3
		Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	Analytical duplicate data					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	Method quantitation limits (MQLs):					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	Other problems/anomalies					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Were all necessary corrective actions performed for the reported data?	X				
		Was applicable and available technology used to lower the SDL and minimize the matrix interference affects on the sample results?	X				5
		Is the laboratory NELAC-accredited under the Texas Laboratory Program for the analytes, matrices and methods associated with this laboratory data package?	X				

Laboratory Review Checklist: Supporting Data							
Laboratory Name: ALS Laboratory Group				LRC Date: 08/03/2020			
Project Name: Houston TX-Wood Preserving Works				Laboratory Job Number: HS20071089			
Reviewer Name: Dane Wacasey				Prep Batch Number: 155764,155783,155784,155816,155835,R365688,R365691,R365748			
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S1	OI	Initial calibration (ICAL)					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB)					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?		X			5
S3	O	Mass spectral tuning:					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	Internal standards (IS):					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	Raw data (NELAC section 1 appendix A glossary, and section 5.12 or ISO/IEC 17025 section					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	Dual column confirmation					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	Tentatively identified compounds (TICs):					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	Interference Check Sample (ICS) results:					
		Were percent recoveries within method QC limits?	X				
S9	I	Serial dilutions, post digestion spikes, and method of standard additions					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	X				
S10	OI	Method detection limit (MDL) studies					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	Proficiency test reports:					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards documentation					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/analyte identification procedures					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of analyst competency (DOC)					
		Was DOC conducted consistent with NELAC Chapter 5C or ISO/IEC 4?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/validation documentation for methods (NELAC Chap 5 or ISO/IEC 17025 Section 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory standard operating procedures (SOPs):					
		Are laboratory SOPs current and on file for each method performed?	X				

Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

O = Organic Analyses; I = Inorganic Analyses (and general chemistry, when applicable);

NA = Not Applicable;

NR = Not Reviewed;

R# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Exception Reports

Laboratory Name: ALS Laboratory Group		LRC Date: 08/03/2020
Project Name: Houston TX-Wood Preserving Works		Laboratory Job Number: HS20071089
Reviewer Name: Dane Wacasey		Prep Batch Number: 155764,155783,155784,155816,155835,R365688,R365691,R365748
ER# ⁵	Description	
1	Semivolatile Organics Method SW8270, .samples WG-1620-MW49B-20200721, WG-1620-MW74B-20200721, WG-1620-MW79A-20200721, WG-1620-MW75B-20200721, WG-1620-DUP02-20200722, WG-1620-MW25C-20200722, WG-1620-MW35B-20200722: surrogate recoveries could not be determined due to dilution below the calibration range.	
2	Batch 155784, Semivolatile Organics Method SW8270, LCS/LCSD were analyzed and reported in lieu of an MS/MSD for this batch.	
3	Batch 155783, Semivolatile Organics Method SW8270, sample WG-1620-MW67B-20200722, MS and MSD recovered outside the control limit for Benzo(a)pyrene due to suspect matrix effect.	
4	Batch 155783, Semivolatile Organics Method SW8270, samples WG-1620-MW49B-20200721, WG-1620-MW74B-20200721, WG-1620-MW75B-20200721, WG-1620-MW25C-20200722; The GCMS semi-volatile extract of the samples were run at a dilution due to a high level of matrix interference.	
5	See Run Log and CCB Exceptions Report.	
<p>Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period. O = Organic Analyses; I = Inorganic Analyses (and general chemistry, when applicable); NA = Not Applicable; NR = Not Reviewed; R# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).</p>		

FORM 13 - ANALYSIS RUN LOG

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071089
Start Date: 28-Jul-2020 **End Date:** 29-Jul-2020

Run ID: ICPMS06_365755
Instrument: ICPMS06
Method: SW6020

Sample No.	D/F	Time	FileID	Analytes
LLICCV2	1	28-Jul-2020 22:59	242LCV2.d	AS
LLICCV5	1	28-Jul-2020 23:01	243LCV5.d	AS
ICCB 20	1	28-Jul-2020 23:03	244_ICB.d	AS
CCV 21	1	28-Jul-2020 23:15	250_CCV.d	AS
CCB 21	1	28-Jul-2020 23:16	251_CCB.d	AS
CCV 22	1	28-Jul-2020 23:28	257_CCV.d	AS
CCB 22	1	28-Jul-2020 23:30	258_CCB.d	AS
CCV 23	1	28-Jul-2020 23:43	265_CCV.d	AS
CCB 23	1	28-Jul-2020 23:45	266_CCB.d	AS
MBLK-155835	1	28-Jul-2020 23:47	267SMPL.d	AS
LCS-155835	1	28-Jul-2020 23:49	268SMPL.d	AS
WG-1620-MW67B-20200722	1	28-Jul-2020 23:51	269SMPL.d	AS
WG-1620-MW67B-20200722SD	5	28-Jul-2020 23:53	270SMPL.d	AS
WG-1620-MW67B-20200722MS	1	28-Jul-2020 23:55	271SMPL.d	AS
WG-1620-MW67B-20200722MSD	1	28-Jul-2020 23:57	272SMPL.d	AS
CCV 24	1	29-Jul-2020 00:01	274_CCV.d	AS
CCB 24	1	29-Jul-2020 00:02	275_CCB.d	AS
WG-1620-MW50A-20200720	1	29-Jul-2020 00:04	276SMPL.d	AS
WG-1620-MW81B-20200720	1	29-Jul-2020 00:06	277SMPL.d	AS
WG-1620-MW75B-20200721	1	29-Jul-2020 00:14	281SMPL.d	AS
WG-1620-MW47A-20200721	1	29-Jul-2020 00:16	282SMPL.d	AS
WG-1620-MW59B-20200721	1	29-Jul-2020 00:18	283SMPL.d	AS
WG-1620-MW59A-20200721	1	29-Jul-2020 00:20	284SMPL.d	AS
WG-1620-MW69A-20200721	1	29-Jul-2020 00:22	285SMPL.d	AS
CCV 25	1	29-Jul-2020 00:24	286_CCV.d	AS
CCB 25	1	29-Jul-2020 00:26	287_CCB.d	AS
WG-1620-MW83C-20200722	1	29-Jul-2020 00:28	288SMPL.d	AS
WG-1620-MW83B-20200722	1	29-Jul-2020 00:29	289SMPL.d	AS
WG-1620-DUP02-20200722	1	29-Jul-2020 00:31	290SMPL.d	AS
WG-1620-MW25A-20200722	1	29-Jul-2020 00:33	291SMPL.d	AS
WG-1620-MW25C-20200722	1	29-Jul-2020 00:35	292SMPL.d	AS
WG-1620-MW93B-20200722	1	29-Jul-2020 00:37	293SMPL.d	AS
WG-1620-MW90B-20200722	1	29-Jul-2020 00:39	294SMPL.d	AS
WG-1620-MW92B-20200722	1	29-Jul-2020 00:41	295SMPL.d	AS
WG-1620-MW89B-20200722	1	29-Jul-2020 00:43	296SMPL.d	AS
CCV 26	1	29-Jul-2020 00:47	298_CCV.d	AS
CCB 26	1	29-Jul-2020 00:49	299_CCB.d	AS
CCV 27	1	29-Jul-2020 00:55	302_CCV.d	AS
CCB 27	1	29-Jul-2020 00:56	303_CCB.d	AS
LLCCV2	1	29-Jul-2020 01:00	305LCV2.d	AS
LLCCV5	1	29-Jul-2020 01:02	306LCV5.d	AS
ICSA	1	29-Jul-2020 01:04	307ICSA.d	AS
ICSAB	1	29-Jul-2020 01:06	308ICSB.d	AS

CCB EXCEPTIONS REPORT

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071089

Run ID:ICPMS06_365755
Instrument:ICPMS06
Method:SW6020

CCB 12	Date: 28-Jul-2020 17:19	Seq: 5677548	D/F: 1	Units: ug/L
	Analyte	Result	MDL	Report Limit
	Arsenic	0.413	0.4	2
CCB 14	Date: 28-Jul-2020 20:45	Seq: 5677581	D/F: 1	Units: ug/L
	Analyte	Result	MDL	Report Limit
	Arsenic	0.635	0.4	2
CCB 16	Date: 28-Jul-2020 21:25	Seq: 5677600	D/F: 1	Units: ug/L
	Analyte	Result	MDL	Report Limit
	Arsenic	0.481	0.4	2
CCB 23	Date: 28-Jul-2020 23:45	Seq: 5678003	D/F: 1	Units: ug/L
	Analyte	Result	MDL	Report Limit
	Arsenic	-0.5	0.4	2
CCB 24	Date: 29-Jul-2020 00:02	Seq: 5678037	D/F: 1	Units: ug/L
	Analyte	Result	MDL	Report Limit
	Arsenic	-0.503	0.4	2
CCB 25	Date: 29-Jul-2020 00:26	Seq: 5678049	D/F: 1	Units: ug/L
	Analyte	Result	MDL	Report Limit
	Arsenic	-0.438	0.4	2
CCB 26	Date: 29-Jul-2020 00:49	Seq: 5678061	D/F: 1	Units: ug/L
	Analyte	Result	MDL	Report Limit
	Arsenic	-0.494	0.4	2
CCB 27	Date: 29-Jul-2020 00:56	Seq: 5678065	D/F: 1	Units: ug/L
	Analyte	Result	MDL	Report Limit
	Arsenic	-0.489	0.4	2

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
Work Order: HS20071089

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS20071089-01	WQ-1620-TB04-20200722	Water	CG 061220 -213	20-Jul-2020 00:00	23-Jul-2020 11:30	<input type="checkbox"/>
HS20071089-02	WG-1620-MW50A-20200720	Groundwater		20-Jul-2020 16:35	23-Jul-2020 11:30	<input type="checkbox"/>
HS20071089-03	WG-1620-MW81B-20200720	Groundwater		20-Jul-2020 17:25	23-Jul-2020 11:30	<input type="checkbox"/>
HS20071089-04	WG-1620-MW49B-20200721	Groundwater		21-Jul-2020 11:55	23-Jul-2020 11:30	<input type="checkbox"/>
HS20071089-05	WG-1620-MW74B-20200721	Groundwater		21-Jul-2020 12:50	23-Jul-2020 11:30	<input type="checkbox"/>
HS20071089-06	WG-1620-MW79A-20200721	Groundwater		21-Jul-2020 13:45	23-Jul-2020 11:30	<input type="checkbox"/>
HS20071089-07	WG-1620-MW75B-20200721	Groundwater		21-Jul-2020 14:30	23-Jul-2020 11:30	<input type="checkbox"/>
HS20071089-08	WG-1620-MW47A-20200721	Groundwater		21-Jul-2020 15:30	23-Jul-2020 11:30	<input type="checkbox"/>
HS20071089-09	WG-1620-MW59B-20200721	Groundwater		21-Jul-2020 16:25	23-Jul-2020 11:30	<input type="checkbox"/>
HS20071089-10	WG-1620-MW59A-20200721	Groundwater		21-Jul-2020 17:10	23-Jul-2020 11:30	<input type="checkbox"/>
HS20071089-11	WG-1620-MW69A-20200721	Groundwater		21-Jul-2020 18:15	23-Jul-2020 11:30	<input type="checkbox"/>
HS20071089-12	WG-1620-MW83C-20200722	Groundwater		22-Jul-2020 07:35	23-Jul-2020 11:30	<input type="checkbox"/>
HS20071089-13	WG-1620-MW83B-20200722	Groundwater		22-Jul-2020 08:25	23-Jul-2020 11:30	<input type="checkbox"/>
HS20071089-14	WG-1620-DUP02-20200722	Groundwater		22-Jul-2020 08:25	23-Jul-2020 11:30	<input type="checkbox"/>
HS20071089-15	WG-1620-MW25A-20200722	Groundwater		22-Jul-2020 09:20	23-Jul-2020 11:30	<input type="checkbox"/>
HS20071089-16	WG-1620-MW25C-20200722	Groundwater		22-Jul-2020 10:10	23-Jul-2020 11:30	<input type="checkbox"/>
HS20071089-17	WG-1620-MW93B-20200722	Groundwater		22-Jul-2020 08:45	23-Jul-2020 11:30	<input type="checkbox"/>
HS20071089-18	WG-1620-MW90B-20200722	Groundwater		22-Jul-2020 09:45	23-Jul-2020 11:30	<input type="checkbox"/>
HS20071089-19	WG-1620-MW92B-20200722	Groundwater		22-Jul-2020 10:35	23-Jul-2020 11:30	<input type="checkbox"/>
HS20071089-20	WG-1620-MW89B-20200722	Groundwater		22-Jul-2020 11:25	23-Jul-2020 11:30	<input type="checkbox"/>
HS20071089-21	WG-1620-MW67B-20200722	Groundwater		22-Jul-2020 12:30	23-Jul-2020 11:30	<input type="checkbox"/>
HS20071089-22	WG-1620-MW35A-20200722	Groundwater		22-Jul-2020 14:05	23-Jul-2020 11:30	<input type="checkbox"/>
HS20071089-23	WG-1620-MW35B-20200722	Groundwater		22-Jul-2020 15:10	23-Jul-2020 11:30	<input type="checkbox"/>
HS20071089-24	WG-1620-FB06-20200722	Water		22-Jul-2020 16:00	23-Jul-2020 11:30	<input type="checkbox"/>

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WQ-1620-TB04-20200722
 Collection Date: 20-Jul-2020 00:00

ANALYTICAL REPORT
 WorkOrder:HS20071089
 Lab ID:HS20071089-01
 Matrix:Water

ANALYSES	RESULT	QUAL	SDL	MLL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	25-Jul-2020 01:11
Benzene	U		0.00020	0.0010	mg/L	1	25-Jul-2020 01:11
Chlorobenzene	U		0.00030	0.0010	mg/L	1	25-Jul-2020 01:11
Ethylbenzene	U		0.00030	0.0010	mg/L	1	25-Jul-2020 01:11
Methylene chloride	U		0.0010	0.0020	mg/L	1	25-Jul-2020 01:11
Toluene	U		0.00020	0.0010	mg/L	1	25-Jul-2020 01:11
Vinyl chloride	U		0.00020	0.0010	mg/L	1	25-Jul-2020 01:11
Xylenes, Total	U		0.00030	0.0010	mg/L	1	25-Jul-2020 01:11
<i>Surr: 1,2-Dichloroethane-d4</i>		<i>97.0</i>		<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 01:11</i>
<i>Surr: 4-Bromofluorobenzene</i>		<i>98.1</i>		<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 01:11</i>
<i>Surr: Dibromofluoromethane</i>		<i>101</i>		<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 01:11</i>
<i>Surr: Toluene-d8</i>		<i>102</i>		<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 01:11</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW50A-20200720
 Collection Date: 20-Jul-2020 16:35

ANALYTICAL REPORT
 WorkOrder:HS20071089
 Lab ID:HS20071089-02
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	24-Jul-2020 20:46
Benzene	U		0.00020	0.0010	mg/L	1	24-Jul-2020 20:46
Chlorobenzene	U		0.00030	0.0010	mg/L	1	24-Jul-2020 20:46
Ethylbenzene	U		0.00030	0.0010	mg/L	1	24-Jul-2020 20:46
Methylene chloride	U		0.0010	0.0020	mg/L	1	24-Jul-2020 20:46
Toluene	U		0.00020	0.0010	mg/L	1	24-Jul-2020 20:46
Xylenes, Total	U		0.00030	0.0010	mg/L	1	24-Jul-2020 20:46
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>98.4</i>			<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>24-Jul-2020 20:46</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>99.2</i>			<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>24-Jul-2020 20:46</i>
<i>Surr: Dibromofluoromethane</i>	<i>101</i>			<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>24-Jul-2020 20:46</i>
<i>Surr: Toluene-d8</i>	<i>102</i>			<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>24-Jul-2020 20:46</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW50A-20200720
 Collection Date: 20-Jul-2020 16:35

ANALYTICAL REPORT
 WorkOrder:HS20071089
 Lab ID:HS20071089-02
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 24-Jul-2020		Analyst: GEY	
1,2-Diphenylhydrazine	U		0.000021	0.00020	mg/L	1	31-Jul-2020 02:27
2,4-Dimethylphenol	U		0.000040	0.00020	mg/L	1	31-Jul-2020 02:27
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	31-Jul-2020 02:27
2,6-Dinitrotoluene	U		0.000042	0.00020	mg/L	1	31-Jul-2020 02:27
2-Chloronaphthalene	U		0.000021	0.00020	mg/L	1	31-Jul-2020 02:27
2-Methylnaphthalene	U		0.000019	0.00010	mg/L	1	31-Jul-2020 02:27
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	31-Jul-2020 02:27
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	31-Jul-2020 02:27
Acenaphthene	U		0.000027	0.00010	mg/L	1	31-Jul-2020 02:27
Acenaphthylene	U		0.000015	0.00010	mg/L	1	31-Jul-2020 02:27
Anthracene	U		0.000014	0.00010	mg/L	1	31-Jul-2020 02:27
Benz(a)anthracene	U		0.000050	0.00010	mg/L	1	31-Jul-2020 02:27
Benzo(a)pyrene	U		0.000020	0.00010	mg/L	1	31-Jul-2020 02:27
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	31-Jul-2020 02:27
Bis(2-ethylhexyl)phthalate	U		0.000037	0.00020	mg/L	1	31-Jul-2020 02:27
Chrysene	U		0.000021	0.00010	mg/L	1	31-Jul-2020 02:27
Dibenzofuran	U		0.000020	0.00010	mg/L	1	31-Jul-2020 02:27
Di-n-butyl phthalate	U		0.000020	0.00020	mg/L	1	31-Jul-2020 02:27
Fluoranthene	U		0.000010	0.00010	mg/L	1	31-Jul-2020 02:27
Fluorene	U		0.000030	0.00010	mg/L	1	31-Jul-2020 02:27
Naphthalene	0.00014		0.000020	0.00010	mg/L	1	31-Jul-2020 02:27
Nitrobenzene	U		0.000024	0.00020	mg/L	1	31-Jul-2020 02:27
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	31-Jul-2020 02:27
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	31-Jul-2020 02:27
Phenanthrene	0.000081	J	0.000021	0.00010	mg/L	1	31-Jul-2020 02:27
Phenol	U		0.000035	0.00020	mg/L	1	31-Jul-2020 02:27
Pyrene	U		0.000019	0.00010	mg/L	1	31-Jul-2020 02:27
<i>Surr: 2,4,6-Tribromophenol</i>	<i>95.1</i>			<i>34-129</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 02:27</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>68.4</i>			<i>40-125</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 02:27</i>
<i>Surr: 2-Fluorophenol</i>	<i>78.9</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 02:27</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>96.0</i>			<i>40-135</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 02:27</i>
<i>Surr: Nitrobenzene-d5</i>	<i>79.3</i>			<i>41-120</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 02:27</i>
<i>Surr: Phenol-d6</i>	<i>89.5</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 02:27</i>
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 28-Jul-2020		Analyst: JHD	
Arsenic	U		0.000400	0.00200	mg/L	1	29-Jul-2020 00:04

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW81B-20200720
 Collection Date: 20-Jul-2020 17:25

ANALYTICAL REPORT
 WorkOrder:HS20071089
 Lab ID:HS20071089-03
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	24-Jul-2020 21:11
Benzene	U		0.00020	0.0010	mg/L	1	24-Jul-2020 21:11
Chlorobenzene	U		0.00030	0.0010	mg/L	1	24-Jul-2020 21:11
Ethylbenzene	U		0.00030	0.0010	mg/L	1	24-Jul-2020 21:11
Methylene chloride	U		0.0010	0.0020	mg/L	1	24-Jul-2020 21:11
Toluene	U		0.00020	0.0010	mg/L	1	24-Jul-2020 21:11
Xylenes, Total	U		0.00030	0.0010	mg/L	1	24-Jul-2020 21:11
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>98.0</i>			<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>24-Jul-2020 21:11</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>99.0</i>			<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>24-Jul-2020 21:11</i>
<i>Surr: Dibromofluoromethane</i>	<i>101</i>			<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>24-Jul-2020 21:11</i>
<i>Surr: Toluene-d8</i>	<i>101</i>			<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>24-Jul-2020 21:11</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW81B-20200720
 Collection Date: 20-Jul-2020 17:25

ANALYTICAL REPORT
 WorkOrder:HS20071089
 Lab ID:HS20071089-03
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 24-Jul-2020		Analyst: GEY	
1,2-Diphenylhydrazine		U	0.000021	0.00020	mg/L	1	31-Jul-2020 02:46
2,4-Dimethylphenol	0.00063		0.000040	0.00020	mg/L	1	31-Jul-2020 02:46
2,4-Dinitrotoluene		U	0.000058	0.00020	mg/L	1	31-Jul-2020 02:46
2,6-Dinitrotoluene		U	0.000042	0.00020	mg/L	1	31-Jul-2020 02:46
2-Chloronaphthalene		U	0.000021	0.00020	mg/L	1	31-Jul-2020 02:46
2-Methylnaphthalene	0.000065	J	0.000019	0.00010	mg/L	1	31-Jul-2020 02:46
4,6-Dinitro-2-methylphenol		U	0.000020	0.00020	mg/L	1	31-Jul-2020 02:46
4-Nitrophenol		U	0.000047	0.0010	mg/L	1	31-Jul-2020 02:46
Acenaphthene		U	0.000027	0.00010	mg/L	1	31-Jul-2020 02:46
Acenaphthylene		U	0.000015	0.00010	mg/L	1	31-Jul-2020 02:46
Anthracene		U	0.000014	0.00010	mg/L	1	31-Jul-2020 02:46
Benz(a)anthracene		U	0.000050	0.00010	mg/L	1	31-Jul-2020 02:46
Benzo(a)pyrene		U	0.000020	0.00010	mg/L	1	31-Jul-2020 02:46
Bis(2-chloroethoxy)methane		U	0.000030	0.00020	mg/L	1	31-Jul-2020 02:46
Bis(2-ethylhexyl)phthalate		U	0.000037	0.00020	mg/L	1	31-Jul-2020 02:46
Chrysene		U	0.000021	0.00010	mg/L	1	31-Jul-2020 02:46
Dibenzofuran		U	0.000020	0.00010	mg/L	1	31-Jul-2020 02:46
Di-n-butyl phthalate		U	0.000020	0.00020	mg/L	1	31-Jul-2020 02:46
Fluoranthene		U	0.000010	0.00010	mg/L	1	31-Jul-2020 02:46
Fluorene		U	0.000030	0.00010	mg/L	1	31-Jul-2020 02:46
Naphthalene	0.00097		0.000020	0.00010	mg/L	1	31-Jul-2020 02:46
Nitrobenzene		U	0.000024	0.00020	mg/L	1	31-Jul-2020 02:46
N-Nitrosodiphenylamine		U	0.000025	0.00020	mg/L	1	31-Jul-2020 02:46
Pentachlorophenol		U	0.000079	0.00020	mg/L	1	31-Jul-2020 02:46
Phenanthrene	0.000061	J	0.000021	0.00010	mg/L	1	31-Jul-2020 02:46
Phenol	0.00016	J	0.000035	0.00020	mg/L	1	31-Jul-2020 02:46
Pyrene		U	0.000019	0.00010	mg/L	1	31-Jul-2020 02:46
<i>Surr: 2,4,6-Tribromophenol</i>	<i>51.5</i>			<i>34-129</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 02:46</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>51.1</i>			<i>40-125</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 02:46</i>
<i>Surr: 2-Fluorophenol</i>	<i>61.1</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 02:46</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>70.9</i>			<i>40-135</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 02:46</i>
<i>Surr: Nitrobenzene-d5</i>	<i>63.8</i>			<i>41-120</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 02:46</i>
<i>Surr: Phenol-d6</i>	<i>72.6</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 02:46</i>
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 28-Jul-2020		Analyst: JHD	
Arsenic	0.00244		0.000400	0.00200	mg/L	1	29-Jul-2020 00:06

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW49B-20200721
 Collection Date: 21-Jul-2020 11:55

ANALYTICAL REPORT
 WorkOrder:HS20071089
 Lab ID:HS20071089-04
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	24-Jul-2020 21:35
Benzene	0.50		0.0020	0.010	mg/L	10	27-Jul-2020 23:48
Chlorobenzene	U		0.00030	0.0010	mg/L	1	24-Jul-2020 21:35
Ethylbenzene	0.15		0.00030	0.0010	mg/L	1	24-Jul-2020 21:35
Methylene chloride	U		0.0010	0.0020	mg/L	1	24-Jul-2020 21:35
Toluene	0.56		0.0020	0.010	mg/L	10	27-Jul-2020 23:48
Vinyl chloride	0.0058		0.00020	0.0010	mg/L	1	24-Jul-2020 21:35
Xylenes, Total	0.39		0.00030	0.0010	mg/L	1	24-Jul-2020 21:35
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>93.4</i>			<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>24-Jul-2020 21:35</i>
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>108</i>			<i>70-126</i>	<i>%REC</i>	<i>10</i>	<i>27-Jul-2020 23:48</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>103</i>			<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>24-Jul-2020 21:35</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>102</i>			<i>81-113</i>	<i>%REC</i>	<i>10</i>	<i>27-Jul-2020 23:48</i>
<i>Surr: Dibromofluoromethane</i>	<i>99.9</i>			<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>24-Jul-2020 21:35</i>
<i>Surr: Dibromofluoromethane</i>	<i>108</i>			<i>77-123</i>	<i>%REC</i>	<i>10</i>	<i>27-Jul-2020 23:48</i>
<i>Surr: Toluene-d8</i>	<i>98.4</i>			<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>24-Jul-2020 21:35</i>
<i>Surr: Toluene-d8</i>	<i>97.5</i>			<i>82-127</i>	<i>%REC</i>	<i>10</i>	<i>27-Jul-2020 23:48</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW49B-20200721
 Collection Date: 21-Jul-2020 11:55

ANALYTICAL REPORT
 WorkOrder:HS20071089
 Lab ID:HS20071089-04
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 25-Jul-2020		Analyst: GEY	
1,2-Diphenylhydrazine	U		0.00021	0.0020	mg/L	10	30-Jul-2020 18:41
2,4-Dimethylphenol	2.1		0.040	0.20	mg/L	1000	31-Jul-2020 13:17
2,4-Dinitrotoluene	U		0.00058	0.0020	mg/L	10	30-Jul-2020 18:41
2,6-Dinitrotoluene	U		0.00042	0.0020	mg/L	10	30-Jul-2020 18:41
2-Chloronaphthalene	U		0.00021	0.0020	mg/L	10	30-Jul-2020 18:41
2-Methylnaphthalene	0.28		0.0019	0.010	mg/L	100	31-Jul-2020 12:58
4,6-Dinitro-2-methylphenol	U		0.00020	0.0020	mg/L	10	30-Jul-2020 18:41
4-Nitrophenol	U		0.00047	0.010	mg/L	10	30-Jul-2020 18:41
Acenaphthene	0.12		0.0027	0.010	mg/L	100	31-Jul-2020 12:58
Acenaphthylene	0.0031		0.00015	0.0010	mg/L	10	30-Jul-2020 18:41
Anthracene	0.022		0.00014	0.0010	mg/L	10	30-Jul-2020 18:41
Benz(a)anthracene	0.0040		0.00050	0.0010	mg/L	10	30-Jul-2020 18:41
Benzo(a)pyrene	0.0016		0.00020	0.0010	mg/L	10	30-Jul-2020 18:41
Bis(2-chloroethoxy)methane	U		0.00030	0.0020	mg/L	10	30-Jul-2020 18:41
Bis(2-ethylhexyl)phthalate	0.0023		0.00037	0.0020	mg/L	10	30-Jul-2020 18:41
Chrysene	0.0042		0.00021	0.0010	mg/L	10	30-Jul-2020 18:41
Dibenzofuran	0.088		0.00020	0.0010	mg/L	10	30-Jul-2020 18:41
Di-n-butyl phthalate	U		0.00020	0.0020	mg/L	10	30-Jul-2020 18:41
Fluoranthene	0.026		0.00010	0.0010	mg/L	10	30-Jul-2020 18:41
Fluorene	0.070		0.00030	0.0010	mg/L	10	30-Jul-2020 18:41
Naphthalene	4.1		0.020	0.10	mg/L	1000	31-Jul-2020 13:17
Nitrobenzene	U		0.00024	0.0020	mg/L	10	30-Jul-2020 18:41
N-Nitrosodiphenylamine	U		0.00025	0.0020	mg/L	10	30-Jul-2020 18:41
Pentachlorophenol	U		0.00079	0.0020	mg/L	10	30-Jul-2020 18:41
Phenanthrene	0.12		0.0021	0.010	mg/L	100	31-Jul-2020 12:58
Phenol	0.0060		0.00035	0.0020	mg/L	10	30-Jul-2020 18:41
Pyrene	0.014		0.00019	0.0010	mg/L	10	30-Jul-2020 18:41
<i>Surr: 2,4,6-Tribromophenol</i>	<i>0</i>	<i>JS</i>		<i>34-129</i>	<i>%REC</i>	<i>100</i>	<i>31-Jul-2020 12:58</i>
<i>Surr: 2,4,6-Tribromophenol</i>	<i>116</i>			<i>34-129</i>	<i>%REC</i>	<i>10</i>	<i>30-Jul-2020 18:41</i>
<i>Surr: 2,4,6-Tribromophenol</i>	<i>0</i>	<i>JS</i>		<i>34-129</i>	<i>%REC</i>	<i>1000</i>	<i>31-Jul-2020 13:17</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>0</i>	<i>JS</i>		<i>40-125</i>	<i>%REC</i>	<i>1000</i>	<i>31-Jul-2020 13:17</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>55.6</i>			<i>40-125</i>	<i>%REC</i>	<i>10</i>	<i>30-Jul-2020 18:41</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>0</i>	<i>JS</i>		<i>40-125</i>	<i>%REC</i>	<i>100</i>	<i>31-Jul-2020 12:58</i>
<i>Surr: 2-Fluorophenol</i>	<i>0</i>	<i>JS</i>		<i>20-120</i>	<i>%REC</i>	<i>100</i>	<i>31-Jul-2020 12:58</i>
<i>Surr: 2-Fluorophenol</i>	<i>82.0</i>			<i>20-120</i>	<i>%REC</i>	<i>10</i>	<i>30-Jul-2020 18:41</i>
<i>Surr: 2-Fluorophenol</i>	<i>0</i>	<i>JS</i>		<i>20-120</i>	<i>%REC</i>	<i>1000</i>	<i>31-Jul-2020 13:17</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>0</i>	<i>JS</i>		<i>40-135</i>	<i>%REC</i>	<i>1000</i>	<i>31-Jul-2020 13:17</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>81.8</i>			<i>40-135</i>	<i>%REC</i>	<i>10</i>	<i>30-Jul-2020 18:41</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>0</i>	<i>JS</i>		<i>40-135</i>	<i>%REC</i>	<i>100</i>	<i>31-Jul-2020 12:58</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW49B-20200721
 Collection Date: 21-Jul-2020 11:55

ANALYTICAL REPORT
 WorkOrder:HS20071089
 Lab ID:HS20071089-04
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 25-Jul-2020		Analyst: GEY	
Surr: Nitrobenzene-d5	0	JS		41-120	%REC	100	31-Jul-2020 12:58
Surr: Nitrobenzene-d5	85.9			41-120	%REC	10	30-Jul-2020 18:41
Surr: Nitrobenzene-d5	0	JS		41-120	%REC	1000	31-Jul-2020 13:17
Surr: Phenol-d6	0	JS		20-120	%REC	1000	31-Jul-2020 13:17
Surr: Phenol-d6	90.9			20-120	%REC	10	30-Jul-2020 18:41
Surr: Phenol-d6	0	JS		20-120	%REC	100	31-Jul-2020 12:58
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 28-Jul-2020		Analyst: JHD	
Arsenic	0.00553		0.000400	0.00200	mg/L	1	29-Jul-2020 13:25

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW74B-20200721
 Collection Date: 21-Jul-2020 12:50

ANALYTICAL REPORT
 WorkOrder:HS20071089
 Lab ID:HS20071089-05
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MLL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	24-Jul-2020 22:00
Benzene	0.78		0.0020	0.010	mg/L	10	28-Jul-2020 00:10
Chlorobenzene	U		0.00030	0.0010	mg/L	1	24-Jul-2020 22:00
Ethylbenzene	0.16		0.00030	0.0010	mg/L	1	24-Jul-2020 22:00
Methylene chloride	U		0.0010	0.0020	mg/L	1	24-Jul-2020 22:00
Toluene	0.69		0.0020	0.010	mg/L	10	28-Jul-2020 00:10
Xylenes, Total	0.41		0.00030	0.0010	mg/L	1	24-Jul-2020 22:00
Surr: 1,2-Dichloroethane-d4	89.9			70-126	%REC	1	24-Jul-2020 22:00
Surr: 1,2-Dichloroethane-d4	107			70-126	%REC	10	28-Jul-2020 00:10
Surr: 4-Bromofluorobenzene	103			81-113	%REC	1	24-Jul-2020 22:00
Surr: 4-Bromofluorobenzene	102			81-113	%REC	10	28-Jul-2020 00:10
Surr: Dibromofluoromethane	98.8			77-123	%REC	1	24-Jul-2020 22:00
Surr: Dibromofluoromethane	106			77-123	%REC	10	28-Jul-2020 00:10
Surr: Toluene-d8	97.9			82-127	%REC	1	24-Jul-2020 22:00
Surr: Toluene-d8	97.0			82-127	%REC	10	28-Jul-2020 00:10

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW74B-20200721
 Collection Date: 21-Jul-2020 12:50

ANALYTICAL REPORT
 WorkOrder:HS20071089
 Lab ID:HS20071089-05
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 25-Jul-2020		Analyst: GEY	
1,2-Diphenylhydrazine	U		0.00021	0.0020	mg/L	10	31-Jul-2020 13:37
2,4-Dimethylphenol	8.3		0.40	2.0	mg/L	10000	31-Jul-2020 17:11
2,4-Dinitrotoluene	U		0.00058	0.0020	mg/L	10	31-Jul-2020 13:37
2,6-Dinitrotoluene	U		0.00042	0.0020	mg/L	10	31-Jul-2020 13:37
2-Chloronaphthalene	U		0.00021	0.0020	mg/L	10	31-Jul-2020 13:37
2-Methylnaphthalene	0.60		0.0019	0.010	mg/L	100	31-Jul-2020 13:56
4,6-Dinitro-2-methylphenol	U		0.00020	0.0020	mg/L	10	31-Jul-2020 13:37
4-Nitrophenol	U		0.00047	0.010	mg/L	10	31-Jul-2020 13:37
Acenaphthene	0.32		0.0027	0.010	mg/L	100	31-Jul-2020 13:56
Acenaphthylene	0.0083		0.00015	0.0010	mg/L	10	31-Jul-2020 13:37
Anthracene	0.083		0.00014	0.0010	mg/L	10	31-Jul-2020 13:37
Benz(a)anthracene	0.037		0.00050	0.0010	mg/L	10	31-Jul-2020 13:37
Benzo(a)pyrene	0.012		0.00020	0.0010	mg/L	10	31-Jul-2020 13:37
Bis(2-chloroethoxy)methane	U		0.00030	0.0020	mg/L	10	31-Jul-2020 13:37
Bis(2-ethylhexyl)phthalate	U		0.00037	0.0020	mg/L	10	31-Jul-2020 13:37
Chrysene	0.030		0.00021	0.0010	mg/L	10	31-Jul-2020 13:37
Dibenzofuran	0.27		0.0020	0.010	mg/L	100	31-Jul-2020 13:56
Di-n-butyl phthalate	U		0.00020	0.0020	mg/L	10	31-Jul-2020 13:37
Fluoranthene	0.20		0.0010	0.010	mg/L	100	31-Jul-2020 13:56
Fluorene	0.29		0.0030	0.010	mg/L	100	31-Jul-2020 13:56
Naphthalene	5.9		0.020	0.10	mg/L	1000	31-Jul-2020 14:16
Nitrobenzene	U		0.00024	0.0020	mg/L	10	31-Jul-2020 13:37
N-Nitrosodiphenylamine	U		0.00025	0.0020	mg/L	10	31-Jul-2020 13:37
Pentachlorophenol	U		0.00079	0.0020	mg/L	10	31-Jul-2020 13:37
Phenanthrene	0.58		0.0021	0.010	mg/L	100	31-Jul-2020 13:56
Phenol	5.5		0.035	0.20	mg/L	1000	31-Jul-2020 14:16
Pyrene	0.15		0.0019	0.010	mg/L	100	31-Jul-2020 13:56
<i>Surr: 2,4,6-Tribromophenol</i>	<i>0</i>	<i>JS</i>		<i>34-129</i>	<i>%REC</i>	<i>100</i>	<i>31-Jul-2020 13:56</i>
<i>Surr: 2,4,6-Tribromophenol</i>	<i>0</i>	<i>JS</i>		<i>34-129</i>	<i>%REC</i>	<i>1000</i>	<i>31-Jul-2020 14:16</i>
<i>Surr: 2,4,6-Tribromophenol</i>	<i>73.7</i>			<i>34-129</i>	<i>%REC</i>	<i>10</i>	<i>31-Jul-2020 13:37</i>
<i>Surr: 2,4,6-Tribromophenol</i>	<i>0</i>	<i>JS</i>		<i>34-129</i>	<i>%REC</i>	<i>10000</i>	<i>31-Jul-2020 17:11</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>0</i>	<i>JS</i>		<i>40-125</i>	<i>%REC</i>	<i>10000</i>	<i>31-Jul-2020 17:11</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>81.5</i>			<i>40-125</i>	<i>%REC</i>	<i>10</i>	<i>31-Jul-2020 13:37</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>0</i>	<i>JS</i>		<i>40-125</i>	<i>%REC</i>	<i>100</i>	<i>31-Jul-2020 13:56</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>0</i>	<i>JS</i>		<i>40-125</i>	<i>%REC</i>	<i>1000</i>	<i>31-Jul-2020 14:16</i>
<i>Surr: 2-Fluorophenol</i>	<i>0</i>	<i>JS</i>		<i>20-120</i>	<i>%REC</i>	<i>100</i>	<i>31-Jul-2020 13:56</i>
<i>Surr: 2-Fluorophenol</i>	<i>0</i>	<i>JS</i>		<i>20-120</i>	<i>%REC</i>	<i>1000</i>	<i>31-Jul-2020 14:16</i>
<i>Surr: 2-Fluorophenol</i>	<i>0</i>	<i>JS</i>		<i>20-120</i>	<i>%REC</i>	<i>10000</i>	<i>31-Jul-2020 17:11</i>
<i>Surr: 2-Fluorophenol</i>	<i>76.0</i>			<i>20-120</i>	<i>%REC</i>	<i>10</i>	<i>31-Jul-2020 13:37</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW74B-20200721
 Collection Date: 21-Jul-2020 12:50

ANALYTICAL REPORT
 WorkOrder:HS20071089
 Lab ID:HS20071089-05
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MLL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 25-Jul-2020		Analyst: GEY	
Surr: 4-Terphenyl-d14	95.9			40-135	%REC	10	31-Jul-2020 13:37
Surr: 4-Terphenyl-d14	0	JS		40-135	%REC	10000	31-Jul-2020 17:11
Surr: 4-Terphenyl-d14	0	JS		40-135	%REC	100	31-Jul-2020 13:56
Surr: 4-Terphenyl-d14	0	JS		40-135	%REC	1000	31-Jul-2020 14:16
Surr: Nitrobenzene-d5	0	JS		41-120	%REC	100	31-Jul-2020 13:56
Surr: Nitrobenzene-d5	0	JS		41-120	%REC	1000	31-Jul-2020 14:16
Surr: Nitrobenzene-d5	55.4			41-120	%REC	10	31-Jul-2020 13:37
Surr: Nitrobenzene-d5	0	JS		41-120	%REC	10000	31-Jul-2020 17:11
Surr: Phenol-d6	0	JS		20-120	%REC	10000	31-Jul-2020 17:11
Surr: Phenol-d6	35.6	J		20-120	%REC	10	31-Jul-2020 13:37
Surr: Phenol-d6	0	JS		20-120	%REC	100	31-Jul-2020 13:56
Surr: Phenol-d6	0	JS		20-120	%REC	1000	31-Jul-2020 14:16
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 28-Jul-2020		Analyst: JHD	
Arsenic	0.00137	J	0.000400	0.00200	mg/L	1	29-Jul-2020 13:27

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW79A-20200721
 Collection Date: 21-Jul-2020 13:45

ANALYTICAL REPORT
 WorkOrder:HS20071089
 Lab ID:HS20071089-06
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MLL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	25-Jul-2020 03:34
Benzene	0.18		0.00020	0.0010	mg/L	1	25-Jul-2020 03:34
Chlorobenzene	U		0.00030	0.0010	mg/L	1	25-Jul-2020 03:34
Ethylbenzene	0.087		0.00030	0.0010	mg/L	1	25-Jul-2020 03:34
Methylene chloride	U		0.0010	0.0020	mg/L	1	25-Jul-2020 03:34
Toluene	0.31		0.0020	0.010	mg/L	10	28-Jul-2020 00:32
Xylenes, Total	0.22		0.00030	0.0010	mg/L	1	25-Jul-2020 03:34
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>94.0</i>			<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 03:34</i>
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>106</i>			<i>70-126</i>	<i>%REC</i>	<i>10</i>	<i>28-Jul-2020 00:32</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>103</i>			<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 03:34</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>101</i>			<i>81-113</i>	<i>%REC</i>	<i>10</i>	<i>28-Jul-2020 00:32</i>
<i>Surr: Dibromofluoromethane</i>	<i>99.6</i>			<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 03:34</i>
<i>Surr: Dibromofluoromethane</i>	<i>105</i>			<i>77-123</i>	<i>%REC</i>	<i>10</i>	<i>28-Jul-2020 00:32</i>
<i>Surr: Toluene-d8</i>	<i>99.9</i>			<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 03:34</i>
<i>Surr: Toluene-d8</i>	<i>98.7</i>			<i>82-127</i>	<i>%REC</i>	<i>10</i>	<i>28-Jul-2020 00:32</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW79A-20200721
 Collection Date: 21-Jul-2020 13:45

ANALYTICAL REPORT
 WorkOrder:HS20071089
 Lab ID:HS20071089-06
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 25-Jul-2020		Analyst: GEY	
1,2-Diphenylhydrazine	U		0.000021	0.00020	mg/L	1	30-Jul-2020 19:20
2,4-Dimethylphenol	1.2		0.040	0.20	mg/L	1000	31-Jul-2020 17:30
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	30-Jul-2020 19:20
2,6-Dinitrotoluene	U		0.000042	0.00020	mg/L	1	30-Jul-2020 19:20
2-Chloronaphthalene	U		0.000021	0.00020	mg/L	1	30-Jul-2020 19:20
2-Methylnaphthalene	0.070		0.00019	0.0010	mg/L	10	31-Jul-2020 14:35
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	30-Jul-2020 19:20
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	30-Jul-2020 19:20
Acenaphthene	0.031		0.00027	0.0010	mg/L	10	31-Jul-2020 14:35
Acenaphthylene	0.00057		0.000015	0.00010	mg/L	1	30-Jul-2020 19:20
Anthracene	0.00074		0.000014	0.00010	mg/L	1	30-Jul-2020 19:20
Benz(a)anthracene	0.000067	J	0.000050	0.00010	mg/L	1	30-Jul-2020 19:20
Benzo(a)pyrene	U		0.000020	0.00010	mg/L	1	30-Jul-2020 19:20
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	30-Jul-2020 19:20
Bis(2-ethylhexyl)phthalate	U		0.000037	0.00020	mg/L	1	30-Jul-2020 19:20
Chrysene	0.000058	J	0.000021	0.00010	mg/L	1	30-Jul-2020 19:20
Dibenzofuran	0.024		0.00020	0.0010	mg/L	10	31-Jul-2020 14:35
Di-n-butyl phthalate	U		0.000020	0.00020	mg/L	1	30-Jul-2020 19:20
Fluoranthene	0.00034		0.000010	0.00010	mg/L	1	30-Jul-2020 19:20
Fluorene	0.0090		0.000030	0.00010	mg/L	1	30-Jul-2020 19:20
Naphthalene	1.3		0.020	0.10	mg/L	1000	31-Jul-2020 17:30
Nitrobenzene	U		0.000024	0.00020	mg/L	1	30-Jul-2020 19:20
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	30-Jul-2020 19:20
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	30-Jul-2020 19:20
Phenanthrene	0.0048		0.000021	0.00010	mg/L	1	30-Jul-2020 19:20
Phenol	0.25		0.0035	0.020	mg/L	100	31-Jul-2020 14:55
Pyrene	0.00020		0.000019	0.00010	mg/L	1	30-Jul-2020 19:20
<i>Surr: 2,4,6-Tribromophenol</i>	<i>0</i>	<i>JS</i>		<i>34-129</i>	<i>%REC</i>	<i>100</i>	<i>31-Jul-2020 14:55</i>
<i>Surr: 2,4,6-Tribromophenol</i>	<i>0</i>	<i>JS</i>		<i>34-129</i>	<i>%REC</i>	<i>1000</i>	<i>31-Jul-2020 17:30</i>
<i>Surr: 2,4,6-Tribromophenol</i>	<i>95.4</i>			<i>34-129</i>	<i>%REC</i>	<i>10</i>	<i>31-Jul-2020 14:35</i>
<i>Surr: 2,4,6-Tribromophenol</i>	<i>42.1</i>			<i>34-129</i>	<i>%REC</i>	<i>1</i>	<i>30-Jul-2020 19:20</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>41.3</i>			<i>40-125</i>	<i>%REC</i>	<i>1</i>	<i>30-Jul-2020 19:20</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>62.3</i>			<i>40-125</i>	<i>%REC</i>	<i>10</i>	<i>31-Jul-2020 14:35</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>0</i>	<i>JS</i>		<i>40-125</i>	<i>%REC</i>	<i>1000</i>	<i>31-Jul-2020 17:30</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>0</i>	<i>JS</i>		<i>40-125</i>	<i>%REC</i>	<i>100</i>	<i>31-Jul-2020 14:55</i>
<i>Surr: 2-Fluorophenol</i>	<i>0</i>	<i>JS</i>		<i>20-120</i>	<i>%REC</i>	<i>100</i>	<i>31-Jul-2020 14:55</i>
<i>Surr: 2-Fluorophenol</i>	<i>0</i>	<i>JS</i>		<i>20-120</i>	<i>%REC</i>	<i>1000</i>	<i>31-Jul-2020 17:30</i>
<i>Surr: 2-Fluorophenol</i>	<i>64.3</i>			<i>20-120</i>	<i>%REC</i>	<i>10</i>	<i>31-Jul-2020 14:35</i>
<i>Surr: 2-Fluorophenol</i>	<i>36.0</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>30-Jul-2020 19:20</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW79A-20200721
 Collection Date: 21-Jul-2020 13:45

ANALYTICAL REPORT
 WorkOrder:HS20071089
 Lab ID:HS20071089-06
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 25-Jul-2020		Analyst: GEY	
Surr: 4-Terphenyl-d14	44.8			40-135	%REC	1	30-Jul-2020 19:20
Surr: 4-Terphenyl-d14	87.5			40-135	%REC	10	31-Jul-2020 14:35
Surr: 4-Terphenyl-d14	0	JS		40-135	%REC	1000	31-Jul-2020 17:30
Surr: 4-Terphenyl-d14	0	JS		40-135	%REC	100	31-Jul-2020 14:55
Surr: Nitrobenzene-d5	52.9			41-120	%REC	10	31-Jul-2020 14:35
Surr: Nitrobenzene-d5	0	JS		41-120	%REC	100	31-Jul-2020 14:55
Surr: Nitrobenzene-d5	0	JS		41-120	%REC	1000	31-Jul-2020 17:30
Surr: Nitrobenzene-d5	46.4			41-120	%REC	1	30-Jul-2020 19:20
Surr: Phenol-d6	46.0			20-120	%REC	1	30-Jul-2020 19:20
Surr: Phenol-d6	63.1			20-120	%REC	10	31-Jul-2020 14:35
Surr: Phenol-d6	0	JS		20-120	%REC	100	31-Jul-2020 14:55
Surr: Phenol-d6	0	JS		20-120	%REC	1000	31-Jul-2020 17:30
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 28-Jul-2020		Analyst: JHD	
Arsenic	0.0108		0.000400	0.00200	mg/L	1	29-Jul-2020 13:29

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW75B-20200721
 Collection Date: 21-Jul-2020 14:30

ANALYTICAL REPORT
 WorkOrder:HS20071089
 Lab ID:HS20071089-07
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane		U	0.00020	0.0010	mg/L	1	25-Jul-2020 03:58
Benzene	0.0072		0.00020	0.0010	mg/L	1	25-Jul-2020 03:58
Chlorobenzene		U	0.00030	0.0010	mg/L	1	25-Jul-2020 03:58
Ethylbenzene	0.040		0.00030	0.0010	mg/L	1	25-Jul-2020 03:58
Methylene chloride		U	0.0010	0.0020	mg/L	1	25-Jul-2020 03:58
Toluene	0.050		0.00020	0.0010	mg/L	1	25-Jul-2020 03:58
Xylenes, Total	0.13		0.00030	0.0010	mg/L	1	25-Jul-2020 03:58
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>95.8</i>			<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 03:58</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>101</i>			<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 03:58</i>
<i>Surr: Dibromofluoromethane</i>	<i>100</i>			<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 03:58</i>
<i>Surr: Toluene-d8</i>	<i>101</i>			<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 03:58</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW75B-20200721
 Collection Date: 21-Jul-2020 14:30

ANALYTICAL REPORT

WorkOrder:HS20071089
 Lab ID:HS20071089-07
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 25-Jul-2020		Analyst: GEY	
1,2-Diphenylhydrazine	U		0.00021	0.0020	mg/L	10	30-Jul-2020 19:39
2,4-Dimethylphenol	0.0046		0.00040	0.0020	mg/L	10	30-Jul-2020 19:39
2,4-Dinitrotoluene	U		0.00058	0.0020	mg/L	10	30-Jul-2020 19:39
2,6-Dinitrotoluene	U		0.00042	0.0020	mg/L	10	30-Jul-2020 19:39
2-Chloronaphthalene	U		0.00021	0.0020	mg/L	10	30-Jul-2020 19:39
2-Methylnaphthalene	0.11		0.0019	0.010	mg/L	100	31-Jul-2020 15:14
4,6-Dinitro-2-methylphenol	U		0.00020	0.0020	mg/L	10	30-Jul-2020 19:39
4-Nitrophenol	U		0.00047	0.010	mg/L	10	30-Jul-2020 19:39
Acenaphthene	0.057		0.00027	0.0010	mg/L	10	30-Jul-2020 19:39
Acenaphthylene	0.0013		0.00015	0.0010	mg/L	10	30-Jul-2020 19:39
Anthracene	0.0090		0.00014	0.0010	mg/L	10	30-Jul-2020 19:39
Benz(a)anthracene	0.0019		0.00050	0.0010	mg/L	10	30-Jul-2020 19:39
Benzo(a)pyrene	0.00064	J	0.00020	0.0010	mg/L	10	30-Jul-2020 19:39
Bis(2-chloroethoxy)methane	U		0.00030	0.0020	mg/L	10	30-Jul-2020 19:39
Bis(2-ethylhexyl)phthalate	U		0.00037	0.0020	mg/L	10	30-Jul-2020 19:39
Chrysene	0.0015		0.00021	0.0010	mg/L	10	30-Jul-2020 19:39
Dibenzofuran	0.047		0.00020	0.0010	mg/L	10	30-Jul-2020 19:39
Di-n-butyl phthalate	U		0.00020	0.0020	mg/L	10	30-Jul-2020 19:39
Fluoranthene	0.0098		0.00010	0.0010	mg/L	10	30-Jul-2020 19:39
Fluorene	0.041		0.00030	0.0010	mg/L	10	30-Jul-2020 19:39
Naphthalene	1.4		0.020	0.10	mg/L	1000	31-Jul-2020 17:50
Nitrobenzene	U		0.00024	0.0020	mg/L	10	30-Jul-2020 19:39
N-Nitrosodiphenylamine	U		0.00025	0.0020	mg/L	10	30-Jul-2020 19:39
Pentachlorophenol	U		0.00079	0.0020	mg/L	10	30-Jul-2020 19:39
Phenanthrene	0.052		0.00021	0.0010	mg/L	10	30-Jul-2020 19:39
Phenol	U		0.00035	0.0020	mg/L	10	30-Jul-2020 19:39
Pyrene	0.0063		0.00019	0.0010	mg/L	10	30-Jul-2020 19:39
<i>Surr: 2,4,6-Tribromophenol</i>	<i>0</i>	<i>JS</i>		<i>34-129</i>	<i>%REC</i>	<i>100</i>	<i>31-Jul-2020 15:14</i>
<i>Surr: 2,4,6-Tribromophenol</i>	<i>71.4</i>			<i>34-129</i>	<i>%REC</i>	<i>10</i>	<i>30-Jul-2020 19:39</i>
<i>Surr: 2,4,6-Tribromophenol</i>	<i>0</i>	<i>JS</i>		<i>34-129</i>	<i>%REC</i>	<i>1000</i>	<i>31-Jul-2020 17:50</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>57.9</i>			<i>40-125</i>	<i>%REC</i>	<i>10</i>	<i>30-Jul-2020 19:39</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>0</i>	<i>JS</i>		<i>40-125</i>	<i>%REC</i>	<i>1000</i>	<i>31-Jul-2020 17:50</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>0</i>	<i>JS</i>		<i>40-125</i>	<i>%REC</i>	<i>100</i>	<i>31-Jul-2020 15:14</i>
<i>Surr: 2-Fluorophenol</i>	<i>0</i>	<i>JS</i>		<i>20-120</i>	<i>%REC</i>	<i>100</i>	<i>31-Jul-2020 15:14</i>
<i>Surr: 2-Fluorophenol</i>	<i>0</i>	<i>JS</i>		<i>20-120</i>	<i>%REC</i>	<i>1000</i>	<i>31-Jul-2020 17:50</i>
<i>Surr: 2-Fluorophenol</i>	<i>62.2</i>			<i>20-120</i>	<i>%REC</i>	<i>10</i>	<i>30-Jul-2020 19:39</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>79.0</i>			<i>40-135</i>	<i>%REC</i>	<i>10</i>	<i>30-Jul-2020 19:39</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>0</i>	<i>JS</i>		<i>40-135</i>	<i>%REC</i>	<i>1000</i>	<i>31-Jul-2020 17:50</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>0</i>	<i>JS</i>		<i>40-135</i>	<i>%REC</i>	<i>100</i>	<i>31-Jul-2020 15:14</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW75B-20200721
 Collection Date: 21-Jul-2020 14:30

ANALYTICAL REPORT
 WorkOrder:HS20071089
 Lab ID:HS20071089-07
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 25-Jul-2020		Analyst: GEY	
Surr: Nitrobenzene-d5	0	JS		41-120	%REC	100	31-Jul-2020 15:14
Surr: Nitrobenzene-d5	0	JS		41-120	%REC	1000	31-Jul-2020 17:50
Surr: Nitrobenzene-d5	56.3			41-120	%REC	10	30-Jul-2020 19:39
Surr: Phenol-d6	68.1			20-120	%REC	10	30-Jul-2020 19:39
Surr: Phenol-d6	0	JS		20-120	%REC	1000	31-Jul-2020 17:50
Surr: Phenol-d6	0	JS		20-120	%REC	100	31-Jul-2020 15:14
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 28-Jul-2020		Analyst: JHD	
Arsenic	U		0.000400	0.00200	mg/L	1	29-Jul-2020 00:14

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW47A-20200721
 Collection Date: 21-Jul-2020 15:30

ANALYTICAL REPORT
 WorkOrder:HS20071089
 Lab ID:HS20071089-08
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	25-Jul-2020 04:22
Benzene	U		0.00020	0.0010	mg/L	1	25-Jul-2020 04:22
Chlorobenzene	U		0.00030	0.0010	mg/L	1	25-Jul-2020 04:22
Ethylbenzene	U		0.00030	0.0010	mg/L	1	25-Jul-2020 04:22
Methylene chloride	U		0.0010	0.0020	mg/L	1	25-Jul-2020 04:22
Toluene	U		0.00020	0.0010	mg/L	1	25-Jul-2020 04:22
Xylenes, Total	U		0.00030	0.0010	mg/L	1	25-Jul-2020 04:22
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>95.9</i>			<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 04:22</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>97.6</i>			<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 04:22</i>
<i>Surr: Dibromofluoromethane</i>	<i>100</i>			<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 04:22</i>
<i>Surr: Toluene-d8</i>	<i>101</i>			<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 04:22</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW47A-20200721
 Collection Date: 21-Jul-2020 15:30

ANALYTICAL REPORT
 WorkOrder:HS20071089
 Lab ID:HS20071089-08
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 25-Jul-2020		Analyst: GEY	
1,2-Diphenylhydrazine		U	0.000021	0.00020	mg/L	1	30-Jul-2020 19:59
2,4-Dimethylphenol	0.00020	J	0.000040	0.00020	mg/L	1	30-Jul-2020 19:59
2,4-Dinitrotoluene		U	0.000058	0.00020	mg/L	1	30-Jul-2020 19:59
2,6-Dinitrotoluene		U	0.000042	0.00020	mg/L	1	30-Jul-2020 19:59
2-Chloronaphthalene		U	0.000021	0.00020	mg/L	1	30-Jul-2020 19:59
2-Methylnaphthalene		U	0.000019	0.00010	mg/L	1	30-Jul-2020 19:59
4,6-Dinitro-2-methylphenol		U	0.000020	0.00020	mg/L	1	30-Jul-2020 19:59
4-Nitrophenol		U	0.000047	0.0010	mg/L	1	30-Jul-2020 19:59
Acenaphthene		U	0.000027	0.00010	mg/L	1	30-Jul-2020 19:59
Acenaphthylene		U	0.000015	0.00010	mg/L	1	30-Jul-2020 19:59
Anthracene		U	0.000014	0.00010	mg/L	1	30-Jul-2020 19:59
Benz(a)anthracene		U	0.000050	0.00010	mg/L	1	30-Jul-2020 19:59
Benzo(a)pyrene		U	0.000020	0.00010	mg/L	1	30-Jul-2020 19:59
Bis(2-chloroethoxy)methane		U	0.000030	0.00020	mg/L	1	30-Jul-2020 19:59
Bis(2-ethylhexyl)phthalate	0.00025		0.000037	0.00020	mg/L	1	30-Jul-2020 19:59
Chrysene		U	0.000021	0.00010	mg/L	1	30-Jul-2020 19:59
Dibenzofuran		U	0.000020	0.00010	mg/L	1	30-Jul-2020 19:59
Di-n-butyl phthalate	0.000046	J	0.000020	0.00020	mg/L	1	30-Jul-2020 19:59
Fluoranthene	0.000067	J	0.000010	0.00010	mg/L	1	30-Jul-2020 19:59
Fluorene		U	0.000030	0.00010	mg/L	1	30-Jul-2020 19:59
Naphthalene	0.00025		0.000020	0.00010	mg/L	1	30-Jul-2020 19:59
Nitrobenzene		U	0.000024	0.00020	mg/L	1	30-Jul-2020 19:59
N-Nitrosodiphenylamine		U	0.000025	0.00020	mg/L	1	30-Jul-2020 19:59
Pentachlorophenol		U	0.000079	0.00020	mg/L	1	30-Jul-2020 19:59
Phenanthrene	0.00011		0.000021	0.00010	mg/L	1	30-Jul-2020 19:59
Phenol	0.000093	J	0.000035	0.00020	mg/L	1	30-Jul-2020 19:59
Pyrene	0.000042	J	0.000019	0.00010	mg/L	1	30-Jul-2020 19:59
Surr: 2,4,6-Tribromophenol	65.9			34-129	%REC	1	30-Jul-2020 19:59
Surr: 2-Fluorobiphenyl	42.5			40-125	%REC	1	30-Jul-2020 19:59
Surr: 2-Fluorophenol	44.7			20-120	%REC	1	30-Jul-2020 19:59
Surr: 4-Terphenyl-d14	79.1			40-135	%REC	1	30-Jul-2020 19:59
Surr: Nitrobenzene-d5	46.5			41-120	%REC	1	30-Jul-2020 19:59
Surr: Phenol-d6	52.8			20-120	%REC	1	30-Jul-2020 19:59
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 28-Jul-2020		Analyst: JHD	
Arsenic		U	0.000400	0.00200	mg/L	1	29-Jul-2020 00:16

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW59B-20200721
 Collection Date: 21-Jul-2020 16:25

ANALYTICAL REPORT
 WorkOrder:HS20071089
 Lab ID:HS20071089-09
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MLL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	25-Jul-2020 04:45
Benzene	U		0.00020	0.0010	mg/L	1	25-Jul-2020 04:45
Chlorobenzene	U		0.00030	0.0010	mg/L	1	25-Jul-2020 04:45
Ethylbenzene	U		0.00030	0.0010	mg/L	1	25-Jul-2020 04:45
Methylene chloride	U		0.0010	0.0020	mg/L	1	25-Jul-2020 04:45
Toluene	U		0.00020	0.0010	mg/L	1	25-Jul-2020 04:45
Vinyl chloride	U		0.00020	0.0010	mg/L	1	25-Jul-2020 04:45
Xylenes, Total	U		0.00030	0.0010	mg/L	1	25-Jul-2020 04:45
<i>Surr: 1,2-Dichloroethane-d4</i>		96.7		70-126	%REC	1	25-Jul-2020 04:45
<i>Surr: 4-Bromofluorobenzene</i>		99.2		81-113	%REC	1	25-Jul-2020 04:45
<i>Surr: Dibromofluoromethane</i>		101		77-123	%REC	1	25-Jul-2020 04:45
<i>Surr: Toluene-d8</i>		100		82-127	%REC	1	25-Jul-2020 04:45

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW59B-20200721
 Collection Date: 21-Jul-2020 16:25

ANALYTICAL REPORT
 WorkOrder:HS20071089
 Lab ID:HS20071089-09
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 25-Jul-2020		Analyst: GEY	
1,2-Diphenylhydrazine	U		0.000021	0.00020	mg/L	1	30-Jul-2020 20:18
2,4-Dimethylphenol	0.00019	J	0.000040	0.00020	mg/L	1	30-Jul-2020 20:18
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	30-Jul-2020 20:18
2,6-Dinitrotoluene	U		0.000042	0.00020	mg/L	1	30-Jul-2020 20:18
2-Chloronaphthalene	U		0.000021	0.00020	mg/L	1	30-Jul-2020 20:18
2-Methylnaphthalene	U		0.000019	0.00010	mg/L	1	30-Jul-2020 20:18
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	30-Jul-2020 20:18
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	30-Jul-2020 20:18
Acenaphthene	U		0.000027	0.00010	mg/L	1	30-Jul-2020 20:18
Acenaphthylene	U		0.000015	0.00010	mg/L	1	30-Jul-2020 20:18
Anthracene	U		0.000014	0.00010	mg/L	1	30-Jul-2020 20:18
Benz(a)anthracene	U		0.000050	0.00010	mg/L	1	30-Jul-2020 20:18
Benzo(a)pyrene	U		0.000020	0.00010	mg/L	1	30-Jul-2020 20:18
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	30-Jul-2020 20:18
Bis(2-ethylhexyl)phthalate	0.00011	J	0.000037	0.00020	mg/L	1	30-Jul-2020 20:18
Chrysene	U		0.000021	0.00010	mg/L	1	30-Jul-2020 20:18
Dibenzofuran	U		0.000020	0.00010	mg/L	1	30-Jul-2020 20:18
Di-n-butyl phthalate	U		0.000020	0.00020	mg/L	1	30-Jul-2020 20:18
Fluoranthene	0.000071	J	0.000010	0.00010	mg/L	1	30-Jul-2020 20:18
Fluorene	U		0.000030	0.00010	mg/L	1	30-Jul-2020 20:18
Naphthalene	0.00020		0.000020	0.00010	mg/L	1	30-Jul-2020 20:18
Nitrobenzene	U		0.000024	0.00020	mg/L	1	30-Jul-2020 20:18
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	30-Jul-2020 20:18
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	30-Jul-2020 20:18
Phenanthrene	0.00012		0.000021	0.00010	mg/L	1	30-Jul-2020 20:18
Phenol	0.000087	J	0.000035	0.00020	mg/L	1	30-Jul-2020 20:18
Pyrene	0.000051	J	0.000019	0.00010	mg/L	1	30-Jul-2020 20:18
Surr: 2,4,6-Tribromophenol	57.5			34-129	%REC	1	30-Jul-2020 20:18
Surr: 2-Fluorobiphenyl	40.4			40-125	%REC	1	30-Jul-2020 20:18
Surr: 2-Fluorophenol	42.9			20-120	%REC	1	30-Jul-2020 20:18
Surr: 4-Terphenyl-d14	74.6			40-135	%REC	1	30-Jul-2020 20:18
Surr: Nitrobenzene-d5	47.8			41-120	%REC	1	30-Jul-2020 20:18
Surr: Phenol-d6	55.5			20-120	%REC	1	30-Jul-2020 20:18
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 28-Jul-2020		Analyst: JHD	
Arsenic	U		0.000400	0.00200	mg/L	1	29-Jul-2020 00:18

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW59A-20200721
 Collection Date: 21-Jul-2020 17:10

ANALYTICAL REPORT
 WorkOrder:HS20071089
 Lab ID:HS20071089-10
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MLL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	25-Jul-2020 05:09
Benzene	U		0.00020	0.0010	mg/L	1	25-Jul-2020 05:09
Chlorobenzene	U		0.00030	0.0010	mg/L	1	25-Jul-2020 05:09
Ethylbenzene	U		0.00030	0.0010	mg/L	1	25-Jul-2020 05:09
Methylene chloride	U		0.0010	0.0020	mg/L	1	25-Jul-2020 05:09
Toluene	0.0021		0.00020	0.0010	mg/L	1	25-Jul-2020 05:09
Vinyl chloride	U		0.00020	0.0010	mg/L	1	25-Jul-2020 05:09
Xylenes, Total	U		0.00030	0.0010	mg/L	1	25-Jul-2020 05:09
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>97.6</i>			<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 05:09</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>98.5</i>			<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 05:09</i>
<i>Surr: Dibromofluoromethane</i>	<i>100</i>			<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 05:09</i>
<i>Surr: Toluene-d8</i>	<i>101</i>			<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 05:09</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW59A-20200721
 Collection Date: 21-Jul-2020 17:10

ANALYTICAL REPORT
 WorkOrder:HS20071089
 Lab ID:HS20071089-10
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 25-Jul-2020		Analyst: GEY	
1,2-Diphenylhydrazine	U		0.000021	0.00020	mg/L	1	30-Jul-2020 20:38
2,4-Dimethylphenol	0.00016	J	0.000040	0.00020	mg/L	1	30-Jul-2020 20:38
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	30-Jul-2020 20:38
2,6-Dinitrotoluene	U		0.000042	0.00020	mg/L	1	30-Jul-2020 20:38
2-Chloronaphthalene	U		0.000021	0.00020	mg/L	1	30-Jul-2020 20:38
2-Methylnaphthalene	U		0.000019	0.00010	mg/L	1	30-Jul-2020 20:38
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	30-Jul-2020 20:38
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	30-Jul-2020 20:38
Acenaphthene	U		0.000027	0.00010	mg/L	1	30-Jul-2020 20:38
Acenaphthylene	U		0.000015	0.00010	mg/L	1	30-Jul-2020 20:38
Anthracene	U		0.000014	0.00010	mg/L	1	30-Jul-2020 20:38
Benz(a)anthracene	U		0.000050	0.00010	mg/L	1	30-Jul-2020 20:38
Benzo(a)pyrene	U		0.000020	0.00010	mg/L	1	30-Jul-2020 20:38
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	30-Jul-2020 20:38
Bis(2-ethylhexyl)phthalate	U		0.000037	0.00020	mg/L	1	30-Jul-2020 20:38
Chrysene	U		0.000021	0.00010	mg/L	1	30-Jul-2020 20:38
Dibenzofuran	U		0.000020	0.00010	mg/L	1	30-Jul-2020 20:38
Di-n-butyl phthalate	U		0.000020	0.00020	mg/L	1	30-Jul-2020 20:38
Fluoranthene	U		0.000010	0.00010	mg/L	1	30-Jul-2020 20:38
Fluorene	U		0.000030	0.00010	mg/L	1	30-Jul-2020 20:38
Naphthalene	0.00017		0.000020	0.00010	mg/L	1	30-Jul-2020 20:38
Nitrobenzene	U		0.000024	0.00020	mg/L	1	30-Jul-2020 20:38
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	30-Jul-2020 20:38
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	30-Jul-2020 20:38
Phenanthrene	0.000070	J	0.000021	0.00010	mg/L	1	30-Jul-2020 20:38
Phenol	0.000097	J	0.000035	0.00020	mg/L	1	30-Jul-2020 20:38
Pyrene	U		0.000019	0.00010	mg/L	1	30-Jul-2020 20:38
<i>Surr: 2,4,6-Tribromophenol</i>	<i>64.5</i>			<i>34-129</i>	<i>%REC</i>	<i>1</i>	<i>30-Jul-2020 20:38</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>43.7</i>			<i>40-125</i>	<i>%REC</i>	<i>1</i>	<i>30-Jul-2020 20:38</i>
<i>Surr: 2-Fluorophenol</i>	<i>45.7</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>30-Jul-2020 20:38</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>73.1</i>			<i>40-135</i>	<i>%REC</i>	<i>1</i>	<i>30-Jul-2020 20:38</i>
<i>Surr: Nitrobenzene-d5</i>	<i>48.7</i>			<i>41-120</i>	<i>%REC</i>	<i>1</i>	<i>30-Jul-2020 20:38</i>
<i>Surr: Phenol-d6</i>	<i>57.7</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>30-Jul-2020 20:38</i>
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 28-Jul-2020		Analyst: JHD	
Arsenic	0.00172	J	0.000400	0.00200	mg/L	1	29-Jul-2020 00:20

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW69A-20200721
 Collection Date: 21-Jul-2020 18:15

ANALYTICAL REPORT
 WorkOrder:HS20071089
 Lab ID:HS20071089-11
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MLL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	25-Jul-2020 05:33
Benzene	U		0.00020	0.0010	mg/L	1	25-Jul-2020 05:33
Chlorobenzene	U		0.00030	0.0010	mg/L	1	25-Jul-2020 05:33
Ethylbenzene	U		0.00030	0.0010	mg/L	1	25-Jul-2020 05:33
Methylene chloride	U		0.0010	0.0020	mg/L	1	25-Jul-2020 05:33
Toluene	U		0.00020	0.0010	mg/L	1	25-Jul-2020 05:33
Vinyl chloride	U		0.00020	0.0010	mg/L	1	25-Jul-2020 05:33
Xylenes, Total	U		0.00030	0.0010	mg/L	1	25-Jul-2020 05:33
<i>Surr: 1,2-Dichloroethane-d4</i>		<i>97.1</i>		<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 05:33</i>
<i>Surr: 4-Bromofluorobenzene</i>		<i>98.3</i>		<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 05:33</i>
<i>Surr: Dibromofluoromethane</i>		<i>101</i>		<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 05:33</i>
<i>Surr: Toluene-d8</i>		<i>101</i>		<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 05:33</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW69A-20200721
 Collection Date: 21-Jul-2020 18:15

ANALYTICAL REPORT
 WorkOrder:HS20071089
 Lab ID:HS20071089-11
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 25-Jul-2020		Analyst: GEY	
1,2-Diphenylhydrazine		U	0.000021	0.00020	mg/L	1	30-Jul-2020 20:57
2,4-Dimethylphenol	0.00018	J	0.000040	0.00020	mg/L	1	30-Jul-2020 20:57
2,4-Dinitrotoluene		U	0.000058	0.00020	mg/L	1	30-Jul-2020 20:57
2,6-Dinitrotoluene		U	0.000042	0.00020	mg/L	1	30-Jul-2020 20:57
2-Chloronaphthalene		U	0.000021	0.00020	mg/L	1	30-Jul-2020 20:57
2-Methylnaphthalene		U	0.000019	0.00010	mg/L	1	30-Jul-2020 20:57
4,6-Dinitro-2-methylphenol		U	0.000020	0.00020	mg/L	1	30-Jul-2020 20:57
4-Nitrophenol		U	0.000047	0.0010	mg/L	1	30-Jul-2020 20:57
Acenaphthene		U	0.000027	0.00010	mg/L	1	30-Jul-2020 20:57
Acenaphthylene		U	0.000015	0.00010	mg/L	1	30-Jul-2020 20:57
Anthracene		U	0.000014	0.00010	mg/L	1	30-Jul-2020 20:57
Benz(a)anthracene		U	0.000050	0.00010	mg/L	1	30-Jul-2020 20:57
Benzo(a)pyrene		U	0.000020	0.00010	mg/L	1	30-Jul-2020 20:57
Bis(2-chloroethoxy)methane		U	0.000030	0.00020	mg/L	1	30-Jul-2020 20:57
Bis(2-ethylhexyl)phthalate	0.000063	J	0.000037	0.00020	mg/L	1	30-Jul-2020 20:57
Chrysene		U	0.000021	0.00010	mg/L	1	30-Jul-2020 20:57
Dibenzofuran		U	0.000020	0.00010	mg/L	1	30-Jul-2020 20:57
Di-n-butyl phthalate		U	0.000020	0.00020	mg/L	1	30-Jul-2020 20:57
Fluoranthene		U	0.000010	0.00010	mg/L	1	30-Jul-2020 20:57
Fluorene		U	0.000030	0.00010	mg/L	1	30-Jul-2020 20:57
Naphthalene	0.00019		0.000020	0.00010	mg/L	1	30-Jul-2020 20:57
Nitrobenzene		U	0.000024	0.00020	mg/L	1	30-Jul-2020 20:57
N-Nitrosodiphenylamine		U	0.000025	0.00020	mg/L	1	30-Jul-2020 20:57
Pentachlorophenol		U	0.000079	0.00020	mg/L	1	30-Jul-2020 20:57
Phenanthrene		U	0.000021	0.00010	mg/L	1	30-Jul-2020 20:57
Phenol	0.000099	J	0.000035	0.00020	mg/L	1	30-Jul-2020 20:57
Pyrene		U	0.000019	0.00010	mg/L	1	30-Jul-2020 20:57
<i>Surr: 2,4,6-Tribromophenol</i>	<i>64.0</i>			<i>34-129</i>	<i>%REC</i>	<i>1</i>	<i>30-Jul-2020 20:57</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>45.1</i>			<i>40-125</i>	<i>%REC</i>	<i>1</i>	<i>30-Jul-2020 20:57</i>
<i>Surr: 2-Fluorophenol</i>	<i>49.3</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>30-Jul-2020 20:57</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>64.8</i>			<i>40-135</i>	<i>%REC</i>	<i>1</i>	<i>30-Jul-2020 20:57</i>
<i>Surr: Nitrobenzene-d5</i>	<i>53.3</i>			<i>41-120</i>	<i>%REC</i>	<i>1</i>	<i>30-Jul-2020 20:57</i>
<i>Surr: Phenol-d6</i>	<i>64.7</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>30-Jul-2020 20:57</i>
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 28-Jul-2020		Analyst: JHD	
Arsenic	0.0278		0.000400	0.00200	mg/L	1	29-Jul-2020 00:22

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW83C-20200722
 Collection Date: 22-Jul-2020 07:35

ANALYTICAL REPORT
 WorkOrder:HS20071089
 Lab ID:HS20071089-12
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	25-Jul-2020 05:57
Benzene	U		0.00020	0.0010	mg/L	1	25-Jul-2020 05:57
Chlorobenzene	U		0.00030	0.0010	mg/L	1	25-Jul-2020 05:57
Ethylbenzene	U		0.00030	0.0010	mg/L	1	25-Jul-2020 05:57
Methylene chloride	U		0.0010	0.0020	mg/L	1	25-Jul-2020 05:57
Toluene	U		0.00020	0.0010	mg/L	1	25-Jul-2020 05:57
Xylenes, Total	U		0.00030	0.0010	mg/L	1	25-Jul-2020 05:57
<i>Surr: 1,2-Dichloroethane-d4</i>		96.4		70-126	%REC	1	25-Jul-2020 05:57
<i>Surr: 4-Bromofluorobenzene</i>		99.1		81-113	%REC	1	25-Jul-2020 05:57
<i>Surr: Dibromofluoromethane</i>		100		77-123	%REC	1	25-Jul-2020 05:57
<i>Surr: Toluene-d8</i>		102		82-127	%REC	1	25-Jul-2020 05:57

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW83C-20200722
 Collection Date: 22-Jul-2020 07:35

ANALYTICAL REPORT
 WorkOrder:HS20071089
 Lab ID:HS20071089-12
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 25-Jul-2020		Analyst: GEY	
1,2-Diphenylhydrazine		U	0.000021	0.00020	mg/L	1	30-Jul-2020 21:16
2,4-Dimethylphenol	0.00061		0.000040	0.00020	mg/L	1	30-Jul-2020 21:16
2,4-Dinitrotoluene		U	0.000058	0.00020	mg/L	1	30-Jul-2020 21:16
2,6-Dinitrotoluene		U	0.000042	0.00020	mg/L	1	30-Jul-2020 21:16
2-Chloronaphthalene		U	0.000021	0.00020	mg/L	1	30-Jul-2020 21:16
2-Methylnaphthalene	0.00019		0.000019	0.00010	mg/L	1	30-Jul-2020 21:16
4,6-Dinitro-2-methylphenol		U	0.000020	0.00020	mg/L	1	30-Jul-2020 21:16
4-Nitrophenol		U	0.000047	0.0010	mg/L	1	30-Jul-2020 21:16
Acenaphthene	0.00029		0.000027	0.00010	mg/L	1	30-Jul-2020 21:16
Acenaphthylene		U	0.000015	0.00010	mg/L	1	30-Jul-2020 21:16
Anthracene	0.000075	J	0.000014	0.00010	mg/L	1	30-Jul-2020 21:16
Benz(a)anthracene		U	0.000050	0.00010	mg/L	1	30-Jul-2020 21:16
Benzo(a)pyrene		U	0.000020	0.00010	mg/L	1	30-Jul-2020 21:16
Bis(2-chloroethoxy)methane		U	0.000030	0.00020	mg/L	1	30-Jul-2020 21:16
Bis(2-ethylhexyl)phthalate	0.000077	J	0.000037	0.00020	mg/L	1	30-Jul-2020 21:16
Chrysene		U	0.000021	0.00010	mg/L	1	30-Jul-2020 21:16
Dibenzofuran	0.00030		0.000020	0.00010	mg/L	1	30-Jul-2020 21:16
Di-n-butyl phthalate		U	0.000020	0.00020	mg/L	1	30-Jul-2020 21:16
Fluoranthene	0.000079	J	0.000010	0.00010	mg/L	1	30-Jul-2020 21:16
Fluorene	0.00026		0.000030	0.00010	mg/L	1	30-Jul-2020 21:16
Naphthalene	0.0020		0.000020	0.00010	mg/L	1	30-Jul-2020 21:16
Nitrobenzene		U	0.000024	0.00020	mg/L	1	30-Jul-2020 21:16
N-Nitrosodiphenylamine		U	0.000025	0.00020	mg/L	1	30-Jul-2020 21:16
Pentachlorophenol		U	0.000079	0.00020	mg/L	1	30-Jul-2020 21:16
Phenanthrene	0.00050		0.000021	0.00010	mg/L	1	30-Jul-2020 21:16
Phenol	0.000099	J	0.000035	0.00020	mg/L	1	30-Jul-2020 21:16
Pyrene		U	0.000019	0.00010	mg/L	1	30-Jul-2020 21:16
<i>Surr: 2,4,6-Tribromophenol</i>	<i>60.9</i>			<i>34-129</i>	<i>%REC</i>	<i>1</i>	<i>30-Jul-2020 21:16</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>42.8</i>			<i>40-125</i>	<i>%REC</i>	<i>1</i>	<i>30-Jul-2020 21:16</i>
<i>Surr: 2-Fluorophenol</i>	<i>50.0</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>30-Jul-2020 21:16</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>74.1</i>			<i>40-135</i>	<i>%REC</i>	<i>1</i>	<i>30-Jul-2020 21:16</i>
<i>Surr: Nitrobenzene-d5</i>	<i>44.2</i>			<i>41-120</i>	<i>%REC</i>	<i>1</i>	<i>30-Jul-2020 21:16</i>
<i>Surr: Phenol-d6</i>	<i>59.1</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>30-Jul-2020 21:16</i>
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 28-Jul-2020		Analyst: JHD	
Arsenic	0.00398		0.000400	0.00200	mg/L	1	29-Jul-2020 00:28

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW83B-20200722
 Collection Date: 22-Jul-2020 08:25

ANALYTICAL REPORT
 WorkOrder:HS20071089
 Lab ID:HS20071089-13
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	25-Jul-2020 06:21
Benzene	0.0070		0.00020	0.0010	mg/L	1	25-Jul-2020 06:21
Chlorobenzene	U		0.00030	0.0010	mg/L	1	25-Jul-2020 06:21
Ethylbenzene	0.027		0.00030	0.0010	mg/L	1	25-Jul-2020 06:21
Methylene chloride	U		0.0010	0.0020	mg/L	1	25-Jul-2020 06:21
Toluene	0.0026		0.00020	0.0010	mg/L	1	25-Jul-2020 06:21
Xylenes, Total	0.031		0.00030	0.0010	mg/L	1	25-Jul-2020 06:21
<i>Surr: 1,2-Dichloroethane-d4</i>	95.6			70-126	%REC	1	25-Jul-2020 06:21
<i>Surr: 4-Bromofluorobenzene</i>	99.2			81-113	%REC	1	25-Jul-2020 06:21
<i>Surr: Dibromofluoromethane</i>	100			77-123	%REC	1	25-Jul-2020 06:21
<i>Surr: Toluene-d8</i>	99.9			82-127	%REC	1	25-Jul-2020 06:21

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW83B-20200722
 Collection Date: 22-Jul-2020 08:25

ANALYTICAL REPORT
 WorkOrder:HS20071089
 Lab ID:HS20071089-13
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 25-Jul-2020		Analyst: GEY	
1,2-Diphenylhydrazine		U	0.000021	0.00020	mg/L	1	30-Jul-2020 21:36
2,4-Dimethylphenol	0.00076		0.000040	0.00020	mg/L	1	30-Jul-2020 21:36
2,4-Dinitrotoluene		U	0.000058	0.00020	mg/L	1	30-Jul-2020 21:36
2,6-Dinitrotoluene		U	0.000042	0.00020	mg/L	1	30-Jul-2020 21:36
2-Chloronaphthalene		U	0.000021	0.00020	mg/L	1	30-Jul-2020 21:36
2-Methylnaphthalene	0.015		0.00038	0.0020	mg/L	20	31-Jul-2020 15:33
4,6-Dinitro-2-methylphenol		U	0.000020	0.00020	mg/L	1	30-Jul-2020 21:36
4-Nitrophenol		U	0.000047	0.0010	mg/L	1	30-Jul-2020 21:36
Acenaphthene	0.0080		0.000027	0.00010	mg/L	1	30-Jul-2020 21:36
Acenaphthylene	0.000099	J	0.000015	0.00010	mg/L	1	30-Jul-2020 21:36
Anthracene	0.00043		0.000014	0.00010	mg/L	1	30-Jul-2020 21:36
Benz(a)anthracene		U	0.000050	0.00010	mg/L	1	30-Jul-2020 21:36
Benzo(a)pyrene		U	0.000020	0.00010	mg/L	1	30-Jul-2020 21:36
Bis(2-chloroethoxy)methane		U	0.000030	0.00020	mg/L	1	30-Jul-2020 21:36
Bis(2-ethylhexyl)phthalate		U	0.000037	0.00020	mg/L	1	30-Jul-2020 21:36
Chrysene		U	0.000021	0.00010	mg/L	1	30-Jul-2020 21:36
Dibenzofuran	0.0050		0.000020	0.00010	mg/L	1	30-Jul-2020 21:36
Di-n-butyl phthalate		U	0.000020	0.00020	mg/L	1	30-Jul-2020 21:36
Fluoranthene	0.00012		0.000010	0.00010	mg/L	1	30-Jul-2020 21:36
Fluorene	0.0030		0.000030	0.00010	mg/L	1	30-Jul-2020 21:36
Naphthalene	0.16		0.00040	0.0020	mg/L	20	31-Jul-2020 15:33
Nitrobenzene		U	0.000024	0.00020	mg/L	1	30-Jul-2020 21:36
N-Nitrosodiphenylamine		U	0.000025	0.00020	mg/L	1	30-Jul-2020 21:36
Pentachlorophenol		U	0.000079	0.00020	mg/L	1	30-Jul-2020 21:36
Phenanthrene	0.0031		0.000021	0.00010	mg/L	1	30-Jul-2020 21:36
Phenol	0.00046		0.000035	0.00020	mg/L	1	30-Jul-2020 21:36
Pyrene	0.000069	J	0.000019	0.00010	mg/L	1	30-Jul-2020 21:36
Surr: 2,4,6-Tribromophenol	69.4			34-129	%REC	1	30-Jul-2020 21:36
Surr: 2,4,6-Tribromophenol	82.8			34-129	%REC	20	31-Jul-2020 15:33
Surr: 2-Fluorobiphenyl	49.0	J		40-125	%REC	20	31-Jul-2020 15:33
Surr: 2-Fluorobiphenyl	43.6			40-125	%REC	1	30-Jul-2020 21:36
Surr: 2-Fluorophenol	45.9			20-120	%REC	1	30-Jul-2020 21:36
Surr: 2-Fluorophenol	34.2	J		20-120	%REC	20	31-Jul-2020 15:33
Surr: 4-Terphenyl-d14	79.1	J		40-135	%REC	20	31-Jul-2020 15:33
Surr: 4-Terphenyl-d14	72.4			40-135	%REC	1	30-Jul-2020 21:36
Surr: Nitrobenzene-d5	46.6	J		41-120	%REC	20	31-Jul-2020 15:33
Surr: Nitrobenzene-d5	50.8			41-120	%REC	1	30-Jul-2020 21:36
Surr: Phenol-d6	54.3			20-120	%REC	1	30-Jul-2020 21:36
Surr: Phenol-d6	65.2	J		20-120	%REC	20	31-Jul-2020 15:33

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW83B-20200722
 Collection Date: 22-Jul-2020 08:25

ANALYTICAL REPORT

WorkOrder:HS20071089
 Lab ID:HS20071089-13
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020			Prep:SW3010A / 28-Jul-2020		Analyst: JHD
Arsenic	0.0342		0.000400	0.00200	mg/L	1	29-Jul-2020 00:29

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-DUP02-20200722
 Collection Date: 22-Jul-2020 08:25

ANALYTICAL REPORT
 WorkOrder:HS20071089
 Lab ID:HS20071089-14
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	25-Jul-2020 06:44
Benzene	0.0026		0.00020	0.0010	mg/L	1	25-Jul-2020 06:44
Chlorobenzene	U		0.00030	0.0010	mg/L	1	25-Jul-2020 06:44
Ethylbenzene	0.019		0.00030	0.0010	mg/L	1	25-Jul-2020 06:44
Methylene chloride	U		0.0010	0.0020	mg/L	1	25-Jul-2020 06:44
Toluene	0.0015		0.00020	0.0010	mg/L	1	25-Jul-2020 06:44
Xylenes, Total	0.021		0.00030	0.0010	mg/L	1	25-Jul-2020 06:44
<i>Surr: 1,2-Dichloroethane-d4</i>	96.6			70-126	%REC	1	25-Jul-2020 06:44
<i>Surr: 4-Bromofluorobenzene</i>	99.1			81-113	%REC	1	25-Jul-2020 06:44
<i>Surr: Dibromofluoromethane</i>	102			77-123	%REC	1	25-Jul-2020 06:44
<i>Surr: Toluene-d8</i>	100			82-127	%REC	1	25-Jul-2020 06:44

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-DUP02-20200722
 Collection Date: 22-Jul-2020 08:25

ANALYTICAL REPORT
 WorkOrder:HS20071089
 Lab ID:HS20071089-14
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 25-Jul-2020		Analyst: GEY	
1,2-Diphenylhydrazine	U		0.000021	0.00020	mg/L	1	30-Jul-2020 21:55
2,4-Dimethylphenol	0.00050		0.000040	0.00020	mg/L	1	30-Jul-2020 21:55
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	30-Jul-2020 21:55
2,6-Dinitrotoluene	U		0.000042	0.00020	mg/L	1	30-Jul-2020 21:55
2-Chloronaphthalene	U		0.000021	0.00020	mg/L	1	30-Jul-2020 21:55
2-Methylnaphthalene	0.025		0.00019	0.0010	mg/L	10	31-Jul-2020 15:53
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	30-Jul-2020 21:55
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	30-Jul-2020 21:55
Acenaphthene	0.014		0.00027	0.0010	mg/L	10	31-Jul-2020 15:53
Acenaphthylene	0.00012		0.000015	0.00010	mg/L	1	30-Jul-2020 21:55
Anthracene	0.00057		0.000014	0.00010	mg/L	1	30-Jul-2020 21:55
Benz(a)anthracene	U		0.000050	0.00010	mg/L	1	30-Jul-2020 21:55
Benzo(a)pyrene	U		0.000020	0.00010	mg/L	1	30-Jul-2020 21:55
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	30-Jul-2020 21:55
Bis(2-ethylhexyl)phthalate	0.000061	J	0.000037	0.00020	mg/L	1	30-Jul-2020 21:55
Chrysene	U		0.000021	0.00010	mg/L	1	30-Jul-2020 21:55
Dibenzofuran	0.0077		0.000020	0.00010	mg/L	1	30-Jul-2020 21:55
Di-n-butyl phthalate	U		0.000020	0.00020	mg/L	1	30-Jul-2020 21:55
Fluoranthene	0.00018		0.000010	0.00010	mg/L	1	30-Jul-2020 21:55
Fluorene	0.0050		0.000030	0.00010	mg/L	1	30-Jul-2020 21:55
Naphthalene	0.32		0.0020	0.010	mg/L	100	31-Jul-2020 16:12
Nitrobenzene	U		0.000024	0.00020	mg/L	1	30-Jul-2020 21:55
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	30-Jul-2020 21:55
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	30-Jul-2020 21:55
Phenanthrene	0.0045		0.000021	0.00010	mg/L	1	30-Jul-2020 21:55
Phenol	0.00015	J	0.000035	0.00020	mg/L	1	30-Jul-2020 21:55
Pyrene	0.00010		0.000019	0.00010	mg/L	1	30-Jul-2020 21:55
Surr: 2,4,6-Tribromophenol	0	JS		34-129	%REC	100	31-Jul-2020 16:12
Surr: 2,4,6-Tribromophenol	64.9			34-129	%REC	10	31-Jul-2020 15:53
Surr: 2,4,6-Tribromophenol	64.0			34-129	%REC	1	30-Jul-2020 21:55
Surr: 2-Fluorobiphenyl	42.7			40-125	%REC	1	30-Jul-2020 21:55
Surr: 2-Fluorobiphenyl	48.2			40-125	%REC	10	31-Jul-2020 15:53
Surr: 2-Fluorobiphenyl	0	JS		40-125	%REC	100	31-Jul-2020 16:12
Surr: 2-Fluorophenol	0	JS		20-120	%REC	100	31-Jul-2020 16:12
Surr: 2-Fluorophenol	32.7	J		20-120	%REC	10	31-Jul-2020 15:53
Surr: 2-Fluorophenol	43.6			20-120	%REC	1	30-Jul-2020 21:55
Surr: 4-Terphenyl-d14	68.8			40-135	%REC	1	30-Jul-2020 21:55
Surr: 4-Terphenyl-d14	80.4			40-135	%REC	10	31-Jul-2020 15:53
Surr: 4-Terphenyl-d14	0	JS		40-135	%REC	100	31-Jul-2020 16:12

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-DUP02-20200722
 Collection Date: 22-Jul-2020 08:25

ANALYTICAL REPORT
 WorkOrder:HS20071089
 Lab ID:HS20071089-14
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 25-Jul-2020		Analyst: GEY	
Surr: Nitrobenzene-d5	48.8			41-120	%REC	10	31-Jul-2020 15:53
Surr: Nitrobenzene-d5	47.3			41-120	%REC	1	30-Jul-2020 21:55
Surr: Nitrobenzene-d5	0	JS		41-120	%REC	100	31-Jul-2020 16:12
Surr: Phenol-d6	0	JS		20-120	%REC	100	31-Jul-2020 16:12
Surr: Phenol-d6	43.5			20-120	%REC	10	31-Jul-2020 15:53
Surr: Phenol-d6	51.8			20-120	%REC	1	30-Jul-2020 21:55
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 28-Jul-2020		Analyst: JHD	
Arsenic	0.00371		0.000400	0.00200	mg/L	1	29-Jul-2020 00:31

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW25A-20200722
 Collection Date: 22-Jul-2020 09:20

ANALYTICAL REPORT
 WorkOrder:HS20071089
 Lab ID:HS20071089-15
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MLL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	25-Jul-2020 07:08
Benzene	U		0.00020	0.0010	mg/L	1	25-Jul-2020 07:08
Chlorobenzene	U		0.00030	0.0010	mg/L	1	25-Jul-2020 07:08
Ethylbenzene	U		0.00030	0.0010	mg/L	1	25-Jul-2020 07:08
Methylene chloride	U		0.0010	0.0020	mg/L	1	25-Jul-2020 07:08
Toluene	U		0.00020	0.0010	mg/L	1	25-Jul-2020 07:08
Vinyl chloride	U		0.00020	0.0010	mg/L	1	25-Jul-2020 07:08
Xylenes, Total	U		0.00030	0.0010	mg/L	1	25-Jul-2020 07:08
<i>Surr: 1,2-Dichloroethane-d4</i>		<i>97.3</i>		<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 07:08</i>
<i>Surr: 4-Bromofluorobenzene</i>		<i>99.3</i>		<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 07:08</i>
<i>Surr: Dibromofluoromethane</i>		<i>101</i>		<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 07:08</i>
<i>Surr: Toluene-d8</i>		<i>102</i>		<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 07:08</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW25A-20200722
 Collection Date: 22-Jul-2020 09:20

ANALYTICAL REPORT
 WorkOrder:HS20071089
 Lab ID:HS20071089-15
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 25-Jul-2020		Analyst: GEY	
1,2-Diphenylhydrazine	U		0.000021	0.00020	mg/L	1	30-Jul-2020 22:15
2,4-Dimethylphenol	U		0.000040	0.00020	mg/L	1	30-Jul-2020 22:15
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	30-Jul-2020 22:15
2,6-Dinitrotoluene	U		0.000042	0.00020	mg/L	1	30-Jul-2020 22:15
2-Chloronaphthalene	U		0.000021	0.00020	mg/L	1	30-Jul-2020 22:15
2-Methylnaphthalene	0.00015		0.000019	0.00010	mg/L	1	30-Jul-2020 22:15
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	30-Jul-2020 22:15
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	30-Jul-2020 22:15
Acenaphthene	0.000078	J	0.000027	0.00010	mg/L	1	30-Jul-2020 22:15
Acenaphthylene	U		0.000015	0.00010	mg/L	1	30-Jul-2020 22:15
Anthracene	U		0.000014	0.00010	mg/L	1	30-Jul-2020 22:15
Benz(a)anthracene	U		0.000050	0.00010	mg/L	1	30-Jul-2020 22:15
Benzo(a)pyrene	U		0.000020	0.00010	mg/L	1	30-Jul-2020 22:15
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	30-Jul-2020 22:15
Bis(2-ethylhexyl)phthalate	0.000054	J	0.000037	0.00020	mg/L	1	30-Jul-2020 22:15
Chrysene	U		0.000021	0.00010	mg/L	1	30-Jul-2020 22:15
Dibenzofuran	0.00011		0.000020	0.00010	mg/L	1	30-Jul-2020 22:15
Di-n-butyl phthalate	U		0.000020	0.00020	mg/L	1	30-Jul-2020 22:15
Fluoranthene	0.000075	J	0.000010	0.00010	mg/L	1	30-Jul-2020 22:15
Fluorene	0.000090	J	0.000030	0.00010	mg/L	1	30-Jul-2020 22:15
Naphthalene	0.0010		0.000020	0.00010	mg/L	1	30-Jul-2020 22:15
Nitrobenzene	U		0.000024	0.00020	mg/L	1	30-Jul-2020 22:15
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	30-Jul-2020 22:15
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	30-Jul-2020 22:15
Phenanthrene	0.00016		0.000021	0.00010	mg/L	1	30-Jul-2020 22:15
Phenol	0.000069	J	0.000035	0.00020	mg/L	1	30-Jul-2020 22:15
Pyrene	0.000057	J	0.000019	0.00010	mg/L	1	30-Jul-2020 22:15
Surr: 2,4,6-Tribromophenol	71.5			34-129	%REC	1	30-Jul-2020 22:15
Surr: 2-Fluorobiphenyl	55.3			40-125	%REC	1	30-Jul-2020 22:15
Surr: 2-Fluorophenol	55.6			20-120	%REC	1	30-Jul-2020 22:15
Surr: 4-Terphenyl-d14	87.8			40-135	%REC	1	30-Jul-2020 22:15
Surr: Nitrobenzene-d5	64.1			41-120	%REC	1	30-Jul-2020 22:15
Surr: Phenol-d6	67.4			20-120	%REC	1	30-Jul-2020 22:15
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 28-Jul-2020		Analyst: JHD	
Arsenic	0.00190	J	0.000400	0.00200	mg/L	1	29-Jul-2020 00:33

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW25C-20200722
 Collection Date: 22-Jul-2020 10:10

ANALYTICAL REPORT
 WorkOrder:HS20071089
 Lab ID:HS20071089-16
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MLL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane		U	0.00020	0.0010	mg/L	1	25-Jul-2020 07:32
Benzene	0.0016		0.00020	0.0010	mg/L	1	25-Jul-2020 07:32
Chlorobenzene		U	0.00030	0.0010	mg/L	1	25-Jul-2020 07:32
Ethylbenzene	0.029		0.00030	0.0010	mg/L	1	25-Jul-2020 07:32
Methylene chloride		U	0.0010	0.0020	mg/L	1	25-Jul-2020 07:32
Toluene	0.0081		0.00020	0.0010	mg/L	1	25-Jul-2020 07:32
Vinyl chloride		U	0.00020	0.0010	mg/L	1	25-Jul-2020 07:32
Xylenes, Total	0.19		0.00030	0.0010	mg/L	1	25-Jul-2020 07:32
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>96.2</i>			<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 07:32</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>102</i>			<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 07:32</i>
<i>Surr: Dibromofluoromethane</i>	<i>100</i>			<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 07:32</i>
<i>Surr: Toluene-d8</i>	<i>99.8</i>			<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 07:32</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW25C-20200722
 Collection Date: 22-Jul-2020 10:10

ANALYTICAL REPORT
 WorkOrder:HS20071089
 Lab ID:HS20071089-16
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 25-Jul-2020		Analyst: GEY	
1,2-Diphenylhydrazine		U	0.00021	0.0020	mg/L	10	30-Jul-2020 22:34
2,4-Dimethylphenol	0.018		0.00040	0.0020	mg/L	10	30-Jul-2020 22:34
2,4-Dinitrotoluene		U	0.00058	0.0020	mg/L	10	30-Jul-2020 22:34
2,6-Dinitrotoluene		U	0.00042	0.0020	mg/L	10	30-Jul-2020 22:34
2-Chloronaphthalene		U	0.00021	0.0020	mg/L	10	30-Jul-2020 22:34
2-Methylnaphthalene	0.51		0.0019	0.010	mg/L	100	31-Jul-2020 16:32
4,6-Dinitro-2-methylphenol	0.00065	J	0.00020	0.0020	mg/L	10	30-Jul-2020 22:34
4-Nitrophenol		U	0.00047	0.010	mg/L	10	30-Jul-2020 22:34
Acenaphthene	0.099		0.00027	0.0010	mg/L	10	30-Jul-2020 22:34
Acenaphthylene	0.0016		0.00015	0.0010	mg/L	10	30-Jul-2020 22:34
Anthracene	0.012		0.00014	0.0010	mg/L	10	30-Jul-2020 22:34
Benz(a)anthracene	0.0013		0.00050	0.0010	mg/L	10	30-Jul-2020 22:34
Benzo(a)pyrene	0.00043	J	0.00020	0.0010	mg/L	10	30-Jul-2020 22:34
Bis(2-chloroethoxy)methane		U	0.00030	0.0020	mg/L	10	30-Jul-2020 22:34
Bis(2-ethylhexyl)phthalate		U	0.00037	0.0020	mg/L	10	30-Jul-2020 22:34
Chrysene	0.00099	J	0.00021	0.0010	mg/L	10	30-Jul-2020 22:34
Dibenzofuran	0.094		0.00020	0.0010	mg/L	10	30-Jul-2020 22:34
Di-n-butyl phthalate		U	0.00020	0.0020	mg/L	10	30-Jul-2020 22:34
Fluoranthene	0.010		0.00010	0.0010	mg/L	10	30-Jul-2020 22:34
Fluorene	0.051		0.00030	0.0010	mg/L	10	30-Jul-2020 22:34
Naphthalene	2.4		0.020	0.10	mg/L	1000	31-Jul-2020 16:51
Nitrobenzene		U	0.00024	0.0020	mg/L	10	30-Jul-2020 22:34
N-Nitrosodiphenylamine		U	0.00025	0.0020	mg/L	10	30-Jul-2020 22:34
Pentachlorophenol		U	0.00079	0.0020	mg/L	10	30-Jul-2020 22:34
Phenanthrene	0.073		0.00021	0.0010	mg/L	10	30-Jul-2020 22:34
Phenol	0.0080		0.00035	0.0020	mg/L	10	30-Jul-2020 22:34
Pyrene	0.0060		0.00019	0.0010	mg/L	10	30-Jul-2020 22:34
<i>Surr: 2,4,6-Tribromophenol</i>	<i>0</i>	<i>JS</i>		<i>34-129</i>	<i>%REC</i>	<i>100</i>	<i>31-Jul-2020 16:32</i>
<i>Surr: 2,4,6-Tribromophenol</i>	<i>0</i>	<i>JS</i>		<i>34-129</i>	<i>%REC</i>	<i>1000</i>	<i>31-Jul-2020 16:51</i>
<i>Surr: 2,4,6-Tribromophenol</i>	<i>69.8</i>			<i>34-129</i>	<i>%REC</i>	<i>10</i>	<i>30-Jul-2020 22:34</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>47.8</i>			<i>40-125</i>	<i>%REC</i>	<i>10</i>	<i>30-Jul-2020 22:34</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>0</i>	<i>JS</i>		<i>40-125</i>	<i>%REC</i>	<i>1000</i>	<i>31-Jul-2020 16:51</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>0</i>	<i>JS</i>		<i>40-125</i>	<i>%REC</i>	<i>100</i>	<i>31-Jul-2020 16:32</i>
<i>Surr: 2-Fluorophenol</i>	<i>0</i>	<i>JS</i>		<i>20-120</i>	<i>%REC</i>	<i>100</i>	<i>31-Jul-2020 16:32</i>
<i>Surr: 2-Fluorophenol</i>	<i>0</i>	<i>JS</i>		<i>20-120</i>	<i>%REC</i>	<i>1000</i>	<i>31-Jul-2020 16:51</i>
<i>Surr: 2-Fluorophenol</i>	<i>48.4</i>			<i>20-120</i>	<i>%REC</i>	<i>10</i>	<i>30-Jul-2020 22:34</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>67.1</i>			<i>40-135</i>	<i>%REC</i>	<i>10</i>	<i>30-Jul-2020 22:34</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>0</i>	<i>JS</i>		<i>40-135</i>	<i>%REC</i>	<i>1000</i>	<i>31-Jul-2020 16:51</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>0</i>	<i>JS</i>		<i>40-135</i>	<i>%REC</i>	<i>100</i>	<i>31-Jul-2020 16:32</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW25C-20200722
 Collection Date: 22-Jul-2020 10:10

ANALYTICAL REPORT
 WorkOrder:HS20071089
 Lab ID:HS20071089-16
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 25-Jul-2020		Analyst: GEY	
Surr: Nitrobenzene-d5	0	JS		41-120	%REC	1000	31-Jul-2020 16:51
Surr: Nitrobenzene-d5	0	JS		41-120	%REC	100	31-Jul-2020 16:32
Surr: Nitrobenzene-d5	53.1			41-120	%REC	10	30-Jul-2020 22:34
Surr: Phenol-d6	55.4			20-120	%REC	10	30-Jul-2020 22:34
Surr: Phenol-d6	0	JS		20-120	%REC	100	31-Jul-2020 16:32
Surr: Phenol-d6	0	JS		20-120	%REC	1000	31-Jul-2020 16:51
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 28-Jul-2020		Analyst: JHD	
Arsenic	0.00433		0.000400	0.00200	mg/L	1	29-Jul-2020 00:35

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW93B-20200722
 Collection Date: 22-Jul-2020 08:45

ANALYTICAL REPORT

WorkOrder:HS20071089
 Lab ID:HS20071089-17
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	25-Jul-2020 07:55
Benzene	U		0.00020	0.0010	mg/L	1	25-Jul-2020 07:55
Chlorobenzene	U		0.00030	0.0010	mg/L	1	25-Jul-2020 07:55
Ethylbenzene	U		0.00030	0.0010	mg/L	1	25-Jul-2020 07:55
Methylene chloride	U		0.0010	0.0020	mg/L	1	25-Jul-2020 07:55
Toluene	U		0.00020	0.0010	mg/L	1	25-Jul-2020 07:55
Xylenes, Total	U		0.00030	0.0010	mg/L	1	25-Jul-2020 07:55
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>95.8</i>			<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 07:55</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>99.1</i>			<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 07:55</i>
<i>Surr: Dibromofluoromethane</i>	<i>101</i>			<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 07:55</i>
<i>Surr: Toluene-d8</i>	<i>102</i>			<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 07:55</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW93B-20200722
 Collection Date: 22-Jul-2020 08:45

ANALYTICAL REPORT
 WorkOrder:HS20071089
 Lab ID:HS20071089-17
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 25-Jul-2020		Analyst: GEY	
1,2-Diphenylhydrazine	U		0.000021	0.00020	mg/L	1	30-Jul-2020 22:54
2,4-Dimethylphenol	U		0.000040	0.00020	mg/L	1	30-Jul-2020 22:54
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	30-Jul-2020 22:54
2,6-Dinitrotoluene	U		0.000042	0.00020	mg/L	1	30-Jul-2020 22:54
2-Chloronaphthalene	U		0.000021	0.00020	mg/L	1	30-Jul-2020 22:54
2-Methylnaphthalene	U		0.000019	0.00010	mg/L	1	30-Jul-2020 22:54
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	30-Jul-2020 22:54
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	30-Jul-2020 22:54
Acenaphthene	U		0.000027	0.00010	mg/L	1	30-Jul-2020 22:54
Acenaphthylene	U		0.000015	0.00010	mg/L	1	30-Jul-2020 22:54
Anthracene	U		0.000014	0.00010	mg/L	1	30-Jul-2020 22:54
Benz(a)anthracene	U		0.000050	0.00010	mg/L	1	30-Jul-2020 22:54
Benzo(a)pyrene	U		0.000020	0.00010	mg/L	1	30-Jul-2020 22:54
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	30-Jul-2020 22:54
Bis(2-ethylhexyl)phthalate	0.00013	J	0.000037	0.00020	mg/L	1	30-Jul-2020 22:54
Chrysene	U		0.000021	0.00010	mg/L	1	30-Jul-2020 22:54
Dibenzofuran	U		0.000020	0.00010	mg/L	1	30-Jul-2020 22:54
Di-n-butyl phthalate	0.000052	J	0.000020	0.00020	mg/L	1	30-Jul-2020 22:54
Fluoranthene	U		0.000010	0.00010	mg/L	1	30-Jul-2020 22:54
Fluorene	U		0.000030	0.00010	mg/L	1	30-Jul-2020 22:54
Naphthalene	U		0.000020	0.00010	mg/L	1	30-Jul-2020 22:54
Nitrobenzene	U		0.000024	0.00020	mg/L	1	30-Jul-2020 22:54
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	30-Jul-2020 22:54
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	30-Jul-2020 22:54
Phenanthrene	U		0.000021	0.00010	mg/L	1	30-Jul-2020 22:54
Phenol	U		0.000035	0.00020	mg/L	1	30-Jul-2020 22:54
Pyrene	U		0.000019	0.00010	mg/L	1	30-Jul-2020 22:54
<i>Surr: 2,4,6-Tribromophenol</i>	<i>83.4</i>			<i>34-129</i>	<i>%REC</i>	<i>1</i>	<i>30-Jul-2020 22:54</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>56.1</i>			<i>40-125</i>	<i>%REC</i>	<i>1</i>	<i>30-Jul-2020 22:54</i>
<i>Surr: 2-Fluorophenol</i>	<i>63.2</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>30-Jul-2020 22:54</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>88.3</i>			<i>40-135</i>	<i>%REC</i>	<i>1</i>	<i>30-Jul-2020 22:54</i>
<i>Surr: Nitrobenzene-d5</i>	<i>66.1</i>			<i>41-120</i>	<i>%REC</i>	<i>1</i>	<i>30-Jul-2020 22:54</i>
<i>Surr: Phenol-d6</i>	<i>72.8</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>30-Jul-2020 22:54</i>
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 28-Jul-2020		Analyst: JHD	
Arsenic	0.00967		0.000400	0.00200	mg/L	1	29-Jul-2020 00:37

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW90B-20200722
 Collection Date: 22-Jul-2020 09:45

ANALYTICAL REPORT
 WorkOrder:HS20071089
 Lab ID:HS20071089-18
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	25-Jul-2020 08:19
Benzene	U		0.00020	0.0010	mg/L	1	25-Jul-2020 08:19
Chlorobenzene	U		0.00030	0.0010	mg/L	1	25-Jul-2020 08:19
Ethylbenzene	U		0.00030	0.0010	mg/L	1	25-Jul-2020 08:19
Methylene chloride	U		0.0010	0.0020	mg/L	1	25-Jul-2020 08:19
Toluene	U		0.00020	0.0010	mg/L	1	25-Jul-2020 08:19
Xylenes, Total	U		0.00030	0.0010	mg/L	1	25-Jul-2020 08:19
<i>Surr: 1,2-Dichloroethane-d4</i>		<i>95.7</i>		<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 08:19</i>
<i>Surr: 4-Bromofluorobenzene</i>		<i>100.0</i>		<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 08:19</i>
<i>Surr: Dibromofluoromethane</i>		<i>99.9</i>		<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 08:19</i>
<i>Surr: Toluene-d8</i>		<i>102</i>		<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 08:19</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW90B-20200722
 Collection Date: 22-Jul-2020 09:45

ANALYTICAL REPORT
 WorkOrder:HS20071089
 Lab ID:HS20071089-18
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 25-Jul-2020		Analyst: GEY	
1,2-Diphenylhydrazine	U		0.000021	0.00020	mg/L	1	30-Jul-2020 23:13
2,4-Dimethylphenol	U		0.000040	0.00020	mg/L	1	30-Jul-2020 23:13
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	30-Jul-2020 23:13
2,6-Dinitrotoluene	U		0.000042	0.00020	mg/L	1	30-Jul-2020 23:13
2-Chloronaphthalene	U		0.000021	0.00020	mg/L	1	30-Jul-2020 23:13
2-Methylnaphthalene	U		0.000019	0.00010	mg/L	1	30-Jul-2020 23:13
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	30-Jul-2020 23:13
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	30-Jul-2020 23:13
Acenaphthene	U		0.000027	0.00010	mg/L	1	30-Jul-2020 23:13
Acenaphthylene	U		0.000015	0.00010	mg/L	1	30-Jul-2020 23:13
Anthracene	U		0.000014	0.00010	mg/L	1	30-Jul-2020 23:13
Benz(a)anthracene	U		0.000050	0.00010	mg/L	1	30-Jul-2020 23:13
Benzo(a)pyrene	U		0.000020	0.00010	mg/L	1	30-Jul-2020 23:13
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	30-Jul-2020 23:13
Bis(2-ethylhexyl)phthalate	U		0.000037	0.00020	mg/L	1	30-Jul-2020 23:13
Chrysene	U		0.000021	0.00010	mg/L	1	30-Jul-2020 23:13
Dibenzofuran	U		0.000020	0.00010	mg/L	1	30-Jul-2020 23:13
Di-n-butyl phthalate	0.000071	J	0.000020	0.00020	mg/L	1	30-Jul-2020 23:13
Fluoranthene	0.000055	J	0.000010	0.00010	mg/L	1	30-Jul-2020 23:13
Fluorene	U		0.000030	0.00010	mg/L	1	30-Jul-2020 23:13
Naphthalene	U		0.000020	0.00010	mg/L	1	30-Jul-2020 23:13
Nitrobenzene	U		0.000024	0.00020	mg/L	1	30-Jul-2020 23:13
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	30-Jul-2020 23:13
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	30-Jul-2020 23:13
Phenanthrene	0.000040	J	0.000021	0.00010	mg/L	1	30-Jul-2020 23:13
Phenol	U		0.000035	0.00020	mg/L	1	30-Jul-2020 23:13
Pyrene	U		0.000019	0.00010	mg/L	1	30-Jul-2020 23:13
<i>Surr: 2,4,6-Tribromophenol</i>	<i>51.3</i>			<i>34-129</i>	<i>%REC</i>	<i>1</i>	<i>30-Jul-2020 23:13</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>42.5</i>			<i>40-125</i>	<i>%REC</i>	<i>1</i>	<i>30-Jul-2020 23:13</i>
<i>Surr: 2-Fluorophenol</i>	<i>50.3</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>30-Jul-2020 23:13</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>73.6</i>			<i>40-135</i>	<i>%REC</i>	<i>1</i>	<i>30-Jul-2020 23:13</i>
<i>Surr: Nitrobenzene-d5</i>	<i>51.6</i>			<i>41-120</i>	<i>%REC</i>	<i>1</i>	<i>30-Jul-2020 23:13</i>
<i>Surr: Phenol-d6</i>	<i>65.9</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>30-Jul-2020 23:13</i>
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 28-Jul-2020		Analyst: JHD	
Arsenic	0.00814		0.000400	0.00200	mg/L	1	29-Jul-2020 00:39

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW92B-20200722
 Collection Date: 22-Jul-2020 10:35

ANALYTICAL REPORT
 WorkOrder:HS20071089
 Lab ID:HS20071089-19
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	25-Jul-2020 08:42
Benzene	U		0.00020	0.0010	mg/L	1	25-Jul-2020 08:42
Chlorobenzene	U		0.00030	0.0010	mg/L	1	25-Jul-2020 08:42
Ethylbenzene	U		0.00030	0.0010	mg/L	1	25-Jul-2020 08:42
Methylene chloride	U		0.0010	0.0020	mg/L	1	25-Jul-2020 08:42
Toluene	U		0.00020	0.0010	mg/L	1	25-Jul-2020 08:42
Xylenes, Total	U		0.00030	0.0010	mg/L	1	25-Jul-2020 08:42
<i>Surr: 1,2-Dichloroethane-d4</i>		96.2		70-126	%REC	1	25-Jul-2020 08:42
<i>Surr: 4-Bromofluorobenzene</i>		99.0		81-113	%REC	1	25-Jul-2020 08:42
<i>Surr: Dibromofluoromethane</i>		101		77-123	%REC	1	25-Jul-2020 08:42
<i>Surr: Toluene-d8</i>		102		82-127	%REC	1	25-Jul-2020 08:42

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW92B-20200722
 Collection Date: 22-Jul-2020 10:35

ANALYTICAL REPORT
 WorkOrder:HS20071089
 Lab ID:HS20071089-19
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 25-Jul-2020		Analyst: GEY	
1,2-Diphenylhydrazine	U		0.000021	0.00020	mg/L	1	30-Jul-2020 23:32
2,4-Dimethylphenol	U		0.000040	0.00020	mg/L	1	30-Jul-2020 23:32
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	30-Jul-2020 23:32
2,6-Dinitrotoluene	U		0.000042	0.00020	mg/L	1	30-Jul-2020 23:32
2-Chloronaphthalene	U		0.000021	0.00020	mg/L	1	30-Jul-2020 23:32
2-Methylnaphthalene	U		0.000019	0.00010	mg/L	1	30-Jul-2020 23:32
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	30-Jul-2020 23:32
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	30-Jul-2020 23:32
Acenaphthene	U		0.000027	0.00010	mg/L	1	30-Jul-2020 23:32
Acenaphthylene	U		0.000015	0.00010	mg/L	1	30-Jul-2020 23:32
Anthracene	U		0.000014	0.00010	mg/L	1	30-Jul-2020 23:32
Benz(a)anthracene	U		0.000050	0.00010	mg/L	1	30-Jul-2020 23:32
Benzo(a)pyrene	U		0.000020	0.00010	mg/L	1	30-Jul-2020 23:32
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	30-Jul-2020 23:32
Bis(2-ethylhexyl)phthalate	U		0.000037	0.00020	mg/L	1	30-Jul-2020 23:32
Chrysene	U		0.000021	0.00010	mg/L	1	30-Jul-2020 23:32
Dibenzofuran	U		0.000020	0.00010	mg/L	1	30-Jul-2020 23:32
Di-n-butyl phthalate	U		0.000020	0.00020	mg/L	1	30-Jul-2020 23:32
Fluoranthene	U		0.000010	0.00010	mg/L	1	30-Jul-2020 23:32
Fluorene	U		0.000030	0.00010	mg/L	1	30-Jul-2020 23:32
Naphthalene	0.00010		0.000020	0.00010	mg/L	1	30-Jul-2020 23:32
Nitrobenzene	U		0.000024	0.00020	mg/L	1	30-Jul-2020 23:32
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	30-Jul-2020 23:32
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	30-Jul-2020 23:32
Phenanthrene	U		0.000021	0.00010	mg/L	1	30-Jul-2020 23:32
Phenol	U		0.000035	0.00020	mg/L	1	30-Jul-2020 23:32
Pyrene	U		0.000019	0.00010	mg/L	1	30-Jul-2020 23:32
<i>Surr: 2,4,6-Tribromophenol</i>	<i>66.8</i>			<i>34-129</i>	<i>%REC</i>	<i>1</i>	<i>30-Jul-2020 23:32</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>48.7</i>			<i>40-125</i>	<i>%REC</i>	<i>1</i>	<i>30-Jul-2020 23:32</i>
<i>Surr: 2-Fluorophenol</i>	<i>49.0</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>30-Jul-2020 23:32</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>94.1</i>			<i>40-135</i>	<i>%REC</i>	<i>1</i>	<i>30-Jul-2020 23:32</i>
<i>Surr: Nitrobenzene-d5</i>	<i>56.4</i>			<i>41-120</i>	<i>%REC</i>	<i>1</i>	<i>30-Jul-2020 23:32</i>
<i>Surr: Phenol-d6</i>	<i>61.5</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>30-Jul-2020 23:32</i>
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 28-Jul-2020		Analyst: JHD	
Arsenic	0.00478		0.000400	0.00200	mg/L	1	29-Jul-2020 00:41

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW89B-20200722
 Collection Date: 22-Jul-2020 11:25

ANALYTICAL REPORT

WorkOrder:HS20071089
 Lab ID:HS20071089-20
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	25-Jul-2020 09:06
Benzene	U		0.00020	0.0010	mg/L	1	25-Jul-2020 09:06
Chlorobenzene	U		0.00030	0.0010	mg/L	1	25-Jul-2020 09:06
Ethylbenzene	U		0.00030	0.0010	mg/L	1	25-Jul-2020 09:06
Methylene chloride	U		0.0010	0.0020	mg/L	1	25-Jul-2020 09:06
Toluene	U		0.00020	0.0010	mg/L	1	25-Jul-2020 09:06
Xylenes, Total	U		0.00030	0.0010	mg/L	1	25-Jul-2020 09:06
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>97.0</i>			<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 09:06</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>99.0</i>			<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 09:06</i>
<i>Surr: Dibromofluoromethane</i>	<i>101</i>			<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 09:06</i>
<i>Surr: Toluene-d8</i>	<i>102</i>			<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 09:06</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW89B-20200722
 Collection Date: 22-Jul-2020 11:25

ANALYTICAL REPORT
 WorkOrder:HS20071089
 Lab ID:HS20071089-20
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 25-Jul-2020		Analyst: GEY	
1,2-Diphenylhydrazine	U		0.000021	0.00020	mg/L	1	31-Jul-2020 12:00
2,4-Dimethylphenol	U		0.000040	0.00020	mg/L	1	31-Jul-2020 12:00
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	31-Jul-2020 12:00
2,6-Dinitrotoluene	U		0.000042	0.00020	mg/L	1	31-Jul-2020 12:00
2-Chloronaphthalene	U		0.000021	0.00020	mg/L	1	31-Jul-2020 12:00
2-Methylnaphthalene	U		0.000019	0.00010	mg/L	1	31-Jul-2020 12:00
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	31-Jul-2020 12:00
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	31-Jul-2020 12:00
Acenaphthene	U		0.000027	0.00010	mg/L	1	31-Jul-2020 12:00
Acenaphthylene	U		0.000015	0.00010	mg/L	1	31-Jul-2020 12:00
Anthracene	U		0.000014	0.00010	mg/L	1	31-Jul-2020 12:00
Benz(a)anthracene	U		0.000050	0.00010	mg/L	1	31-Jul-2020 12:00
Benzo(a)pyrene	U		0.000020	0.00010	mg/L	1	31-Jul-2020 12:00
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	31-Jul-2020 12:00
Bis(2-ethylhexyl)phthalate	U		0.000037	0.00020	mg/L	1	31-Jul-2020 12:00
Chrysene	U		0.000021	0.00010	mg/L	1	31-Jul-2020 12:00
Dibenzofuran	U		0.000020	0.00010	mg/L	1	31-Jul-2020 12:00
Di-n-butyl phthalate	U		0.000020	0.00020	mg/L	1	31-Jul-2020 12:00
Fluoranthene	U		0.000010	0.00010	mg/L	1	31-Jul-2020 12:00
Fluorene	U		0.000030	0.00010	mg/L	1	31-Jul-2020 12:00
Naphthalene	0.00020		0.000020	0.00010	mg/L	1	31-Jul-2020 12:00
Nitrobenzene	U		0.000024	0.00020	mg/L	1	31-Jul-2020 12:00
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	31-Jul-2020 12:00
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	31-Jul-2020 12:00
Phenanthrene	0.000058	J	0.000021	0.00010	mg/L	1	31-Jul-2020 12:00
Phenol	U		0.000035	0.00020	mg/L	1	31-Jul-2020 12:00
Pyrene	U		0.000019	0.00010	mg/L	1	31-Jul-2020 12:00
<i>Surr: 2,4,6-Tribromophenol</i>	<i>78.4</i>			<i>34-129</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 12:00</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>54.1</i>			<i>40-125</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 12:00</i>
<i>Surr: 2-Fluorophenol</i>	<i>47.9</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 12:00</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>102</i>			<i>40-135</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 12:00</i>
<i>Surr: Nitrobenzene-d5</i>	<i>65.5</i>			<i>41-120</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 12:00</i>
<i>Surr: Phenol-d6</i>	<i>56.4</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 12:00</i>
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 28-Jul-2020		Analyst: JHD	
Arsenic	0.00193	J	0.000400	0.00200	mg/L	1	29-Jul-2020 00:43

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW67B-20200722
 Collection Date: 22-Jul-2020 12:30

ANALYTICAL REPORT
 WorkOrder:HS20071089
 Lab ID:HS20071089-21
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MLL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	25-Jul-2020 01:59
Benzene	U		0.00020	0.0010	mg/L	1	25-Jul-2020 01:59
Chlorobenzene	U		0.00030	0.0010	mg/L	1	25-Jul-2020 01:59
Ethylbenzene	U		0.00030	0.0010	mg/L	1	25-Jul-2020 01:59
Methylene chloride	U		0.0010	0.0020	mg/L	1	25-Jul-2020 01:59
Toluene	0.00036	J	0.00020	0.0010	mg/L	1	25-Jul-2020 01:59
Vinyl chloride	U		0.00020	0.0010	mg/L	1	25-Jul-2020 01:59
Xylenes, Total	U		0.00030	0.0010	mg/L	1	25-Jul-2020 01:59
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>98.5</i>			<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 01:59</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>99.4</i>			<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 01:59</i>
<i>Surr: Dibromofluoromethane</i>	<i>102</i>			<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 01:59</i>
<i>Surr: Toluene-d8</i>	<i>102</i>			<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 01:59</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW67B-20200722
 Collection Date: 22-Jul-2020 12:30

ANALYTICAL REPORT
 WorkOrder:HS20071089
 Lab ID:HS20071089-21
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 25-Jul-2020		Analyst: GEY	
1,2-Diphenylhydrazine	U		0.000021	0.00020	mg/L	1	31-Jul-2020 12:19
2,4-Dimethylphenol	U		0.000040	0.00020	mg/L	1	31-Jul-2020 12:19
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	31-Jul-2020 12:19
2,6-Dinitrotoluene	U		0.000042	0.00020	mg/L	1	31-Jul-2020 12:19
2-Chloronaphthalene	U		0.000021	0.00020	mg/L	1	31-Jul-2020 12:19
2-Methylnaphthalene	0.00012		0.000019	0.00010	mg/L	1	31-Jul-2020 12:19
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	31-Jul-2020 12:19
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	31-Jul-2020 12:19
Acenaphthene	0.000050	J	0.000027	0.00010	mg/L	1	31-Jul-2020 12:19
Acenaphthylene	U		0.000015	0.00010	mg/L	1	31-Jul-2020 12:19
Anthracene	U		0.000014	0.00010	mg/L	1	31-Jul-2020 12:19
Benz(a)anthracene	U		0.000050	0.00010	mg/L	1	31-Jul-2020 12:19
Benzo(a)pyrene	U		0.000020	0.00010	mg/L	1	31-Jul-2020 12:19
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	31-Jul-2020 12:19
Bis(2-ethylhexyl)phthalate	0.00030		0.000037	0.00020	mg/L	1	31-Jul-2020 12:19
Chrysene	U		0.000021	0.00010	mg/L	1	31-Jul-2020 12:19
Dibenzofuran	U		0.000020	0.00010	mg/L	1	31-Jul-2020 12:19
Di-n-butyl phthalate	0.000054	J	0.000020	0.00020	mg/L	1	31-Jul-2020 12:19
Fluoranthene	U		0.000010	0.00010	mg/L	1	31-Jul-2020 12:19
Fluorene	U		0.000030	0.00010	mg/L	1	31-Jul-2020 12:19
Naphthalene	0.00064		0.000020	0.00010	mg/L	1	31-Jul-2020 12:19
Nitrobenzene	U		0.000024	0.00020	mg/L	1	31-Jul-2020 12:19
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	31-Jul-2020 12:19
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	31-Jul-2020 12:19
Phenanthrene	0.000053	J	0.000021	0.00010	mg/L	1	31-Jul-2020 12:19
Phenol	U		0.000035	0.00020	mg/L	1	31-Jul-2020 12:19
Pyrene	U		0.000019	0.00010	mg/L	1	31-Jul-2020 12:19
<i>Surr: 2,4,6-Tribromophenol</i>	<i>73.9</i>			<i>34-129</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 12:19</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>52.7</i>			<i>40-125</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 12:19</i>
<i>Surr: 2-Fluorophenol</i>	<i>61.2</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 12:19</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>107</i>			<i>40-135</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 12:19</i>
<i>Surr: Nitrobenzene-d5</i>	<i>58.1</i>			<i>41-120</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 12:19</i>
<i>Surr: Phenol-d6</i>	<i>70.6</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 12:19</i>
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 28-Jul-2020		Analyst: JHD	
Arsenic	U		0.000400	0.00200	mg/L	1	28-Jul-2020 23:51

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW35A-20200722
 Collection Date: 22-Jul-2020 14:05

ANALYTICAL REPORT
 WorkOrder:HS20071089
 Lab ID:HS20071089-22
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	25-Jul-2020 09:29
Benzene	U		0.00020	0.0010	mg/L	1	25-Jul-2020 09:29
Chlorobenzene	0.00058	J	0.00030	0.0010	mg/L	1	25-Jul-2020 09:29
Ethylbenzene	U		0.00030	0.0010	mg/L	1	25-Jul-2020 09:29
Methylene chloride	U		0.0010	0.0020	mg/L	1	25-Jul-2020 09:29
Toluene	U		0.00020	0.0010	mg/L	1	25-Jul-2020 09:29
Xylenes, Total	U		0.00030	0.0010	mg/L	1	25-Jul-2020 09:29
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>96.4</i>			<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 09:29</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>99.1</i>			<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 09:29</i>
<i>Surr: Dibromofluoromethane</i>	<i>101</i>			<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 09:29</i>
<i>Surr: Toluene-d8</i>	<i>101</i>			<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 09:29</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW35A-20200722
 Collection Date: 22-Jul-2020 14:05

ANALYTICAL REPORT
 WorkOrder:HS20071089
 Lab ID:HS20071089-22
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MLL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 25-Jul-2020		Analyst: GEY	
1,2-Diphenylhydrazine	U		0.000021	0.00020	mg/L	1	31-Jul-2020 12:39
2,4-Dimethylphenol	U		0.000040	0.00020	mg/L	1	31-Jul-2020 12:39
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	31-Jul-2020 12:39
2,6-Dinitrotoluene	U		0.000042	0.00020	mg/L	1	31-Jul-2020 12:39
2-Chloronaphthalene	U		0.000021	0.00020	mg/L	1	31-Jul-2020 12:39
2-Methylnaphthalene	0.000092	J	0.000019	0.00010	mg/L	1	31-Jul-2020 12:39
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	31-Jul-2020 12:39
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	31-Jul-2020 12:39
Acenaphthene	0.0031		0.000027	0.00010	mg/L	1	31-Jul-2020 12:39
Acenaphthylene	U		0.000015	0.00010	mg/L	1	31-Jul-2020 12:39
Anthracene	0.000099	J	0.000014	0.00010	mg/L	1	31-Jul-2020 12:39
Benz(a)anthracene	U		0.000050	0.00010	mg/L	1	31-Jul-2020 12:39
Benzo(a)pyrene	U		0.000020	0.00010	mg/L	1	31-Jul-2020 12:39
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	31-Jul-2020 12:39
Bis(2-ethylhexyl)phthalate	0.00014	J	0.000037	0.00020	mg/L	1	31-Jul-2020 12:39
Chrysene	U		0.000021	0.00010	mg/L	1	31-Jul-2020 12:39
Dibenzofuran	0.00072		0.000020	0.00010	mg/L	1	31-Jul-2020 12:39
Di-n-butyl phthalate	U		0.000020	0.00020	mg/L	1	31-Jul-2020 12:39
Fluoranthene	0.00028		0.000010	0.00010	mg/L	1	31-Jul-2020 12:39
Fluorene	0.00060		0.000030	0.00010	mg/L	1	31-Jul-2020 12:39
Naphthalene	0.0012		0.000020	0.00010	mg/L	1	31-Jul-2020 12:39
Nitrobenzene	U		0.000024	0.00020	mg/L	1	31-Jul-2020 12:39
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	31-Jul-2020 12:39
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	31-Jul-2020 12:39
Phenanthrene	U		0.000021	0.00010	mg/L	1	31-Jul-2020 12:39
Phenol	U		0.000035	0.00020	mg/L	1	31-Jul-2020 12:39
Pyrene	0.00024		0.000019	0.00010	mg/L	1	31-Jul-2020 12:39
<i>Surr: 2,4,6-Tribromophenol</i>	<i>87.7</i>			<i>34-129</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 12:39</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>58.0</i>			<i>40-125</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 12:39</i>
<i>Surr: 2-Fluorophenol</i>	<i>47.7</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 12:39</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>94.9</i>			<i>40-135</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 12:39</i>
<i>Surr: Nitrobenzene-d5</i>	<i>49.4</i>			<i>41-120</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 12:39</i>
<i>Surr: Phenol-d6</i>	<i>59.6</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 12:39</i>
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 27-Jul-2020		Analyst: JHD	
Arsenic	0.0302		0.000400	0.00200	mg/L	1	28-Jul-2020 00:24

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW35B-20200722
 Collection Date: 22-Jul-2020 15:10

ANALYTICAL REPORT
 WorkOrder:HS20071089
 Lab ID:HS20071089-23
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MLL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	25-Jul-2020 09:53
Benzene	0.045		0.00020	0.0010	mg/L	1	25-Jul-2020 09:53
Chlorobenzene	U		0.00030	0.0010	mg/L	1	25-Jul-2020 09:53
Ethylbenzene	0.056		0.00030	0.0010	mg/L	1	25-Jul-2020 09:53
Methylene chloride	U		0.0010	0.0020	mg/L	1	25-Jul-2020 09:53
Toluene	0.0025		0.00020	0.0010	mg/L	1	25-Jul-2020 09:53
Xylenes, Total	0.042		0.00030	0.0010	mg/L	1	25-Jul-2020 09:53
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>94.6</i>			<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 09:53</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>102</i>			<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 09:53</i>
<i>Surr: Dibromofluoromethane</i>	<i>100</i>			<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 09:53</i>
<i>Surr: Toluene-d8</i>	<i>99.0</i>			<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 09:53</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW35B-20200722
 Collection Date: 22-Jul-2020 15:10

ANALYTICAL REPORT
 WorkOrder:HS20071089
 Lab ID:HS20071089-23
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 25-Jul-2020		Analyst: GEY	
1,2-Diphenylhydrazine	U		0.000021	0.00020	mg/L	1	28-Jul-2020 21:24
2,4-Dimethylphenol	U		0.000040	0.00020	mg/L	1	28-Jul-2020 21:24
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	28-Jul-2020 21:24
2,6-Dinitrotoluene	U		0.000042	0.00020	mg/L	1	28-Jul-2020 21:24
2-Chloronaphthalene	U		0.000021	0.00020	mg/L	1	28-Jul-2020 21:24
2-Methylnaphthalene	0.068		0.00019	0.0010	mg/L	10	31-Jul-2020 01:29
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	28-Jul-2020 21:24
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	28-Jul-2020 21:24
Acenaphthene	0.044		0.00027	0.0010	mg/L	10	31-Jul-2020 01:29
Acenaphthylene	0.00034		0.000015	0.00010	mg/L	1	28-Jul-2020 21:24
Anthracene	0.0044		0.000014	0.00010	mg/L	1	28-Jul-2020 21:24
Benz(a)anthracene	0.00013		0.000050	0.00010	mg/L	1	28-Jul-2020 21:24
Benzo(a)pyrene	0.000058	J	0.000020	0.00010	mg/L	1	28-Jul-2020 21:24
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	28-Jul-2020 21:24
Bis(2-ethylhexyl)phthalate	U		0.000037	0.00020	mg/L	1	28-Jul-2020 21:24
Chrysene	0.00013		0.000021	0.00010	mg/L	1	28-Jul-2020 21:24
Dibenzofuran	0.054		0.00020	0.0010	mg/L	10	31-Jul-2020 01:29
Di-n-butyl phthalate	U		0.000020	0.00020	mg/L	1	28-Jul-2020 21:24
Fluoranthene	0.0029		0.000010	0.00010	mg/L	1	28-Jul-2020 21:24
Fluorene	0.028		0.00030	0.0010	mg/L	10	31-Jul-2020 01:29
Naphthalene	2.1		0.020	0.10	mg/L	1000	31-Jul-2020 02:08
Nitrobenzene	U		0.000024	0.00020	mg/L	1	28-Jul-2020 21:24
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	28-Jul-2020 21:24
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	28-Jul-2020 21:24
Phenanthrene	0.042		0.00021	0.0010	mg/L	10	31-Jul-2020 01:29
Phenol	U		0.000035	0.00020	mg/L	1	28-Jul-2020 21:24
Pyrene	0.0014		0.000019	0.00010	mg/L	1	28-Jul-2020 21:24
Surr: 2,4,6-Tribromophenol	66.0			34-129	%REC	10	31-Jul-2020 01:29
Surr: 2,4,6-Tribromophenol	0	JS		34-129	%REC	1000	31-Jul-2020 02:08
Surr: 2,4,6-Tribromophenol	62.1			34-129	%REC	1	28-Jul-2020 21:24
Surr: 2-Fluorobiphenyl	43.7			40-125	%REC	1	28-Jul-2020 21:24
Surr: 2-Fluorobiphenyl	41.7			40-125	%REC	10	31-Jul-2020 01:29
Surr: 2-Fluorobiphenyl	0	JS		40-125	%REC	1000	31-Jul-2020 02:08
Surr: 2-Fluorophenol	52.7			20-120	%REC	10	31-Jul-2020 01:29
Surr: 2-Fluorophenol	0	JS		20-120	%REC	1000	31-Jul-2020 02:08
Surr: 2-Fluorophenol	65.6			20-120	%REC	1	28-Jul-2020 21:24
Surr: 4-Terphenyl-d14	66.3			40-135	%REC	1	28-Jul-2020 21:24
Surr: 4-Terphenyl-d14	61.1			40-135	%REC	10	31-Jul-2020 01:29
Surr: 4-Terphenyl-d14	0	JS		40-135	%REC	1000	31-Jul-2020 02:08

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW35B-20200722
 Collection Date: 22-Jul-2020 15:10

ANALYTICAL REPORT
 WorkOrder:HS20071089
 Lab ID:HS20071089-23
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 25-Jul-2020		Analyst: GEY	
Surr: Nitrobenzene-d5	50.1			41-120	%REC	10	31-Jul-2020 01:29
Surr: Nitrobenzene-d5	0	JS		41-120	%REC	1000	31-Jul-2020 02:08
Surr: Nitrobenzene-d5	56.7			41-120	%REC	1	28-Jul-2020 21:24
Surr: Phenol-d6	58.6			20-120	%REC	1	28-Jul-2020 21:24
Surr: Phenol-d6	59.0			20-120	%REC	10	31-Jul-2020 01:29
Surr: Phenol-d6	0	JS		20-120	%REC	1000	31-Jul-2020 02:08
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 27-Jul-2020		Analyst: JHD	
Arsenic	0.00758		0.000400	0.00200	mg/L	1	28-Jul-2020 00:26

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-FB06-20200722
 Collection Date: 22-Jul-2020 16:00

ANALYTICAL REPORT
 WorkOrder:HS20071089
 Lab ID:HS20071089-24
 Matrix:Water

ANALYSES	RESULT	QUAL	SDL	SQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	25-Jul-2020 01:35
Benzene	0.00028	J	0.00020	0.0010	mg/L	1	25-Jul-2020 01:35
Chlorobenzene	U		0.00030	0.0010	mg/L	1	25-Jul-2020 01:35
Ethylbenzene	U		0.00030	0.0010	mg/L	1	25-Jul-2020 01:35
Methylene chloride	U		0.0010	0.0020	mg/L	1	25-Jul-2020 01:35
Toluene	0.00049	J	0.00020	0.0010	mg/L	1	25-Jul-2020 01:35
Vinyl chloride	U		0.00020	0.0010	mg/L	1	25-Jul-2020 01:35
Xylenes, Total	U		0.00030	0.0010	mg/L	1	25-Jul-2020 01:35
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>96.8</i>			<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 01:35</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>98.8</i>			<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 01:35</i>
<i>Surr: Dibromofluoromethane</i>	<i>101</i>			<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 01:35</i>
<i>Surr: Toluene-d8</i>	<i>102</i>			<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>25-Jul-2020 01:35</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-FB06-20200722
 Collection Date: 22-Jul-2020 16:00

ANALYTICAL REPORT
 WorkOrder:HS20071089
 Lab ID:HS20071089-24
 Matrix:Water

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 25-Jul-2020		Analyst: GEY	
1,2-Diphenylhydrazine	U		0.000021	0.00020	mg/L	1	28-Jul-2020 21:43
2,4-Dimethylphenol	U		0.000040	0.00020	mg/L	1	28-Jul-2020 21:43
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	28-Jul-2020 21:43
2,6-Dinitrotoluene	U		0.000042	0.00020	mg/L	1	28-Jul-2020 21:43
2-Chloronaphthalene	U		0.000021	0.00020	mg/L	1	28-Jul-2020 21:43
2-Methylnaphthalene	U		0.000019	0.00010	mg/L	1	28-Jul-2020 21:43
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	28-Jul-2020 21:43
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	28-Jul-2020 21:43
Acenaphthene	U		0.000027	0.00010	mg/L	1	28-Jul-2020 21:43
Acenaphthylene	U		0.000015	0.00010	mg/L	1	28-Jul-2020 21:43
Anthracene	U		0.000014	0.00010	mg/L	1	28-Jul-2020 21:43
Benz(a)anthracene	U		0.000050	0.00010	mg/L	1	28-Jul-2020 21:43
Benzo(a)pyrene	U		0.000020	0.00010	mg/L	1	28-Jul-2020 21:43
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	28-Jul-2020 21:43
Bis(2-ethylhexyl)phthalate	U		0.000037	0.00020	mg/L	1	28-Jul-2020 21:43
Chrysene	U		0.000021	0.00010	mg/L	1	28-Jul-2020 21:43
Dibenzofuran	U		0.000020	0.00010	mg/L	1	28-Jul-2020 21:43
Di-n-butyl phthalate	U		0.000020	0.00020	mg/L	1	28-Jul-2020 21:43
Fluoranthene	U		0.000010	0.00010	mg/L	1	28-Jul-2020 21:43
Fluorene	U		0.000030	0.00010	mg/L	1	28-Jul-2020 21:43
Naphthalene	0.00011		0.000020	0.00010	mg/L	1	28-Jul-2020 21:43
Nitrobenzene	U		0.000024	0.00020	mg/L	1	28-Jul-2020 21:43
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	28-Jul-2020 21:43
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	28-Jul-2020 21:43
Phenanthrene	U		0.000021	0.00010	mg/L	1	28-Jul-2020 21:43
Phenol	U		0.000035	0.00020	mg/L	1	28-Jul-2020 21:43
Pyrene	U		0.000019	0.00010	mg/L	1	28-Jul-2020 21:43
<i>Surr: 2,4,6-Tribromophenol</i>	<i>56.2</i>			<i>34-129</i>	<i>%REC</i>	<i>1</i>	<i>28-Jul-2020 21:43</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>56.6</i>			<i>40-125</i>	<i>%REC</i>	<i>1</i>	<i>28-Jul-2020 21:43</i>
<i>Surr: 2-Fluorophenol</i>	<i>57.4</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>28-Jul-2020 21:43</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>68.2</i>			<i>40-135</i>	<i>%REC</i>	<i>1</i>	<i>28-Jul-2020 21:43</i>
<i>Surr: Nitrobenzene-d5</i>	<i>66.7</i>			<i>41-120</i>	<i>%REC</i>	<i>1</i>	<i>28-Jul-2020 21:43</i>
<i>Surr: Phenol-d6</i>	<i>70.0</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>28-Jul-2020 21:43</i>
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 27-Jul-2020		Analyst: JHD	
Arsenic	U		0.000400	0.00200	mg/L	1	28-Jul-2020 00:28

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Weight / Prep Log

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071089

Batch ID: 155764 **Start Date:** 24 Jul 2020 08:30 **End Date:** 24 Jul 2020 15:30
Method: SV AQ SEP FUN EXTRACT-LOWLEV - 3510C **Prep Code:** 3510_B_LOW

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS20071089-02	1	1000 (mL)	1 (mL)	0.001
HS20071089-03	1	1000 (mL)	1 (mL)	0.001

Batch ID: 155783 **Start Date:** 25 Jul 2020 07:30 **End Date:** 25 Jul 2020 13:30
Method: SV AQ SEP FUN EXTRACT-LOWLEV - 3510C **Prep Code:** 3510_B_LOW

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS20071089-04	1	1000 (mL)	1 (mL)	0.001
HS20071089-05	1	1000 (mL)	1 (mL)	0.001
HS20071089-06	1	1000 (mL)	1 (mL)	0.001
HS20071089-07	1	1000 (mL)	1 (mL)	0.001
HS20071089-08	1	1000 (mL)	1 (mL)	0.001
HS20071089-09	1	1000 (mL)	1 (mL)	0.001
HS20071089-10	1	1000 (mL)	1 (mL)	0.001
HS20071089-11	1	1000 (mL)	1 (mL)	0.001
HS20071089-12	1	1000 (mL)	1 (mL)	0.001
HS20071089-13	1	1000 (mL)	1 (mL)	0.001
HS20071089-14	1	1000 (mL)	1 (mL)	0.001
HS20071089-15	1	1000 (mL)	1 (mL)	0.001
HS20071089-16	1	1000 (mL)	1 (mL)	0.001
HS20071089-17	1	1000 (mL)	1 (mL)	0.001
HS20071089-18	1	1000 (mL)	1 (mL)	0.001
HS20071089-19	1	1000 (mL)	1 (mL)	0.001
HS20071089-20	1	1000 (mL)	1 (mL)	0.001
HS20071089-21	1	1000 (mL)	1 (mL)	0.001
HS20071089-22	1	1000 (mL)	1 (mL)	0.001

Batch ID: 155784 **Start Date:** 25 Jul 2020 10:00 **End Date:** 25 Jul 2020 14:30
Method: SV AQ SEP FUN EXTRACT-LOWLEV - 3510C **Prep Code:** 3510_B_LOW

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS20071089-23	1	1000 (mL)	1 (mL)	0.001
HS20071089-24	1	1000 (mL)	1 (mL)	0.001

Batch ID: 155816 **Start Date:** 27 Jul 2020 14:30 **End Date:** 27 Jul 2020 18:30
Method: WATER - SW3010A **Prep Code:** 3010A

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS20071089-22		10 (mL)	10 (mL)	1
HS20071089-23		10 (mL)	10 (mL)	1
HS20071089-24		10 (mL)	10 (mL)	1

Weight / Prep Log

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071089

Batch ID: 155835 **Start Date:** 28 Jul 2020 08:00 **End Date:** 28 Jul 2020 12:00
Method: WATER - SW3010A **Prep Code:** 3010A

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS20071089-02		10 (mL)	10 (mL)	1
HS20071089-03		10 (mL)	10 (mL)	1
HS20071089-04		10 (mL)	10 (mL)	1
HS20071089-05		10 (mL)	10 (mL)	1
HS20071089-06		10 (mL)	10 (mL)	1
HS20071089-07		10 (mL)	10 (mL)	1
HS20071089-08		10 (mL)	10 (mL)	1
HS20071089-09		10 (mL)	10 (mL)	1
HS20071089-10		10 (mL)	10 (mL)	1
HS20071089-11		10 (mL)	10 (mL)	1
HS20071089-12		10 (mL)	10 (mL)	1
HS20071089-13		10 (mL)	10 (mL)	1
HS20071089-14		10 (mL)	10 (mL)	1
HS20071089-15		10 (mL)	10 (mL)	1
HS20071089-16		10 (mL)	10 (mL)	1
HS20071089-17		10 (mL)	10 (mL)	1
HS20071089-18		10 (mL)	10 (mL)	1
HS20071089-19		10 (mL)	10 (mL)	1
HS20071089-20		10 (mL)	10 (mL)	1
HS20071089-21		10 (mL)	10 (mL)	1

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071089

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 155764 (0)		Test Name : LOW-LEVEL SEMIVOLATILES BY 8270D			Matrix: Groundwater	
HS20071089-02	WG-1620-MW50A-20200720	20 Jul 2020 16:35		24 Jul 2020 15:42	31 Jul 2020 02:27	1
HS20071089-03	WG-1620-MW81B-20200720	20 Jul 2020 17:25		24 Jul 2020 15:42	31 Jul 2020 02:46	1
Batch ID: 155783 (0)		Test Name : LOW-LEVEL SEMIVOLATILES BY 8270D			Matrix: Groundwater	
HS20071089-04	WG-1620-MW49B-20200721	21 Jul 2020 11:55		25 Jul 2020 12:35	31 Jul 2020 13:17	1000
HS20071089-04	WG-1620-MW49B-20200721	21 Jul 2020 11:55		25 Jul 2020 12:35	31 Jul 2020 12:58	100
HS20071089-04	WG-1620-MW49B-20200721	21 Jul 2020 11:55		25 Jul 2020 12:35	30 Jul 2020 18:41	10
HS20071089-05	WG-1620-MW74B-20200721	21 Jul 2020 12:50		25 Jul 2020 12:35	31 Jul 2020 17:11	1000 0
HS20071089-05	WG-1620-MW74B-20200721	21 Jul 2020 12:50		25 Jul 2020 12:35	31 Jul 2020 14:16	1000
HS20071089-05	WG-1620-MW74B-20200721	21 Jul 2020 12:50		25 Jul 2020 12:35	31 Jul 2020 13:56	100
HS20071089-05	WG-1620-MW74B-20200721	21 Jul 2020 12:50		25 Jul 2020 12:35	31 Jul 2020 13:37	10
HS20071089-06	WG-1620-MW79A-20200721	21 Jul 2020 13:45		25 Jul 2020 12:35	31 Jul 2020 14:55	100
HS20071089-06	WG-1620-MW79A-20200721	21 Jul 2020 13:45		25 Jul 2020 12:35	31 Jul 2020 17:30	1000
HS20071089-06	WG-1620-MW79A-20200721	21 Jul 2020 13:45		25 Jul 2020 12:35	31 Jul 2020 14:35	10
HS20071089-06	WG-1620-MW79A-20200721	21 Jul 2020 13:45		25 Jul 2020 12:35	30 Jul 2020 19:20	1
HS20071089-07	WG-1620-MW75B-20200721	21 Jul 2020 14:30		25 Jul 2020 12:35	31 Jul 2020 17:50	1000
HS20071089-07	WG-1620-MW75B-20200721	21 Jul 2020 14:30		25 Jul 2020 12:35	31 Jul 2020 15:14	100
HS20071089-07	WG-1620-MW75B-20200721	21 Jul 2020 14:30		25 Jul 2020 12:35	30 Jul 2020 19:39	10
HS20071089-08	WG-1620-MW47A-20200721	21 Jul 2020 15:30		25 Jul 2020 12:35	30 Jul 2020 19:59	1
HS20071089-09	WG-1620-MW59B-20200721	21 Jul 2020 16:25		25 Jul 2020 12:35	30 Jul 2020 20:18	1
HS20071089-10	WG-1620-MW59A-20200721	21 Jul 2020 17:10		25 Jul 2020 12:35	30 Jul 2020 20:38	1
HS20071089-11	WG-1620-MW69A-20200721	21 Jul 2020 18:15		25 Jul 2020 12:35	30 Jul 2020 20:57	1
HS20071089-12	WG-1620-MW83C-20200722	22 Jul 2020 07:35		25 Jul 2020 12:35	30 Jul 2020 21:16	1
HS20071089-13	WG-1620-MW83B-20200722	22 Jul 2020 08:25		25 Jul 2020 12:35	31 Jul 2020 15:33	20
HS20071089-13	WG-1620-MW83B-20200722	22 Jul 2020 08:25		25 Jul 2020 12:35	30 Jul 2020 21:36	1
HS20071089-14	WG-1620-DUP02-20200722	22 Jul 2020 08:25		25 Jul 2020 12:35	31 Jul 2020 16:12	100
HS20071089-14	WG-1620-DUP02-20200722	22 Jul 2020 08:25		25 Jul 2020 12:35	31 Jul 2020 15:53	10
HS20071089-14	WG-1620-DUP02-20200722	22 Jul 2020 08:25		25 Jul 2020 12:35	30 Jul 2020 21:55	1
HS20071089-15	WG-1620-MW25A-20200722	22 Jul 2020 09:20		25 Jul 2020 12:35	30 Jul 2020 22:15	1
HS20071089-16	WG-1620-MW25C-20200722	22 Jul 2020 10:10		25 Jul 2020 12:35	31 Jul 2020 16:51	1000
HS20071089-16	WG-1620-MW25C-20200722	22 Jul 2020 10:10		25 Jul 2020 12:35	31 Jul 2020 16:32	100
HS20071089-16	WG-1620-MW25C-20200722	22 Jul 2020 10:10		25 Jul 2020 12:35	30 Jul 2020 22:34	10
HS20071089-17	WG-1620-MW93B-20200722	22 Jul 2020 08:45		25 Jul 2020 12:35	30 Jul 2020 22:54	1
HS20071089-18	WG-1620-MW90B-20200722	22 Jul 2020 09:45		25 Jul 2020 12:35	30 Jul 2020 23:13	1
HS20071089-19	WG-1620-MW92B-20200722	22 Jul 2020 10:35		25 Jul 2020 12:35	30 Jul 2020 23:32	1
HS20071089-20	WG-1620-MW89B-20200722	22 Jul 2020 11:25		25 Jul 2020 12:35	31 Jul 2020 12:00	1
HS20071089-21	WG-1620-MW67B-20200722	22 Jul 2020 12:30		25 Jul 2020 12:35	31 Jul 2020 12:19	1
HS20071089-22	WG-1620-MW35A-20200722	22 Jul 2020 14:05		25 Jul 2020 12:35	31 Jul 2020 12:39	1

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071089

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 155784 (0)		Test Name : LOW-LEVEL SEMIVOLATILES BY 8270D			Matrix: Water	
HS20071089-24	WG-1620-FB06-20200722	22 Jul 2020 16:00		25 Jul 2020 12:35	28 Jul 2020 21:43	1
Batch ID: 155784 (0)		Test Name : LOW-LEVEL SEMIVOLATILES BY 8270D			Matrix: Groundwater	
HS20071089-23	WG-1620-MW35B-20200722	22 Jul 2020 15:10		25 Jul 2020 12:35	31 Jul 2020 02:08	1000
HS20071089-23	WG-1620-MW35B-20200722	22 Jul 2020 15:10		25 Jul 2020 12:35	31 Jul 2020 01:29	10
HS20071089-23	WG-1620-MW35B-20200722	22 Jul 2020 15:10		25 Jul 2020 12:35	28 Jul 2020 21:24	1
Batch ID: 155816 (0)		Test Name : ICP-MS METALS BY SW6020A			Matrix: Water	
HS20071089-24	WG-1620-FB06-20200722	22 Jul 2020 16:00		27 Jul 2020 18:30	28 Jul 2020 00:28	1
Batch ID: 155816 (0)		Test Name : ICP-MS METALS BY SW6020A			Matrix: Groundwater	
HS20071089-22	WG-1620-MW35A-20200722	22 Jul 2020 14:05		27 Jul 2020 18:30	28 Jul 2020 00:24	1
HS20071089-23	WG-1620-MW35B-20200722	22 Jul 2020 15:10		27 Jul 2020 18:30	28 Jul 2020 00:26	1
Batch ID: 155835 (0)		Test Name : ICP-MS METALS BY SW6020A			Matrix: Groundwater	
HS20071089-02	WG-1620-MW50A-20200720	20 Jul 2020 16:35		28 Jul 2020 12:00	29 Jul 2020 00:04	1
HS20071089-03	WG-1620-MW81B-20200720	20 Jul 2020 17:25		28 Jul 2020 12:00	29 Jul 2020 00:06	1
HS20071089-04	WG-1620-MW49B-20200721	21 Jul 2020 11:55		28 Jul 2020 12:00	29 Jul 2020 13:25	1
HS20071089-05	WG-1620-MW74B-20200721	21 Jul 2020 12:50		28 Jul 2020 12:00	29 Jul 2020 13:27	1
HS20071089-06	WG-1620-MW79A-20200721	21 Jul 2020 13:45		28 Jul 2020 12:00	29 Jul 2020 13:29	1
HS20071089-07	WG-1620-MW75B-20200721	21 Jul 2020 14:30		28 Jul 2020 12:00	29 Jul 2020 00:14	1
HS20071089-08	WG-1620-MW47A-20200721	21 Jul 2020 15:30		28 Jul 2020 12:00	29 Jul 2020 00:16	1
HS20071089-09	WG-1620-MW59B-20200721	21 Jul 2020 16:25		28 Jul 2020 12:00	29 Jul 2020 00:18	1
HS20071089-10	WG-1620-MW59A-20200721	21 Jul 2020 17:10		28 Jul 2020 12:00	29 Jul 2020 00:20	1
HS20071089-11	WG-1620-MW69A-20200721	21 Jul 2020 18:15		28 Jul 2020 12:00	29 Jul 2020 00:22	1
HS20071089-12	WG-1620-MW83C-20200722	22 Jul 2020 07:35		28 Jul 2020 12:00	29 Jul 2020 00:28	1
HS20071089-13	WG-1620-MW83B-20200722	22 Jul 2020 08:25		28 Jul 2020 12:00	29 Jul 2020 00:29	1
HS20071089-14	WG-1620-DUP02-20200722	22 Jul 2020 08:25		28 Jul 2020 12:00	29 Jul 2020 00:31	1
HS20071089-15	WG-1620-MW25A-20200722	22 Jul 2020 09:20		28 Jul 2020 12:00	29 Jul 2020 00:33	1
HS20071089-16	WG-1620-MW25C-20200722	22 Jul 2020 10:10		28 Jul 2020 12:00	29 Jul 2020 00:35	1
HS20071089-17	WG-1620-MW93B-20200722	22 Jul 2020 08:45		28 Jul 2020 12:00	29 Jul 2020 00:37	1
HS20071089-18	WG-1620-MW90B-20200722	22 Jul 2020 09:45		28 Jul 2020 12:00	29 Jul 2020 00:39	1
HS20071089-19	WG-1620-MW92B-20200722	22 Jul 2020 10:35		28 Jul 2020 12:00	29 Jul 2020 00:41	1
HS20071089-20	WG-1620-MW89B-20200722	22 Jul 2020 11:25		28 Jul 2020 12:00	29 Jul 2020 00:43	1
HS20071089-21	WG-1620-MW67B-20200722	22 Jul 2020 12:30		28 Jul 2020 12:00	28 Jul 2020 23:51	1
Batch ID: R365688 (0)		Test Name : LOW LEVEL VOLATILES BY SW8260C			Matrix: Groundwater	
HS20071089-02	WG-1620-MW50A-20200720	20 Jul 2020 16:35			24 Jul 2020 20:46	1
HS20071089-03	WG-1620-MW81B-20200720	20 Jul 2020 17:25			24 Jul 2020 21:11	1
HS20071089-04	WG-1620-MW49B-20200721	21 Jul 2020 11:55			24 Jul 2020 21:35	1
HS20071089-05	WG-1620-MW74B-20200721	21 Jul 2020 12:50			24 Jul 2020 22:00	1

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071089

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R365691 (0)			Test Name : LOW LEVEL VOLATILES BY SW8260C		Matrix: Groundwater	
HS20071089-06	WG-1620-MW79A-20200721	21 Jul 2020 13:45			25 Jul 2020 03:34	1
HS20071089-07	WG-1620-MW75B-20200721	21 Jul 2020 14:30			25 Jul 2020 03:58	1
HS20071089-08	WG-1620-MW47A-20200721	21 Jul 2020 15:30			25 Jul 2020 04:22	1
HS20071089-09	WG-1620-MW59B-20200721	21 Jul 2020 16:25			25 Jul 2020 04:45	1
HS20071089-10	WG-1620-MW59A-20200721	21 Jul 2020 17:10			25 Jul 2020 05:09	1
HS20071089-11	WG-1620-MW69A-20200721	21 Jul 2020 18:15			25 Jul 2020 05:33	1
HS20071089-12	WG-1620-MW83C-20200722	22 Jul 2020 07:35			25 Jul 2020 05:57	1
HS20071089-13	WG-1620-MW83B-20200722	22 Jul 2020 08:25			25 Jul 2020 06:21	1
HS20071089-14	WG-1620-DUP02-20200722	22 Jul 2020 08:25			25 Jul 2020 06:44	1
HS20071089-15	WG-1620-MW25A-20200722	22 Jul 2020 09:20			25 Jul 2020 07:08	1
HS20071089-16	WG-1620-MW25C-20200722	22 Jul 2020 10:10			25 Jul 2020 07:32	1
HS20071089-17	WG-1620-MW93B-20200722	22 Jul 2020 08:45			25 Jul 2020 07:55	1
HS20071089-18	WG-1620-MW90B-20200722	22 Jul 2020 09:45			25 Jul 2020 08:19	1
HS20071089-19	WG-1620-MW92B-20200722	22 Jul 2020 10:35			25 Jul 2020 08:42	1
HS20071089-20	WG-1620-MW89B-20200722	22 Jul 2020 11:25			25 Jul 2020 09:06	1
HS20071089-21	WG-1620-MW67B-20200722	22 Jul 2020 12:30			25 Jul 2020 01:59	1
HS20071089-22	WG-1620-MW35A-20200722	22 Jul 2020 14:05			25 Jul 2020 09:29	1
HS20071089-23	WG-1620-MW35B-20200722	22 Jul 2020 15:10			25 Jul 2020 09:53	1
Batch ID: R365691 (0)			Test Name : LOW LEVEL VOLATILES BY SW8260C		Matrix: Water	
HS20071089-01	WQ-1620-TB04-20200722	20 Jul 2020 00:00			25 Jul 2020 01:11	1
HS20071089-24	WG-1620-FB06-20200722	22 Jul 2020 16:00			25 Jul 2020 01:35	1
Batch ID: R365748 (0)			Test Name : LOW LEVEL VOLATILES BY SW8260C		Matrix: Groundwater	
HS20071089-04	WG-1620-MW49B-20200721	21 Jul 2020 11:55			27 Jul 2020 23:48	10
HS20071089-05	WG-1620-MW74B-20200721	21 Jul 2020 12:50			28 Jul 2020 00:10	10
HS20071089-06	WG-1620-MW79A-20200721	21 Jul 2020 13:45			28 Jul 2020 00:32	10

WorkOrder: HS20071089
 InstrumentID: ICPMS06
 Test Code: ICP_TW
 Test Number: SW6020
 Test Name: ICP-MS Metals by SW6020A

**METHOD DETECTION /
 REPORTING LIMITS**

Matrix: Aqueous **Units:** mg/L

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	Arsenic	7440-38-2	0.00100	0.000928	0.000400	0.00200

WorkOrder: HS20071089
 InstrumentID: SV-7
 Test Code: 8270_LOW_W
 Test Number: SW8270
 Test Name: Low-Level Semivolatiles by 8270D

**METHOD DETECTION /
 REPORTING LIMITS**

Matrix: Aqueous

Units: mg/L

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	1,2-Diphenylhydrazine	122-66-7	0.00010	0.000073	0.000021	0.00020
A	2,4-Dimethylphenol	105-67-9	0.00010	0.000085	0.000040	0.00020
A	2,4-Dinitrotoluene	121-14-2	0.00010	0.000088	0.000058	0.00020
A	2,6-Dinitrotoluene	606-20-2	0.00010	0.000082	0.000042	0.00020
A	2-Chloronaphthalene	91-58-7	0.00010	0.000084	0.000021	0.00020
A	2-Methylnaphthalene	91-57-6	0.000050	0.000040	0.000019	0.00010
A	4,6-Dinitro-2-methylphenol	534-52-1	0.00010	0.000056	0.000020	0.00020
A	4-Nitrophenol	100-02-7	0.00010	0.000075	0.000047	0.0010
A	Acenaphthene	83-32-9	0.000050	0.000045	0.000027	0.00010
A	Acenaphthylene	208-96-8	0.000050	0.000039	0.000015	0.00010
A	Anthracene	120-12-7	0.000050	0.000040	0.000014	0.00010
A	Benz(a)anthracene	56-55-3	0.000050	0.000036	0.000050	0.00010
A	Benzo(a)pyrene	50-32-8	0.000050	0.000029	0.000020	0.00010
A	Bis(2-chloroethoxy)methane	111-91-1	0.00010	0.000085	0.000030	0.00020
A	Bis(2-ethylhexyl)phthalate	117-81-7	0.00010	0.000072	0.000037	0.00020
A	Chrysene	218-01-9	0.000050	0.000040	0.000021	0.00010
A	Dibenzofuran	132-64-9	0.000050	0.000045	0.000020	0.00010
A	Di-n-butyl phthalate	84-74-2	0.00010	0.000073	0.000020	0.00020
A	Fluoranthene	206-44-0	0.000050	0.000033	0.000010	0.00010
A	Fluorene	86-73-7	0.000050	0.000045	0.000030	0.00010
A	Naphthalene	91-20-3	0.000050	0.000066	0.000020	0.00010
A	Nitrobenzene	98-95-3	0.00010	0.000098	0.000024	0.00020
A	N-Nitrosodiphenylamine	86-30-6	0.00010	0.000079	0.000025	0.00020
A	Pentachlorophenol	87-86-5	0.00010	0.000060	0.000079	0.00020
A	Phenanthrene	85-01-8	0.000050	0.000042	0.000021	0.00010
A	Phenol	108-95-2	0.00010	0.000090	0.000035	0.00020
A	Pyrene	129-00-0	0.000050	0.000044	0.000019	0.00010
S	2,4,6-Tribromophenol	118-79-6	0	0	0	0.00020
S	2-Fluorobiphenyl	321-60-8	0	0	0	0.00020
S	2-Fluorophenol	367-12-4	0	0	0	0.00020
S	4-Terphenyl-d14	1718-51-0	0	0	0	0.00020
S	Nitrobenzene-d5	4165-60-0	0	0	0	0.00020
S	Phenol-d6	13127-88-3	0	0	0	0.00020

WorkOrder: HS20071089
 InstrumentID: VOA2
 Test Code: 8260_LL_W
 Test Number: SW8260
 Test Name: Low Level Volatiles by SW8260C

**METHOD DETECTION /
 REPORTING LIMITS**

Matrix: Aqueous **Units:** mg/L

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	1,2-Dichloroethane	107-06-2	0.00050	0.00063	0.00020	0.0010
A	Benzene	71-43-2	0.00050	0.00052	0.00020	0.0010
A	Chlorobenzene	108-90-7	0.0010	0.0011	0.00030	0.0010
A	Ethylbenzene	100-41-4	0.0010	0.0011	0.00030	0.0010
A	Methylene chloride	75-09-2	0.0020	0.00081	0.0010	0.0020
A	Toluene	108-88-3	0.00050	0.00056	0.00020	0.0010
A	Vinyl chloride	75-01-4	0.00050	0.00035	0.00020	0.0010
A	Xylenes, Total	1330-20-7	0.0010	0.0032	0.00030	0.0010
S	1,2-Dichloroethane-d4	17060-07-0	0	0	0	0.0010
S	4-Bromofluorobenzene	460-00-4	0	0	0	0.0010
S	Dibromofluoromethane	1868-53-7	0	0	0	0.0010
S	Toluene-d8	2037-26-5	0	0	0	0.0010

WorkOrder: HS20071089
 InstrumentID: VOA4
 Test Code: 8260_LL_W
 Test Number: SW8260
 Test Name: Low Level Volatiles by SW8260C

**METHOD DETECTION /
 REPORTING LIMITS**

Matrix: Aqueous

Units: mg/L

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	Benzene	71-43-2	0.00050	0.00052	0.00020	0.0010
A	Toluene	108-88-3	0.00050	0.00060	0.00020	0.0010
S	1,2-Dichloroethane-d4	17060-07-0	0	0	0	0.0010
S	4-Bromofluorobenzene	460-00-4	0	0	0	0.0010
S	Dibromofluoromethane	1868-53-7	0	0	0	0.0010
S	Toluene-d8	2037-26-5	0	0	0	0.0010

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071089

QC BATCH REPORT

Batch ID: 155816 (0)		Instrument: ICPMS06		Method: ICP-MS METALS BY SW6020A						
MBLK	Sample ID: MBLK-155816	Units: mg/L		Analysis Date: 27-Jul-2020 23:31						
Client ID:		Run ID: ICPMS06_365696	SeqNo: 5675903	PrepDate: 27-Jul-2020	DF: 1					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual	
Arsenic	U	0.00200								
LCS	Sample ID: LCS-155816	Units: mg/L		Analysis Date: 27-Jul-2020 23:33						
Client ID:		Run ID: ICPMS06_365696	SeqNo: 5675904	PrepDate: 27-Jul-2020	DF: 1					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual	
Arsenic	0.04398	0.00200	0.05	0	88.0	80 - 120				
MS	Sample ID: HS20071010-01MS	Units: mg/L		Analysis Date: 27-Jul-2020 23:39						
Client ID:		Run ID: ICPMS06_365696	SeqNo: 5675907	PrepDate: 27-Jul-2020	DF: 1					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual	
Arsenic	0.04947	0.00200	0.05	0.000383	98.2	80 - 120				
MSD	Sample ID: HS20071010-01MSD	Units: mg/L		Analysis Date: 27-Jul-2020 23:41						
Client ID:		Run ID: ICPMS06_365696	SeqNo: 5675908	PrepDate: 27-Jul-2020	DF: 1					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual	
Arsenic	0.04769	0.00200	0.05	0.000383	94.6	80 - 120	0.04947	3.66	20	
PDS	Sample ID: HS20071010-01PDS	Units: mg/L		Analysis Date: 27-Jul-2020 23:43						
Client ID:		Run ID: ICPMS06_365696	SeqNo: 5675909	PrepDate: 27-Jul-2020	DF: 1					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual	
Arsenic	0.0917	0.00200	0.1	0.000383	91.3	75 - 125				
SD	Sample ID: HS20071010-01SD	Units: mg/L		Analysis Date: 27-Jul-2020 23:37						
Client ID:		Run ID: ICPMS06_365696	SeqNo: 5675906	PrepDate: 27-Jul-2020	DF: 5					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	RPD Limit Qual	
Arsenic	U	0.0100					0.000383	0	10	

The following samples were analyzed in this batch: HS20071089-22 HS20071089-23 HS20071089-24

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071089

QC BATCH REPORT

Batch ID: 155835 (0)		Instrument: ICPMS06		Method: ICP-MS METALS BY SW6020A					
MBLK	Sample ID: MBLK-155835	Units: mg/L		Analysis Date: 28-Jul-2020 23:47					
Client ID:		Run ID: ICPMS06_365755	SeqNo: 5678023	PrepDate: 28-Jul-2020	DF: 1				
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Arsenic	U	0.00200							
LCS	Sample ID: LCS-155835	Units: mg/L		Analysis Date: 28-Jul-2020 23:49					
Client ID:		Run ID: ICPMS06_365755	SeqNo: 5678024	PrepDate: 28-Jul-2020	DF: 1				
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Arsenic	0.04831	0.00200	0.05	0	96.6	80 - 120			
MS	Sample ID: HS20071089-21MS	Units: mg/L		Analysis Date: 28-Jul-2020 23:55					
Client ID: WG-1620-MW67B-20200722		Run ID: ICPMS06_365755	SeqNo: 5678027	PrepDate: 28-Jul-2020	DF: 1				
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Arsenic	0.04677	0.00200	0.05	0.000341	92.9	80 - 120			
MSD	Sample ID: HS20071089-21MSD	Units: mg/L		Analysis Date: 28-Jul-2020 23:57					
Client ID: WG-1620-MW67B-20200722		Run ID: ICPMS06_365755	SeqNo: 5678028	PrepDate: 28-Jul-2020	DF: 1				
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Arsenic	0.04757	0.00200	0.05	0.000341	94.5	80 - 120	0.04677	1.7	20
SD	Sample ID: HS20071089-21SD	Units: mg/L		Analysis Date: 28-Jul-2020 23:53					
Client ID: WG-1620-MW67B-20200722		Run ID: ICPMS06_365755	SeqNo: 5678026	PrepDate: 28-Jul-2020	DF: 5				
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	Limit Qual
Arsenic	U	0.0100					0.000341	0	10

The following samples were analyzed in this batch:

HS20071089-02	HS20071089-03	HS20071089-04	HS20071089-05
HS20071089-06	HS20071089-07	HS20071089-08	HS20071089-09
HS20071089-10	HS20071089-11	HS20071089-12	HS20071089-13
HS20071089-14	HS20071089-15	HS20071089-16	HS20071089-17
HS20071089-18	HS20071089-19	HS20071089-20	HS20071089-21

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071089

QC BATCH REPORT

Batch ID: 155764 (0)		Instrument: SV-7		Method: LOW-LEVEL SEMIVOLATILES BY 8270D						
MBLK	Sample ID: MBLK-155764	Units: ug/L			Analysis Date: 31-Jul-2020 11:21					
Client ID:	Run ID: SV-7_365999	SeqNo: 5681517	PrepDate: 24-Jul-2020	DF: 1						
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Diphenylhydrazine	U	0.20								
2,4-Dimethylphenol	U	0.20								
2,4-Dinitrotoluene	U	0.20								
2,6-Dinitrotoluene	U	0.20								
2-Chloronaphthalene	U	0.20								
2-Methylnaphthalene	U	0.10								
4,6-Dinitro-2-methylphenol	U	0.20								
4-Nitrophenol	U	1.0								
Acenaphthene	U	0.10								
Acenaphthylene	U	0.10								
Anthracene	U	0.10								
Benz(a)anthracene	U	0.10								
Benzo(a)pyrene	U	0.10								
Bis(2-chloroethoxy)methane	U	0.20								
Bis(2-ethylhexyl)phthalate	U	0.20								
Chrysene	U	0.10								
Dibenzofuran	U	0.10								
Di-n-butyl phthalate	U	0.20								
Fluoranthene	U	0.10								
Fluorene	U	0.10								
Naphthalene	U	0.10								
Nitrobenzene	U	0.20								
N-Nitrosodiphenylamine	U	0.20								
Pentachlorophenol	U	0.20								
Phenanthrene	U	0.10								
Phenol	U	0.20								
Pyrene	U	0.10								
<i>Surr: 2,4,6-Tribromophenol</i>	3.476	0.20	5	0	69.5	34 - 129				
<i>Surr: 2-Fluorobiphenyl</i>	3.247	0.20	5	0	64.9	40 - 125				
<i>Surr: 2-Fluorophenol</i>	3.452	0.20	5	0	69.0	20 - 120				
<i>Surr: 4-Terphenyl-d14</i>	4.446	0.20	5	0	88.9	40 - 135				
<i>Surr: Nitrobenzene-d5</i>	3.965	0.20	5	0	79.3	41 - 120				
<i>Surr: Phenol-d6</i>	4.243	0.20	5	0	84.9	20 - 120				

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071089

QC BATCH REPORT

Batch ID: 155764 (0)		Instrument: SV-7		Method: LOW-LEVEL SEMIVOLATILES BY 8270D						
LCS	Sample ID: LCS-155764	Units: ug/L			Analysis Date: 31-Jul-2020 11:40					
Client ID:	Run ID: SV-7_365999	SeqNo: 5681510		PrepDate: 24-Jul-2020		DF: 1				
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Diphenylhydrazine	3.67	0.20	5	0	73.4	39 - 127				
2,4-Dimethylphenol	2.55	0.20	5	0	51.0	35 - 120				
2,4-Dinitrotoluene	3.004	0.20	5	0	60.1	50 - 122				
2,6-Dinitrotoluene	3.034	0.20	5	0	60.7	50 - 120				
2-Chloronaphthalene	3.013	0.20	5	0	60.3	50 - 120				
2-Methylnaphthalene	2.799	0.10	5	0	56.0	50 - 120				
4,6-Dinitro-2-methylphenol	2.529	0.20	5	0	50.6	25 - 121				
4-Nitrophenol	3.245	1.0	5	0	64.9	30 - 130				
Acenaphthene	2.684	0.10	5	0	53.7	45 - 120				
Acenaphthylene	2.978	0.10	5	0	59.6	47 - 120				
Anthracene	2.953	0.10	5	0	59.1	45 - 120				
Benz(a)anthracene	3.528	0.10	5	0	70.6	40 - 120				
Benzo(a)pyrene	3.311	0.10	5	0	66.2	45 - 120				
Bis(2-chloroethoxy)methane	3	0.20	5	0	60.0	45 - 120				
Bis(2-ethylhexyl)phthalate	4.279	0.20	5	0	85.6	40 - 139				
Chrysene	3.045	0.10	5	0	60.9	43 - 120				
Dibenzofuran	2.884	0.10	5	0	57.7	50 - 120				
Di-n-butyl phthalate	3.403	0.20	5	0	68.1	45 - 123				
Fluoranthene	2.91	0.10	5	0	58.2	45 - 125				
Fluorene	2.981	0.10	5	0	59.6	49 - 120				
Naphthalene	2.822	0.10	5	0	56.4	45 - 120				
Nitrobenzene	3.555	0.20	5	0	71.1	44 - 120				
N-Nitrosodiphenylamine	3.036	0.20	5	0	60.7	40 - 125				
Pentachlorophenol	2.005	0.20	5	0	40.1	19 - 121				
Phenanthrene	2.899	0.10	5	0	58.0	45 - 121				
Phenol	3.023	0.20	5	0	60.5	20 - 124				
Pyrene	3.258	0.10	5	0	65.2	40 - 130				
Surr: 2,4,6-Tribromophenol	3.499	0.20	5	0	70.0	34 - 129				
Surr: 2-Fluorobiphenyl	2.948	0.20	5	0	59.0	40 - 125				
Surr: 2-Fluorophenol	3.197	0.20	5	0	63.9	20 - 120				
Surr: 4-Terphenyl-d14	3.857	0.20	5	0	77.1	40 - 135				
Surr: Nitrobenzene-d5	3.83	0.20	5	0	76.6	41 - 120				
Surr: Phenol-d6	3.736	0.20	5	0	74.7	20 - 120				

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071089

QC BATCH REPORT

Batch ID: 155764 (0)		Instrument: SV-7		Method: LOW-LEVEL SEMIVOLATILES BY 8270D						
MS	Sample ID: HS20070941-16MS	Units: ug/L			Analysis Date: 31-Jul-2020 15:55					
Client ID:	Run ID: SV-6_365998	SeqNo: 5682135	PrepDate: 24-Jul-2020	DF: 1						
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Diphenylhydrazine	3.899	0.20	5	0	78.0	39 - 127				
2,4-Dimethylphenol	3.403	0.20	5	0	68.1	35 - 120				
2,4-Dinitrotoluene	4.553	0.20	5	0	91.1	50 - 122				
2,6-Dinitrotoluene	4.164	0.20	5	0	83.3	50 - 120				
2-Chloronaphthalene	3.493	0.20	5	0	69.9	50 - 120				
2-Methylnaphthalene	3.445	0.10	5	0	68.9	50 - 120				
4,6-Dinitro-2-methylphenol	4.762	0.20	5	0	95.2	25 - 121				
4-Nitrophenol	5.13	1.0	5	0	103	30 - 130				
Acenaphthene	3.248	0.10	5	0	65.0	45 - 120				
Acenaphthylene	3.247	0.10	5	0	64.9	47 - 120				
Anthracene	4.194	0.10	5	0.02417	83.4	45 - 120				
Benz(a)anthracene	4.434	0.10	5	0	88.7	40 - 120				
Benzo(a)pyrene	4.617	0.10	5	0	92.3	45 - 120				
Bis(2-chloroethoxy)methane	3.548	0.20	5	0	71.0	45 - 120				
Bis(2-ethylhexyl)phthalate	4.209	0.20	5	0.3014	78.2	40 - 139				
Chrysene	4.097	0.10	5	0	81.9	43 - 120				
Dibenzofuran	3.53	0.10	5	0	70.6	50 - 120				
Di-n-butyl phthalate	4.388	0.20	5	0	87.8	45 - 123				
Fluoranthene	4.778	0.10	5	0.04031	94.8	45 - 125				
Fluorene	3.758	0.10	5	0	75.2	49 - 120				
Naphthalene	3.377	0.10	5	0.07298	66.1	45 - 120				
Nitrobenzene	4.515	0.20	5	0	90.3	44 - 120				
N-Nitrosodiphenylamine	3.756	0.20	5	0	75.1	40 - 125				
Pentachlorophenol	3.95	0.20	5	0	79.0	19 - 121				
Phenanthrene	4.29	0.10	5	0.06853	84.4	45 - 121				
Phenol	3.124	0.20	5	0	62.5	20 - 124				
Pyrene	4.416	0.10	5	0.02832	87.8	40 - 130				
Surr: 2,4,6-Tribromophenol	4.745	0.20	5	0	94.9	34 - 129				
Surr: 2-Fluorobiphenyl	3.792	0.20	5	0	75.8	40 - 125				
Surr: 2-Fluorophenol	3.008	0.20	5	0	60.2	20 - 120				
Surr: 4-Terphenyl-d14	5.029	0.20	5	0	101	40 - 135				
Surr: Nitrobenzene-d5	5.741	0.20	5	0	115	41 - 120				
Surr: Phenol-d6	4.133	0.20	5	0	82.7	20 - 120				

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071089

QC BATCH REPORT

Batch ID: 155764 (0)		Instrument: SV-7		Method: LOW-LEVEL SEMIVOLATILES BY 8270D						
MSD	Sample ID: HS20070941-16MSD	Units: ug/L			Analysis Date: 31-Jul-2020 16:14					
Client ID:	Run ID: SV-6_365998	SeqNo: 5682136	PrepDate: 24-Jul-2020	DF: 1						
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Diphenylhydrazine	4.035	0.20	5	0	80.7	39 - 127	3.899	3.44	20	
2,4-Dimethylphenol	3.511	0.20	5	0	70.2	35 - 120	3.403	3.14	20	
2,4-Dinitrotoluene	4.408	0.20	5	0	88.2	50 - 122	4.553	3.24	20	
2,6-Dinitrotoluene	4.32	0.20	5	0	86.4	50 - 120	4.164	3.68	20	
2-Chloronaphthalene	3.571	0.20	5	0	71.4	50 - 120	3.493	2.21	20	
2-Methylnaphthalene	3.518	0.10	5	0	70.4	50 - 120	3.445	2.07	20	
4,6-Dinitro-2-methylphenol	4.245	0.20	5	0	84.9	25 - 121	4.762	11.5	30	
4-Nitrophenol	5.333	1.0	5	0	107	30 - 130	5.13	3.89	20	
Acenaphthene	3.269	0.10	5	0	65.4	45 - 120	3.248	0.662	20	
Acenaphthylene	3.223	0.10	5	0	64.5	47 - 120	3.247	0.749	20	
Anthracene	4.182	0.10	5	0.02417	83.2	45 - 120	4.194	0.29	20	
Benz(a)anthracene	4.792	0.10	5	0	95.8	40 - 120	4.434	7.76	20	
Benzo(a)pyrene	4.807	0.10	5	0	96.1	45 - 120	4.617	4.02	20	
Bis(2-chloroethoxy)methane	3.631	0.20	5	0	72.6	45 - 120	3.548	2.32	20	
Bis(2-ethylhexyl)phthalate	4.621	0.20	5	0.3014	86.4	40 - 139	4.209	9.32	20	
Chrysene	4.291	0.10	5	0	85.8	43 - 120	4.097	4.64	20	
Dibenzofuran	3.591	0.10	5	0	71.8	50 - 120	3.53	1.72	20	
Di-n-butyl phthalate	4.592	0.20	5	0	91.8	45 - 123	4.388	4.55	20	
Fluoranthene	4.963	0.10	5	0.04031	98.5	45 - 125	4.778	3.8	20	
Fluorene	3.74	0.10	5	0	74.8	49 - 120	3.758	0.472	20	
Naphthalene	3.449	0.10	5	0.07298	67.5	45 - 120	3.377	2.11	20	
Nitrobenzene	4.478	0.20	5	0	89.6	44 - 120	4.515	0.816	20	
N-Nitrosodiphenylamine	3.873	0.20	5	0	77.5	40 - 125	3.756	3.07	20	
Pentachlorophenol	3.913	0.20	5	0	78.3	19 - 121	3.95	0.942	20	
Phenanthrene	4.387	0.10	5	0.06853	86.4	45 - 121	4.29	2.23	20	
Phenol	3.243	0.20	5	0	64.9	20 - 124	3.124	3.75	20	
Pyrene	4.748	0.10	5	0.02832	94.4	40 - 130	4.416	7.23	20	
<i>Surr: 2,4,6-Tribromophenol</i>	<i>4.756</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>95.1</i>	<i>34 - 129</i>	<i>4.745</i>	<i>0.223</i>	<i>20</i>	
<i>Surr: 2-Fluorobiphenyl</i>	<i>3.813</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>76.3</i>	<i>40 - 125</i>	<i>3.792</i>	<i>0.532</i>	<i>20</i>	
<i>Surr: 2-Fluorophenol</i>	<i>2.919</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>58.4</i>	<i>20 - 120</i>	<i>3.008</i>	<i>3</i>	<i>20</i>	
<i>Surr: 4-Terphenyl-d14</i>	<i>5.181</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>104</i>	<i>40 - 135</i>	<i>5.029</i>	<i>2.98</i>	<i>20</i>	
<i>Surr: Nitrobenzene-d5</i>	<i>5.756</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>115</i>	<i>41 - 120</i>	<i>5.741</i>	<i>0.256</i>	<i>20</i>	
<i>Surr: Phenol-d6</i>	<i>4.708</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>94.2</i>	<i>20 - 120</i>	<i>4.133</i>	<i>13</i>	<i>20</i>	

The following samples were analyzed in this batch: HS20071089-02 HS20071089-03

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071089

QC BATCH REPORT

Batch ID: 155783 (0)		Instrument: SV-7		Method: LOW-LEVEL SEMIVOLATILES BY 8270D						
MBLK	Sample ID: MBLK-155783	Units: ug/L			Analysis Date: 30-Jul-2020 18:02					
Client ID:	Run ID: SV-7_365974	SeqNo: 5681102	PrepDate: 25-Jul-2020	DF: 1						
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Diphenylhydrazine	U	0.20								
2,4-Dimethylphenol	U	0.20								
2,4-Dinitrotoluene	U	0.20								
2,6-Dinitrotoluene	U	0.20								
2-Chloronaphthalene	U	0.20								
2-Methylnaphthalene	U	0.10								
4,6-Dinitro-2-methylphenol	U	0.20								
4-Nitrophenol	U	1.0								
Acenaphthene	U	0.10								
Acenaphthylene	U	0.10								
Anthracene	U	0.10								
Benz(a)anthracene	U	0.10								
Benzo(a)pyrene	U	0.10								
Bis(2-chloroethoxy)methane	U	0.20								
Bis(2-ethylhexyl)phthalate	U	0.20								
Chrysene	U	0.10								
Dibenzofuran	U	0.10								
Di-n-butyl phthalate	U	0.20								
Fluoranthene	U	0.10								
Fluorene	U	0.10								
Naphthalene	U	0.10								
Nitrobenzene	U	0.20								
N-Nitrosodiphenylamine	U	0.20								
Pentachlorophenol	U	0.20								
Phenanthrene	U	0.10								
Phenol	U	0.20								
Pyrene	U	0.10								
<i>Surr: 2,4,6-Tribromophenol</i>	<i>3.487</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>69.7</i>	<i>34 - 129</i>				
<i>Surr: 2-Fluorobiphenyl</i>	<i>3.213</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>64.3</i>	<i>40 - 125</i>				
<i>Surr: 2-Fluorophenol</i>	<i>3.307</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>66.1</i>	<i>20 - 120</i>				
<i>Surr: 4-Terphenyl-d14</i>	<i>4.415</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>88.3</i>	<i>40 - 135</i>				
<i>Surr: Nitrobenzene-d5</i>	<i>3.633</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>72.7</i>	<i>41 - 120</i>				
<i>Surr: Phenol-d6</i>	<i>3.909</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>78.2</i>	<i>20 - 120</i>				

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071089

QC BATCH REPORT

Batch ID: 155783 (0)		Instrument: SV-7		Method: LOW-LEVEL SEMIVOLATILES BY 8270D						
LCS	Sample ID: LCS-155783	Units: ug/L			Analysis Date: 30-Jul-2020 18:22					
Client ID:	Run ID: SV-7_365974	SeqNo: 5681103		PrepDate: 25-Jul-2020		DF: 1				
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Diphenylhydrazine	3.916	0.20	5	0	78.3	39 - 127				
2,4-Dimethylphenol	2.517	0.20	5	0	50.3	35 - 120				
2,4-Dinitrotoluene	2.901	0.20	5	0	58.0	50 - 122				
2,6-Dinitrotoluene	2.861	0.20	5	0	57.2	50 - 120				
2-Chloronaphthalene	2.954	0.20	5	0	59.1	50 - 120				
2-Methylnaphthalene	2.738	0.10	5	0	54.8	50 - 120				
4,6-Dinitro-2-methylphenol	3.16	0.20	5	0	63.2	25 - 121				
4-Nitrophenol	2.82	1.0	5	0	56.4	30 - 130				
Acenaphthene	2.711	0.10	5	0	54.2	45 - 120				
Acenaphthylene	3.041	0.10	5	0	60.8	47 - 120				
Anthracene	3.172	0.10	5	0	63.4	45 - 120				
Benz(a)anthracene	3.266	0.10	5	0	65.3	40 - 120				
Benzo(a)pyrene	3.02	0.10	5	0	60.4	45 - 120				
Bis(2-chloroethoxy)methane	3.136	0.20	5	0	62.7	45 - 120				
Bis(2-ethylhexyl)phthalate	3.684	0.20	5	0	73.7	40 - 139				
Chrysene	3.042	0.10	5	0	60.8	43 - 120				
Dibenzofuran	2.828	0.10	5	0	56.6	50 - 120				
Di-n-butyl phthalate	3.541	0.20	5	0	70.8	45 - 123				
Fluoranthene	2.937	0.10	5	0	58.7	45 - 125				
Fluorene	2.955	0.10	5	0	59.1	49 - 120				
Naphthalene	2.701	0.10	5	0	54.0	45 - 120				
Nitrobenzene	3.103	0.20	5	0	62.1	44 - 120				
N-Nitrosodiphenylamine	3.061	0.20	5	0	61.2	40 - 125				
Pentachlorophenol	2.217	0.20	5	0	44.3	19 - 121				
Phenanthrene	3.042	0.10	5	0	60.8	45 - 121				
Phenol	3.152	0.20	5	0	63.0	20 - 124				
Pyrene	2.782	0.10	5	0	55.6	40 - 130				
<i>Surr: 2,4,6-Tribromophenol</i>	<i>3.635</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>72.7</i>	<i>34 - 129</i>				
<i>Surr: 2-Fluorobiphenyl</i>	<i>2.934</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>58.7</i>	<i>40 - 125</i>				
<i>Surr: 2-Fluorophenol</i>	<i>3.569</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>71.4</i>	<i>20 - 120</i>				
<i>Surr: 4-Terphenyl-d14</i>	<i>3.256</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>65.1</i>	<i>40 - 135</i>				
<i>Surr: Nitrobenzene-d5</i>	<i>3.347</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>66.9</i>	<i>41 - 120</i>				
<i>Surr: Phenol-d6</i>	<i>3.979</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>79.6</i>	<i>20 - 120</i>				

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071089

QC BATCH REPORT

Batch ID: 155783 (0)		Instrument: SV-7		Method: LOW-LEVEL SEMIVOLATILES BY 8270D						
MS		Sample ID: HS20071089-21MS		Units: ug/L		Analysis Date: 31-Jul-2020 00:50				
Client ID: WG-1620-MW67B-20200722		Run ID: SV-7_365974		SeqNo: 5681119		PrepDate: 25-Jul-2020		DF: 1		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
1,2-Diphenylhydrazine	4.222	0.20	5	0	84.4	39 - 127				
2,4-Dimethylphenol	2.727	0.20	5	0	54.5	35 - 120				
2,4-Dinitrotoluene	3.749	0.20	5	0	75.0	50 - 122				
2,6-Dinitrotoluene	3.453	0.20	5	0	69.1	50 - 120				
2-Chloronaphthalene	3.085	0.20	5	0	61.7	50 - 120				
2-Methylnaphthalene	3.013	0.10	5	0.1202	57.9	50 - 120				
4,6-Dinitro-2-methylphenol	4.165	0.20	5	0	83.3	25 - 121				
4-Nitrophenol	3.839	1.0	5	0	76.8	30 - 130				
Acenaphthene	2.643	0.10	5	0.0505	51.8	45 - 120				
Acenaphthylene	2.9	0.10	5	0	58.0	47 - 120				
Anthracene	4.286	0.10	5	0	85.7	45 - 120				
Benz(a)anthracene	5.953	0.10	5	0	119	40 - 120				
Benzo(a)pyrene	6.334	0.10	5	0	127	45 - 120			S	
Bis(2-chloroethoxy)methane	3.381	0.20	5	0	67.6	45 - 120				
Bis(2-ethylhexyl)phthalate	7.071	0.20	5	0.3023	135	40 - 139				
Chrysene	5.499	0.10	5	0	110	43 - 120				
Dibenzofuran	2.926	0.10	5	0	58.5	50 - 120				
Di-n-butyl phthalate	5.834	0.20	5	0.05361	116	45 - 123				
Fluoranthene	5.006	0.10	5	0	100	45 - 125				
Fluorene	3.062	0.10	5	0	61.2	49 - 120				
Naphthalene	3.653	0.10	5	0.6386	60.3	45 - 120				
Nitrobenzene	3.489	0.20	5	0	69.8	44 - 120				
N-Nitrosodiphenylamine	3.837	0.20	5	0	76.7	40 - 125				
Pentachlorophenol	3.979	0.20	5	0	79.6	19 - 121				
Phenanthrene	4.206	0.10	5	0.05276	83.1	45 - 121				
Phenol	3.1	0.20	5	0	62.0	20 - 124				
Pyrene	4.788	0.10	5	0	95.8	40 - 130				
Surr: 2,4,6-Tribromophenol	4.588	0.20	5	0	91.8	34 - 129				
Surr: 2-Fluorobiphenyl	2.922	0.20	5	0	58.4	40 - 125				
Surr: 2-Fluorophenol	2.964	0.20	5	0	59.3	20 - 120				
Surr: 4-Terphenyl-d14	5.444	0.20	5	0	109	40 - 135				
Surr: Nitrobenzene-d5	3.454	0.20	5	0	69.1	41 - 120				
Surr: Phenol-d6	3.87	0.20	5	0	77.4	20 - 120				

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071089

QC BATCH REPORT

Batch ID: 155783 (0)		Instrument: SV-7		Method: LOW-LEVEL SEMIVOLATILES BY 8270D						
MSD	Sample ID: HS20071089-21MSD	Units: ug/L			Analysis Date: 31-Jul-2020 01:10					
Client ID: WG-1620-MW67B-20200722	Run ID: SV-7_365974	SeqNo: 5681120	PrepDate: 25-Jul-2020	DF: 1						
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Diphenylhydrazine	4.524	0.20	5	0	90.5	39 - 127	4.222	6.9	20	
2,4-Dimethylphenol	2.674	0.20	5	0	53.5	35 - 120	2.727	1.98	20	
2,4-Dinitrotoluene	3.979	0.20	5	0	79.6	50 - 122	3.749	5.94	20	
2,6-Dinitrotoluene	3.606	0.20	5	0	72.1	50 - 120	3.453	4.31	20	
2-Chloronaphthalene	3.349	0.20	5	0	67.0	50 - 120	3.085	8.18	20	
2-Methylnaphthalene	3.334	0.10	5	0.1202	64.3	50 - 120	3.013	10.1	20	
4,6-Dinitro-2-methylphenol	4.205	0.20	5	0	84.1	25 - 121	4.165	0.957	30	
4-Nitrophenol	3.884	1.0	5	0	77.7	30 - 130	3.839	1.16	20	
Acenaphthene	2.963	0.10	5	0.0505	58.3	45 - 120	2.643	11.4	20	
Acenaphthylene	3.298	0.10	5	0	66.0	47 - 120	2.9	12.8	20	
Anthracene	4.336	0.10	5	0	86.7	45 - 120	4.286	1.16	20	
Benz(a)anthracene	5.631	0.10	5	0	113	40 - 120	5.953	5.56	20	
Benzo(a)pyrene	6.277	0.10	5	0	126	45 - 120	6.334	0.892	20	S
Bis(2-chloroethoxy)methane	3.37	0.20	5	0	67.4	45 - 120	3.381	0.299	20	
Bis(2-ethylhexyl)phthalate	6.685	0.20	5	0.3023	128	40 - 139	7.071	5.61	20	
Chrysene	4.663	0.10	5	0	93.3	43 - 120	5.499	16.4	20	
Dibenzofuran	3.137	0.10	5	0	62.7	50 - 120	2.926	6.97	20	
Di-n-butyl phthalate	5.69	0.20	5	0.05361	113	45 - 123	5.834	2.51	20	
Fluoranthene	4.987	0.10	5	0	99.7	45 - 125	5.006	0.369	20	
Fluorene	3.387	0.10	5	0	67.7	49 - 120	3.062	10.1	20	
Naphthalene	3.875	0.10	5	0.6386	64.7	45 - 120	3.653	5.91	20	
Nitrobenzene	3.632	0.20	5	0	72.6	44 - 120	3.489	4.02	20	
N-Nitrosodiphenylamine	4.058	0.20	5	0	81.2	40 - 125	3.837	5.6	20	
Pentachlorophenol	3.673	0.20	5	0	73.5	19 - 121	3.979	8.01	20	
Phenanthrene	4.432	0.10	5	0.05276	87.6	45 - 121	4.206	5.25	20	
Phenol	3.056	0.20	5	0	61.1	20 - 124	3.1	1.42	20	
Pyrene	4.801	0.10	5	0	96.0	40 - 130	4.788	0.274	20	
Surr: 2,4,6-Tribromophenol	4.559	0.20	5	0	91.2	34 - 129	4.588	0.649	20	
Surr: 2-Fluorobiphenyl	3.028	0.20	5	0	60.6	40 - 125	2.922	3.55	20	
Surr: 2-Fluorophenol	3.078	0.20	5	0	61.6	20 - 120	2.964	3.75	20	
Surr: 4-Terphenyl-d14	5.06	0.20	5	0	101	40 - 135	5.444	7.32	20	
Surr: Nitrobenzene-d5	3.78	0.20	5	0	75.6	41 - 120	3.454	9	20	
Surr: Phenol-d6	3.697	0.20	5	0	73.9	20 - 120	3.87	4.58	20	

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071089

QC BATCH REPORT

Batch ID: 155783 (0)	Instrument: SV-7	Method: LOW-LEVEL SEMIVOLATILES BY 8270D
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The following samples were analyzed in this batch:

HS20071089-04	HS20071089-05	HS20071089-06	HS20071089-07
HS20071089-08	HS20071089-09	HS20071089-10	HS20071089-11
HS20071089-12	HS20071089-13	HS20071089-14	HS20071089-15
HS20071089-16	HS20071089-17	HS20071089-18	HS20071089-19
HS20071089-20	HS20071089-21	HS20071089-22	

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071089

QC BATCH REPORT

Batch ID: 155784 (0)		Instrument: SV-7		Method: LOW-LEVEL SEMIVOLATILES BY 8270D						
MBLK	Sample ID: MBLK-155784	Units: ug/L			Analysis Date: 28-Jul-2020 11:01					
Client ID:	Run ID: SV-7_365776	SeqNo: 5678295	PrepDate: 25-Jul-2020	DF: 1						
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Diphenylhydrazine	U	0.20								
2,4-Dimethylphenol	U	0.20								
2,4-Dinitrotoluene	U	0.20								
2,6-Dinitrotoluene	U	0.20								
2-Chloronaphthalene	U	0.20								
2-Methylnaphthalene	U	0.10								
4,6-Dinitro-2-methylphenol	U	0.20								
4-Nitrophenol	U	1.0								
Acenaphthene	U	0.10								
Acenaphthylene	U	0.10								
Anthracene	U	0.10								
Benz(a)anthracene	U	0.10								
Benzo(a)pyrene	U	0.10								
Bis(2-chloroethoxy)methane	U	0.20								
Bis(2-ethylhexyl)phthalate	U	0.20								
Chrysene	U	0.10								
Dibenzofuran	U	0.10								
Di-n-butyl phthalate	U	0.20								
Fluoranthene	U	0.10								
Fluorene	U	0.10								
Naphthalene	U	0.10								
Nitrobenzene	U	0.20								
N-Nitrosodiphenylamine	U	0.20								
Pentachlorophenol	U	0.20								
Phenanthrene	U	0.10								
Phenol	U	0.20								
Pyrene	U	0.10								
<i>Surr: 2,4,6-Tribromophenol</i>	3.746	0.20	5	0	74.9	34 - 129				
<i>Surr: 2-Fluorobiphenyl</i>	2.988	0.20	5	0	59.8	40 - 125				
<i>Surr: 2-Fluorophenol</i>	3.009	0.20	5	0	60.2	20 - 120				
<i>Surr: 4-Terphenyl-d14</i>	3.659	0.20	5	0	73.2	40 - 135				
<i>Surr: Nitrobenzene-d5</i>	3.452	0.20	5	0	69.0	41 - 120				
<i>Surr: Phenol-d6</i>	3.982	0.20	5	0	79.6	20 - 120				

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071089

QC BATCH REPORT

Batch ID: 155784 (0)		Instrument: SV-7		Method: LOW-LEVEL SEMIVOLATILES BY 8270D						
LCS	Sample ID: LCS-155784	Units: ug/L			Analysis Date: 28-Jul-2020 11:21					
Client ID:	Run ID: SV-7_365776	SeqNo: 5678296		PrepDate: 25-Jul-2020		DF: 1				
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Diphenylhydrazine	3.667	0.20	5	0	73.3	39 - 127				
2,4-Dimethylphenol	2.981	0.20	5	0	59.6	35 - 120				
2,4-Dinitrotoluene	3.351	0.20	5	0	67.0	50 - 122				
2,6-Dinitrotoluene	3.239	0.20	5	0	64.8	50 - 120				
2-Chloronaphthalene	3.201	0.20	5	0	64.0	50 - 120				
2-Methylnaphthalene	3.086	0.10	5	0	61.7	50 - 120				
4,6-Dinitro-2-methylphenol	3.269	0.20	5	0	65.4	25 - 121				
4-Nitrophenol	3.564	1.0	5	0	71.3	30 - 130				
Acenaphthene	2.968	0.10	5	0	59.4	45 - 120				
Acenaphthylene	3.291	0.10	5	0	65.8	47 - 120				
Anthracene	3.276	0.10	5	0	65.5	45 - 120				
Benz(a)anthracene	3.728	0.10	5	0	74.6	40 - 120				
Benzo(a)pyrene	3.521	0.10	5	0	70.4	45 - 120				
Bis(2-chloroethoxy)methane	3.287	0.20	5	0	65.7	45 - 120				
Bis(2-ethylhexyl)phthalate	4.084	0.20	5	0	81.7	40 - 139				
Chrysene	3.329	0.10	5	0	66.6	43 - 120				
Dibenzofuran	3.228	0.10	5	0	64.6	50 - 120				
Di-n-butyl phthalate	3.712	0.20	5	0	74.2	45 - 123				
Fluoranthene	3.245	0.10	5	0	64.9	45 - 125				
Fluorene	3.364	0.10	5	0	67.3	49 - 120				
Naphthalene	2.888	0.10	5	0	57.8	45 - 120				
Nitrobenzene	3.357	0.20	5	0	67.1	44 - 120				
N-Nitrosodiphenylamine	3.283	0.20	5	0	65.7	40 - 125				
Pentachlorophenol	2.656	0.20	5	0	53.1	19 - 121				
Phenanthrene	3.309	0.10	5	0	66.2	45 - 121				
Phenol	3.069	0.20	5	0	61.4	20 - 124				
Pyrene	3.412	0.10	5	0	68.2	40 - 130				
<i>Surr: 2,4,6-Tribromophenol</i>	<i>4.127</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>82.5</i>	<i>34 - 129</i>				
<i>Surr: 2-Fluorobiphenyl</i>	<i>3.168</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>63.4</i>	<i>40 - 125</i>				
<i>Surr: 2-Fluorophenol</i>	<i>3.111</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>62.2</i>	<i>20 - 120</i>				
<i>Surr: 4-Terphenyl-d14</i>	<i>3.821</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>76.4</i>	<i>40 - 135</i>				
<i>Surr: Nitrobenzene-d5</i>	<i>3.393</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>67.9</i>	<i>41 - 120</i>				
<i>Surr: Phenol-d6</i>	<i>3.745</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>74.9</i>	<i>20 - 120</i>				

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071089

QC BATCH REPORT

Batch ID: 155784 (0)		Instrument: SV-7		Method: LOW-LEVEL SEMIVOLATILES BY 8270D						
LCSD		Sample ID: LCSD-155784		Units: ug/L		Analysis Date: 28-Jul-2020 11:40				
Client ID:		Run ID: SV-7_365776		SeqNo: 5678297		PrepDate: 25-Jul-2020		DF: 1		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Diphenylhydrazine	4.27	0.20	5	0	85.4	39 - 127	3.667	15.2	20	
2,4-Dimethylphenol	3.341	0.20	5	0	66.8	35 - 120	2.981	11.4	20	
2,4-Dinitrotoluene	3.626	0.20	5	0	72.5	50 - 122	3.351	7.89	20	
2,6-Dinitrotoluene	3.634	0.20	5	0	72.7	50 - 120	3.239	11.5	20	
2-Chloronaphthalene	3.809	0.20	5	0	76.2	50 - 120	3.201	17.3	20	
2-Methylnaphthalene	3.466	0.10	5	0	69.3	50 - 120	3.086	11.6	20	
4,6-Dinitro-2-methylphenol	3.696	0.20	5	0	73.9	25 - 121	3.269	12.3	30	
4-Nitrophenol	3.93	1.0	5	0	78.6	30 - 130	3.564	9.78	20	
Acenaphthene	3.328	0.10	5	0	66.6	45 - 120	2.968	11.4	20	
Acenaphthylene	3.672	0.10	5	0	73.4	47 - 120	3.291	10.9	20	
Anthracene	3.853	0.10	5	0	77.1	45 - 120	3.276	16.2	20	
Benz(a)anthracene	4.388	0.10	5	0	87.8	40 - 120	3.728	16.3	20	
Benzo(a)pyrene	4.05	0.10	5	0	81.0	45 - 120	3.521	14	20	
Bis(2-chloroethoxy)methane	3.696	0.20	5	0	73.9	45 - 120	3.287	11.7	20	
Bis(2-ethylhexyl)phthalate	4.633	0.20	5	0	92.7	40 - 139	4.084	12.6	20	
Chrysene	3.668	0.10	5	0	73.4	43 - 120	3.329	9.7	20	
Dibenzofuran	3.546	0.10	5	0	70.9	50 - 120	3.228	9.38	20	
Di-n-butyl phthalate	4.256	0.20	5	0	85.1	45 - 123	3.712	13.6	20	
Fluoranthene	3.747	0.10	5	0	74.9	45 - 125	3.245	14.3	20	
Fluorene	3.705	0.10	5	0	74.1	49 - 120	3.364	9.65	20	
Naphthalene	3.271	0.10	5	0	65.4	45 - 120	2.888	12.4	20	
Nitrobenzene	3.83	0.20	5	0	76.6	44 - 120	3.357	13.2	20	
N-Nitrosodiphenylamine	3.878	0.20	5	0	77.6	40 - 125	3.283	16.6	20	
Pentachlorophenol	3.057	0.20	5	0	61.1	19 - 121	2.656	14.1	20	
Phenanthrene	3.821	0.10	5	0	76.4	45 - 121	3.309	14.4	20	
Phenol	3.488	0.20	5	0	69.8	20 - 124	3.069	12.8	20	
Pyrene	3.694	0.10	5	0	73.9	40 - 130	3.412	7.94	20	
Surr: 2,4,6-Tribromophenol	4.894	0.20	5	0	97.9	34 - 129	4.127	17	20	
Surr: 2-Fluorobiphenyl	3.433	0.20	5	0	68.7	40 - 125	3.168	8.02	20	
Surr: 2-Fluorophenol	3.502	0.20	5	0	70.0	20 - 120	3.111	11.8	20	
Surr: 4-Terphenyl-d14	4.202	0.20	5	0	84.0	40 - 135	3.821	9.47	20	
Surr: Nitrobenzene-d5	3.924	0.20	5	0	78.5	41 - 120	3.393	14.5	20	
Surr: Phenol-d6	4.36	0.20	5	0	87.2	20 - 120	3.745	15.2	20	

The following samples were analyzed in this batch: HS20071089-23 HS20071089-24

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071089

QC BATCH REPORT

Batch ID: R365688 (0)		Instrument: VOA2		Method: LOW LEVEL VOLATILES BY SW8260C					
MBLK	Sample ID: VBLKW-200724	Units: ug/L			Analysis Date: 24-Jul-2020 12:32				
Client ID:	Run ID: VOA2_365688	SeqNo: 5674709		PrepDate:		DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

1,2-Dichloroethane	U	1.0							
Benzene	U	1.0							
Chlorobenzene	U	1.0							
Ethylbenzene	U	1.0							
Methylene chloride	U	2.0							
Toluene	U	1.0							
Vinyl chloride	U	1.0							
Xylenes, Total	U	1.0							
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>49.5</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>99.0</i>	<i>70 - 123</i>			
<i>Surr: 4-Bromofluorobenzene</i>	<i>49.38</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>98.8</i>	<i>82 - 115</i>			
<i>Surr: Dibromofluoromethane</i>	<i>50.28</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>101</i>	<i>73 - 126</i>			
<i>Surr: Toluene-d8</i>	<i>50.99</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>102</i>	<i>81 - 120</i>			

LCS	Sample ID: VLCSW-200724	Units: ug/L			Analysis Date: 24-Jul-2020 11:44				
Client ID:	Run ID: VOA2_365688	SeqNo: 5674708		PrepDate:		DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

1,2-Dichloroethane	18.64	1.0	20	0	93.2	70 - 124			
Benzene	19.01	1.0	20	0	95.0	74 - 120			
Chlorobenzene	19.15	1.0	20	0	95.8	76 - 113			
Ethylbenzene	19.05	1.0	20	0	95.3	77 - 117			
Methylene chloride	20.38	2.0	20	0	102	70 - 127			
Toluene	19.84	1.0	20	0	99.2	77 - 118			
Vinyl chloride	19.74	1.0	20	0	98.7	70 - 130			
Xylenes, Total	58.74	1.0	60	0	97.9	75 - 122			
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>50.38</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>101</i>	<i>70 - 130</i>			
<i>Surr: 4-Bromofluorobenzene</i>	<i>49.56</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>99.1</i>	<i>82 - 115</i>			
<i>Surr: Dibromofluoromethane</i>	<i>49.29</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>98.6</i>	<i>73 - 126</i>			
<i>Surr: Toluene-d8</i>	<i>50</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>100</i>	<i>81 - 120</i>			

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071089

QC BATCH REPORT

Batch ID: R365688 (0) **Instrument:** VOA2 **Method:** LOW LEVEL VOLATILES BY SW8260C

MS		Sample ID: HS20071044-02MS			Units: ug/L		Analysis Date: 24-Jul-2020 15:25			
Client ID:		Run ID: VOA2_365688			SeqNo: 5674716		PrepDate:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Dichloroethane	17.72	1.0	20	0	88.6	70 - 127				
Benzene	18.04	1.0	20	0	90.2	70 - 127				
Chlorobenzene	18.09	1.0	20	0	90.4	70 - 114				
Ethylbenzene	18.1	1.0	20	0	90.5	70 - 124				
Methylene chloride	18.26	2.0	20	0	91.3	70 - 128				
Toluene	18.72	1.0	20	0	93.6	70 - 123				
Vinyl chloride	17.85	1.0	20	0	89.2	70 - 130				
Xylenes, Total	55.27	1.0	60	0	92.1	70 - 130				
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>51.68</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>103</i>	<i>70 - 126</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>49.47</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>98.9</i>	<i>81 - 113</i>				
<i>Surr: Dibromofluoromethane</i>	<i>50</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>100.0</i>	<i>77 - 123</i>				
<i>Surr: Toluene-d8</i>	<i>50.39</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>101</i>	<i>82 - 127</i>				

MSD		Sample ID: HS20071044-02MSD			Units: ug/L		Analysis Date: 24-Jul-2020 17:30			
Client ID:		Run ID: VOA2_365688			SeqNo: 5674720		PrepDate:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Dichloroethane	17.55	1.0	20	0	87.8	70 - 127	17.72	0.972	20	
Benzene	18.28	1.0	20	0	91.4	70 - 127	18.04	1.35	20	
Chlorobenzene	17.63	1.0	20	0	88.1	70 - 114	18.09	2.58	20	
Ethylbenzene	18.05	1.0	20	0	90.3	70 - 124	18.1	0.26	20	
Methylene chloride	18.83	2.0	20	0	94.2	70 - 128	18.26	3.1	20	
Toluene	20.64	1.0	20	0	103	70 - 123	18.72	9.77	20	
Vinyl chloride	18.41	1.0	20	0	92.1	70 - 130	17.85	3.12	20	
Xylenes, Total	54.6	1.0	60	0	91.0	70 - 130	55.27	1.22	20	
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>50.89</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>102</i>	<i>70 - 126</i>	<i>51.68</i>	<i>1.55</i>	<i>20</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>49.53</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>99.1</i>	<i>81 - 113</i>	<i>49.47</i>	<i>0.125</i>	<i>20</i>	
<i>Surr: Dibromofluoromethane</i>	<i>49.48</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>99.0</i>	<i>77 - 123</i>	<i>50</i>	<i>1.03</i>	<i>20</i>	
<i>Surr: Toluene-d8</i>	<i>49.82</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>99.6</i>	<i>82 - 127</i>	<i>50.39</i>	<i>1.13</i>	<i>20</i>	

The following samples were analyzed in this batch: HS20071089-02 HS20071089-03 HS20071089-04 HS20071089-05

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071089

QC BATCH REPORT

Batch ID: R365691 (0)		Instrument: VOA2		Method: LOW LEVEL VOLATILES BY SW8260C					
MBLK	Sample ID: VBLKW-200724	Units: ug/L			Analysis Date: 25-Jul-2020 00:47				
Client ID:	Run ID: VOA2_365691	SeqNo: 5674851		PrepDate:		DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

1,2-Dichloroethane	U	1.0							
Benzene	U	1.0							
Chlorobenzene	U	1.0							
Ethylbenzene	U	1.0							
Methylene chloride	U	2.0							
Toluene	U	1.0							
Vinyl chloride	U	1.0							
Xylenes, Total	U	1.0							
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>47.81</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>95.6</i>	<i>70 - 123</i>			
<i>Surr: 4-Bromofluorobenzene</i>	<i>49.81</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>99.6</i>	<i>82 - 115</i>			
<i>Surr: Dibromofluoromethane</i>	<i>49.51</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>99.0</i>	<i>73 - 126</i>			
<i>Surr: Toluene-d8</i>	<i>50.04</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>100</i>	<i>81 - 120</i>			

LCS	Sample ID: VLCSW-200724	Units: ug/L			Analysis Date: 24-Jul-2020 23:59				
Client ID:	Run ID: VOA2_365691	SeqNo: 5674850		PrepDate:		DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

1,2-Dichloroethane	16.76	1.0	20	0	83.8	70 - 124			
Benzene	18.02	1.0	20	0	90.1	74 - 120			
Chlorobenzene	17.65	1.0	20	0	88.3	76 - 113			
Ethylbenzene	17.73	1.0	20	0	88.7	77 - 117			
Methylene chloride	20.31	2.0	20	0	102	70 - 127			
Toluene	18.53	1.0	20	0	92.6	77 - 118			
Vinyl chloride	18.79	1.0	20	0	94.0	70 - 130			
Xylenes, Total	54.86	1.0	60	0	91.4	75 - 122			
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>48.68</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>97.4</i>	<i>70 - 130</i>			
<i>Surr: 4-Bromofluorobenzene</i>	<i>48.9</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>97.8</i>	<i>82 - 115</i>			
<i>Surr: Dibromofluoromethane</i>	<i>48.77</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>97.5</i>	<i>73 - 126</i>			
<i>Surr: Toluene-d8</i>	<i>50.58</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>101</i>	<i>81 - 120</i>			

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071089

QC BATCH REPORT

Batch ID: R365691 (0) **Instrument:** VOA2 **Method:** LOW LEVEL VOLATILES BY SW8260C

MS		Sample ID: HS20071089-21MS			Units: ug/L		Analysis Date: 25-Jul-2020 02:23			
Client ID: WG-1620-MW67B-20200722		Run ID: VOA2_365691			SeqNo: 5674855		PrepDate:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Dichloroethane	17.27	1.0	20	0	86.4	70 - 127				
Benzene	18.53	1.0	20	0	92.7	70 - 127				
Chlorobenzene	17.9	1.0	20	0	89.5	70 - 114				
Ethylbenzene	18.09	1.0	20	0	90.4	70 - 124				
Methylene chloride	18.58	2.0	20	0	92.9	70 - 128				
Toluene	19.13	1.0	20	0.3647	93.8	70 - 123				
Vinyl chloride	19.09	1.0	20	0	95.4	70 - 130				
Xylenes, Total	55.56	1.0	60	0	92.6	70 - 130				
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>50</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>100</i>	<i>70 - 126</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>48.84</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>97.7</i>	<i>81 - 113</i>				
<i>Surr: Dibromofluoromethane</i>	<i>49.76</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>99.5</i>	<i>77 - 123</i>				
<i>Surr: Toluene-d8</i>	<i>50.37</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>101</i>	<i>82 - 127</i>				

MSD		Sample ID: HS20071089-21MSD			Units: ug/L		Analysis Date: 25-Jul-2020 02:47			
Client ID: WG-1620-MW67B-20200722		Run ID: VOA2_365691			SeqNo: 5674856		PrepDate:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Dichloroethane	16.95	1.0	20	0	84.7	70 - 127	17.27	1.91	20	
Benzene	18.49	1.0	20	0	92.4	70 - 127	18.53	0.236	20	
Chlorobenzene	18.04	1.0	20	0	90.2	70 - 114	17.9	0.823	20	
Ethylbenzene	18.14	1.0	20	0	90.7	70 - 124	18.09	0.32	20	
Methylene chloride	18.19	2.0	20	0	91.0	70 - 128	18.58	2.08	20	
Toluene	19.24	1.0	20	0.3647	94.4	70 - 123	19.13	0.55	20	
Vinyl chloride	19.74	1.0	20	0	98.7	70 - 130	19.09	3.36	20	
Xylenes, Total	55.4	1.0	60	0	92.3	70 - 130	55.56	0.297	20	
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>49.32</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>98.6</i>	<i>70 - 126</i>	<i>50</i>	<i>1.38</i>	<i>20</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>48.61</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>97.2</i>	<i>81 - 113</i>	<i>48.84</i>	<i>0.465</i>	<i>20</i>	
<i>Surr: Dibromofluoromethane</i>	<i>49.06</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>98.1</i>	<i>77 - 123</i>	<i>49.76</i>	<i>1.41</i>	<i>20</i>	
<i>Surr: Toluene-d8</i>	<i>49.28</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>98.6</i>	<i>82 - 127</i>	<i>50.37</i>	<i>2.19</i>	<i>20</i>	

The following samples were analyzed in this batch:

HS20071089-01	HS20071089-06	HS20071089-07	HS20071089-08
HS20071089-09	HS20071089-10	HS20071089-11	HS20071089-12
HS20071089-13	HS20071089-14	HS20071089-15	HS20071089-16
HS20071089-17	HS20071089-18	HS20071089-19	HS20071089-20
HS20071089-21	HS20071089-22	HS20071089-23	HS20071089-24

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071089

QC BATCH REPORT

Batch ID: R365748 (0)	Instrument: VOA4	Method: LOW LEVEL VOLATILES BY SW8260C
--------------------------------	-------------------------	---

MBLK		Sample ID: VBLKW-200727			Units: ug/L		Analysis Date: 27-Jul-2020 16:34			
Client ID:		Run ID: VOA4_365748			SeqNo: 5676269		PrepDate:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	U	1.0								
Toluene	U	1.0								
<i>Surr: 1,2-Dichloroethane-d4</i>	53.48	1.0	50	0	107	70 - 123				
<i>Surr: 4-Bromofluorobenzene</i>	50.4	1.0	50	0	101	82 - 115				
<i>Surr: Dibromofluoromethane</i>	51.79	1.0	50	0	104	73 - 126				
<i>Surr: Toluene-d8</i>	49.37	1.0	50	0	98.7	81 - 120				

LCS		Sample ID: VLCSW-200727			Units: ug/L		Analysis Date: 27-Jul-2020 15:43			
Client ID:		Run ID: VOA4_365748			SeqNo: 5676268		PrepDate:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	18.63	1.0	20	0	93.1	74 - 120				
Toluene	18.47	1.0	20	0	92.4	77 - 118				
<i>Surr: 1,2-Dichloroethane-d4</i>	49.54	1.0	50	0	99.1	70 - 130				
<i>Surr: 4-Bromofluorobenzene</i>	49.95	1.0	50	0	99.9	82 - 115				
<i>Surr: Dibromofluoromethane</i>	49.15	1.0	50	0	98.3	73 - 126				
<i>Surr: Toluene-d8</i>	49.05	1.0	50	0	98.1	81 - 120				

MS		Sample ID: HS20071166-01MS			Units: ug/L		Analysis Date: 27-Jul-2020 17:28			
Client ID:		Run ID: VOA4_365748			SeqNo: 5676271		PrepDate:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	19.12	1.0	20	0	95.6	70 - 127				
Toluene	19.16	1.0	20	0	95.8	70 - 123				
<i>Surr: 1,2-Dichloroethane-d4</i>	51.12	1.0	50	0	102	70 - 126				
<i>Surr: 4-Bromofluorobenzene</i>	50.31	1.0	50	0	101	81 - 113				
<i>Surr: Dibromofluoromethane</i>	50.38	1.0	50	0	101	77 - 123				
<i>Surr: Toluene-d8</i>	48.95	1.0	50	0	97.9	82 - 127				

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071089

QC BATCH REPORT

Batch ID: R365748 (0) **Instrument:** VOA4 **Method:** LOW LEVEL VOLATILES BY SW8260C

MSD		Sample ID: HS20071166-01MSD			Units: ug/L		Analysis Date: 27-Jul-2020 17:53			
Client ID:		Run ID: VOA4_365748			SeqNo: 5676272		PrepDate:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	19.08	1.0	20	0	95.4	70 - 127	19.12	0.216	20	
Toluene	19.36	1.0	20	0	96.8	70 - 123	19.16	1.05	20	
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>51.51</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>103</i>	<i>70 - 126</i>	<i>51.12</i>	<i>0.76</i>	<i>20</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>50.71</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>101</i>	<i>81 - 113</i>	<i>50.31</i>	<i>0.794</i>	<i>20</i>	
<i>Surr: Dibromofluoromethane</i>	<i>50.6</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>101</i>	<i>77 - 123</i>	<i>50.38</i>	<i>0.44</i>	<i>20</i>	
<i>Surr: Toluene-d8</i>	<i>49.16</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>98.3</i>	<i>82 - 127</i>	<i>48.95</i>	<i>0.439</i>	<i>20</i>	

The following samples were analyzed in this batch:

HS20071089-04	HS20071089-05	HS20071089-06
---------------	---------------	---------------

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071089

**QUALIFIERS,
ACRONYMS, UNITS**

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
mg/L	Milligrams per Liter

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	20-030-0	26-Mar-2021
California	2919, 2020-2021	30-Apr-2021
Dept of Defense	ANAB L2231 V009	22-Dec-2021
Florida	E87611-30-07/01/2020	30-Jun-2021
Illinois	2000322020-4	09-May-2021
Kentucky	123043, 2020-2021	30-Apr-2021
Louisiana	03087, 2020-2021	30-Jun-2021
Maryland	343, 2019-2020	30-Sep-2020
North Carolina	624-2020	31-Dec-2020
North Dakota	R-193 2020-2021	30-Apr-2021
Oklahoma	2019-141	31-Aug-2020
Texas	T104704231-20-26	30-Apr-2021

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
Work Order: HS20071089

SAMPLE TRACKING

Lab Samp ID	Client Sample ID	Action	Date	Person	New Location
HS20071089-01	WQ-1620-TB04-20200722	Login	7/23/2020 4:24:33 PM	JRM	VOA016
HS20071089-02	WG-1620-MW50A-20200720	Login	7/23/2020 4:24:33 PM	JRM	EXT090
HS20071089-02	WG-1620-MW50A-20200720	Login	7/23/2020 4:24:33 PM	JRM	MET032
HS20071089-02	WG-1620-MW50A-20200720	Login	7/23/2020 4:24:33 PM	JRM	VOA016

Sample Receipt Checklist

Work Order ID: HS20071089

Date/Time Received: 23-Jul-2020 11:30

Client Name: PBW

Received by: Paresh M. Giga

Completed By: /S/ Jared R. Makan	23-Jul-2020 19:29	Reviewed by: /S/ Dane J. Wacasey	29-Jul-2020 19:07
eSignature	Date/Time	eSignature	Date/Time

Matrices: **Water**

Carrier name: **Client**

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- VOA/TX1005/TX1006 Solids in hermetically sealed vials? Yes No Not Present
- Chain of custody present? Yes No 4 Page(s)
- Chain of custody signed when relinquished and received? Yes No COC IDs:227025, 227020, 227157, 227026
- Samplers name present on COC? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container/Temp Blank temperature in compliance? Yes No

Temperature(s)/Thermometer(s): 1.2°C, 1.3°C, 2.4°C, 2.1°C, 4.5°C, 2.4°C Corrected temp IR31

Cooler(s)/Kit(s): 25533, 45870, 46096, 44710, 45579, 46040

Date/Time sample(s) sent to storage: 07/23/2020 19:30

- Water - VOA vials have zero headspace? Yes No No VOA vials submitted
- Water - pH acceptable upon receipt? Yes No N/A
- pH adjusted? Yes No N/A

pH adjusted by:

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:



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COC ID: 227025

HS20071089

Golder Associates Inc.
Houston TX-Wood Preserving Works



ALS Project Manager:

Customer Information		Project Information	
Purchase Order	UPRR/Kevin Peterburs	Project Name	Houston TX-Wood Preserving Works
Work Order		Project Number	1620-07-Rev0 SR 92683
Company Name	Golder Associates	Bill To Company	Union Pacific Railroad- A/P
Send Report To	Eric Matzner	Invoice Attn	Accounts Payable
Address	2201 Double Creek Drive	Address	1400 Douglas Street
	Suite 4004		Stop 0750
City/State/Zip	Round Rock, TX 78664	City/State/Zip	Omaha NE 681790750
Phone	(512) 671-3434	Phone	
Fax	(512) 671-3445	Fax	
e-Mail Address	eric.matzner@pbwilc.com	e-Mail Address	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	WQ-1620-TB0 <u>4</u> -202007 <u>22</u>			Water	1	2		X									
2	WG-1620-MW50A-20200720	7-20-20	1635	Groundwa	1,2,8	6	X		X	X							
3	WG-1620-MW81B-20200720	7-20-20	1725				X		X	X							
4	WG-1620-MW49B-20200721	7-21-20	1155					X	X	X							
5	WG-1620-MW7MB-20200721		1250				X		X	X							
6	WG-1620-MW79A-20200721		1345				X		X	X							
7	WG-1620-MW75B-20200721		1430				X		X	X							
8	WG-1620-MW47A-20200721		1530				X		X	X							
9	WG-1620-MW59B-20200721		1625					X	X	X							
10	WG-1620-MW59A-20200721		1710					X	X	X							

Sampler(s) Please Print & Sign JOHN BRAYTON <i>John Br</i>		Shipment Method HAND DELIVERED	Required Turnaround Time: (Check Box) <input checked="" type="checkbox"/> STD 10 Wk Days <input type="checkbox"/> 5 Wk Days <input type="checkbox"/> 2 Wk Days <input type="checkbox"/> 24 Hour	Other <input type="checkbox"/>	Results Due Date:
Relinquished by: <i>John Br</i>	Date: 7-23-20	Time: 11:30	Received by:	Notes: UPRR Houston MWPPW	
Relinquished by:	Date:	Time:	Received by (Laboratory): <i>7/25/2020 11:30</i>	Cooler ID	Cooler Temp.
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	44710	2.10
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035				46096	2.40
				45870	1.30
				25533	1.20
				45579	4.50

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COC ID: 227020

IS20071089

Golder Associates Inc.
Houston TX-Wood Preserving Works



ALS Project Manager:

Customer Information		Project Information													
Purchase Order	UPRR/Kevin Peterburs	Project Name	Houston TX-Wood Preserving Works	A	8260_LL_W (5632528 Volatile Organics Site Specific)										
Work Order		Project Number	1620-07-Rev0 SR 92688	B	8260_LL_W (5632528 VOC Site Specific + V.C.)										
Company Name	Golder Associates	Bill To Company	Union Pacific Railroad- A/P	C	8270_LOW_W (5632532 SemiVolatiles Site specific)										
Send Report To	Eric Matzner	Invoice Attn	Accounts Payable	D	ICP_TW (5636002 5652646 Metals - As)										
Address	2201 Double Creek Drive	Address	1400 Douglas Street	E											
	Suite 4004		Stop 0750	F											
City/State/Zip	Round Rock, TX 78664	City/State/Zip	Omaha NE 681790750	G											
Phone	(512) 671-3434	Phone		H											
Fax	(512) 671-3446	Fax		I											
e-Mail Address	eric.matzner@pbwllc.com	e-Mail Address		J											

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	WG-1620-TB0-202007			Water	1	2		X									
2	WG-1620-MW69A-20200721	7-21-20	1815	Groundwa	1,2,8	6		X	X	X							
3	WG-1620-MW83C-20200722	7-22-20	0735				X		X	X							
4	WG-1620-MW83B-20200722		0825				X		X	X							
5	WG-1620-DUP02-20200722		0825				X		X	X							
6	WG-1620-MW25A-20200722		0920					X	X	X							
7	WG-1620-MW25C-20200722		1010					X	X	X							
8																	
9																	
10																	

Sampler(s) Please Print & Sign JOHN BRAXTON <i>John Braxton</i>		Shipment Method HAND DELIVERED		Required Turnaround Time: (Check Box) <input checked="" type="checkbox"/> STD 10 Wk Days <input type="checkbox"/> 5 Wk Days <input type="checkbox"/> 2 Wk Days <input type="checkbox"/> 24 Hour				Results Due Date:			
Relinquished by: <i>John Braxton</i>	Date: 7-23-20	Time: 11:30	Received by: <i>[Signature]</i>	Notes: UPRR Houston MWPPW							
Relinquished by:	Date:	Time:	Received by (Laboratory): 7/23/2020 11:30	Cooler ID		Cooler Temp.		QC Package: (Check One Box Below)			
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):					<input type="checkbox"/> Level II Std OC <input type="checkbox"/> Level III Std GC/Raw Date <input type="checkbox"/> Level IV SW846/CLP <input type="checkbox"/> Other			
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035										<input checked="" type="checkbox"/> TRRP Checklist <input type="checkbox"/> TRRP Level IV	

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COC ID: 227157

HS20071089

Golder Associates Inc.
Houston TX-Wood Preserving Works



ALS Project Manager:

Customer Information		Project Information		
Purchase Order	UPRR/Kevin Peterburs	Project Name	Houston TX-Wood Preserving Works	A 8260_LL_W (5632528 Volatile Organics Site Specific)
Work Order		Project Number	1620-07-Rev0 SR 92688	B 8260_LL_W (5632528 VOC Site Specific + V.C.)
Company Name	Golder Associates	Bill To Company	Union Pacific Railroad- A/P	C 8270_LOW_W (5632532 SemiVolatiles Site specific)
Send Report To	Eric Matzner	Invoice Attn	Accounts Payable	D ICP_TW (5636002 5652646 Metals - As)
Address	2201 Double Creek Drive	Address	1400 Douglas Street	E
	Suite 4004		Stop 0750	F
City/State/Zip	Round Rock, TX 78664	City/State/Zip	Omaha NE 681790750	G
Phone	(512) 671-3434	Phone		H
Fax	(512) 671-3446	Fax		I
e-Mail Address	eric.matzner@pbwllc.com	e-Mail Address		J

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	WQ-1620-TB0 -202007			Water	1	2		X									
2	WG-1620-MW93B20200722	7-22-20	8:45	Groundwa	1,2,8	6	X		X	X							
3	WG-1620-MW90B20200722	7-22-20	9:45	W	1,2,8	6	X		X	X							
4	WG-1620-MW92B20200722	7-22-20	10:35	W	1,2,8	6	X		X	X							
5	WG-1620-MW89B20200722	7-22-20	11:25	W	1,2,8	6	X		X	X							
6	WG-1620-MW67B20200722	7-22-20	12:30	W	1,2,8	6	X		X	X							
7	WG-1620-MW67BMS20200722	7-22-20	12:30	W	1,2,8	6	X	X	X	X							
8	WG-1620-MW67BMS020200722	7-22-20	12:30	W	1,2,8	6	X	X	X	X							
9	WG-1620-MW35A20200722	7-22-20	14:05	W	1,2,8	6	X		X	X							
10	WG-1620-MW35B20200722	7-22-20	15:10	W	1,2,8	6	X		X	X							

Sampler(s) Please Print & Sign <i>T.M. Spadler</i>	Shipment Method HAND DELIVERED	Required turnaround Time: (Check Box) <input checked="" type="checkbox"/> STD 10 Wk Days <input type="checkbox"/> 5 Wk Days <input type="checkbox"/> 2 Wk Days <input type="checkbox"/> 24 Hour	Other <input type="checkbox"/>	Results Due Date:
Relinquished by: <i>[Signature]</i>	Date: 7-23-20 Time: 11:30	Received by: <i>[Signature]</i>	Notes: UPRR Houston MWPW	
Relinquished by:	Date:	Received by (Laboratory): 7/23/2020 11:30	Cooler ID	Cooler Temp.
Logged by (Laboratory):	Date:	Checked by (Laboratory):	QC Package: (Check One Box Below)	
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035			<input type="checkbox"/> Level II Std GC	<input checked="" type="checkbox"/> TRRP Checklist
			<input type="checkbox"/> Level III Std GC/Raw Data	<input type="checkbox"/> TRRP Level IV
			<input type="checkbox"/> Level IV SW846/CLP	
			<input type="checkbox"/> Other	

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COC ID: 227026

HS20071089

Golder Associates Inc.
Houston TX-Wood Preserving Works



ALS Project Manager:

Customer Information		Project Information		
Purchase Order	UPRR/Kevin Peterburs	Project Name	Houston TX-Wood Preserving Works	A 8260_LL_W (5632528 Volatile Organics Site Specific)
Work Order		Project Number	1620-07-Rev0 SR 92688	B 8260_LL_W (5632528 VOC Site Specific + V.C.)
Company Name	Golder Associates	Bill To Company	Union Pacific Railroad- A/P	C 8270_LOW_W (5632532 Semi/Volatiles Site specific)
Send Report To	Eric Matzner	Invoice Attn	Accounts Payable	D ICP_TW (5636002 5652646 Metals - As)
Address	2201 Double Creek Drive Suite 4004	Address	1400 Douglas Street Stop 0750	E
				F
City/State/Zip	Round Rock, TX 78664	City/State/Zip	Omaha NE 681790750	G
Phone	(512) 671-3434	Phone		H
Fax	(512) 671-3446	Fax		I
e-Mail Address	eric.matzner@pbwilc.com	e-Mail Address		J

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	WQ-1620-TB0 -202007			Water	1	2		X									
2	WG-1620-FB 06 2020 0722	7-22-20	1600	Groundwa	1,2,8	6	X	X	X	X							
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign <i>TIM M. Spalden</i> <i>T. M. Spalden</i>		Shipment Method HAND DELIVERED	Required Turnaround Time: (Check Box) <input checked="" type="checkbox"/> STD 10 Wk Days <input type="checkbox"/> 5 Wk Days <input type="checkbox"/> 2 Wk Days <input type="checkbox"/> 24 Hour				Results Due Date:	
Relinquished by: <i>[Signature]</i>	Date: 7-23-20	Time: 11:30	Received by: <i>[Signature]</i>	Notes: UPRR Houston MWPW				
Relinquished by: <i>[Signature]</i>	Date:	Time:	Received by (Laboratory): 7/23/2020 11:30	Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)		
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	TRRP Checklist
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	TRRP Level IV
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Other

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
 2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
 3. The Chain of Custody is a legal document. All information must be completed accurately.

Copyright 2011 by ALS Environmental.



10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887

August 07, 2020

Eric Matzner
Golder Associates Inc.
2201 Double Creek Drive
Suite 4004
Round Rock, TX 78664

Work Order: **HS20071137**

Laboratory Results for: **Houston TX-Wood Preserving Works**

Dear Eric Matzner,

ALS Environmental received 16 sample(s) on Jul 24, 2020 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: JUMOKE.LAWAL
Dane J. Wacasey

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071137

**TRRP Laboratory Data
Package Cover Page**

This data package consists of all or some of the following as applicable:

This signature page, the laboratory review checklist, and the following reportable data:

- R1 Field chain-of-custody documentation;
- R2 Sample identification cross-reference;
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
 - a) Items consistent with NELAC Chapter 5,
 - b) dilution factors,
 - c) preparation methods,
 - d) cleanup methods, and
 - e) if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate recovery data including:
 - a) Calculated recovery (%R), and
 - b) The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
 - a) LCS spiking amounts,
 - b) Calculated %R for each analyte, and
 - c) The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a) Samples associated with the MS/MSD clearly identified,
 - b) MS/MSD spiking amounts,
 - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d) Calculated %Rs and relative percent differences (RPDs), and
 - e) The laboratory's MS/MSD QC limits.
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
 - a) the amount of analyte measured in the duplicate,
 - b) the calculated RPD, and
 - c) the laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.
- R10 Other problems or anomalies.
The Exception Report for each "No" or "Not Reviewed (NR)" item in Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071137

**TRRP Laboratory Data
Package Cover Page**

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory have been identified by the laboratory in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Check, if applicable: [NA] This laboratory meets an exception under 30 TAC §25.6 and was last inspected by TCEQ or _____ on (enter date of last inspection). Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.



Dane J. Wacasey

Laboratory Review Checklist: Reportable Data							
Laboratory Name: ALS Laboratory Group				LRC Date: 08/07/2020			
Project Name: Houston TX-Wood Preserving Works				Laboratory Job Number: HS20071137			
Reviewer Name: Dane Wacasey				Prep Batch Number: 155837,155865,R365754,R365819,R365831,R365685,R366012			
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
R1	OI	Chain-of-custody (C-O-C)					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?	X				
R2	OI	Sample and quality control (QC) identification					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	Test reports					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?			X		
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW-846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	Surrogate recovery data					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?		X			1
R5	OI	Test reports/summary forms for blank samples					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	Laboratory control samples (LCS):					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?		X			2
R7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?		X			3
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			4
		Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	Analytical duplicate data					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	Method quantitation limits (MQLs):					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	Other problems/anomalies					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Were all necessary corrective actions performed for the reported data?	X				
		Was applicable and available technology used to lower the SDL and minimize the matrix interference affects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Program for the analytes, matrices and methods associated with this laboratory data package?	X				

Laboratory Review Checklist: Supporting Data

Laboratory Name: ALS Laboratory Group		LRC Date: 08/07/2020					
Project Name: Houston TX-Wood Preserving Works		Laboratory Job Number: HS20071137					
Reviewer Name: Dane Wacasey		Prep Batch Number: 155837,155865,R365754,R365819,R365831,R365685,R366012					
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S1	OI	Initial calibration (ICAL)					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB)					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?		X			5
S3	O	Mass spectral tuning:					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	Internal standards (IS):					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	Raw data (NELAC section 1 appendix A glossary, and section 5.12 or ISO/IEC 17025 section					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	Dual column confirmation					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	Tentatively identified compounds (TICs):					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	Interference Check Sample (ICS) results:					
		Were percent recoveries within method QC limits?	X				
S9	I	Serial dilutions, post digestion spikes, and method of standard additions					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	X				
S10	OI	Method detection limit (MDL) studies					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	Proficiency test reports:					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards documentation					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/analyte identification procedures					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of analyst competency (DOC)					
		Was DOC conducted consistent with NELAC Chapter 5C or ISO/IEC 4?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/validation documentation for methods (NELAC Chap 5 or ISO/IEC 17025 Section 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory standard operating procedures (SOPs):					
		Are laboratory SOPs current and on file for each method performed?	X				

Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

O = Organic Analyses; I = Inorganic Analyses (and general chemistry, when applicable);

NA = Not Applicable;

NR = Not Reviewed;

R# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Exception Reports

Laboratory Name: ALS Laboratory Group		LRC Date: 08/07/2020
Project Name: Houston TX-Wood Preserving Works		Laboratory Job Number: HS20071137
Reviewer Name: Dane Wacasey		Prep Batch Number: 155837,155865,R365754,R365819,R365831,R365685,R366012
ER# ⁵	Description	
1	<p>Semivolatile Organics Method SW8270, sample WG-1620-MW44A-20200722, WG-1620-MW45C-20200722, WG-1620-MW46C-20200722, WG-1620-MW71B-20200723 and WG-1620-MW63B-20200723 surrogates 2-Fluorobiphenyl and Nitrobenzene-d5 recovered below the control limit in the original run due to sample matrix, surrogates meet %R limits in sample dilution.</p> <p>Semivolatile Organics Method SW8270, sample WG-1620-MW70B-20200723, the surrogates could not be determined due to dilution below the calibration range.</p>	
2	Batch 155837, Semivolatile Organics Method SW8270, LCS/LCSD RPD was above the RPD limit for select compounds. The individual recoveries met acceptance criteria.	
3	Batch 155837, Semivolatile Organics Method SW8270, LCS/LCSD were analyzed and reported in lieu of an MS/MSD for this batch.	
4	Batch R365831, Volatile Organics Method SW8260, sample WG-1620-MW63B-20200723, MS and or MSD recovered outside the control limit for Toluene and Xylenes, Total due to suspect matrix effect. For Benzene and Ethylbenzene, the result in the parent sample is greater than 4x the spike amount.	
5	See Run Log and CCB Exceptions Report.	
<p>Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.</p> <p>O = Organic Analyses; I = Inorganic Analyses (and general chemistry, when applicable); NA = Not Applicable; NR = Not Reviewed; R# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).</p>		

FORM 13 - ANALYSIS RUN LOG

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071137
Start Date: 29-Jul-2020 **End Date:** 29-Jul-2020

Run ID: ICPMS06_365848
Instrument: ICPMS06
Method: SW6020

Sample No.	D/F	Time	FileID	Analytes
WG-1620-MW44A-20200722	1	29-Jul-2020 22:32	219SMPL.d	AS
WG-1620-MW45C-20200722	1	29-Jul-2020 22:34	220SMPL.d	AS
WG-1620-MW46C-20200722	1	29-Jul-2020 22:36	221SMPL.d	AS
WG-1620-MW54C-20200722	1	29-Jul-2020 22:38	222SMPL.d	AS
WG-1620-DUP03-20200722	1	29-Jul-2020 22:40	223SMPL.d	AS
WG-1620-MW54B-20200722	1	29-Jul-2020 22:42	224SMPL.d	AS
WG-1620-MW99C-20200722	1	29-Jul-2020 22:44	225SMPL.d	AS
WG-1620-MW53C-20200723	1	29-Jul-2020 22:46	226SMPL.d	AS
CCV 20	1	29-Jul-2020 22:48	227_CCV.d	AS
CCB 20	1	29-Jul-2020 22:49	228_CCB.d	AS
WG-1620-MW87C-20200723	1	29-Jul-2020 22:51	229SMPL.d	AS
WG-1620-MW71B-20200723	1	29-Jul-2020 22:53	230SMPL.d	AS
WG-1620-MW63B-20200723	1	29-Jul-2020 22:55	231SMPL.d	AS
WG-1620-MW32AR-20200723	1	29-Jul-2020 22:57	232SMPL.d	AS
WG-1620-MW91A-20200723	1	29-Jul-2020 22:59	233SMPL.d	AS
WG-1620-MW28A-20200723	1	29-Jul-2020 23:01	234SMPL.d	AS
CCV 21	1	29-Jul-2020 23:11	239_CCV.d	AS
CCB 21	1	29-Jul-2020 23:13	240_CCB.d	AS
CCV 22	1	29-Jul-2020 23:19	243_CCV.d	AS
CCB 22	1	29-Jul-2020 23:21	244_CCB.d	AS
LLCCV2	1	29-Jul-2020 23:25	246LCV2.d	AS
LLCCV5	1	29-Jul-2020 23:27	247LCV5.d	AS
ICSA	1	29-Jul-2020 23:29	248ICSA.d	AS
ICSAB	1	29-Jul-2020 23:31	249ICSB.d	AS

CCB EXCEPTIONS REPORT

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071137

Run ID:ICPMS06_365848
Instrument:ICPMS06
Method:SW6020

ICCB 9	Date: 29-Jul-2020 16:15	Seq: 5679066	D/F: 1	Units: ug/L
	Analyte	Result	MDL	Report Limit
	Arsenic	-0.591	0.4	2
CCB 10	Date: 29-Jul-2020 16:37	Seq: 5679076	D/F: 1	Units: ug/L
	Analyte	Result	MDL	Report Limit
	Arsenic	-0.641	0.4	2
CCB 11	Date: 29-Jul-2020 17:08	Seq: 5679088	D/F: 1	Units: ug/L
	Analyte	Result	MDL	Report Limit
	Arsenic	-0.628	0.4	2
CCB 12	Date: 29-Jul-2020 17:29	Seq: 5679095	D/F: 1	Units: ug/L
	Analyte	Result	MDL	Report Limit
	Arsenic	-0.45	0.4	2
CCB 14	Date: 29-Jul-2020 20:46	Seq: 5679109	D/F: 1	Units: ug/L
	Analyte	Result	MDL	Report Limit
	Arsenic	-0.647	0.4	2
CCB 15	Date: 29-Jul-2020 21:09	Seq: 5679121	D/F: 1	Units: ug/L
	Analyte	Result	MDL	Report Limit
	Arsenic	-0.601	0.4	2
CCB 16	Date: 29-Jul-2020 21:32	Seq: 5679133	D/F: 1	Units: ug/L
	Analyte	Result	MDL	Report Limit
	Arsenic	-0.415	0.4	2
CCB 17	Date: 29-Jul-2020 21:46	Seq: 5679140	D/F: 1	Units: ug/L
	Analyte	Result	MDL	Report Limit
	Arsenic	-0.639	0.4	2
CCB 18	Date: 29-Jul-2020 22:09	Seq: 5679145	D/F: 1	Units: ug/L
	Analyte	Result	MDL	Report Limit
	Arsenic	-0.558	0.4	2
CCB 20	Date: 29-Jul-2020 22:49	Seq: 5679173	D/F: 1	Units: ug/L
	Analyte	Result	MDL	Report Limit
	Arsenic	-0.439	0.4	2
CCB 21	Date: 29-Jul-2020 23:13	Seq: 5679315	D/F: 1	Units: ug/L
	Analyte	Result	MDL	Report Limit
	Arsenic	-0.497	0.4	2
CCB 22	Date: 29-Jul-2020 23:21	Seq: 5679319	D/F: 1	Units: ug/L
	Analyte	Result	MDL	Report Limit
	Arsenic	-0.536	0.4	2

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
Work Order: HS20071137

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS20071137-01	WQ-1620-TB05-20200723	Water	CG 061220 -210	22-Jul-2020 00:00	24-Jul-2020 10:25	<input type="checkbox"/>
HS20071137-02	WG-1620-MW44A-20200722	Groundwater		22-Jul-2020 11:05	24-Jul-2020 10:25	<input type="checkbox"/>
HS20071137-03	WG-1620-MW45C-20200722	Groundwater		22-Jul-2020 12:50	24-Jul-2020 10:25	<input type="checkbox"/>
HS20071137-04	WG-1620-MW46C-20200722	Groundwater		22-Jul-2020 13:50	24-Jul-2020 10:25	<input type="checkbox"/>
HS20071137-05	WG-1620-MW54C-20200722	Groundwater		22-Jul-2020 14:50	24-Jul-2020 10:25	<input type="checkbox"/>
HS20071137-06	WG-1620-DUP03-20200722	Groundwater		22-Jul-2020 14:50	24-Jul-2020 10:25	<input type="checkbox"/>
HS20071137-07	WG-1620-MW54B-20200722	Groundwater		22-Jul-2020 15:45	24-Jul-2020 10:25	<input type="checkbox"/>
HS20071137-08	WG-1620-MW99C-20200722	Groundwater		22-Jul-2020 16:35	24-Jul-2020 10:25	<input type="checkbox"/>
HS20071137-09	WG-1620-MW53C-20200723	Groundwater		23-Jul-2020 07:45	24-Jul-2020 10:25	<input type="checkbox"/>
HS20071137-10	WG-1620-MW87C-20200723	Groundwater		23-Jul-2020 08:40	24-Jul-2020 10:25	<input type="checkbox"/>
HS20071137-11	WG-1620-MW71B-20200723	Groundwater		23-Jul-2020 09:30	24-Jul-2020 10:25	<input type="checkbox"/>
HS20071137-12	WG-1620-MW63B-20200723	Groundwater		23-Jul-2020 10:15	24-Jul-2020 10:25	<input type="checkbox"/>
HS20071137-13	WG-1620-MW32AR-20200723	Groundwater		23-Jul-2020 12:50	24-Jul-2020 10:25	<input type="checkbox"/>
HS20071137-14	WG-1620-MW91A-20200723	Groundwater		23-Jul-2020 13:45	24-Jul-2020 10:25	<input type="checkbox"/>
HS20071137-15	WG-1620-MW28A-20200723	Groundwater		23-Jul-2020 14:40	24-Jul-2020 10:25	<input type="checkbox"/>
HS20071137-16	WG-1620-MW70B-20200723	Groundwater		23-Jul-2020 15:25	24-Jul-2020 10:25	<input type="checkbox"/>

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WQ-1620-TB05-20200723
 Collection Date: 22-Jul-2020 00:00

ANALYTICAL REPORT
 WorkOrder:HS20071137
 Lab ID:HS20071137-01
 Matrix:Water

ANALYSES	RESULT	QUAL	SDL	MLL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: PC			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	26-Jul-2020 18:51
Benzene	U		0.00020	0.0010	mg/L	1	26-Jul-2020 18:51
Chlorobenzene	U		0.00030	0.0010	mg/L	1	26-Jul-2020 18:51
Ethylbenzene	U		0.00030	0.0010	mg/L	1	26-Jul-2020 18:51
Methylene chloride	U		0.0010	0.0020	mg/L	1	26-Jul-2020 18:51
Toluene	U		0.00020	0.0010	mg/L	1	26-Jul-2020 18:51
Vinyl chloride	U		0.00020	0.0010	mg/L	1	28-Jul-2020 19:00
Xylenes, Total	U		0.00030	0.0010	mg/L	1	26-Jul-2020 18:51
<i>Surr: 1,2-Dichloroethane-d4</i>		111		70-126	%REC	1	26-Jul-2020 18:51
<i>Surr: 1,2-Dichloroethane-d4</i>		110		70-126	%REC	1	28-Jul-2020 19:00
<i>Surr: 4-Bromofluorobenzene</i>		97.3		81-113	%REC	1	26-Jul-2020 18:51
<i>Surr: 4-Bromofluorobenzene</i>		99.3		81-113	%REC	1	28-Jul-2020 19:00
<i>Surr: Dibromofluoromethane</i>		105		77-123	%REC	1	26-Jul-2020 18:51
<i>Surr: Dibromofluoromethane</i>		102		77-123	%REC	1	28-Jul-2020 19:00
<i>Surr: Toluene-d8</i>		101		82-127	%REC	1	26-Jul-2020 18:51
<i>Surr: Toluene-d8</i>		105		82-127	%REC	1	28-Jul-2020 19:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW44A-20200722
 Collection Date: 22-Jul-2020 11:05

ANALYTICAL REPORT
 WorkOrder:HS20071137
 Lab ID:HS20071137-02
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MLL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: PC			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	26-Jul-2020 19:15
Benzene	U		0.00020	0.0010	mg/L	1	26-Jul-2020 19:15
Chlorobenzene	U		0.00030	0.0010	mg/L	1	26-Jul-2020 19:15
Ethylbenzene	U		0.00030	0.0010	mg/L	1	26-Jul-2020 19:15
Methylene chloride	U		0.0010	0.0020	mg/L	1	26-Jul-2020 19:15
Toluene	U		0.00020	0.0010	mg/L	1	26-Jul-2020 19:15
Vinyl chloride	U		0.00020	0.0010	mg/L	1	28-Jul-2020 19:24
Xylenes, Total	U		0.00030	0.0010	mg/L	1	26-Jul-2020 19:15
<i>Surr: 1,2-Dichloroethane-d4</i>		111		70-126	%REC	1	26-Jul-2020 19:15
<i>Surr: 1,2-Dichloroethane-d4</i>		112		70-126	%REC	1	28-Jul-2020 19:24
<i>Surr: 4-Bromofluorobenzene</i>		99.9		81-113	%REC	1	26-Jul-2020 19:15
<i>Surr: 4-Bromofluorobenzene</i>		101		81-113	%REC	1	28-Jul-2020 19:24
<i>Surr: Dibromofluoromethane</i>		105		77-123	%REC	1	26-Jul-2020 19:15
<i>Surr: Dibromofluoromethane</i>		101		77-123	%REC	1	28-Jul-2020 19:24
<i>Surr: Toluene-d8</i>		102		82-127	%REC	1	26-Jul-2020 19:15
<i>Surr: Toluene-d8</i>		103		82-127	%REC	1	28-Jul-2020 19:24

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW44A-20200722
 Collection Date: 22-Jul-2020 11:05

ANALYTICAL REPORT
 WorkOrder:HS20071137
 Lab ID:HS20071137-02
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 28-Jul-2020		Analyst: GEY	
1,2-Diphenylhydrazine	0.00034		0.000021	0.00020	mg/L	1	06-Aug-2020 19:27
2,4-Dimethylphenol	U		0.000040	0.00020	mg/L	1	06-Aug-2020 19:27
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	06-Aug-2020 19:27
2,6-Dinitrotoluene	U		0.000042	0.00020	mg/L	1	06-Aug-2020 19:27
2-Chloronaphthalene	U		0.000021	0.00020	mg/L	1	06-Aug-2020 19:27
2-Methylnaphthalene	U		0.000019	0.00010	mg/L	1	06-Aug-2020 19:27
4,6-Dinitro-2-methylphenol	0.00011	J	0.000020	0.00020	mg/L	1	06-Aug-2020 19:27
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	06-Aug-2020 19:27
Acenaphthene	0.075		0.00027	0.0010	mg/L	10	06-Aug-2020 19:47
Acenaphthylene	U		0.000015	0.00010	mg/L	1	06-Aug-2020 19:27
Anthracene	0.00022		0.000014	0.00010	mg/L	1	06-Aug-2020 19:27
Benz(a)anthracene	U		0.000050	0.00010	mg/L	1	06-Aug-2020 19:27
Benzo(a)pyrene	U		0.000020	0.00010	mg/L	1	06-Aug-2020 19:27
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	06-Aug-2020 19:27
Bis(2-ethylhexyl)phthalate	U		0.000037	0.00020	mg/L	1	06-Aug-2020 19:27
Chrysene	U		0.000021	0.00010	mg/L	1	06-Aug-2020 19:27
Dibenzofuran	U		0.000020	0.00010	mg/L	1	06-Aug-2020 19:27
Di-n-butyl phthalate	U		0.000020	0.00020	mg/L	1	06-Aug-2020 19:27
Fluoranthene	0.0025		0.000010	0.00010	mg/L	1	06-Aug-2020 19:27
Fluorene	0.020		0.00030	0.0010	mg/L	10	06-Aug-2020 19:47
Naphthalene	0.00016		0.000020	0.00010	mg/L	1	06-Aug-2020 19:27
Nitrobenzene	U		0.000024	0.00020	mg/L	1	06-Aug-2020 19:27
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	06-Aug-2020 19:27
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	06-Aug-2020 19:27
Phenanthrene	U		0.000021	0.00010	mg/L	1	06-Aug-2020 19:27
Phenol	U		0.000035	0.00020	mg/L	1	06-Aug-2020 19:27
Pyrene	0.0022		0.000019	0.00010	mg/L	1	06-Aug-2020 19:27
Surr: 2,4,6-Tribromophenol	67.6			34-129	%REC	10	06-Aug-2020 19:47
Surr: 2,4,6-Tribromophenol	72.5			34-129	%REC	1	06-Aug-2020 19:27
Surr: 2-Fluorobiphenyl	37.1	S		40-125	%REC	1	06-Aug-2020 19:27
Surr: 2-Fluorobiphenyl	72.8			40-125	%REC	10	06-Aug-2020 19:47
Surr: 2-Fluorophenol	76.0			20-120	%REC	10	06-Aug-2020 19:47
Surr: 2-Fluorophenol	30.7			20-120	%REC	1	06-Aug-2020 19:27
Surr: 4-Terphenyl-d14	53.4			40-135	%REC	1	06-Aug-2020 19:27
Surr: 4-Terphenyl-d14	87.6			40-135	%REC	10	06-Aug-2020 19:47
Surr: Nitrobenzene-d5	38.6	S		41-120	%REC	1	06-Aug-2020 19:27
Surr: Nitrobenzene-d5	53.7			41-120	%REC	10	06-Aug-2020 19:47
Surr: Phenol-d6	41.2			20-120	%REC	1	06-Aug-2020 19:27
Surr: Phenol-d6	78.7			20-120	%REC	10	06-Aug-2020 19:47

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW44A-20200722
 Collection Date: 22-Jul-2020 11:05

ANALYTICAL REPORT

WorkOrder:HS20071137
 Lab ID:HS20071137-02
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A	Method:SW6020			Prep:SW3010A / 29-Jul-2020		Analyst: JHD	
Arsenic	0.0321		0.000400	0.00200	mg/L	1	29-Jul-2020 22:32

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW45C-20200722
 Collection Date: 22-Jul-2020 12:50

ANALYTICAL REPORT
 WorkOrder:HS20071137
 Lab ID:HS20071137-03
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: PC			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	26-Jul-2020 19:40
Benzene	0.0026		0.00020	0.0010	mg/L	1	26-Jul-2020 19:40
Chlorobenzene	U		0.00030	0.0010	mg/L	1	26-Jul-2020 19:40
Ethylbenzene	0.011		0.00030	0.0010	mg/L	1	26-Jul-2020 19:40
Methylene chloride	U		0.0010	0.0020	mg/L	1	26-Jul-2020 19:40
Toluene	0.0094		0.00020	0.0010	mg/L	1	26-Jul-2020 19:40
Xylenes, Total	0.029		0.00030	0.0010	mg/L	1	26-Jul-2020 19:40
Surr: 1,2-Dichloroethane-d4	109			70-126	%REC	1	26-Jul-2020 19:40
Surr: 4-Bromofluorobenzene	102			81-113	%REC	1	26-Jul-2020 19:40
Surr: Dibromofluoromethane	104			77-123	%REC	1	26-Jul-2020 19:40
Surr: Toluene-d8	101			82-127	%REC	1	26-Jul-2020 19:40

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW45C-20200722
 Collection Date: 22-Jul-2020 12:50

ANALYTICAL REPORT
 WorkOrder:HS20071137
 Lab ID:HS20071137-03
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 28-Jul-2020		Analyst: GEY	
1,2-Diphenylhydrazine	U		0.000021	0.00020	mg/L	1	06-Aug-2020 20:06
2,4-Dimethylphenol	U		0.000040	0.00020	mg/L	1	06-Aug-2020 20:06
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	06-Aug-2020 20:06
2,6-Dinitrotoluene	U		0.000042	0.00020	mg/L	1	06-Aug-2020 20:06
2-Chloronaphthalene	U		0.000021	0.00020	mg/L	1	06-Aug-2020 20:06
2-Methylnaphthalene	0.044		0.00019	0.0010	mg/L	10	06-Aug-2020 20:26
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	06-Aug-2020 20:06
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	06-Aug-2020 20:06
Acenaphthene	0.035		0.00027	0.0010	mg/L	10	06-Aug-2020 20:26
Acenaphthylene	U		0.000015	0.00010	mg/L	1	06-Aug-2020 20:06
Anthracene	0.025		0.00014	0.0010	mg/L	10	06-Aug-2020 20:26
Benz(a)anthracene	0.0048		0.000050	0.00010	mg/L	1	06-Aug-2020 20:06
Benzo(a)pyrene	0.0016		0.000020	0.00010	mg/L	1	06-Aug-2020 20:06
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	06-Aug-2020 20:06
Bis(2-ethylhexyl)phthalate	U		0.000037	0.00020	mg/L	1	06-Aug-2020 20:06
Chrysene	0.0041		0.000021	0.00010	mg/L	1	06-Aug-2020 20:06
Dibenzofuran	0.033		0.00020	0.0010	mg/L	10	06-Aug-2020 20:26
Di-n-butyl phthalate	U		0.000020	0.00020	mg/L	1	06-Aug-2020 20:06
Fluoranthene	0.042		0.00010	0.0010	mg/L	10	06-Aug-2020 20:26
Fluorene	0.031		0.00030	0.0010	mg/L	10	06-Aug-2020 20:26
Naphthalene	0.27		0.0020	0.010	mg/L	100	06-Aug-2020 20:45
Nitrobenzene	U		0.000024	0.00020	mg/L	1	06-Aug-2020 20:06
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	06-Aug-2020 20:06
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	06-Aug-2020 20:06
Phenanthrene	0.14		0.0021	0.010	mg/L	100	06-Aug-2020 20:45
Phenol	U		0.000035	0.00020	mg/L	1	06-Aug-2020 20:06
Pyrene	0.026		0.00019	0.0010	mg/L	10	06-Aug-2020 20:26
<i>Surr: 2,4,6-Tribromophenol</i>	<i>67.9</i>			<i>34-129</i>	<i>%REC</i>	<i>1</i>	<i>06-Aug-2020 20:06</i>
<i>Surr: 2,4,6-Tribromophenol</i>	<i>49.2</i>			<i>34-129</i>	<i>%REC</i>	<i>10</i>	<i>06-Aug-2020 20:26</i>
<i>Surr: 2,4,6-Tribromophenol</i>	<i>0</i>	<i>JS</i>		<i>34-129</i>	<i>%REC</i>	<i>100</i>	<i>06-Aug-2020 20:45</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>31.4</i>	<i>S</i>		<i>40-125</i>	<i>%REC</i>	<i>1</i>	<i>06-Aug-2020 20:06</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>57.7</i>			<i>40-125</i>	<i>%REC</i>	<i>10</i>	<i>06-Aug-2020 20:26</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>0</i>	<i>JS</i>		<i>40-125</i>	<i>%REC</i>	<i>100</i>	<i>06-Aug-2020 20:45</i>
<i>Surr: 2-Fluorophenol</i>	<i>30.2</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>06-Aug-2020 20:06</i>
<i>Surr: 2-Fluorophenol</i>	<i>37.0</i>	<i>J</i>		<i>20-120</i>	<i>%REC</i>	<i>10</i>	<i>06-Aug-2020 20:26</i>
<i>Surr: 2-Fluorophenol</i>	<i>0</i>	<i>JS</i>		<i>20-120</i>	<i>%REC</i>	<i>100</i>	<i>06-Aug-2020 20:45</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>62.1</i>			<i>40-135</i>	<i>%REC</i>	<i>1</i>	<i>06-Aug-2020 20:06</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>92.4</i>			<i>40-135</i>	<i>%REC</i>	<i>10</i>	<i>06-Aug-2020 20:26</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>0</i>	<i>JS</i>		<i>40-135</i>	<i>%REC</i>	<i>100</i>	<i>06-Aug-2020 20:45</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW45C-20200722
 Collection Date: 22-Jul-2020 12:50

ANALYTICAL REPORT
 WorkOrder:HS20071137
 Lab ID:HS20071137-03
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 28-Jul-2020		Analyst: GEY	
Surr: Nitrobenzene-d5	0	JS		41-120	%REC	100	06-Aug-2020 20:45
Surr: Nitrobenzene-d5	33.7	S		41-120	%REC	1	06-Aug-2020 20:06
Surr: Nitrobenzene-d5	49.7			41-120	%REC	10	06-Aug-2020 20:26
Surr: Phenol-d6	36.9			20-120	%REC	1	06-Aug-2020 20:06
Surr: Phenol-d6	54.4			20-120	%REC	10	06-Aug-2020 20:26
Surr: Phenol-d6	0	JS		20-120	%REC	100	06-Aug-2020 20:45
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 29-Jul-2020		Analyst: JHD	
Arsenic	U		0.000400	0.00200	mg/L	1	29-Jul-2020 22:34

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW46C-20200722
 Collection Date: 22-Jul-2020 13:50

ANALYTICAL REPORT
 WorkOrder:HS20071137
 Lab ID:HS20071137-04
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: PC			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	26-Jul-2020 20:04
Benzene	0.0037		0.00020	0.0010	mg/L	1	26-Jul-2020 20:04
Chlorobenzene	U		0.00030	0.0010	mg/L	1	26-Jul-2020 20:04
Ethylbenzene	0.018		0.00030	0.0010	mg/L	1	26-Jul-2020 20:04
Methylene chloride	U		0.0010	0.0020	mg/L	1	26-Jul-2020 20:04
Toluene	0.0014		0.00020	0.0010	mg/L	1	26-Jul-2020 20:04
Xylenes, Total	0.047		0.00030	0.0010	mg/L	1	26-Jul-2020 20:04
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>110</i>			<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>26-Jul-2020 20:04</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>101</i>			<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>26-Jul-2020 20:04</i>
<i>Surr: Dibromofluoromethane</i>	<i>103</i>			<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>26-Jul-2020 20:04</i>
<i>Surr: Toluene-d8</i>	<i>101</i>			<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>26-Jul-2020 20:04</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW46C-20200722
 Collection Date: 22-Jul-2020 13:50

ANALYTICAL REPORT
 WorkOrder:HS20071137
 Lab ID:HS20071137-04
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 28-Jul-2020		Analyst: GEY	
1,2-Diphenylhydrazine	U		0.000021	0.00020	mg/L	1	06-Aug-2020 21:05
2,4-Dimethylphenol	U		0.000040	0.00020	mg/L	1	06-Aug-2020 21:05
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	06-Aug-2020 21:05
2,6-Dinitrotoluene	U		0.000042	0.00020	mg/L	1	06-Aug-2020 21:05
2-Chloronaphthalene	U		0.000021	0.00020	mg/L	1	06-Aug-2020 21:05
2-Methylnaphthalene	0.059		0.00019	0.0010	mg/L	10	06-Aug-2020 21:25
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	06-Aug-2020 21:05
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	06-Aug-2020 21:05
Acenaphthene	0.054		0.00027	0.0010	mg/L	10	06-Aug-2020 21:25
Acenaphthylene	U		0.000015	0.00010	mg/L	1	06-Aug-2020 21:05
Anthracene	0.026		0.00014	0.0010	mg/L	10	06-Aug-2020 21:25
Benz(a)anthracene	0.0051		0.000050	0.00010	mg/L	1	06-Aug-2020 21:05
Benzo(a)pyrene	0.0019		0.000020	0.00010	mg/L	1	06-Aug-2020 21:05
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	06-Aug-2020 21:05
Bis(2-ethylhexyl)phthalate	0.00032		0.000037	0.00020	mg/L	1	06-Aug-2020 21:05
Chrysene	0.0040		0.000021	0.00010	mg/L	1	06-Aug-2020 21:05
Dibenzofuran	0.050		0.00020	0.0010	mg/L	10	06-Aug-2020 21:25
Di-n-butyl phthalate	U		0.000020	0.00020	mg/L	1	06-Aug-2020 21:05
Fluoranthene	0.049		0.00010	0.0010	mg/L	10	06-Aug-2020 21:25
Fluorene	0.042		0.00030	0.0010	mg/L	10	06-Aug-2020 21:25
Naphthalene	0.29		0.0020	0.010	mg/L	100	06-Aug-2020 21:44
Nitrobenzene	U		0.000024	0.00020	mg/L	1	06-Aug-2020 21:05
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	06-Aug-2020 21:05
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	06-Aug-2020 21:05
Phenanthrene	0.14		0.0021	0.010	mg/L	100	06-Aug-2020 21:44
Phenol	U		0.000035	0.00020	mg/L	1	06-Aug-2020 21:05
Pyrene	0.028		0.00019	0.0010	mg/L	10	06-Aug-2020 21:25
<i>Surr: 2,4,6-Tribromophenol</i>	<i>74.6</i>			<i>34-129</i>	<i>%REC</i>	<i>1</i>	<i>06-Aug-2020 21:05</i>
<i>Surr: 2,4,6-Tribromophenol</i>	<i>74.4</i>			<i>34-129</i>	<i>%REC</i>	<i>10</i>	<i>06-Aug-2020 21:25</i>
<i>Surr: 2,4,6-Tribromophenol</i>	<i>0</i>	<i>JS</i>		<i>34-129</i>	<i>%REC</i>	<i>100</i>	<i>06-Aug-2020 21:44</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>30.4</i>	<i>S</i>		<i>40-125</i>	<i>%REC</i>	<i>1</i>	<i>06-Aug-2020 21:05</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>43.1</i>			<i>40-125</i>	<i>%REC</i>	<i>10</i>	<i>06-Aug-2020 21:25</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>0</i>	<i>JS</i>		<i>40-125</i>	<i>%REC</i>	<i>100</i>	<i>06-Aug-2020 21:44</i>
<i>Surr: 2-Fluorophenol</i>	<i>36.0</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>06-Aug-2020 21:05</i>
<i>Surr: 2-Fluorophenol</i>	<i>43.3</i>			<i>20-120</i>	<i>%REC</i>	<i>10</i>	<i>06-Aug-2020 21:25</i>
<i>Surr: 2-Fluorophenol</i>	<i>0</i>	<i>JS</i>		<i>20-120</i>	<i>%REC</i>	<i>100</i>	<i>06-Aug-2020 21:44</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>54.8</i>			<i>40-135</i>	<i>%REC</i>	<i>1</i>	<i>06-Aug-2020 21:05</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>79.2</i>			<i>40-135</i>	<i>%REC</i>	<i>10</i>	<i>06-Aug-2020 21:25</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>0</i>	<i>JS</i>		<i>40-135</i>	<i>%REC</i>	<i>100</i>	<i>06-Aug-2020 21:44</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW46C-20200722
 Collection Date: 22-Jul-2020 13:50

ANALYTICAL REPORT
 WorkOrder:HS20071137
 Lab ID:HS20071137-04
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 28-Jul-2020		Analyst: GEY	
Surr: Nitrobenzene-d5	30.8	S		41-120	%REC	1	06-Aug-2020 21:05
Surr: Nitrobenzene-d5	45.5			41-120	%REC	10	06-Aug-2020 21:25
Surr: Nitrobenzene-d5	0	JS		41-120	%REC	100	06-Aug-2020 21:44
Surr: Phenol-d6	44.8			20-120	%REC	1	06-Aug-2020 21:05
Surr: Phenol-d6	51.6			20-120	%REC	10	06-Aug-2020 21:25
Surr: Phenol-d6	0	JS		20-120	%REC	100	06-Aug-2020 21:44
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 29-Jul-2020		Analyst: JHD	
Arsenic	0.000899	J	0.000400	0.00200	mg/L	1	29-Jul-2020 22:36

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW54C-20200722
 Collection Date: 22-Jul-2020 14:50

ANALYTICAL REPORT
 WorkOrder:HS20071137
 Lab ID:HS20071137-05
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: PC			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	26-Jul-2020 20:28
Benzene	U		0.00020	0.0010	mg/L	1	26-Jul-2020 20:28
Chlorobenzene	U		0.00030	0.0010	mg/L	1	26-Jul-2020 20:28
Ethylbenzene	U		0.00030	0.0010	mg/L	1	26-Jul-2020 20:28
Methylene chloride	U		0.0010	0.0020	mg/L	1	26-Jul-2020 20:28
Toluene	U		0.00020	0.0010	mg/L	1	26-Jul-2020 20:28
Xylenes, Total	U		0.00030	0.0010	mg/L	1	26-Jul-2020 20:28
<i>Surr: 1,2-Dichloroethane-d4</i>		<i>111</i>		<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>26-Jul-2020 20:28</i>
<i>Surr: 4-Bromofluorobenzene</i>		<i>97.6</i>		<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>26-Jul-2020 20:28</i>
<i>Surr: Dibromofluoromethane</i>		<i>103</i>		<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>26-Jul-2020 20:28</i>
<i>Surr: Toluene-d8</i>		<i>99.4</i>		<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>26-Jul-2020 20:28</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW54C-20200722
 Collection Date: 22-Jul-2020 14:50

ANALYTICAL REPORT
 WorkOrder:HS20071137
 Lab ID:HS20071137-05
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 28-Jul-2020		Analyst: GEY	
1,2-Diphenylhydrazine	U		0.000021	0.00020	mg/L	1	05-Aug-2020 18:49
2,4-Dimethylphenol	U		0.000040	0.00020	mg/L	1	05-Aug-2020 18:49
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	05-Aug-2020 18:49
2,6-Dinitrotoluene	U		0.000042	0.00020	mg/L	1	05-Aug-2020 18:49
2-Chloronaphthalene	U		0.000021	0.00020	mg/L	1	05-Aug-2020 18:49
2-Methylnaphthalene	0.000095	J	0.000019	0.00010	mg/L	1	05-Aug-2020 18:49
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	05-Aug-2020 18:49
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	05-Aug-2020 18:49
Acenaphthene	0.0075		0.000027	0.00010	mg/L	1	05-Aug-2020 18:49
Acenaphthylene	0.00010		0.000015	0.00010	mg/L	1	05-Aug-2020 18:49
Anthracene	0.00019		0.000014	0.00010	mg/L	1	05-Aug-2020 18:49
Benz(a)anthracene	U		0.000050	0.00010	mg/L	1	05-Aug-2020 18:49
Benzo(a)pyrene	U		0.000020	0.00010	mg/L	1	05-Aug-2020 18:49
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	05-Aug-2020 18:49
Bis(2-ethylhexyl)phthalate	U		0.000037	0.00020	mg/L	1	05-Aug-2020 18:49
Chrysene	U		0.000021	0.00010	mg/L	1	05-Aug-2020 18:49
Dibenzofuran	0.0018		0.000020	0.00010	mg/L	1	05-Aug-2020 18:49
Di-n-butyl phthalate	U		0.000020	0.00020	mg/L	1	05-Aug-2020 18:49
Fluoranthene	0.00097		0.000010	0.00010	mg/L	1	05-Aug-2020 18:49
Fluorene	0.0029		0.000030	0.00010	mg/L	1	05-Aug-2020 18:49
Naphthalene	0.0011		0.000020	0.00010	mg/L	1	05-Aug-2020 18:49
Nitrobenzene	U		0.000024	0.00020	mg/L	1	05-Aug-2020 18:49
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	05-Aug-2020 18:49
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	05-Aug-2020 18:49
Phenanthrene	U		0.000021	0.00010	mg/L	1	05-Aug-2020 18:49
Phenol	U		0.000035	0.00020	mg/L	1	05-Aug-2020 18:49
Pyrene	0.00056		0.000019	0.00010	mg/L	1	05-Aug-2020 18:49
<i>Surr: 2,4,6-Tribromophenol</i>	<i>63.1</i>			<i>34-129</i>	<i>%REC</i>	<i>1</i>	<i>05-Aug-2020 18:49</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>45.0</i>			<i>40-125</i>	<i>%REC</i>	<i>1</i>	<i>05-Aug-2020 18:49</i>
<i>Surr: 2-Fluorophenol</i>	<i>35.2</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>05-Aug-2020 18:49</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>55.0</i>			<i>40-135</i>	<i>%REC</i>	<i>1</i>	<i>05-Aug-2020 18:49</i>
<i>Surr: Nitrobenzene-d5</i>	<i>45.6</i>			<i>41-120</i>	<i>%REC</i>	<i>1</i>	<i>05-Aug-2020 18:49</i>
<i>Surr: Phenol-d6</i>	<i>46.0</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>05-Aug-2020 18:49</i>
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 29-Jul-2020		Analyst: JHD	
Arsenic	0.00157	J	0.000400	0.00200	mg/L	1	29-Jul-2020 22:38

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-DUP03-20200722
 Collection Date: 22-Jul-2020 14:50

ANALYTICAL REPORT
 WorkOrder:HS20071137
 Lab ID:HS20071137-06
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: PC			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	26-Jul-2020 20:53
Benzene	U		0.00020	0.0010	mg/L	1	26-Jul-2020 20:53
Chlorobenzene	U		0.00030	0.0010	mg/L	1	26-Jul-2020 20:53
Ethylbenzene	U		0.00030	0.0010	mg/L	1	26-Jul-2020 20:53
Methylene chloride	U		0.0010	0.0020	mg/L	1	26-Jul-2020 20:53
Toluene	U		0.00020	0.0010	mg/L	1	26-Jul-2020 20:53
Xylenes, Total	U		0.00030	0.0010	mg/L	1	26-Jul-2020 20:53
<i>Surr: 1,2-Dichloroethane-d4</i>		<i>110</i>		<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>26-Jul-2020 20:53</i>
<i>Surr: 4-Bromofluorobenzene</i>		<i>98.0</i>		<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>26-Jul-2020 20:53</i>
<i>Surr: Dibromofluoromethane</i>		<i>105</i>		<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>26-Jul-2020 20:53</i>
<i>Surr: Toluene-d8</i>		<i>101</i>		<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>26-Jul-2020 20:53</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-DUP03-20200722
 Collection Date: 22-Jul-2020 14:50

ANALYTICAL REPORT
 WorkOrder:HS20071137
 Lab ID:HS20071137-06
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MLL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 28-Jul-2020		Analyst: GEY	
1,2-Diphenylhydrazine	U		0.000021	0.00020	mg/L	1	05-Aug-2020 19:08
2,4-Dimethylphenol	U		0.000040	0.00020	mg/L	1	05-Aug-2020 19:08
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	05-Aug-2020 19:08
2,6-Dinitrotoluene	U		0.000042	0.00020	mg/L	1	05-Aug-2020 19:08
2-Chloronaphthalene	U		0.000021	0.00020	mg/L	1	05-Aug-2020 19:08
2-Methylnaphthalene	0.00021		0.000019	0.00010	mg/L	1	05-Aug-2020 19:08
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	05-Aug-2020 19:08
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	05-Aug-2020 19:08
Acenaphthene	0.0072		0.000027	0.00010	mg/L	1	05-Aug-2020 19:08
Acenaphthylene	0.00011		0.000015	0.00010	mg/L	1	05-Aug-2020 19:08
Anthracene	0.00061		0.000014	0.00010	mg/L	1	05-Aug-2020 19:08
Benz(a)anthracene	U		0.000050	0.00010	mg/L	1	05-Aug-2020 19:08
Benzo(a)pyrene	U		0.000020	0.00010	mg/L	1	05-Aug-2020 19:08
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	05-Aug-2020 19:08
Bis(2-ethylhexyl)phthalate	U		0.000037	0.00020	mg/L	1	05-Aug-2020 19:08
Chrysene	U		0.000021	0.00010	mg/L	1	05-Aug-2020 19:08
Dibenzofuran	0.0040		0.000020	0.00010	mg/L	1	05-Aug-2020 19:08
Di-n-butyl phthalate	U		0.000020	0.00020	mg/L	1	05-Aug-2020 19:08
Fluoranthene	0.00097		0.000010	0.00010	mg/L	1	05-Aug-2020 19:08
Fluorene	0.0038		0.000030	0.00010	mg/L	1	05-Aug-2020 19:08
Naphthalene	0.00050		0.000020	0.00010	mg/L	1	05-Aug-2020 19:08
Nitrobenzene	U		0.000024	0.00020	mg/L	1	05-Aug-2020 19:08
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	05-Aug-2020 19:08
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	05-Aug-2020 19:08
Phenanthrene	0.00086		0.000021	0.00010	mg/L	1	05-Aug-2020 19:08
Phenol	U		0.000035	0.00020	mg/L	1	05-Aug-2020 19:08
Pyrene	0.00055		0.000019	0.00010	mg/L	1	05-Aug-2020 19:08
<i>Surr: 2,4,6-Tribromophenol</i>	<i>54.4</i>			<i>34-129</i>	<i>%REC</i>	<i>1</i>	<i>05-Aug-2020 19:08</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>41.4</i>			<i>40-125</i>	<i>%REC</i>	<i>1</i>	<i>05-Aug-2020 19:08</i>
<i>Surr: 2-Fluorophenol</i>	<i>38.3</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>05-Aug-2020 19:08</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>56.5</i>			<i>40-135</i>	<i>%REC</i>	<i>1</i>	<i>05-Aug-2020 19:08</i>
<i>Surr: Nitrobenzene-d5</i>	<i>41.6</i>			<i>41-120</i>	<i>%REC</i>	<i>1</i>	<i>05-Aug-2020 19:08</i>
<i>Surr: Phenol-d6</i>	<i>47.9</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>05-Aug-2020 19:08</i>
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 29-Jul-2020		Analyst: JHD	
Arsenic	0.00126	J	0.000400	0.00200	mg/L	1	29-Jul-2020 22:40

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW54B-20200722
 Collection Date: 22-Jul-2020 15:45

ANALYTICAL REPORT
 WorkOrder:HS20071137
 Lab ID:HS20071137-07
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: PC			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	26-Jul-2020 21:17
Benzene	U		0.00020	0.0010	mg/L	1	26-Jul-2020 21:17
Chlorobenzene	U		0.00030	0.0010	mg/L	1	26-Jul-2020 21:17
Ethylbenzene	U		0.00030	0.0010	mg/L	1	26-Jul-2020 21:17
Methylene chloride	U		0.0010	0.0020	mg/L	1	26-Jul-2020 21:17
Toluene	U		0.00020	0.0010	mg/L	1	26-Jul-2020 21:17
Xylenes, Total	U		0.00030	0.0010	mg/L	1	26-Jul-2020 21:17
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>111</i>			<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>26-Jul-2020 21:17</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>98.5</i>			<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>26-Jul-2020 21:17</i>
<i>Surr: Dibromofluoromethane</i>	<i>103</i>			<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>26-Jul-2020 21:17</i>
<i>Surr: Toluene-d8</i>	<i>101</i>			<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>26-Jul-2020 21:17</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW54B-20200722
 Collection Date: 22-Jul-2020 15:45

ANALYTICAL REPORT
 WorkOrder:HS20071137
 Lab ID:HS20071137-07
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 28-Jul-2020		Analyst: GEY	
1,2-Diphenylhydrazine	U		0.000021	0.00020	mg/L	1	05-Aug-2020 19:28
2,4-Dimethylphenol	U		0.000040	0.00020	mg/L	1	05-Aug-2020 19:28
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	05-Aug-2020 19:28
2,6-Dinitrotoluene	U		0.000042	0.00020	mg/L	1	05-Aug-2020 19:28
2-Chloronaphthalene	U		0.000021	0.00020	mg/L	1	05-Aug-2020 19:28
2-Methylnaphthalene	U		0.000019	0.00010	mg/L	1	05-Aug-2020 19:28
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	05-Aug-2020 19:28
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	05-Aug-2020 19:28
Acenaphthene	0.000079	J	0.000027	0.00010	mg/L	1	05-Aug-2020 19:28
Acenaphthylene	U		0.000015	0.00010	mg/L	1	05-Aug-2020 19:28
Anthracene	U		0.000014	0.00010	mg/L	1	05-Aug-2020 19:28
Benz(a)anthracene	U		0.000050	0.00010	mg/L	1	05-Aug-2020 19:28
Benzo(a)pyrene	U		0.000020	0.00010	mg/L	1	05-Aug-2020 19:28
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	05-Aug-2020 19:28
Bis(2-ethylhexyl)phthalate	U		0.000037	0.00020	mg/L	1	05-Aug-2020 19:28
Chrysene	U		0.000021	0.00010	mg/L	1	05-Aug-2020 19:28
Dibenzofuran	U		0.000020	0.00010	mg/L	1	05-Aug-2020 19:28
Di-n-butyl phthalate	U		0.000020	0.00020	mg/L	1	05-Aug-2020 19:28
Fluoranthene	U		0.000010	0.00010	mg/L	1	05-Aug-2020 19:28
Fluorene	U		0.000030	0.00010	mg/L	1	05-Aug-2020 19:28
Naphthalene	0.00036		0.000020	0.00010	mg/L	1	05-Aug-2020 19:28
Nitrobenzene	U		0.000024	0.00020	mg/L	1	05-Aug-2020 19:28
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	05-Aug-2020 19:28
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	05-Aug-2020 19:28
Phenanthrene	0.000052	J	0.000021	0.00010	mg/L	1	05-Aug-2020 19:28
Phenol	U		0.000035	0.00020	mg/L	1	05-Aug-2020 19:28
Pyrene	U		0.000019	0.00010	mg/L	1	05-Aug-2020 19:28
<i>Surr: 2,4,6-Tribromophenol</i>	<i>71.3</i>			<i>34-129</i>	<i>%REC</i>	<i>1</i>	<i>05-Aug-2020 19:28</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>40.5</i>			<i>40-125</i>	<i>%REC</i>	<i>1</i>	<i>05-Aug-2020 19:28</i>
<i>Surr: 2-Fluorophenol</i>	<i>30.7</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>05-Aug-2020 19:28</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>53.2</i>			<i>40-135</i>	<i>%REC</i>	<i>1</i>	<i>05-Aug-2020 19:28</i>
<i>Surr: Nitrobenzene-d5</i>	<i>45.0</i>			<i>41-120</i>	<i>%REC</i>	<i>1</i>	<i>05-Aug-2020 19:28</i>
<i>Surr: Phenol-d6</i>	<i>38.0</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>05-Aug-2020 19:28</i>
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 29-Jul-2020		Analyst: JHD	
Arsenic	0.00129	J	0.000400	0.00200	mg/L	1	29-Jul-2020 22:42

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW99C-20200722
 Collection Date: 22-Jul-2020 16:35

ANALYTICAL REPORT
 WorkOrder:HS20071137
 Lab ID:HS20071137-08
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: PC			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	26-Jul-2020 21:42
Benzene	U		0.00020	0.0010	mg/L	1	26-Jul-2020 21:42
Chlorobenzene	U		0.00030	0.0010	mg/L	1	26-Jul-2020 21:42
Ethylbenzene	U		0.00030	0.0010	mg/L	1	26-Jul-2020 21:42
Methylene chloride	U		0.0010	0.0020	mg/L	1	26-Jul-2020 21:42
Toluene	U		0.00020	0.0010	mg/L	1	26-Jul-2020 21:42
Xylenes, Total	U		0.00030	0.0010	mg/L	1	26-Jul-2020 21:42
<i>Surr: 1,2-Dichloroethane-d4</i>		<i>108</i>		<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>26-Jul-2020 21:42</i>
<i>Surr: 4-Bromofluorobenzene</i>		<i>97.4</i>		<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>26-Jul-2020 21:42</i>
<i>Surr: Dibromofluoromethane</i>		<i>103</i>		<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>26-Jul-2020 21:42</i>
<i>Surr: Toluene-d8</i>		<i>103</i>		<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>26-Jul-2020 21:42</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW99C-20200722
 Collection Date: 22-Jul-2020 16:35

ANALYTICAL REPORT
 WorkOrder:HS20071137
 Lab ID:HS20071137-08
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 28-Jul-2020		Analyst: GEY	
1,2-Diphenylhydrazine	U		0.000021	0.00020	mg/L	1	05-Aug-2020 19:48
2,4-Dimethylphenol	U		0.000040	0.00020	mg/L	1	05-Aug-2020 19:48
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	05-Aug-2020 19:48
2,6-Dinitrotoluene	U		0.000042	0.00020	mg/L	1	05-Aug-2020 19:48
2-Chloronaphthalene	U		0.000021	0.00020	mg/L	1	05-Aug-2020 19:48
2-Methylnaphthalene	0.000050	J	0.000019	0.00010	mg/L	1	05-Aug-2020 19:48
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	05-Aug-2020 19:48
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	05-Aug-2020 19:48
Acenaphthene	0.000068	J	0.000027	0.00010	mg/L	1	05-Aug-2020 19:48
Acenaphthylene	U		0.000015	0.00010	mg/L	1	05-Aug-2020 19:48
Anthracene	U		0.000014	0.00010	mg/L	1	05-Aug-2020 19:48
Benz(a)anthracene	U		0.000050	0.00010	mg/L	1	05-Aug-2020 19:48
Benzo(a)pyrene	U		0.000020	0.00010	mg/L	1	05-Aug-2020 19:48
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	05-Aug-2020 19:48
Bis(2-ethylhexyl)phthalate	U		0.000037	0.00020	mg/L	1	05-Aug-2020 19:48
Chrysene	U		0.000021	0.00010	mg/L	1	05-Aug-2020 19:48
Dibenzofuran	U		0.000020	0.00010	mg/L	1	05-Aug-2020 19:48
Di-n-butyl phthalate	0.00019	J	0.000020	0.00020	mg/L	1	05-Aug-2020 19:48
Fluoranthene	U		0.000010	0.00010	mg/L	1	05-Aug-2020 19:48
Fluorene	U		0.000030	0.00010	mg/L	1	05-Aug-2020 19:48
Naphthalene	0.00077		0.000020	0.00010	mg/L	1	05-Aug-2020 19:48
Nitrobenzene	U		0.000024	0.00020	mg/L	1	05-Aug-2020 19:48
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	05-Aug-2020 19:48
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	05-Aug-2020 19:48
Phenanthrene	U		0.000021	0.00010	mg/L	1	05-Aug-2020 19:48
Phenol	U		0.000035	0.00020	mg/L	1	05-Aug-2020 19:48
Pyrene	U		0.000019	0.00010	mg/L	1	05-Aug-2020 19:48
<i>Surr: 2,4,6-Tribromophenol</i>	<i>81.6</i>			<i>34-129</i>	<i>%REC</i>	<i>1</i>	<i>05-Aug-2020 19:48</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>42.5</i>			<i>40-125</i>	<i>%REC</i>	<i>1</i>	<i>05-Aug-2020 19:48</i>
<i>Surr: 2-Fluorophenol</i>	<i>46.0</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>05-Aug-2020 19:48</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>57.0</i>			<i>40-135</i>	<i>%REC</i>	<i>1</i>	<i>05-Aug-2020 19:48</i>
<i>Surr: Nitrobenzene-d5</i>	<i>42.4</i>			<i>41-120</i>	<i>%REC</i>	<i>1</i>	<i>05-Aug-2020 19:48</i>
<i>Surr: Phenol-d6</i>	<i>51.8</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>05-Aug-2020 19:48</i>
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 29-Jul-2020		Analyst: JHD	
Arsenic	0.00102	J	0.000400	0.00200	mg/L	1	29-Jul-2020 22:44

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW53C-20200723
 Collection Date: 23-Jul-2020 07:45

ANALYTICAL REPORT
 WorkOrder:HS20071137
 Lab ID:HS20071137-09
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: PC			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	26-Jul-2020 22:06
Benzene	U		0.00020	0.0010	mg/L	1	26-Jul-2020 22:06
Chlorobenzene	U		0.00030	0.0010	mg/L	1	26-Jul-2020 22:06
Ethylbenzene	U		0.00030	0.0010	mg/L	1	26-Jul-2020 22:06
Methylene chloride	U		0.0010	0.0020	mg/L	1	26-Jul-2020 22:06
Toluene	U		0.00020	0.0010	mg/L	1	26-Jul-2020 22:06
Xylenes, Total	U		0.00030	0.0010	mg/L	1	26-Jul-2020 22:06
<i>Surr: 1,2-Dichloroethane-d4</i>		<i>110</i>		<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>26-Jul-2020 22:06</i>
<i>Surr: 4-Bromofluorobenzene</i>		<i>96.9</i>		<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>26-Jul-2020 22:06</i>
<i>Surr: Dibromofluoromethane</i>		<i>105</i>		<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>26-Jul-2020 22:06</i>
<i>Surr: Toluene-d8</i>		<i>101</i>		<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>26-Jul-2020 22:06</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW53C-20200723
 Collection Date: 23-Jul-2020 07:45

ANALYTICAL REPORT
 WorkOrder:HS20071137
 Lab ID:HS20071137-09
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 28-Jul-2020		Analyst: GEY	
1,2-Diphenylhydrazine	U		0.000021	0.00020	mg/L	1	05-Aug-2020 20:07
2,4-Dimethylphenol	U		0.000040	0.00020	mg/L	1	05-Aug-2020 20:07
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	05-Aug-2020 20:07
2,6-Dinitrotoluene	U		0.000042	0.00020	mg/L	1	05-Aug-2020 20:07
2-Chloronaphthalene	U		0.000021	0.00020	mg/L	1	05-Aug-2020 20:07
2-Methylnaphthalene	0.00013		0.000019	0.00010	mg/L	1	05-Aug-2020 20:07
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	05-Aug-2020 20:07
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	05-Aug-2020 20:07
Acenaphthene	0.00012		0.000027	0.00010	mg/L	1	05-Aug-2020 20:07
Acenaphthylene	U		0.000015	0.00010	mg/L	1	05-Aug-2020 20:07
Anthracene	U		0.000014	0.00010	mg/L	1	05-Aug-2020 20:07
Benz(a)anthracene	U		0.000050	0.00010	mg/L	1	05-Aug-2020 20:07
Benzo(a)pyrene	U		0.000020	0.00010	mg/L	1	05-Aug-2020 20:07
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	05-Aug-2020 20:07
Bis(2-ethylhexyl)phthalate	U		0.000037	0.00020	mg/L	1	05-Aug-2020 20:07
Chrysene	U		0.000021	0.00010	mg/L	1	05-Aug-2020 20:07
Dibenzofuran	0.000095	J	0.000020	0.00010	mg/L	1	05-Aug-2020 20:07
Di-n-butyl phthalate	U		0.000020	0.00020	mg/L	1	05-Aug-2020 20:07
Fluoranthene	0.000072	J	0.000010	0.00010	mg/L	1	05-Aug-2020 20:07
Fluorene	0.000061	J	0.000030	0.00010	mg/L	1	05-Aug-2020 20:07
Naphthalene	0.0042		0.000020	0.00010	mg/L	1	05-Aug-2020 20:07
Nitrobenzene	U		0.000024	0.00020	mg/L	1	05-Aug-2020 20:07
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	05-Aug-2020 20:07
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	05-Aug-2020 20:07
Phenanthrene	0.00010		0.000021	0.00010	mg/L	1	05-Aug-2020 20:07
Phenol	U		0.000035	0.00020	mg/L	1	05-Aug-2020 20:07
Pyrene	0.000047	J	0.000019	0.00010	mg/L	1	05-Aug-2020 20:07
<i>Surr: 2,4,6-Tribromophenol</i>	56.2			34-129	%REC	1	05-Aug-2020 20:07
<i>Surr: 2-Fluorobiphenyl</i>	42.3			40-125	%REC	1	05-Aug-2020 20:07
<i>Surr: 2-Fluorophenol</i>	35.0			20-120	%REC	1	05-Aug-2020 20:07
<i>Surr: 4-Terphenyl-d14</i>	56.3			40-135	%REC	1	05-Aug-2020 20:07
<i>Surr: Nitrobenzene-d5</i>	44.2			41-120	%REC	1	05-Aug-2020 20:07
<i>Surr: Phenol-d6</i>	44.3			20-120	%REC	1	05-Aug-2020 20:07
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 29-Jul-2020		Analyst: JHD	
Arsenic	U		0.000400	0.00200	mg/L	1	29-Jul-2020 22:46

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW87C-20200723
 Collection Date: 23-Jul-2020 08:40

ANALYTICAL REPORT
 WorkOrder:HS20071137
 Lab ID:HS20071137-10
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: PC			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	26-Jul-2020 22:30
Benzene	U		0.00020	0.0010	mg/L	1	26-Jul-2020 22:30
Chlorobenzene	U		0.00030	0.0010	mg/L	1	26-Jul-2020 22:30
Ethylbenzene	U		0.00030	0.0010	mg/L	1	26-Jul-2020 22:30
Methylene chloride	U		0.0010	0.0020	mg/L	1	26-Jul-2020 22:30
Toluene	U		0.00020	0.0010	mg/L	1	26-Jul-2020 22:30
Xylenes, Total	U		0.00030	0.0010	mg/L	1	26-Jul-2020 22:30
<i>Surr: 1,2-Dichloroethane-d4</i>		<i>111</i>		<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>26-Jul-2020 22:30</i>
<i>Surr: 4-Bromofluorobenzene</i>		<i>96.2</i>		<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>26-Jul-2020 22:30</i>
<i>Surr: Dibromofluoromethane</i>		<i>104</i>		<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>26-Jul-2020 22:30</i>
<i>Surr: Toluene-d8</i>		<i>101</i>		<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>26-Jul-2020 22:30</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW87C-20200723
 Collection Date: 23-Jul-2020 08:40

ANALYTICAL REPORT
 WorkOrder:HS20071137
 Lab ID:HS20071137-10
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MLL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 28-Jul-2020		Analyst: GEY	
1,2-Diphenylhydrazine	U		0.000021	0.00020	mg/L	1	06-Aug-2020 18:08
2,4-Dimethylphenol	U		0.000040	0.00020	mg/L	1	06-Aug-2020 18:08
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	06-Aug-2020 18:08
2,6-Dinitrotoluene	U		0.000042	0.00020	mg/L	1	06-Aug-2020 18:08
2-Chloronaphthalene	U		0.000021	0.00020	mg/L	1	06-Aug-2020 18:08
2-Methylnaphthalene	U		0.000019	0.00010	mg/L	1	06-Aug-2020 18:08
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	06-Aug-2020 18:08
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	06-Aug-2020 18:08
Acenaphthene	0.00024		0.000027	0.00010	mg/L	1	06-Aug-2020 18:08
Acenaphthylene	U		0.000015	0.00010	mg/L	1	06-Aug-2020 18:08
Anthracene	0.00010		0.000014	0.00010	mg/L	1	06-Aug-2020 18:08
Benz(a)anthracene	0.00025		0.000050	0.00010	mg/L	1	06-Aug-2020 18:08
Benzo(a)pyrene	0.00016		0.000020	0.00010	mg/L	1	06-Aug-2020 18:08
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	06-Aug-2020 18:08
Bis(2-ethylhexyl)phthalate	U		0.000037	0.00020	mg/L	1	06-Aug-2020 18:08
Chrysene	0.00024		0.000021	0.00010	mg/L	1	06-Aug-2020 18:08
Dibenzofuran	0.00012		0.000020	0.00010	mg/L	1	06-Aug-2020 18:08
Di-n-butyl phthalate	U		0.000020	0.00020	mg/L	1	06-Aug-2020 18:08
Fluoranthene	0.00057		0.000010	0.00010	mg/L	1	06-Aug-2020 18:08
Fluorene	0.00022		0.000030	0.00010	mg/L	1	06-Aug-2020 18:08
Naphthalene	U		0.000020	0.00010	mg/L	1	06-Aug-2020 18:08
Nitrobenzene	U		0.000024	0.00020	mg/L	1	06-Aug-2020 18:08
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	06-Aug-2020 18:08
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	06-Aug-2020 18:08
Phenanthrene	0.00058		0.000021	0.00010	mg/L	1	06-Aug-2020 18:08
Phenol	U		0.000035	0.00020	mg/L	1	06-Aug-2020 18:08
Pyrene	0.00042		0.000019	0.00010	mg/L	1	06-Aug-2020 18:08
<i>Surr: 2,4,6-Tribromophenol</i>	53.6			34-129	%REC	1	06-Aug-2020 18:08
<i>Surr: 2-Fluorobiphenyl</i>	44.0			40-125	%REC	1	06-Aug-2020 18:08
<i>Surr: 2-Fluorophenol</i>	42.4			20-120	%REC	1	06-Aug-2020 18:08
<i>Surr: 4-Terphenyl-d14</i>	55.7			40-135	%REC	1	06-Aug-2020 18:08
<i>Surr: Nitrobenzene-d5</i>	42.1			41-120	%REC	1	06-Aug-2020 18:08
<i>Surr: Phenol-d6</i>	50.4			20-120	%REC	1	06-Aug-2020 18:08
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 29-Jul-2020		Analyst: JHD	
Arsenic	0.00135	J	0.000400	0.00200	mg/L	1	29-Jul-2020 22:51

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW71B-20200723
 Collection Date: 23-Jul-2020 09:30

ANALYTICAL REPORT
 WorkOrder:HS20071137
 Lab ID:HS20071137-11
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: PC			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	26-Jul-2020 22:55
Benzene	0.082		0.00020	0.0010	mg/L	1	26-Jul-2020 22:55
Chlorobenzene	U		0.00030	0.0010	mg/L	1	26-Jul-2020 22:55
Ethylbenzene	0.017		0.00030	0.0010	mg/L	1	26-Jul-2020 22:55
Methylene chloride	U		0.0010	0.0020	mg/L	1	26-Jul-2020 22:55
Toluene	0.0024		0.00020	0.0010	mg/L	1	26-Jul-2020 22:55
Xylenes, Total	0.0087		0.00030	0.0010	mg/L	1	26-Jul-2020 22:55
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>108</i>			<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>26-Jul-2020 22:55</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>102</i>			<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>26-Jul-2020 22:55</i>
<i>Surr: Dibromofluoromethane</i>	<i>103</i>			<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>26-Jul-2020 22:55</i>
<i>Surr: Toluene-d8</i>	<i>102</i>			<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>26-Jul-2020 22:55</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW71B-20200723
 Collection Date: 23-Jul-2020 09:30

ANALYTICAL REPORT
 WorkOrder:HS20071137
 Lab ID:HS20071137-11
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 28-Jul-2020		Analyst: GEY	
1,2-Diphenylhydrazine	U		0.000021	0.00020	mg/L	1	06-Aug-2020 22:04
2,4-Dimethylphenol	U		0.000040	0.00020	mg/L	1	06-Aug-2020 22:04
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	06-Aug-2020 22:04
2,6-Dinitrotoluene	U		0.000042	0.00020	mg/L	1	06-Aug-2020 22:04
2-Chloronaphthalene	U		0.000021	0.00020	mg/L	1	06-Aug-2020 22:04
2-Methylnaphthalene	0.0026		0.000019	0.00010	mg/L	1	06-Aug-2020 22:04
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	06-Aug-2020 22:04
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	06-Aug-2020 22:04
Acenaphthene	0.0019		0.000027	0.00010	mg/L	1	06-Aug-2020 22:04
Acenaphthylene	U		0.000015	0.00010	mg/L	1	06-Aug-2020 22:04
Anthracene	0.00054		0.000014	0.00010	mg/L	1	06-Aug-2020 22:04
Benz(a)anthracene	0.00041		0.000050	0.00010	mg/L	1	06-Aug-2020 22:04
Benzo(a)pyrene	0.00026		0.000020	0.00010	mg/L	1	06-Aug-2020 22:04
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	06-Aug-2020 22:04
Bis(2-ethylhexyl)phthalate	U		0.000037	0.00020	mg/L	1	06-Aug-2020 22:04
Chrysene	0.00043		0.000021	0.00010	mg/L	1	06-Aug-2020 22:04
Dibenzofuran	0.0015		0.000020	0.00010	mg/L	1	06-Aug-2020 22:04
Di-n-butyl phthalate	U		0.000020	0.00020	mg/L	1	06-Aug-2020 22:04
Fluoranthene	0.0015		0.000010	0.00010	mg/L	1	06-Aug-2020 22:04
Fluorene	0.0011		0.000030	0.00010	mg/L	1	06-Aug-2020 22:04
Naphthalene	0.23		0.0010	0.0050	mg/L	50	07-Aug-2020 17:23
Nitrobenzene	U		0.000024	0.00020	mg/L	1	06-Aug-2020 22:04
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	06-Aug-2020 22:04
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	06-Aug-2020 22:04
Phenanthrene	0.0022		0.000021	0.00010	mg/L	1	06-Aug-2020 22:04
Phenol	U		0.000035	0.00020	mg/L	1	06-Aug-2020 22:04
Pyrene	0.00100		0.000019	0.00010	mg/L	1	06-Aug-2020 22:04
<i>Surr: 2,4,6-Tribromophenol</i>	<i>53.1</i>			<i>34-129</i>	<i>%REC</i>	<i>1</i>	<i>06-Aug-2020 22:04</i>
<i>Surr: 2,4,6-Tribromophenol</i>	<i>0</i>	<i>JS</i>		<i>34-129</i>	<i>%REC</i>	<i>50</i>	<i>07-Aug-2020 17:23</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>0</i>	<i>JS</i>		<i>40-125</i>	<i>%REC</i>	<i>50</i>	<i>07-Aug-2020 17:23</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>32.1</i>	<i>S</i>		<i>40-125</i>	<i>%REC</i>	<i>1</i>	<i>06-Aug-2020 22:04</i>
<i>Surr: 2-Fluorophenol</i>	<i>30.6</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>06-Aug-2020 22:04</i>
<i>Surr: 2-Fluorophenol</i>	<i>0</i>	<i>JS</i>		<i>20-120</i>	<i>%REC</i>	<i>50</i>	<i>07-Aug-2020 17:23</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>0</i>	<i>JS</i>		<i>40-135</i>	<i>%REC</i>	<i>50</i>	<i>07-Aug-2020 17:23</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>60.4</i>			<i>40-135</i>	<i>%REC</i>	<i>1</i>	<i>06-Aug-2020 22:04</i>
<i>Surr: Nitrobenzene-d5</i>	<i>36.9</i>	<i>S</i>		<i>41-120</i>	<i>%REC</i>	<i>1</i>	<i>06-Aug-2020 22:04</i>
<i>Surr: Nitrobenzene-d5</i>	<i>0</i>	<i>JS</i>		<i>41-120</i>	<i>%REC</i>	<i>50</i>	<i>07-Aug-2020 17:23</i>
<i>Surr: Phenol-d6</i>	<i>0</i>	<i>JS</i>		<i>20-120</i>	<i>%REC</i>	<i>50</i>	<i>07-Aug-2020 17:23</i>
<i>Surr: Phenol-d6</i>	<i>36.5</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>06-Aug-2020 22:04</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW71B-20200723
 Collection Date: 23-Jul-2020 09:30

ANALYTICAL REPORT

WorkOrder:HS20071137
 Lab ID:HS20071137-11
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020			Prep:SW3010A / 29-Jul-2020		Analyst: JHD
Arsenic	U		0.000400	0.00200	mg/L	1	29-Jul-2020 22:53

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW63B-20200723
 Collection Date: 23-Jul-2020 10:15

ANALYTICAL REPORT
 WorkOrder:HS20071137
 Lab ID:HS20071137-12
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	29-Jul-2020 04:41
Benzene	0.10		0.00020	0.0010	mg/L	1	29-Jul-2020 04:41
Chlorobenzene	U		0.00030	0.0010	mg/L	1	29-Jul-2020 04:41
Ethylbenzene	0.14		0.00030	0.0010	mg/L	1	29-Jul-2020 04:41
Methylene chloride	U		0.0010	0.0020	mg/L	1	29-Jul-2020 04:41
Toluene	0.0073		0.00020	0.0010	mg/L	1	29-Jul-2020 04:41
Xylenes, Total	0.040		0.00030	0.0010	mg/L	1	29-Jul-2020 04:41
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>95.8</i>			<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>29-Jul-2020 04:41</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>101</i>			<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>29-Jul-2020 04:41</i>
<i>Surr: Dibromofluoromethane</i>	<i>96.4</i>			<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>29-Jul-2020 04:41</i>
<i>Surr: Toluene-d8</i>	<i>97.9</i>			<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>29-Jul-2020 04:41</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW63B-20200723
 Collection Date: 23-Jul-2020 10:15

ANALYTICAL REPORT
 WorkOrder:HS20071137
 Lab ID:HS20071137-12
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 28-Jul-2020		Analyst: GEY	
1,2-Diphenylhydrazine	U		0.000021	0.00020	mg/L	1	06-Aug-2020 22:43
2,4-Dimethylphenol	U		0.000040	0.00020	mg/L	1	06-Aug-2020 22:43
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	06-Aug-2020 22:43
2,6-Dinitrotoluene	U		0.000042	0.00020	mg/L	1	06-Aug-2020 22:43
2-Chloronaphthalene	U		0.000021	0.00020	mg/L	1	06-Aug-2020 22:43
2-Methylnaphthalene	0.0060		0.000019	0.00010	mg/L	1	06-Aug-2020 22:43
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	06-Aug-2020 22:43
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	06-Aug-2020 22:43
Acenaphthene	0.0028		0.000027	0.00010	mg/L	1	06-Aug-2020 22:43
Acenaphthylene	U		0.000015	0.00010	mg/L	1	06-Aug-2020 22:43
Anthracene	0.000072	J	0.000014	0.00010	mg/L	1	06-Aug-2020 22:43
Benz(a)anthracene	U		0.000050	0.00010	mg/L	1	06-Aug-2020 22:43
Benzo(a)pyrene	U		0.000020	0.00010	mg/L	1	06-Aug-2020 22:43
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	06-Aug-2020 22:43
Bis(2-ethylhexyl)phthalate	U		0.000037	0.00020	mg/L	1	06-Aug-2020 22:43
Chrysene	U		0.000021	0.00010	mg/L	1	06-Aug-2020 22:43
Dibenzofuran	0.0021		0.000020	0.00010	mg/L	1	06-Aug-2020 22:43
Di-n-butyl phthalate	U		0.000020	0.00020	mg/L	1	06-Aug-2020 22:43
Fluoranthene	U		0.000010	0.00010	mg/L	1	06-Aug-2020 22:43
Fluorene	0.00091		0.000030	0.00010	mg/L	1	06-Aug-2020 22:43
Naphthalene	0.29		0.0020	0.010	mg/L	100	06-Aug-2020 23:22
Nitrobenzene	U		0.000024	0.00020	mg/L	1	06-Aug-2020 22:43
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	06-Aug-2020 22:43
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	06-Aug-2020 22:43
Phenanthrene	0.00036		0.000021	0.00010	mg/L	1	06-Aug-2020 22:43
Phenol	U		0.000035	0.00020	mg/L	1	06-Aug-2020 22:43
Pyrene	U		0.000019	0.00010	mg/L	1	06-Aug-2020 22:43
<i>Surr: 2,4,6-Tribromophenol</i>	<i>66.4</i>			<i>34-129</i>	<i>%REC</i>	<i>1</i>	<i>06-Aug-2020 22:43</i>
<i>Surr: 2,4,6-Tribromophenol</i>	<i>0</i>	<i>JS</i>		<i>34-129</i>	<i>%REC</i>	<i>100</i>	<i>06-Aug-2020 23:22</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>27.1</i>	<i>S</i>		<i>40-125</i>	<i>%REC</i>	<i>1</i>	<i>06-Aug-2020 22:43</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>0</i>	<i>JS</i>		<i>40-125</i>	<i>%REC</i>	<i>100</i>	<i>06-Aug-2020 23:22</i>
<i>Surr: 2-Fluorophenol</i>	<i>29.4</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>06-Aug-2020 22:43</i>
<i>Surr: 2-Fluorophenol</i>	<i>0</i>	<i>JS</i>		<i>20-120</i>	<i>%REC</i>	<i>100</i>	<i>06-Aug-2020 23:22</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>55.2</i>			<i>40-135</i>	<i>%REC</i>	<i>1</i>	<i>06-Aug-2020 22:43</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>0</i>	<i>JS</i>		<i>40-135</i>	<i>%REC</i>	<i>100</i>	<i>06-Aug-2020 23:22</i>
<i>Surr: Nitrobenzene-d5</i>	<i>31.8</i>	<i>S</i>		<i>41-120</i>	<i>%REC</i>	<i>1</i>	<i>06-Aug-2020 22:43</i>
<i>Surr: Nitrobenzene-d5</i>	<i>0</i>	<i>JS</i>		<i>41-120</i>	<i>%REC</i>	<i>100</i>	<i>06-Aug-2020 23:22</i>
<i>Surr: Phenol-d6</i>	<i>33.2</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>06-Aug-2020 22:43</i>
<i>Surr: Phenol-d6</i>	<i>0</i>	<i>JS</i>		<i>20-120</i>	<i>%REC</i>	<i>100</i>	<i>06-Aug-2020 23:22</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW63B-20200723
 Collection Date: 23-Jul-2020 10:15

ANALYTICAL REPORT

WorkOrder:HS20071137
 Lab ID:HS20071137-12
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020			Prep:SW3010A / 29-Jul-2020		Analyst: JHD
Arsenic	U		0.000400	0.00200	mg/L	1	29-Jul-2020 22:55

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW32AR-20200723
 Collection Date: 23-Jul-2020 12:50

ANALYTICAL REPORT

WorkOrder:HS20071137
 Lab ID:HS20071137-13
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	30-Jul-2020 20:02
Benzene	U		0.00020	0.0010	mg/L	1	30-Jul-2020 20:02
Chlorobenzene	U		0.00030	0.0010	mg/L	1	30-Jul-2020 20:02
Ethylbenzene	U		0.00030	0.0010	mg/L	1	30-Jul-2020 20:02
Methylene chloride	U		0.0010	0.0020	mg/L	1	30-Jul-2020 20:02
Toluene	U		0.00020	0.0010	mg/L	1	30-Jul-2020 20:02
Xylenes, Total	U		0.00030	0.0010	mg/L	1	30-Jul-2020 20:02
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>95.1</i>			<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>30-Jul-2020 20:02</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>97.7</i>			<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>30-Jul-2020 20:02</i>
<i>Surr: Dibromofluoromethane</i>	<i>99.2</i>			<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>30-Jul-2020 20:02</i>
<i>Surr: Toluene-d8</i>	<i>101</i>			<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>30-Jul-2020 20:02</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW32AR-20200723
 Collection Date: 23-Jul-2020 12:50

ANALYTICAL REPORT
 WorkOrder:HS20071137
 Lab ID:HS20071137-13
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 28-Jul-2020		Analyst: GEY	
1,2-Diphenylhydrazine	U		0.000021	0.00020	mg/L	1	06-Aug-2020 18:28
2,4-Dimethylphenol	U		0.000040	0.00020	mg/L	1	06-Aug-2020 18:28
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	06-Aug-2020 18:28
2,6-Dinitrotoluene	U		0.000042	0.00020	mg/L	1	06-Aug-2020 18:28
2-Chloronaphthalene	U		0.000021	0.00020	mg/L	1	06-Aug-2020 18:28
2-Methylnaphthalene	0.000088	J	0.000019	0.00010	mg/L	1	06-Aug-2020 18:28
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	06-Aug-2020 18:28
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	06-Aug-2020 18:28
Acenaphthene	0.00028		0.000027	0.00010	mg/L	1	06-Aug-2020 18:28
Acenaphthylene	U		0.000015	0.00010	mg/L	1	06-Aug-2020 18:28
Anthracene	0.000080	J	0.000014	0.00010	mg/L	1	06-Aug-2020 18:28
Benz(a)anthracene	0.000088	J	0.000050	0.00010	mg/L	1	06-Aug-2020 18:28
Benzo(a)pyrene	U		0.000020	0.00010	mg/L	1	06-Aug-2020 18:28
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	06-Aug-2020 18:28
Bis(2-ethylhexyl)phthalate	U		0.000037	0.00020	mg/L	1	06-Aug-2020 18:28
Chrysene	0.000026	J	0.000021	0.00010	mg/L	1	06-Aug-2020 18:28
Dibenzofuran	0.00011		0.000020	0.00010	mg/L	1	06-Aug-2020 18:28
Di-n-butyl phthalate	U		0.000020	0.00020	mg/L	1	06-Aug-2020 18:28
Fluoranthene	0.00019		0.000010	0.00010	mg/L	1	06-Aug-2020 18:28
Fluorene	0.00011		0.000030	0.00010	mg/L	1	06-Aug-2020 18:28
Naphthalene	0.00026		0.000020	0.00010	mg/L	1	06-Aug-2020 18:28
Nitrobenzene	U		0.000024	0.00020	mg/L	1	06-Aug-2020 18:28
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	06-Aug-2020 18:28
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	06-Aug-2020 18:28
Phenanthrene	0.00023		0.000021	0.00010	mg/L	1	06-Aug-2020 18:28
Phenol	U		0.000035	0.00020	mg/L	1	06-Aug-2020 18:28
Pyrene	0.00021		0.000019	0.00010	mg/L	1	06-Aug-2020 18:28
<i>Surr: 2,4,6-Tribromophenol</i>	<i>73.5</i>			<i>34-129</i>	<i>%REC</i>	<i>1</i>	<i>06-Aug-2020 18:28</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>40.3</i>			<i>40-125</i>	<i>%REC</i>	<i>1</i>	<i>06-Aug-2020 18:28</i>
<i>Surr: 2-Fluorophenol</i>	<i>34.4</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>06-Aug-2020 18:28</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>56.3</i>			<i>40-135</i>	<i>%REC</i>	<i>1</i>	<i>06-Aug-2020 18:28</i>
<i>Surr: Nitrobenzene-d5</i>	<i>42.8</i>			<i>41-120</i>	<i>%REC</i>	<i>1</i>	<i>06-Aug-2020 18:28</i>
<i>Surr: Phenol-d6</i>	<i>40.4</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>06-Aug-2020 18:28</i>
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 29-Jul-2020		Analyst: JHD	
Arsenic	0.104		0.000400	0.00200	mg/L	1	29-Jul-2020 22:57

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW91A-20200723
 Collection Date: 23-Jul-2020 13:45

ANALYTICAL REPORT
 WorkOrder:HS20071137
 Lab ID:HS20071137-14
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	29-Jul-2020 18:44
Benzene	U		0.00020	0.0010	mg/L	1	29-Jul-2020 18:44
Chlorobenzene	U		0.00030	0.0010	mg/L	1	29-Jul-2020 18:44
Ethylbenzene	U		0.00030	0.0010	mg/L	1	29-Jul-2020 18:44
Methylene chloride	U		0.0010	0.0020	mg/L	1	29-Jul-2020 18:44
Toluene	U		0.00020	0.0010	mg/L	1	29-Jul-2020 18:44
Xylenes, Total	U		0.00030	0.0010	mg/L	1	29-Jul-2020 18:44
<i>Surr: 1,2-Dichloroethane-d4</i>		<i>101</i>		<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>29-Jul-2020 18:44</i>
<i>Surr: 4-Bromofluorobenzene</i>		<i>97.9</i>		<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>29-Jul-2020 18:44</i>
<i>Surr: Dibromofluoromethane</i>		<i>99.9</i>		<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>29-Jul-2020 18:44</i>
<i>Surr: Toluene-d8</i>		<i>98.9</i>		<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>29-Jul-2020 18:44</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW91A-20200723
 Collection Date: 23-Jul-2020 13:45

ANALYTICAL REPORT
 WorkOrder:HS20071137
 Lab ID:HS20071137-14
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 28-Jul-2020		Analyst: GEY	
1,2-Diphenylhydrazine	U		0.000021	0.00020	mg/L	1	06-Aug-2020 18:48
2,4-Dimethylphenol	U		0.000040	0.00020	mg/L	1	06-Aug-2020 18:48
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	06-Aug-2020 18:48
2,6-Dinitrotoluene	U		0.000042	0.00020	mg/L	1	06-Aug-2020 18:48
2-Chloronaphthalene	U		0.000021	0.00020	mg/L	1	06-Aug-2020 18:48
2-Methylnaphthalene	U		0.000019	0.00010	mg/L	1	06-Aug-2020 18:48
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	06-Aug-2020 18:48
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	06-Aug-2020 18:48
Acenaphthene	U		0.000027	0.00010	mg/L	1	06-Aug-2020 18:48
Acenaphthylene	U		0.000015	0.00010	mg/L	1	06-Aug-2020 18:48
Anthracene	U		0.000014	0.00010	mg/L	1	06-Aug-2020 18:48
Benz(a)anthracene	U		0.000050	0.00010	mg/L	1	06-Aug-2020 18:48
Benzo(a)pyrene	U		0.000020	0.00010	mg/L	1	06-Aug-2020 18:48
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	06-Aug-2020 18:48
Bis(2-ethylhexyl)phthalate	U		0.000037	0.00020	mg/L	1	06-Aug-2020 18:48
Chrysene	U		0.000021	0.00010	mg/L	1	06-Aug-2020 18:48
Dibenzofuran	U		0.000020	0.00010	mg/L	1	06-Aug-2020 18:48
Di-n-butyl phthalate	U		0.000020	0.00020	mg/L	1	06-Aug-2020 18:48
Fluoranthene	U		0.000010	0.00010	mg/L	1	06-Aug-2020 18:48
Fluorene	U		0.000030	0.00010	mg/L	1	06-Aug-2020 18:48
Naphthalene	U		0.000020	0.00010	mg/L	1	06-Aug-2020 18:48
Nitrobenzene	U		0.000024	0.00020	mg/L	1	06-Aug-2020 18:48
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	06-Aug-2020 18:48
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	06-Aug-2020 18:48
Phenanthrene	U		0.000021	0.00010	mg/L	1	06-Aug-2020 18:48
Phenol	U		0.000035	0.00020	mg/L	1	06-Aug-2020 18:48
Pyrene	U		0.000019	0.00010	mg/L	1	06-Aug-2020 18:48
<i>Surr: 2,4,6-Tribromophenol</i>		39.5		34-129	%REC	1	06-Aug-2020 18:48
<i>Surr: 2-Fluorobiphenyl</i>		41.6		40-125	%REC	1	06-Aug-2020 18:48
<i>Surr: 2-Fluorophenol</i>		35.9		20-120	%REC	1	06-Aug-2020 18:48
<i>Surr: 4-Terphenyl-d14</i>		48.4		40-135	%REC	1	06-Aug-2020 18:48
<i>Surr: Nitrobenzene-d5</i>		41.6		41-120	%REC	1	06-Aug-2020 18:48
<i>Surr: Phenol-d6</i>		41.2		20-120	%REC	1	06-Aug-2020 18:48
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 29-Jul-2020		Analyst: JHD	
Arsenic		0.0197	0.000400	0.00200	mg/L	1	29-Jul-2020 22:59

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW28A-20200723
 Collection Date: 23-Jul-2020 14:40

ANALYTICAL REPORT
 WorkOrder:HS20071137
 Lab ID:HS20071137-15
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	29-Jul-2020 19:06
Benzene	U		0.00020	0.0010	mg/L	1	29-Jul-2020 19:06
Chlorobenzene	U		0.00030	0.0010	mg/L	1	29-Jul-2020 19:06
Ethylbenzene	U		0.00030	0.0010	mg/L	1	29-Jul-2020 19:06
Methylene chloride	U		0.0010	0.0020	mg/L	1	29-Jul-2020 19:06
Toluene	U		0.00020	0.0010	mg/L	1	29-Jul-2020 19:06
Xylenes, Total	U		0.00030	0.0010	mg/L	1	29-Jul-2020 19:06
<i>Surr: 1,2-Dichloroethane-d4</i>		<i>103</i>		<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>29-Jul-2020 19:06</i>
<i>Surr: 4-Bromofluorobenzene</i>		<i>97.7</i>		<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>29-Jul-2020 19:06</i>
<i>Surr: Dibromofluoromethane</i>		<i>100.0</i>		<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>29-Jul-2020 19:06</i>
<i>Surr: Toluene-d8</i>		<i>99.5</i>		<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>29-Jul-2020 19:06</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW28A-20200723
 Collection Date: 23-Jul-2020 14:40

ANALYTICAL REPORT
 WorkOrder:HS20071137
 Lab ID:HS20071137-15
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 28-Jul-2020		Analyst: GEY	
1,2-Diphenylhydrazine	U		0.000021	0.00020	mg/L	1	06-Aug-2020 19:07
2,4-Dimethylphenol	U		0.000040	0.00020	mg/L	1	06-Aug-2020 19:07
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	06-Aug-2020 19:07
2,6-Dinitrotoluene	U		0.000042	0.00020	mg/L	1	06-Aug-2020 19:07
2-Chloronaphthalene	U		0.000021	0.00020	mg/L	1	06-Aug-2020 19:07
2-Methylnaphthalene	U		0.000019	0.00010	mg/L	1	06-Aug-2020 19:07
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	06-Aug-2020 19:07
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	06-Aug-2020 19:07
Acenaphthene	0.000038	J	0.000027	0.00010	mg/L	1	06-Aug-2020 19:07
Acenaphthylene	U		0.000015	0.00010	mg/L	1	06-Aug-2020 19:07
Anthracene	U		0.000014	0.00010	mg/L	1	06-Aug-2020 19:07
Benz(a)anthracene	U		0.000050	0.00010	mg/L	1	06-Aug-2020 19:07
Benzo(a)pyrene	U		0.000020	0.00010	mg/L	1	06-Aug-2020 19:07
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	06-Aug-2020 19:07
Bis(2-ethylhexyl)phthalate	U		0.000037	0.00020	mg/L	1	06-Aug-2020 19:07
Chrysene	U		0.000021	0.00010	mg/L	1	06-Aug-2020 19:07
Dibenzofuran	U		0.000020	0.00010	mg/L	1	06-Aug-2020 19:07
Di-n-butyl phthalate	U		0.000020	0.00020	mg/L	1	06-Aug-2020 19:07
Fluoranthene	U		0.000010	0.00010	mg/L	1	06-Aug-2020 19:07
Fluorene	U		0.000030	0.00010	mg/L	1	06-Aug-2020 19:07
Naphthalene	0.00015		0.000020	0.00010	mg/L	1	06-Aug-2020 19:07
Nitrobenzene	U		0.000024	0.00020	mg/L	1	06-Aug-2020 19:07
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	06-Aug-2020 19:07
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	06-Aug-2020 19:07
Phenanthrene	U		0.000021	0.00010	mg/L	1	06-Aug-2020 19:07
Phenol	U		0.000035	0.00020	mg/L	1	06-Aug-2020 19:07
Pyrene	U		0.000019	0.00010	mg/L	1	06-Aug-2020 19:07
<i>Surr: 2,4,6-Tribromophenol</i>	<i>61.0</i>			<i>34-129</i>	<i>%REC</i>	<i>1</i>	<i>06-Aug-2020 19:07</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>40.3</i>			<i>40-125</i>	<i>%REC</i>	<i>1</i>	<i>06-Aug-2020 19:07</i>
<i>Surr: 2-Fluorophenol</i>	<i>38.7</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>06-Aug-2020 19:07</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>57.5</i>			<i>40-135</i>	<i>%REC</i>	<i>1</i>	<i>06-Aug-2020 19:07</i>
<i>Surr: Nitrobenzene-d5</i>	<i>42.2</i>			<i>41-120</i>	<i>%REC</i>	<i>1</i>	<i>06-Aug-2020 19:07</i>
<i>Surr: Phenol-d6</i>	<i>47.7</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>06-Aug-2020 19:07</i>
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 29-Jul-2020		Analyst: JHD	
Arsenic	U		0.000400	0.00200	mg/L	1	29-Jul-2020 23:01

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW70B-20200723
 Collection Date: 23-Jul-2020 15:25

ANALYTICAL REPORT
 WorkOrder:HS20071137
 Lab ID:HS20071137-16
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MLL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.0020	0.010	mg/L	10	29-Jul-2020 20:34
Benzene	1.5		0.020	0.10	mg/L	100	29-Jul-2020 20:56
Chlorobenzene	U		0.0030	0.010	mg/L	10	29-Jul-2020 20:34
Ethylbenzene	0.75		0.0030	0.010	mg/L	10	29-Jul-2020 20:34
Methylene chloride	U		0.010	0.020	mg/L	10	29-Jul-2020 20:34
Toluene	2.3		0.020	0.10	mg/L	100	29-Jul-2020 20:56
Xylenes, Total	2.1		0.0030	0.010	mg/L	10	29-Jul-2020 20:34
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>103</i>			<i>70-126</i>	<i>%REC</i>	<i>10</i>	<i>29-Jul-2020 20:34</i>
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>101</i>			<i>70-126</i>	<i>%REC</i>	<i>100</i>	<i>29-Jul-2020 20:56</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>102</i>			<i>81-113</i>	<i>%REC</i>	<i>10</i>	<i>29-Jul-2020 20:34</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>98.5</i>			<i>81-113</i>	<i>%REC</i>	<i>100</i>	<i>29-Jul-2020 20:56</i>
<i>Surr: Dibromofluoromethane</i>	<i>102</i>			<i>77-123</i>	<i>%REC</i>	<i>10</i>	<i>29-Jul-2020 20:34</i>
<i>Surr: Dibromofluoromethane</i>	<i>99.6</i>			<i>77-123</i>	<i>%REC</i>	<i>100</i>	<i>29-Jul-2020 20:56</i>
<i>Surr: Toluene-d8</i>	<i>99.3</i>			<i>82-127</i>	<i>%REC</i>	<i>10</i>	<i>29-Jul-2020 20:34</i>
<i>Surr: Toluene-d8</i>	<i>97.5</i>			<i>82-127</i>	<i>%REC</i>	<i>100</i>	<i>29-Jul-2020 20:56</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW70B-20200723
 Collection Date: 23-Jul-2020 15:25

ANALYTICAL REPORT
 WorkOrder:HS20071137
 Lab ID:HS20071137-16
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 28-Jul-2020		Analyst: GEY	
1,2-Diphenylhydrazine	U		0.0021	0.020	mg/L	100	06-Aug-2020 23:42
2,4-Dimethylphenol	16		0.40	2.0	mg/L	10000	07-Aug-2020 01:20
2,4-Dinitrotoluene	U		0.0058	0.020	mg/L	100	06-Aug-2020 23:42
2,6-Dinitrotoluene	U		0.0042	0.020	mg/L	100	06-Aug-2020 23:42
2-Chloronaphthalene	U		0.0021	0.020	mg/L	100	06-Aug-2020 23:42
2-Methylnaphthalene	2.0		0.019	0.10	mg/L	1000	07-Aug-2020 00:01
4,6-Dinitro-2-methylphenol	U		0.0020	0.020	mg/L	100	06-Aug-2020 23:42
4-Nitrophenol	U		0.0047	0.10	mg/L	100	06-Aug-2020 23:42
Acenaphthene	0.58		0.0027	0.010	mg/L	100	06-Aug-2020 23:42
Acenaphthylene	0.017		0.0015	0.010	mg/L	100	06-Aug-2020 23:42
Anthracene	0.27		0.0014	0.010	mg/L	100	06-Aug-2020 23:42
Benz(a)anthracene	0.054		0.0050	0.010	mg/L	100	06-Aug-2020 23:42
Benzo(a)pyrene	0.019		0.0020	0.010	mg/L	100	06-Aug-2020 23:42
Bis(2-chloroethoxy)methane	U		0.0030	0.020	mg/L	100	06-Aug-2020 23:42
Bis(2-ethylhexyl)phthalate	U		0.0037	0.020	mg/L	100	06-Aug-2020 23:42
Chrysene	0.044		0.0021	0.010	mg/L	100	06-Aug-2020 23:42
Dibenzofuran	0.57		0.0020	0.010	mg/L	100	06-Aug-2020 23:42
Di-n-butyl phthalate	U		0.0020	0.020	mg/L	100	06-Aug-2020 23:42
Fluoranthene	0.39		0.0010	0.010	mg/L	100	06-Aug-2020 23:42
Fluorene	0.52		0.0030	0.010	mg/L	100	06-Aug-2020 23:42
Naphthalene	15		0.20	1.0	mg/L	10000	07-Aug-2020 01:20
Nitrobenzene	U		0.0024	0.020	mg/L	100	06-Aug-2020 23:42
N-Nitrosodiphenylamine	U		0.0025	0.020	mg/L	100	06-Aug-2020 23:42
Pentachlorophenol	U		0.0079	0.020	mg/L	100	06-Aug-2020 23:42
Phenanthrene	2.3		0.021	0.10	mg/L	1000	07-Aug-2020 00:01
Phenol	1.7		0.035	0.20	mg/L	1000	07-Aug-2020 00:01
Pyrene	0.24		0.0019	0.010	mg/L	100	06-Aug-2020 23:42
<i>Surr: 2,4,6-Tribromophenol</i>	0	JS		34-129	%REC	1000	07-Aug-2020 00:01
<i>Surr: 2,4,6-Tribromophenol</i>	0	JS		34-129	%REC	10000	07-Aug-2020 01:20
<i>Surr: 2,4,6-Tribromophenol</i>	0	JS		34-129	%REC	100	06-Aug-2020 23:42
<i>Surr: 2-Fluorobiphenyl</i>	0	JS		40-125	%REC	100	06-Aug-2020 23:42
<i>Surr: 2-Fluorobiphenyl</i>	0	JS		40-125	%REC	1000	07-Aug-2020 00:01
<i>Surr: 2-Fluorobiphenyl</i>	0	JS		40-125	%REC	10000	07-Aug-2020 01:20
<i>Surr: 2-Fluorophenol</i>	0	JS		20-120	%REC	1000	07-Aug-2020 00:01
<i>Surr: 2-Fluorophenol</i>	0	JS		20-120	%REC	10000	07-Aug-2020 01:20
<i>Surr: 2-Fluorophenol</i>	0	JS		20-120	%REC	100	06-Aug-2020 23:42
<i>Surr: 4-Terphenyl-d14</i>	0	JS		40-135	%REC	100	06-Aug-2020 23:42
<i>Surr: 4-Terphenyl-d14</i>	0	JS		40-135	%REC	1000	07-Aug-2020 00:01
<i>Surr: 4-Terphenyl-d14</i>	0	JS		40-135	%REC	10000	07-Aug-2020 01:20

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW70B-20200723
 Collection Date: 23-Jul-2020 15:25

ANALYTICAL REPORT
 WorkOrder:HS20071137
 Lab ID:HS20071137-16
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 28-Jul-2020		Analyst: GEY	
Surr: Nitrobenzene-d5	0	JS		41-120	%REC	100	06-Aug-2020 23:42
Surr: Nitrobenzene-d5	0	JS		41-120	%REC	1000	07-Aug-2020 00:01
Surr: Nitrobenzene-d5	0	JS		41-120	%REC	10000	07-Aug-2020 01:20
Surr: Phenol-d6	0	JS		20-120	%REC	100	06-Aug-2020 23:42
Surr: Phenol-d6	0	JS		20-120	%REC	1000	07-Aug-2020 00:01
Surr: Phenol-d6	0	JS		20-120	%REC	10000	07-Aug-2020 01:20
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 29-Jul-2020		Analyst: JHD	
Arsenic	0.00168	J	0.000400	0.00200	mg/L	1	30-Jul-2020 13:39

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Weight / Prep Log

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071137

Batch ID: 155837 **Start Date:** 28 Jul 2020 08:53 **End Date:** 28 Jul 2020 14:30
Method: SV AQ SEP FUN EXTRACT-LOWLEV - 3510C **Prep Code:** 3510_B_LOW

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS20071137-02	1	1000 (mL)	1 (mL)	0.001
HS20071137-03	1	1000 (mL)	1 (mL)	0.001
HS20071137-04	1	1000 (mL)	1 (mL)	0.001
HS20071137-05	1	1000 (mL)	1 (mL)	0.001
HS20071137-06	1	1000 (mL)	1 (mL)	0.001
HS20071137-07	1	1000 (mL)	1 (mL)	0.001
HS20071137-08	1	1000 (mL)	1 (mL)	0.001
HS20071137-09	1	1000 (mL)	1 (mL)	0.001
HS20071137-10	1	1000 (mL)	1 (mL)	0.001
HS20071137-11	1	1000 (mL)	1 (mL)	0.001
HS20071137-12	1	1000 (mL)	1 (mL)	0.001
HS20071137-13	1	1000 (mL)	1 (mL)	0.001
HS20071137-14	1	1000 (mL)	1 (mL)	0.001
HS20071137-15	1	1000 (mL)	1 (mL)	0.001
HS20071137-16	1	1000 (mL)	1 (mL)	0.001

Batch ID: 155865 **Start Date:** 29 Jul 2020 11:00 **End Date:** 29 Jul 2020 15:00
Method: WATER - SW3010A **Prep Code:** 3010A

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS20071137-02		10 (mL)	10 (mL)	1
HS20071137-03		10 (mL)	10 (mL)	1
HS20071137-04		10 (mL)	10 (mL)	1
HS20071137-05		10 (mL)	10 (mL)	1
HS20071137-06		10 (mL)	10 (mL)	1
HS20071137-07		10 (mL)	10 (mL)	1
HS20071137-08		10 (mL)	10 (mL)	1
HS20071137-09		10 (mL)	10 (mL)	1
HS20071137-10		10 (mL)	10 (mL)	1
HS20071137-11		10 (mL)	10 (mL)	1
HS20071137-12		10 (mL)	10 (mL)	1
HS20071137-13		10 (mL)	10 (mL)	1
HS20071137-14		10 (mL)	10 (mL)	1
HS20071137-15		10 (mL)	10 (mL)	1
HS20071137-16		10 (mL)	10 (mL)	1

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071137

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 155837 (0)		Test Name : LOW-LEVEL SEMIVOLATILES BY 8270D			Matrix: Groundwater	
HS20071137-02	WG-1620-MW44A-20200722	22 Jul 2020 11:05		28 Jul 2020 08:53	06 Aug 2020 19:47	10
HS20071137-02	WG-1620-MW44A-20200722	22 Jul 2020 11:05		28 Jul 2020 08:53	06 Aug 2020 19:27	1
HS20071137-03	WG-1620-MW45C-20200722	22 Jul 2020 12:50		28 Jul 2020 08:53	06 Aug 2020 20:45	100
HS20071137-03	WG-1620-MW45C-20200722	22 Jul 2020 12:50		28 Jul 2020 08:53	06 Aug 2020 20:26	10
HS20071137-03	WG-1620-MW45C-20200722	22 Jul 2020 12:50		28 Jul 2020 08:53	06 Aug 2020 20:06	1
HS20071137-04	WG-1620-MW46C-20200722	22 Jul 2020 13:50		28 Jul 2020 08:53	06 Aug 2020 21:44	100
HS20071137-04	WG-1620-MW46C-20200722	22 Jul 2020 13:50		28 Jul 2020 08:53	06 Aug 2020 21:25	10
HS20071137-04	WG-1620-MW46C-20200722	22 Jul 2020 13:50		28 Jul 2020 08:53	06 Aug 2020 21:05	1
HS20071137-05	WG-1620-MW54C-20200722	22 Jul 2020 14:50		28 Jul 2020 08:53	05 Aug 2020 18:49	1
HS20071137-06	WG-1620-DUP03-20200722	22 Jul 2020 14:50		28 Jul 2020 08:53	05 Aug 2020 19:08	1
HS20071137-07	WG-1620-MW54B-20200722	22 Jul 2020 15:45		28 Jul 2020 08:53	05 Aug 2020 19:28	1
HS20071137-08	WG-1620-MW99C-20200722	22 Jul 2020 16:35		28 Jul 2020 08:53	05 Aug 2020 19:48	1
HS20071137-09	WG-1620-MW53C-20200723	23 Jul 2020 07:45		28 Jul 2020 08:53	05 Aug 2020 20:07	1
HS20071137-10	WG-1620-MW87C-20200723	23 Jul 2020 08:40		28 Jul 2020 08:53	06 Aug 2020 18:08	1
HS20071137-11	WG-1620-MW71B-20200723	23 Jul 2020 09:30		28 Jul 2020 08:53	07 Aug 2020 17:23	50
HS20071137-11	WG-1620-MW71B-20200723	23 Jul 2020 09:30		28 Jul 2020 08:53	06 Aug 2020 22:04	1
HS20071137-12	WG-1620-MW63B-20200723	23 Jul 2020 10:15		28 Jul 2020 08:53	06 Aug 2020 23:22	100
HS20071137-12	WG-1620-MW63B-20200723	23 Jul 2020 10:15		28 Jul 2020 08:53	06 Aug 2020 22:43	1
HS20071137-13	WG-1620-MW32AR-20200723	23 Jul 2020 12:50		28 Jul 2020 08:53	06 Aug 2020 18:28	1
HS20071137-14	WG-1620-MW91A-20200723	23 Jul 2020 13:45		28 Jul 2020 08:53	06 Aug 2020 18:48	1
HS20071137-15	WG-1620-MW28A-20200723	23 Jul 2020 14:40		28 Jul 2020 08:53	06 Aug 2020 19:07	1
HS20071137-16	WG-1620-MW70B-20200723	23 Jul 2020 15:25		28 Jul 2020 08:53	07 Aug 2020 01:20	1000 0
HS20071137-16	WG-1620-MW70B-20200723	23 Jul 2020 15:25		28 Jul 2020 08:53	07 Aug 2020 00:01	1000
HS20071137-16	WG-1620-MW70B-20200723	23 Jul 2020 15:25		28 Jul 2020 08:53	06 Aug 2020 23:42	100

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071137

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 155865 (0)		Test Name : ICP-MS METALS BY SW6020A			Matrix: Groundwater	
HS20071137-02	WG-1620-MW44A-20200722	22 Jul 2020 11:05		29 Jul 2020 15:00	29 Jul 2020 22:32	1
HS20071137-03	WG-1620-MW45C-20200722	22 Jul 2020 12:50		29 Jul 2020 15:00	29 Jul 2020 22:34	1
HS20071137-04	WG-1620-MW46C-20200722	22 Jul 2020 13:50		29 Jul 2020 15:00	29 Jul 2020 22:36	1
HS20071137-05	WG-1620-MW54C-20200722	22 Jul 2020 14:50		29 Jul 2020 15:00	29 Jul 2020 22:38	1
HS20071137-06	WG-1620-DUP03-20200722	22 Jul 2020 14:50		29 Jul 2020 15:00	29 Jul 2020 22:40	1
HS20071137-07	WG-1620-MW54B-20200722	22 Jul 2020 15:45		29 Jul 2020 15:00	29 Jul 2020 22:42	1
HS20071137-08	WG-1620-MW99C-20200722	22 Jul 2020 16:35		29 Jul 2020 15:00	29 Jul 2020 22:44	1
HS20071137-09	WG-1620-MW53C-20200723	23 Jul 2020 07:45		29 Jul 2020 15:00	29 Jul 2020 22:46	1
HS20071137-10	WG-1620-MW87C-20200723	23 Jul 2020 08:40		29 Jul 2020 15:00	29 Jul 2020 22:51	1
HS20071137-11	WG-1620-MW71B-20200723	23 Jul 2020 09:30		29 Jul 2020 15:00	29 Jul 2020 22:53	1
HS20071137-12	WG-1620-MW63B-20200723	23 Jul 2020 10:15		29 Jul 2020 15:00	29 Jul 2020 22:55	1
HS20071137-13	WG-1620-MW32AR-20200723	23 Jul 2020 12:50		29 Jul 2020 15:00	29 Jul 2020 22:57	1
HS20071137-14	WG-1620-MW91A-20200723	23 Jul 2020 13:45		29 Jul 2020 15:00	29 Jul 2020 22:59	1
HS20071137-15	WG-1620-MW28A-20200723	23 Jul 2020 14:40		29 Jul 2020 15:00	29 Jul 2020 23:01	1
HS20071137-16	WG-1620-MW70B-20200723	23 Jul 2020 15:25		29 Jul 2020 15:00	30 Jul 2020 13:39	1
Batch ID: R365754 (0)		Test Name : LOW LEVEL VOLATILES BY SW8260C			Matrix: Groundwater	
HS20071137-02	WG-1620-MW44A-20200722	22 Jul 2020 11:05			26 Jul 2020 19:15	1
HS20071137-03	WG-1620-MW45C-20200722	22 Jul 2020 12:50			26 Jul 2020 19:40	1
HS20071137-04	WG-1620-MW46C-20200722	22 Jul 2020 13:50			26 Jul 2020 20:04	1
HS20071137-05	WG-1620-MW54C-20200722	22 Jul 2020 14:50			26 Jul 2020 20:28	1
HS20071137-06	WG-1620-DUP03-20200722	22 Jul 2020 14:50			26 Jul 2020 20:53	1
HS20071137-07	WG-1620-MW54B-20200722	22 Jul 2020 15:45			26 Jul 2020 21:17	1
HS20071137-08	WG-1620-MW99C-20200722	22 Jul 2020 16:35			26 Jul 2020 21:42	1
HS20071137-09	WG-1620-MW53C-20200723	23 Jul 2020 07:45			26 Jul 2020 22:06	1
HS20071137-10	WG-1620-MW87C-20200723	23 Jul 2020 08:40			26 Jul 2020 22:30	1
HS20071137-11	WG-1620-MW71B-20200723	23 Jul 2020 09:30			26 Jul 2020 22:55	1
Batch ID: R365754 (0)		Test Name : LOW LEVEL VOLATILES BY SW8260C			Matrix: Water	
HS20071137-01	WQ-1620-TB05-20200723	22 Jul 2020 00:00			26 Jul 2020 18:51	1
Batch ID: R365819 (0)		Test Name : LOW LEVEL VOLATILES BY SW8260C			Matrix: Groundwater	
HS20071137-02	WG-1620-MW44A-20200722	22 Jul 2020 11:05			28 Jul 2020 19:24	1
Batch ID: R365819 (0)		Test Name : LOW LEVEL VOLATILES BY SW8260C			Matrix: Water	
HS20071137-01	WQ-1620-TB05-20200723	22 Jul 2020 00:00			28 Jul 2020 19:00	1
Batch ID: R365831 (0)		Test Name : LOW LEVEL VOLATILES BY SW8260C			Matrix: Groundwater	
HS20071137-12	WG-1620-MW63B-20200723	23 Jul 2020 10:15			29 Jul 2020 04:41	1

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071137

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R365865 (0)		Test Name : LOW LEVEL VOLATILES BY SW8260C			Matrix: Groundwater	
HS20071137-14	WG-1620-MW91A-20200723	23 Jul 2020 13:45			29 Jul 2020 18:44	1
HS20071137-15	WG-1620-MW28A-20200723	23 Jul 2020 14:40			29 Jul 2020 19:06	1
HS20071137-16	WG-1620-MW70B-20200723	23 Jul 2020 15:25			29 Jul 2020 20:56	100
HS20071137-16	WG-1620-MW70B-20200723	23 Jul 2020 15:25			29 Jul 2020 20:34	10
Batch ID: R366012 (0)		Test Name : LOW LEVEL VOLATILES BY SW8260C			Matrix: Groundwater	
HS20071137-13	WG-1620-MW32AR-20200723	23 Jul 2020 12:50			30 Jul 2020 20:02	1

WorkOrder: HS20071137
 InstrumentID: ICPMS06
 Test Code: ICP_TW
 Test Number: SW6020
 Test Name: ICP-MS Metals by SW6020A

**METHOD DETECTION /
 REPORTING LIMITS**

Matrix: Aqueous **Units:** mg/L

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	Arsenic	7440-38-2	0.00100	0.000928	0.000400	0.00200

WorkOrder: HS20071137
InstrumentID: ICPMS05
Test Code: ICP_TW
Test Number: SW6020
Test Name: ICP-MS Metals by SW6020A

**METHOD DETECTION /
REPORTING LIMITS**

Matrix: Aqueous **Units:** mg/L

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	Arsenic	7440-38-2	0.00100	0.00102	0.000400	0.00200

WorkOrder: HS20071137
 InstrumentID: SV-7
 Test Code: 8270_LOW_W
 Test Number: SW8270
 Test Name: Low-Level Semivolatiles by 8270D

**METHOD DETECTION /
 REPORTING LIMITS**

Matrix: Aqueous **Units:** mg/L

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	1,2-Diphenylhydrazine	122-66-7	0.00010	0.000073	0.000021	0.00020
A	2,4-Dimethylphenol	105-67-9	0.00010	0.000085	0.000040	0.00020
A	2,4-Dinitrotoluene	121-14-2	0.00010	0.000088	0.000058	0.00020
A	2,6-Dinitrotoluene	606-20-2	0.00010	0.000082	0.000042	0.00020
A	2-Chloronaphthalene	91-58-7	0.00010	0.000084	0.000021	0.00020
A	2-Methylnaphthalene	91-57-6	0.000050	0.000040	0.000019	0.00010
A	4,6-Dinitro-2-methylphenol	534-52-1	0.00010	0.000056	0.000020	0.00020
A	4-Nitrophenol	100-02-7	0.00010	0.000075	0.000047	0.0010
A	Acenaphthene	83-32-9	0.000050	0.000045	0.000027	0.00010
A	Acenaphthylene	208-96-8	0.000050	0.000039	0.000015	0.00010
A	Anthracene	120-12-7	0.000050	0.000040	0.000014	0.00010
A	Benz(a)anthracene	56-55-3	0.000050	0.000036	0.000050	0.00010
A	Benzo(a)pyrene	50-32-8	0.000050	0.000029	0.000020	0.00010
A	Bis(2-chloroethoxy)methane	111-91-1	0.00010	0.000085	0.000030	0.00020
A	Bis(2-ethylhexyl)phthalate	117-81-7	0.00010	0.000072	0.000037	0.00020
A	Chrysene	218-01-9	0.000050	0.000040	0.000021	0.00010
A	Dibenzofuran	132-64-9	0.000050	0.000045	0.000020	0.00010
A	Di-n-butyl phthalate	84-74-2	0.00010	0.000073	0.000020	0.00020
A	Fluoranthene	206-44-0	0.000050	0.000033	0.000010	0.00010
A	Fluorene	86-73-7	0.000050	0.000045	0.000030	0.00010
A	Naphthalene	91-20-3	0.000050	0.000066	0.000020	0.00010
A	Nitrobenzene	98-95-3	0.00010	0.000098	0.000024	0.00020
A	N-Nitrosodiphenylamine	86-30-6	0.00010	0.000079	0.000025	0.00020
A	Pentachlorophenol	87-86-5	0.00010	0.000060	0.000079	0.00020
A	Phenanthrene	85-01-8	0.000050	0.000042	0.000021	0.00010
A	Phenol	108-95-2	0.00010	0.000090	0.000035	0.00020
A	Pyrene	129-00-0	0.000050	0.000044	0.000019	0.00010
S	2,4,6-Tribromophenol	118-79-6	0	0	0	0.00020
S	2-Fluorobiphenyl	321-60-8	0	0	0	0.00020
S	2-Fluorophenol	367-12-4	0	0	0	0.00020
S	4-Terphenyl-d14	1718-51-0	0	0	0	0.00020
S	Nitrobenzene-d5	4165-60-0	0	0	0	0.00020
S	Phenol-d6	13127-88-3	0	0	0	0.00020

WorkOrder: HS20071137
 InstrumentID: SV-6
 Test Code: 8270_LOW_W
 Test Number: SW8270
 Test Name: Low-Level Semivolatiles by 8270D

**METHOD DETECTION /
 REPORTING LIMITS**

Matrix: Aqueous

Units: mg/L

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	Naphthalene	91-20-3	0.000050	0.000042	0.000020	0.00010
S	2,4,6-Tribromophenol	118-79-6	0	0	0	0.00020
S	2-Fluorobiphenyl	321-60-8	0	0	0	0.00020
S	2-Fluorophenol	367-12-4	0	0	0	0.00020
S	4-Terphenyl-d14	1718-51-0	0	0	0	0.00020
S	Nitrobenzene-d5	4165-60-0	0	0	0	0.00020
S	Phenol-d6	13127-88-3	0	0	0	0.00020

WorkOrder: HS20071137
 InstrumentID: VOA9
 Test Code: 8260_LL_W
 Test Number: SW8260
 Test Name: Low Level Volatiles by SW8260C

**METHOD DETECTION /
 REPORTING LIMITS**

Matrix: Aqueous

Units: mg/L

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	1,2-Dichloroethane	107-06-2	0.00050	0.00060	0.00020	0.0010
A	Benzene	71-43-2	0.00050	0.00054	0.00020	0.0010
A	Chlorobenzene	108-90-7	0.0010	0.0012	0.00030	0.0010
A	Ethylbenzene	100-41-4	0.0010	0.00096	0.00030	0.0010
A	Methylene chloride	75-09-2	0.0020	0.0011	0.0010	0.0020
A	Toluene	108-88-3	0.00050	0.00063	0.00020	0.0010
A	Xylenes, Total	1330-20-7	0.0010	0.0030	0.00030	0.0010
S	1,2-Dichloroethane-d4	17060-07-0	0	0	0	0.0010
S	4-Bromofluorobenzene	460-00-4	0	0	0	0.0010
S	Dibromofluoromethane	1868-53-7	0	0	0	0.0010
S	Toluene-d8	2037-26-5	0	0	0	0.0010

WorkOrder: HS20071137
 InstrumentID: VOA4
 Test Code: 8260_LL_W
 Test Number: SW8260
 Test Name: Low Level Volatiles by SW8260C

**METHOD DETECTION /
 REPORTING LIMITS**

Matrix: Aqueous

Units: mg/L

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	1,2-Dichloroethane	107-06-2	0.00050	0.00056	0.00020	0.0010
A	Benzene	71-43-2	0.00050	0.00052	0.00020	0.0010
A	Chlorobenzene	108-90-7	0.0010	0.00097	0.00030	0.0010
A	Ethylbenzene	100-41-4	0.0010	0.00070	0.00030	0.0010
A	Methylene chloride	75-09-2	0.0020	0.00062	0.0010	0.0020
A	Toluene	108-88-3	0.00050	0.00060	0.00020	0.0010
A	Xylenes, Total	1330-20-7	0.0010	0.0024	0.00030	0.0010
S	1,2-Dichloroethane-d4	17060-07-0	0	0	0	0.0010
S	4-Bromofluorobenzene	460-00-4	0	0	0	0.0010
S	Dibromofluoromethane	1868-53-7	0	0	0	0.0010
S	Toluene-d8	2037-26-5	0	0	0	0.0010

WorkOrder: HS20071137
 InstrumentID: VOA2
 Test Code: 8260_LL_W
 Test Number: SW8260
 Test Name: Low Level Volatiles by SW8260C

**METHOD DETECTION /
 REPORTING LIMITS**

Matrix: Aqueous

Units: mg/L

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	1,2-Dichloroethane	107-06-2	0.00050	0.00063	0.00020	0.0010
A	Benzene	71-43-2	0.00050	0.00052	0.00020	0.0010
A	Chlorobenzene	108-90-7	0.0010	0.0011	0.00030	0.0010
A	Ethylbenzene	100-41-4	0.0010	0.0011	0.00030	0.0010
A	Methylene chloride	75-09-2	0.0020	0.00081	0.0010	0.0020
A	Toluene	108-88-3	0.00050	0.00056	0.00020	0.0010
A	Xylenes, Total	1330-20-7	0.0010	0.0032	0.00030	0.0010
S	1,2-Dichloroethane-d4	17060-07-0	0	0	0	0.0010
S	4-Bromofluorobenzene	460-00-4	0	0	0	0.0010
S	Dibromofluoromethane	1868-53-7	0	0	0	0.0010
S	Toluene-d8	2037-26-5	0	0	0	0.0010

WorkOrder: HS20071137
 InstrumentID: VOA6
 Test Code: 8260_LL_W
 Test Number: SW8260
 Test Name: Low Level Volatiles by SW8260C

**METHOD DETECTION /
 REPORTING LIMITS**

Matrix: Aqueous

Units: mg/L

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	Vinyl chloride	75-01-4	0.00050	0.00045	0.00020	0.0010
S	1,2-Dichloroethane-d4	17060-07-0	0	0	0	0.0010
S	4-Bromofluorobenzene	460-00-4	0	0	0	0.0010
S	Dibromofluoromethane	1868-53-7	0	0	0	0.0010
S	Toluene-d8	2037-26-5	0	0	0	0.0010

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071137

QC BATCH REPORT

Batch ID: 155865 (0)	Instrument: ICPMS06	Method: ICP-MS METALS BY SW6020A
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MBLK	Sample ID: MBLK-155865	Units: mg/L	Analysis Date: 29-Jul-2020 22:11							
Client ID:	Run ID: ICPMS06_365848	SeqNo: 5679153	PrepDate: 29-Jul-2020 DF: 1							
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Arsenic U 0.00200

LCS	Sample ID: LCS-155865	Units: mg/L	Analysis Date: 29-Jul-2020 22:13							
Client ID:	Run ID: ICPMS06_365848	SeqNo: 5679154	PrepDate: 29-Jul-2020 DF: 1							
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Arsenic 0.04596 0.00200 0.05 0 91.9 80 - 120

MS	Sample ID: HS20071228-03MS	Units: mg/L	Analysis Date: 29-Jul-2020 22:18							
Client ID:	Run ID: ICPMS06_365848	SeqNo: 5679157	PrepDate: 29-Jul-2020 DF: 1							
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Arsenic 0.04858 0.00200 0.05 -0.000137 97.4 80 - 120

MSD	Sample ID: HS20071228-03MSD	Units: mg/L	Analysis Date: 29-Jul-2020 22:20							
Client ID:	Run ID: ICPMS06_365848	SeqNo: 5679158	PrepDate: 29-Jul-2020 DF: 1							
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual

Arsenic 0.04744 0.00200 0.05 -0.000137 95.1 80 - 120 0.04858 2.38 20

SD	Sample ID: HS20071228-03SD	Units: mg/L	Analysis Date: 29-Jul-2020 22:17							
Client ID:	Run ID: ICPMS06_365848	SeqNo: 5679156	PrepDate: 29-Jul-2020 DF: 5							
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	RPD Limit	Qual

Arsenic U 0.0100 -0.000137 0 10

The following samples were analyzed in this batch:	HS20071137-02	HS20071137-03	HS20071137-04	HS20071137-05
	HS20071137-06	HS20071137-07	HS20071137-08	HS20071137-09
	HS20071137-10	HS20071137-11	HS20071137-12	HS20071137-13
	HS20071137-14	HS20071137-15	HS20071137-16	

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071137

QC BATCH REPORT

Batch ID: 155837 (0)		Instrument: SV-7		Method: LOW-LEVEL SEMIVOLATILES BY 8270D						
MBLK	Sample ID: MBLK-155837	Units: ug/L			Analysis Date: 06-Aug-2020 14:33					
Client ID:	Run ID: SV-7_366327	SeqNo: 5687698	PrepDate: 28-Jul-2020	DF: 1						
Analyte	Result	SQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Diphenylhydrazine	U	0.20								
2,4-Dimethylphenol	U	0.20								
2,4-Dinitrotoluene	U	0.20								
2,6-Dinitrotoluene	U	0.20								
2-Chloronaphthalene	U	0.20								
2-Methylnaphthalene	U	0.10								
4,6-Dinitro-2-methylphenol	U	0.20								
4-Nitrophenol	U	1.0								
Acenaphthene	U	0.10								
Acenaphthylene	U	0.10								
Anthracene	U	0.10								
Benz(a)anthracene	U	0.10								
Benzo(a)pyrene	U	0.10								
Bis(2-chloroethoxy)methane	U	0.20								
Bis(2-ethylhexyl)phthalate	U	0.20								
Chrysene	U	0.10								
Dibenzofuran	U	0.10								
Di-n-butyl phthalate	U	0.20								
Fluoranthene	U	0.10								
Fluorene	U	0.10								
Naphthalene	U	0.10								
Nitrobenzene	U	0.20								
N-Nitrosodiphenylamine	U	0.20								
Pentachlorophenol	U	0.20								
Phenanthrene	U	0.10								
Phenol	U	0.20								
Pyrene	U	0.10								
<i>Surr: 2,4,6-Tribromophenol</i>	5.115	0.20	5	0	102	34 - 129				
<i>Surr: 2-Fluorobiphenyl</i>	2.209	0.20	5	0	44.2	40 - 125				
<i>Surr: 2-Fluorophenol</i>	2.074	0.20	5	0	41.5	20 - 120				
<i>Surr: 4-Terphenyl-d14</i>	5.058	0.20	5	0	101	40 - 135				
<i>Surr: Nitrobenzene-d5</i>	2.302	0.20	5	0	46.0	41 - 120				
<i>Surr: Phenol-d6</i>	2.57	0.20	5	0	51.4	20 - 120				

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071137

QC BATCH REPORT

Batch ID: 155837 (0)		Instrument: SV-7		Method: LOW-LEVEL SEMIVOLATILES BY 8270D						
LCS	Sample ID: LCS-155837	Units: ug/L			Analysis Date: 06-Aug-2020 14:52					
Client ID:	Run ID: SV-7_366327	SeqNo: 5687699	PrepDate: 28-Jul-2020	DF: 1						
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Diphenylhydrazine	5.001	0.20	5	0	100	39 - 127				
2,4-Dimethylphenol	3.708	0.20	5	0	74.2	35 - 120				
2,4-Dinitrotoluene	4.954	0.20	5	0	99.1	50 - 122				
2,6-Dinitrotoluene	5.075	0.20	5	0	101	50 - 120				
2-Chloronaphthalene	5.073	0.20	5	0	101	50 - 120				
2-Methylnaphthalene	3.973	0.10	5	0	79.5	50 - 120				
4,6-Dinitro-2-methylphenol	5.731	0.20	5	0	115	25 - 121				
4-Nitrophenol	5.34	1.0	5	0	107	30 - 130				
Acenaphthene	4.705	0.10	5	0	94.1	45 - 120				
Acenaphthylene	4.235	0.10	5	0	84.7	47 - 120				
Anthracene	5.289	0.10	5	0	106	45 - 120				
Benz(a)anthracene	5.872	0.10	5	0	117	40 - 120				
Benzo(a)pyrene	5.897	0.10	5	0	118	45 - 120				
Bis(2-chloroethoxy)methane	3.703	0.20	5	0	74.1	45 - 120				
Bis(2-ethylhexyl)phthalate	5.777	0.20	5	0	116	40 - 139				
Chrysene	5.108	0.10	5	0	102	43 - 120				
Dibenzofuran	4.517	0.10	5	0	90.3	50 - 120				
Di-n-butyl phthalate	5.108	0.20	5	0	102	45 - 123				
Fluoranthene	5.758	0.10	5	0	115	45 - 125				
Fluorene	4.756	0.10	5	0	95.1	49 - 120				
Naphthalene	3.489	0.10	5	0	69.8	45 - 120				
Nitrobenzene	3.924	0.20	5	0	78.5	44 - 120				
N-Nitrosodiphenylamine	4.799	0.20	5	0	96.0	40 - 125				
Pentachlorophenol	4.435	0.20	5	0	88.7	19 - 121				
Phenanthrene	5.036	0.10	5	0	101	45 - 121				
Phenol	3.898	0.20	5	0	78.0	20 - 124				
Pyrene	5.041	0.10	5	0	101	40 - 130				
<i>Surr: 2,4,6-Tribromophenol</i>	<i>5.851</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>117</i>	<i>34 - 129</i>				
<i>Surr: 2-Fluorobiphenyl</i>	<i>4.312</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>86.2</i>	<i>40 - 125</i>				
<i>Surr: 2-Fluorophenol</i>	<i>3.339</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>66.8</i>	<i>20 - 120</i>				
<i>Surr: 4-Terphenyl-d14</i>	<i>5.434</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>109</i>	<i>40 - 135</i>				
<i>Surr: Nitrobenzene-d5</i>	<i>3.992</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>79.8</i>	<i>41 - 120</i>				
<i>Surr: Phenol-d6</i>	<i>5.021</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>100</i>	<i>20 - 120</i>				

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071137

QC BATCH REPORT

Batch ID: 155837 (0)		Instrument: SV-7		Method: LOW-LEVEL SEMIVOLATILES BY 8270D							
LCSD		Sample ID: LCSD-155837		Units: ug/L		Analysis Date: 06-Aug-2020 15:12					
Client ID:		Run ID: SV-7_366327		SeqNo: 5687700		PrepDate: 28-Jul-2020		DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
1,2-Diphenylhydrazine	3.472	0.20	5	0	69.4	39 - 127	5.001	36.1	20	R	
2,4-Dimethylphenol	2.844	0.20	5	0	56.9	35 - 120	3.708	26.4	20	R	
2,4-Dinitrotoluene	3.828	0.20	5	0	76.6	50 - 122	4.954	25.7	20	R	
2,6-Dinitrotoluene	3.34	0.20	5	0	66.8	50 - 120	5.075	41.2	20	R	
2-Chloronaphthalene	3.83	0.20	5	0	76.6	50 - 120	5.073	27.9	20	R	
2-Methylnaphthalene	3.083	0.10	5	0	61.7	50 - 120	3.973	25.2	20	R	
4,6-Dinitro-2-methylphenol	4.031	0.20	5	0	80.6	25 - 121	5.731	34.8	30	R	
4-Nitrophenol	3.509	1.0	5	0	70.2	30 - 130	5.34	41.4	20	R	
Acenaphthene	3.297	0.10	5	0	65.9	45 - 120	4.705	35.2	20	R	
Acenaphthylene	3.216	0.10	5	0	64.3	47 - 120	4.235	27.3	20	R	
Anthracene	3.588	0.10	5	0	71.8	45 - 120	5.289	38.3	20	R	
Benz(a)anthracene	4.48	0.10	5	0	89.6	40 - 120	5.872	26.9	20	R	
Benzo(a)pyrene	4.765	0.10	5	0	95.3	45 - 120	5.897	21.2	20	R	
Bis(2-chloroethoxy)methane	2.76	0.20	5	0	55.2	45 - 120	3.703	29.2	20	R	
Bis(2-ethylhexyl)phthalate	3.909	0.20	5	0	78.2	40 - 139	5.777	38.6	20	R	
Chrysene	3.614	0.10	5	0	72.3	43 - 120	5.108	34.3	20	R	
Dibenzofuran	3.232	0.10	5	0	64.6	50 - 120	4.517	33.2	20	R	
Di-n-butyl phthalate	3.61	0.20	5	0	72.2	45 - 123	5.108	34.4	20	R	
Fluoranthene	3.715	0.10	5	0	74.3	45 - 125	5.758	43.1	20	R	
Fluorene	3.572	0.10	5	0	71.4	49 - 120	4.756	28.5	20	R	
Naphthalene	2.76	0.10	5	0	55.2	45 - 120	3.489	23.4	20	R	
Nitrobenzene	3.131	0.20	5	0	62.6	44 - 120	3.924	22.5	20	R	
N-Nitrosodiphenylamine	3.252	0.20	5	0	65.0	40 - 125	4.799	38.4	20	R	
Pentachlorophenol	3.268	0.20	5	0	65.4	19 - 121	4.435	30.3	20	R	
Phenanthrene	3.308	0.10	5	0	66.2	45 - 121	5.036	41.4	20	R	
Phenol	2.995	0.20	5	0	59.9	20 - 124	3.898	26.2	20	R	
Pyrene	3.678	0.10	5	0	73.6	40 - 130	5.041	31.3	20	R	
<i>Surr: 2,4,6-Tribromophenol</i>	<i>5.099</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>102</i>	<i>34 - 129</i>	<i>5.851</i>	<i>13.7</i>	<i>20</i>		
<i>Surr: 2-Fluorobiphenyl</i>	<i>3.012</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>60.2</i>	<i>40 - 125</i>	<i>4.312</i>	<i>35.5</i>	<i>20</i>	R	
<i>Surr: 2-Fluorophenol</i>	<i>2.735</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>54.7</i>	<i>20 - 120</i>	<i>3.339</i>	<i>19.9</i>	<i>20</i>		
<i>Surr: 4-Terphenyl-d14</i>	<i>3.858</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>77.2</i>	<i>40 - 135</i>	<i>5.434</i>	<i>33.9</i>	<i>20</i>	R	
<i>Surr: Nitrobenzene-d5</i>	<i>3.033</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>60.7</i>	<i>41 - 120</i>	<i>3.992</i>	<i>27.3</i>	<i>20</i>	R	
<i>Surr: Phenol-d6</i>	<i>3.478</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>69.6</i>	<i>20 - 120</i>	<i>5.021</i>	<i>36.3</i>	<i>20</i>	R	

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071137

QC BATCH REPORT

Batch ID: 155837 (0) **Instrument:** SV-7 **Method:** LOW-LEVEL SEMIVOLATILES BY 8270D

The following samples were analyzed in this batch:

HS20071137-02	HS20071137-03	HS20071137-04	HS20071137-05
HS20071137-06	HS20071137-07	HS20071137-08	HS20071137-09
HS20071137-10	HS20071137-11	HS20071137-12	HS20071137-13
HS20071137-14	HS20071137-15	HS20071137-16	

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071137

QC BATCH REPORT

Batch ID: R365754 (0) **Instrument:** VOA9 **Method:** LOW LEVEL VOLATILES BY SW8260C

MBLK		Sample ID: VBLKW-200726			Units: ug/L		Analysis Date: 26-Jul-2020 13:58			
Client ID:		Run ID: VOA9_365754			SeqNo: 5676379		PrepDate:		DF: 1	
Analyte	Result	MLQ	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Dichloroethane	U	1.0								
Benzene	U	1.0								
Chlorobenzene	U	1.0								
Ethylbenzene	U	1.0								
Methylene chloride	U	2.0								
Toluene	U	1.0								
Xylenes, Total	U	1.0								
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>54.29</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>109</i>	<i>70 - 123</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>48.56</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>97.1</i>	<i>82 - 115</i>				
<i>Surr: Dibromofluoromethane</i>	<i>51.94</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>104</i>	<i>73 - 126</i>				
<i>Surr: Toluene-d8</i>	<i>50.65</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>101</i>	<i>81 - 120</i>				

LCS		Sample ID: VLCSW-200726			Units: ug/L		Analysis Date: 26-Jul-2020 13:09			
Client ID:		Run ID: VOA9_365754			SeqNo: 5676378		PrepDate:		DF: 1	
Analyte	Result	MLQ	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Dichloroethane	18.18	1.0	20	0	90.9	70 - 124				
Benzene	18.76	1.0	20	0	93.8	74 - 120				
Chlorobenzene	18.12	1.0	20	0	90.6	76 - 113				
Ethylbenzene	18.8	1.0	20	0	94.0	77 - 117				
Methylene chloride	20.22	2.0	20	0	101	70 - 127				
Toluene	18.21	1.0	20	0	91.0	77 - 118				
Xylenes, Total	58.68	1.0	60	0	97.8	75 - 122				
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>52.34</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>105</i>	<i>70 - 130</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>50.62</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>101</i>	<i>82 - 115</i>				
<i>Surr: Dibromofluoromethane</i>	<i>50.75</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>101</i>	<i>73 - 126</i>				
<i>Surr: Toluene-d8</i>	<i>50.61</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>101</i>	<i>81 - 120</i>				

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071137

QC BATCH REPORT

Batch ID: R365754 (0) **Instrument:** VOA9 **Method:** LOW LEVEL VOLATILES BY SW8260C

MS		Sample ID: HS20071180-02MS			Units: ug/L		Analysis Date: 26-Jul-2020 15:36			
Client ID:		Run ID: VOA9_365754			SeqNo: 5676382		PrepDate:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Dichloroethane	20.69	1.0	20	0	103	70 - 127				
Benzene	20.68	1.0	20	0	103	70 - 127				
Chlorobenzene	19.63	1.0	20	0	98.2	70 - 114				
Ethylbenzene	20.58	1.0	20	0	103	70 - 124				
Methylene chloride	20.25	2.0	20	0	101	70 - 128				
Toluene	20.39	1.0	20	0	102	70 - 123				
Xylenes, Total	64.65	1.0	60	0	108	70 - 130				
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>52.93</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>106</i>	<i>70 - 126</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>50.92</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>102</i>	<i>81 - 113</i>				
<i>Surr: Dibromofluoromethane</i>	<i>50.46</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>101</i>	<i>77 - 123</i>				
<i>Surr: Toluene-d8</i>	<i>51.4</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>103</i>	<i>82 - 127</i>				

MSD		Sample ID: HS20071180-02MSD			Units: ug/L		Analysis Date: 26-Jul-2020 16:00			
Client ID:		Run ID: VOA9_365754			SeqNo: 5676383		PrepDate:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Dichloroethane	18.91	1.0	20	0	94.6	70 - 127	20.69	8.97	20	
Benzene	19.81	1.0	20	0	99.1	70 - 127	20.68	4.29	20	
Chlorobenzene	19.09	1.0	20	0	95.4	70 - 114	19.63	2.82	20	
Ethylbenzene	20.26	1.0	20	0	101	70 - 124	20.58	1.57	20	
Methylene chloride	19.71	2.0	20	0	98.6	70 - 128	20.25	2.68	20	
Toluene	19.74	1.0	20	0	98.7	70 - 123	20.39	3.23	20	
Xylenes, Total	62.78	1.0	60	0	105	70 - 130	64.65	2.94	20	
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>52.67</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>105</i>	<i>70 - 126</i>	<i>52.93</i>	<i>0.48</i>	<i>20</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>51.06</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>102</i>	<i>81 - 113</i>	<i>50.92</i>	<i>0.273</i>	<i>20</i>	
<i>Surr: Dibromofluoromethane</i>	<i>50.53</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>101</i>	<i>77 - 123</i>	<i>50.46</i>	<i>0.124</i>	<i>20</i>	
<i>Surr: Toluene-d8</i>	<i>50.99</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>102</i>	<i>82 - 127</i>	<i>51.4</i>	<i>0.805</i>	<i>20</i>	

The following samples were analyzed in this batch:

HS20071137-01	HS20071137-02	HS20071137-03	HS20071137-04
HS20071137-05	HS20071137-06	HS20071137-07	HS20071137-08
HS20071137-09	HS20071137-10	HS20071137-11	

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071137

QC BATCH REPORT

Batch ID: R365819 (0)		Instrument: VOA6		Method: LOW LEVEL VOLATILES BY SW8260C						
MBLK	Sample ID: VBLKW-200728	Units: ug/L			Analysis Date: 28-Jul-2020 16:36					
Client ID:	Run ID: VOA6_365819	SeqNo: 5677942		PrepDate:			DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Vinyl chloride	U	1.0								
<i>Surr: 1,2-Dichloroethane-d4</i>	54.8	1.0	50	0	110	70 - 123				
<i>Surr: 4-Bromofluorobenzene</i>	49.72	1.0	50	0	99.4	82 - 115				
<i>Surr: Dibromofluoromethane</i>	50.31	1.0	50	0	101	73 - 126				
<i>Surr: Toluene-d8</i>	52.68	1.0	50	0	105	81 - 120				
LCS	Sample ID: VLCSW-200728	Units: ug/L			Analysis Date: 28-Jul-2020 15:48					
Client ID:	Run ID: VOA6_365819	SeqNo: 5677941		PrepDate:			DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Vinyl chloride	20.44	1.0	20	0	102	70 - 130				
<i>Surr: 1,2-Dichloroethane-d4</i>	53.69	1.0	50	0	107	70 - 130				
<i>Surr: 4-Bromofluorobenzene</i>	47.18	1.0	50	0	94.4	82 - 115				
<i>Surr: Dibromofluoromethane</i>	47.72	1.0	50	0	95.4	73 - 126				
<i>Surr: Toluene-d8</i>	44.41	1.0	50	0	88.8	81 - 120				
MS	Sample ID: HS20071092-02MS	Units: ug/L			Analysis Date: 28-Jul-2020 18:12					
Client ID:	Run ID: VOA6_365819	SeqNo: 5677944		PrepDate:			DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
Vinyl chloride	25.61	1.0	20	0	128	70 - 130				
<i>Surr: 1,2-Dichloroethane-d4</i>	57	1.0	50	0	114	70 - 126				
<i>Surr: 4-Bromofluorobenzene</i>	51.18	1.0	50	0	102	81 - 113				
<i>Surr: Dibromofluoromethane</i>	51.71	1.0	50	0	103	77 - 123				
<i>Surr: Toluene-d8</i>	51.07	1.0	50	0	102	82 - 127				

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071137

QC BATCH REPORT

Batch ID: R365819 (0) **Instrument:** VOA6 **Method:** LOW LEVEL VOLATILES BY SW8260C

MSD		Sample ID: HS20071092-02MSD		Units: ug/L		Analysis Date: 28-Jul-2020 18:36			
Client ID:		Run ID: VOA6_365819		SeqNo: 5677945		PrepDate:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Vinyl chloride	24.09	1.0	20	0	120	70 - 130	25.61	6.14	20
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>56.03</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>112</i>	<i>70 - 126</i>	<i>57</i>	<i>1.73</i>	<i>20</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>51.59</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>103</i>	<i>81 - 113</i>	<i>51.18</i>	<i>0.798</i>	<i>20</i>
<i>Surr: Dibromofluoromethane</i>	<i>51.66</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>103</i>	<i>77 - 123</i>	<i>51.71</i>	<i>0.0823</i>	<i>20</i>
<i>Surr: Toluene-d8</i>	<i>51.1</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>102</i>	<i>82 - 127</i>	<i>51.07</i>	<i>0.0744</i>	<i>20</i>

The following samples were analyzed in this batch: HS20071137-01 HS20071137-02

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071137

QC BATCH REPORT

Batch ID: R365831 (0) **Instrument:** VOA4 **Method:** LOW LEVEL VOLATILES BY SW8260C

MBLK		Sample ID: VBLKW-200728			Units: ug/L		Analysis Date: 29-Jul-2020 00:48			
Client ID:		Run ID: VOA4_365831			SeqNo: 5678168		PrepDate:		DF: 1	
Analyte	Result	MLQ	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Dichloroethane	U	1.0								
Benzene	U	1.0								
Chlorobenzene	U	1.0								
Ethylbenzene	U	1.0								
Methylene chloride	U	2.0								
Toluene	U	1.0								
Xylenes, Total	U	1.0								
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>49.96</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>99.9</i>	<i>70 - 123</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>48.71</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>97.4</i>	<i>82 - 115</i>				
<i>Surr: Dibromofluoromethane</i>	<i>49.78</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>99.6</i>	<i>73 - 126</i>				
<i>Surr: Toluene-d8</i>	<i>48.96</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>97.9</i>	<i>81 - 120</i>				

LCS		Sample ID: VLCSW-200728			Units: ug/L		Analysis Date: 29-Jul-2020 00:05			
Client ID:		Run ID: VOA4_365831			SeqNo: 5678167		PrepDate:		DF: 1	
Analyte	Result	MLQ	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Dichloroethane	17.55	1.0	20	0	87.8	70 - 124				
Benzene	18.33	1.0	20	0	91.7	74 - 120				
Chlorobenzene	19.04	1.0	20	0	95.2	76 - 113				
Ethylbenzene	19.27	1.0	20	0	96.3	77 - 117				
Methylene chloride	20.61	2.0	20	0	103	70 - 127				
Toluene	18.35	1.0	20	0	91.7	77 - 118				
Xylenes, Total	59.98	1.0	60	0	100.0	75 - 122				
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>47.54</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>95.1</i>	<i>70 - 130</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>50.03</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>100</i>	<i>82 - 115</i>				
<i>Surr: Dibromofluoromethane</i>	<i>49.21</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>98.4</i>	<i>73 - 126</i>				
<i>Surr: Toluene-d8</i>	<i>49.7</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>99.4</i>	<i>81 - 120</i>				

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071137

QC BATCH REPORT

Batch ID: R365831 (0)		Instrument: VOA4		Method: LOW LEVEL VOLATILES BY SW8260C						
MS		Sample ID: HS20071137-12MS		Units: ug/L		Analysis Date: 29-Jul-2020 05:02				
Client ID: WG-1620-MW63B-20200723		Run ID: VOA4_365831		SeqNo: 5678180		PrepDate:		DF: 1		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
1,2-Dichloroethane	17.58	1.0	20	0	87.9	70 - 127				
Benzene	20.22	1.0	20	100.2	-400	70 - 127			SO	
Chlorobenzene	18.99	1.0	20	0.2322	93.8	70 - 114				
Ethylbenzene	20.97	1.0	20	141.8	-604	70 - 124			SO	
Methylene chloride	18.62	2.0	20	0	93.1	70 - 128				
Toluene	22.52	1.0	20	7.324	76.0	70 - 123				
Xylenes, Total	65.02	1.0	60	39.75	42.1	70 - 130			S	
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>46.35</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>92.7</i>	<i>70 - 126</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>49.75</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>99.5</i>	<i>81 - 113</i>				
<i>Surr: Dibromofluoromethane</i>	<i>47.31</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>94.6</i>	<i>77 - 123</i>				
<i>Surr: Toluene-d8</i>	<i>49.61</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>99.2</i>	<i>82 - 127</i>				

MSD		Sample ID: HS20071137-12MSD		Units: ug/L		Analysis Date: 29-Jul-2020 05:23			
Client ID: WG-1620-MW63B-20200723		Run ID: VOA4_365831		SeqNo: 5678181		PrepDate:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
1,2-Dichloroethane	17.69	1.0	20	0	88.4	70 - 127	17.58	0.623	20
Benzene	19.89	1.0	20	100.2	-402	70 - 127	20.22	1.65	20 SO
Chlorobenzene	18.59	1.0	20	0.2322	91.8	70 - 114	18.99	2.12	20
Ethylbenzene	19.95	1.0	20	141.8	-609	70 - 124	20.97	4.97	20 SO
Methylene chloride	18.76	2.0	20	0	93.8	70 - 128	18.62	0.758	20
Toluene	20.48	1.0	20	7.324	65.8	70 - 123	22.52	9.5	20 S
Xylenes, Total	61.89	1.0	60	39.75	36.9	70 - 130	65.02	4.93	20 S
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>46.9</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>93.8</i>	<i>70 - 126</i>	<i>46.35</i>	<i>1.18</i>	<i>20</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>49.14</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>98.3</i>	<i>81 - 113</i>	<i>49.75</i>	<i>1.24</i>	<i>20</i>
<i>Surr: Dibromofluoromethane</i>	<i>47.7</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>95.4</i>	<i>77 - 123</i>	<i>47.31</i>	<i>0.824</i>	<i>20</i>
<i>Surr: Toluene-d8</i>	<i>48.98</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>98.0</i>	<i>82 - 127</i>	<i>49.61</i>	<i>1.28</i>	<i>20</i>

The following samples were analyzed in this batch: HS20071137-12

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071137

QC BATCH REPORT

Batch ID: R365865 (0) **Instrument:** VOA4 **Method:** LOW LEVEL VOLATILES BY SW8260C

MBLK		Sample ID: VBLKW-200729			Units: ug/L		Analysis Date: 29-Jul-2020 12:14			
Client ID:		Run ID: VOA4_365865			SeqNo: 5678796		PrepDate:		DF: 1	
Analyte	Result	MLQ	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Dichloroethane	U	1.0								
Benzene	U	1.0								
Chlorobenzene	U	1.0								
Ethylbenzene	U	1.0								
Methylene chloride	U	2.0								
Toluene	U	1.0								
Xylenes, Total	U	1.0								
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>49.25</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>98.5</i>	<i>70 - 123</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>48.83</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>97.7</i>	<i>82 - 115</i>				
<i>Surr: Dibromofluoromethane</i>	<i>48.28</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>96.6</i>	<i>73 - 126</i>				
<i>Surr: Toluene-d8</i>	<i>49.17</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>98.3</i>	<i>81 - 120</i>				

LCS		Sample ID: VLCSW-200729			Units: ug/L		Analysis Date: 29-Jul-2020 11:29			
Client ID:		Run ID: VOA4_365865			SeqNo: 5678795		PrepDate:		DF: 1	
Analyte	Result	MLQ	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Dichloroethane	19.43	1.0	20	0	97.1	70 - 124				
Benzene	20.86	1.0	20	0	104	74 - 120				
Chlorobenzene	21.13	1.0	20	0	106	76 - 113				
Ethylbenzene	22.43	1.0	20	0	112	77 - 117				
Methylene chloride	20.64	2.0	20	0	103	70 - 127				
Toluene	21	1.0	20	0	105	77 - 118				
Xylenes, Total	68.16	1.0	60	0	114	75 - 122				
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>47.07</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>94.1</i>	<i>70 - 130</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>49.76</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>99.5</i>	<i>82 - 115</i>				
<i>Surr: Dibromofluoromethane</i>	<i>48.18</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>96.4</i>	<i>73 - 126</i>				
<i>Surr: Toluene-d8</i>	<i>48.88</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>97.8</i>	<i>81 - 120</i>				

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071137

QC BATCH REPORT

Batch ID: R365865 (0) **Instrument:** VOA4 **Method:** LOW LEVEL VOLATILES BY SW8260C

MS		Sample ID: HS20071131-02MS		Units: ug/L		Analysis Date: 29-Jul-2020 15:29			
Client ID:		Run ID: VOA4_365865		SeqNo: 5678900		PrepDate:		DF: 500	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
1,2-Dichloroethane	8908	500	10000	0	89.1	70 - 127			
Benzene	9664	500	10000	0	96.6	70 - 127			
Chlorobenzene	9503	500	10000	0	95.0	70 - 114			
Ethylbenzene	10040	500	10000	0	100	70 - 124			
Methylene chloride	10930	1000	10000	0	109	70 - 128			
Toluene	9692	500	10000	0	96.9	70 - 123			
Xylenes, Total	30180	500	30000	0	101	70 - 130			
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>23770</i>	<i>500</i>	<i>25000</i>	<i>0</i>	<i>95.1</i>	<i>70 - 126</i>			
<i>Surr: 4-Bromofluorobenzene</i>	<i>24430</i>	<i>500</i>	<i>25000</i>	<i>0</i>	<i>97.7</i>	<i>81 - 113</i>			
<i>Surr: Dibromofluoromethane</i>	<i>24200</i>	<i>500</i>	<i>25000</i>	<i>0</i>	<i>96.8</i>	<i>77 - 123</i>			
<i>Surr: Toluene-d8</i>	<i>24540</i>	<i>500</i>	<i>25000</i>	<i>0</i>	<i>98.2</i>	<i>82 - 127</i>			

MSD		Sample ID: HS20071131-02MSD		Units: ug/L		Analysis Date: 29-Jul-2020 15:50			
Client ID:		Run ID: VOA4_365865		SeqNo: 5678901		PrepDate:		DF: 500	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
1,2-Dichloroethane	8970	500	10000	0	89.7	70 - 127	8908	0.684	20
Benzene	9424	500	10000	0	94.2	70 - 127	9664	2.52	20
Chlorobenzene	9405	500	10000	0	94.1	70 - 114	9503	1.03	20
Ethylbenzene	9662	500	10000	0	96.6	70 - 124	10040	3.85	20
Methylene chloride	10510	1000	10000	0	105	70 - 128	10930	3.95	20
Toluene	9519	500	10000	0	95.2	70 - 123	9692	1.81	20
Xylenes, Total	30090	500	30000	0	100	70 - 130	30180	0.312	20
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>23460</i>	<i>500</i>	<i>25000</i>	<i>0</i>	<i>93.8</i>	<i>70 - 126</i>	<i>23770</i>	<i>1.32</i>	<i>20</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>24930</i>	<i>500</i>	<i>25000</i>	<i>0</i>	<i>99.7</i>	<i>81 - 113</i>	<i>24430</i>	<i>2.04</i>	<i>20</i>
<i>Surr: Dibromofluoromethane</i>	<i>24010</i>	<i>500</i>	<i>25000</i>	<i>0</i>	<i>96.0</i>	<i>77 - 123</i>	<i>24200</i>	<i>0.817</i>	<i>20</i>
<i>Surr: Toluene-d8</i>	<i>24880</i>	<i>500</i>	<i>25000</i>	<i>0</i>	<i>99.5</i>	<i>82 - 127</i>	<i>24540</i>	<i>1.37</i>	<i>20</i>

The following samples were analyzed in this batch: HS20071137-14 HS20071137-15 HS20071137-16

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071137

QC BATCH REPORT

Batch ID: R366012 (0) **Instrument:** VOA2 **Method:** LOW LEVEL VOLATILES BY SW8260C

MBLK		Sample ID: VBLKW-200730			Units: ug/L		Analysis Date: 30-Jul-2020 11:26			
Client ID:		Run ID: VOA2_366012			SeqNo: 5681803		PrepDate:		DF: 1	
Analyte	Result	MLQ	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Dichloroethane	U	1.0								
Benzene	U	1.0								
Chlorobenzene	U	1.0								
Ethylbenzene	U	1.0								
Methylene chloride	U	2.0								
Toluene	U	1.0								
Xylenes, Total	U	1.0								
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>47.6</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>95.2</i>	<i>70 - 123</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>49.61</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>99.2</i>	<i>82 - 115</i>				
<i>Surr: Dibromofluoromethane</i>	<i>49.05</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>98.1</i>	<i>73 - 126</i>				
<i>Surr: Toluene-d8</i>	<i>50.69</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>101</i>	<i>81 - 120</i>				

LCS		Sample ID: VLCSW-200730			Units: ug/L		Analysis Date: 30-Jul-2020 10:37			
Client ID:		Run ID: VOA2_366012			SeqNo: 5681802		PrepDate:		DF: 1	
Analyte	Result	MLQ	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Dichloroethane	19.09	1.0	20	0	95.5	70 - 124				
Benzene	20.16	1.0	20	0	101	74 - 120				
Chlorobenzene	19.63	1.0	20	0	98.1	76 - 113				
Ethylbenzene	19.51	1.0	20	0	97.5	77 - 117				
Methylene chloride	22.75	2.0	20	0	114	70 - 127				
Toluene	20.28	1.0	20	0	101	77 - 118				
Xylenes, Total	60.38	1.0	60	0	101	75 - 122				
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>49.5</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>99.0</i>	<i>70 - 130</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>48.52</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>97.0</i>	<i>82 - 115</i>				
<i>Surr: Dibromofluoromethane</i>	<i>49</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>98.0</i>	<i>73 - 126</i>				
<i>Surr: Toluene-d8</i>	<i>50.1</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>100</i>	<i>81 - 120</i>				

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071137

QC BATCH REPORT

Batch ID: R366012 (0) **Instrument:** VOA2 **Method:** LOW LEVEL VOLATILES BY SW8260C

MS		Sample ID: HS20071344-05MS			Units: ug/L		Analysis Date: 30-Jul-2020 14:16			
Client ID:		Run ID: VOA2_366012			SeqNo: 5681810		PrepDate:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Dichloroethane	18.31	1.0	20	0	91.6	70 - 127				
Benzene	20.6	1.0	20	0	103	70 - 127				
Chlorobenzene	19.92	1.0	20	0	99.6	70 - 114				
Ethylbenzene	20.5	1.0	20	0	103	70 - 124				
Methylene chloride	21.8	2.0	20	0	109	70 - 128				
Toluene	20.99	1.0	20	0	105	70 - 123				
Xylenes, Total	62.17	1.0	60	0	104	70 - 130				
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>48.96</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>97.9</i>	<i>70 - 126</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>48.86</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>97.7</i>	<i>81 - 113</i>				
<i>Surr: Dibromofluoromethane</i>	<i>48.93</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>97.9</i>	<i>77 - 123</i>				
<i>Surr: Toluene-d8</i>	<i>50.68</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>101</i>	<i>82 - 127</i>				

MSD		Sample ID: HS20071344-05MSD			Units: ug/L		Analysis Date: 30-Jul-2020 14:40			
Client ID:		Run ID: VOA2_366012			SeqNo: 5681811		PrepDate:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Dichloroethane	17.91	1.0	20	0	89.5	70 - 127	18.31	2.24	20	
Benzene	19.94	1.0	20	0	99.7	70 - 127	20.6	3.24	20	
Chlorobenzene	19.34	1.0	20	0	96.7	70 - 114	19.92	2.95	20	
Ethylbenzene	20.11	1.0	20	0	101	70 - 124	20.5	1.95	20	
Methylene chloride	22.96	2.0	20	0	115	70 - 128	21.8	5.17	20	
Toluene	20.66	1.0	20	0	103	70 - 123	20.99	1.59	20	
Xylenes, Total	61.18	1.0	60	0	102	70 - 130	62.17	1.61	20	
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>48.88</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>97.8</i>	<i>70 - 126</i>	<i>48.96</i>	<i>0.168</i>	<i>20</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>49.06</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>98.1</i>	<i>81 - 113</i>	<i>48.86</i>	<i>0.427</i>	<i>20</i>	
<i>Surr: Dibromofluoromethane</i>	<i>48.8</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>97.6</i>	<i>77 - 123</i>	<i>48.93</i>	<i>0.264</i>	<i>20</i>	
<i>Surr: Toluene-d8</i>	<i>50.04</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>100</i>	<i>82 - 127</i>	<i>50.68</i>	<i>1.27</i>	<i>20</i>	

The following samples were analyzed in this batch: HS20071137-13

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071137

**QUALIFIERS,
ACRONYMS, UNITS**

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
mg/L	Milligrams per Liter

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	20-030-0	26-Mar-2021
California	2919, 2020-2021	30-Apr-2021
Dept of Defense	ANAB L2231 V009	22-Dec-2021
Florida	E87611-30-07/01/2020	30-Jun-2021
Illinois	2000322020-4	09-May-2021
Kentucky	123043, 2020-2021	30-Apr-2021
Louisiana	03087, 2020-2021	30-Jun-2021
Maryland	343, 2019-2020	30-Sep-2020
North Carolina	624-2020	31-Dec-2020
North Dakota	R-193 2020-2021	30-Apr-2021
Oklahoma	2019-141	31-Aug-2020
Texas	T104704231-20-26	30-Apr-2021

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
Work Order: HS20071137

SAMPLE TRACKING

Lab Samp ID	Client Sample ID	Action	Date	Person	New Location
HS20071137-01	WQ-1620-TB05-20200723	Login	7/24/2020 12:55:22 PM	JRM	VOA008
HS20071137-02	WG-1620-MW44A-20200722	Login	7/24/2020 12:55:22 PM	JRM	EXT114
HS20071137-02	WG-1620-MW44A-20200722	Login	7/24/2020 12:55:22 PM	JRM	MET045
HS20071137-02	WG-1620-MW44A-20200722	Login	7/24/2020 12:55:22 PM	JRM	VOA008
HS20071137-03	WG-1620-MW45C-20200722	Login	7/24/2020 12:55:22 PM	JRM	EXT114
HS20071137-03	WG-1620-MW45C-20200722	Login	7/24/2020 12:55:22 PM	JRM	MET045
HS20071137-03	WG-1620-MW45C-20200722	Login	7/24/2020 12:55:22 PM	JRM	VOA008
HS20071137-04	WG-1620-MW46C-20200722	Login	7/24/2020 12:55:22 PM	JRM	EXT114
HS20071137-04	WG-1620-MW46C-20200722	Login	7/24/2020 12:55:22 PM	JRM	MET045
HS20071137-04	WG-1620-MW46C-20200722	Login	7/24/2020 12:55:22 PM	JRM	VOA008
HS20071137-05	WG-1620-MW54C-20200722	Login	7/24/2020 12:55:22 PM	JRM	EXT114
HS20071137-05	WG-1620-MW54C-20200722	Login	7/24/2020 12:55:22 PM	JRM	MET045
HS20071137-05	WG-1620-MW54C-20200722	Login	7/24/2020 12:55:22 PM	JRM	VOA008
HS20071137-06	WG-1620-DUP03-20200722	Login	7/24/2020 12:55:22 PM	JRM	EXT114
HS20071137-06	WG-1620-DUP03-20200722	Login	7/24/2020 12:55:22 PM	JRM	MET045
HS20071137-06	WG-1620-DUP03-20200722	Login	7/24/2020 12:55:22 PM	JRM	VOA008
HS20071137-07	WG-1620-MW54B-20200722	Login	7/24/2020 12:55:22 PM	JRM	EXT114
HS20071137-07	WG-1620-MW54B-20200722	Login	7/24/2020 12:55:22 PM	JRM	MET045
HS20071137-07	WG-1620-MW54B-20200722	Login	7/24/2020 12:55:22 PM	JRM	VOA008
HS20071137-08	WG-1620-MW99C-20200722	Login	7/24/2020 12:55:22 PM	JRM	EXT114
HS20071137-08	WG-1620-MW99C-20200722	Login	7/24/2020 12:55:22 PM	JRM	MET045
HS20071137-08	WG-1620-MW99C-20200722	Login	7/24/2020 12:55:22 PM	JRM	VOA008
HS20071137-09	WG-1620-MW53C-20200723	Login	7/24/2020 12:55:22 PM	JRM	EXT114
HS20071137-09	WG-1620-MW53C-20200723	Login	7/24/2020 12:55:22 PM	JRM	MET045
HS20071137-09	WG-1620-MW53C-20200723	Login	7/24/2020 12:55:22 PM	JRM	VOA008
HS20071137-10	WG-1620-MW87C-20200723	Login	7/24/2020 12:55:22 PM	JRM	EXT115
HS20071137-10	WG-1620-MW87C-20200723	Login	7/24/2020 12:55:22 PM	JRM	MET045
HS20071137-10	WG-1620-MW87C-20200723	Login	7/24/2020 12:55:22 PM	JRM	VOA008
HS20071137-11	WG-1620-MW71B-20200723	Login	7/24/2020 12:55:22 PM	JRM	EXT115
HS20071137-11	WG-1620-MW71B-20200723	Login	7/24/2020 12:55:22 PM	JRM	MET045
HS20071137-11	WG-1620-MW71B-20200723	Login	7/24/2020 12:55:22 PM	JRM	VOA008
HS20071137-12	WG-1620-MW63B-20200723	Login	7/24/2020 12:55:22 PM	JRM	EXT115
HS20071137-12	WG-1620-MW63B-20200723	Login	7/24/2020 12:55:22 PM	JRM	MET045
HS20071137-12	WG-1620-MW63B-20200723	Login	7/24/2020 12:55:22 PM	JRM	VOA008
HS20071137-13	WG-1620-MW32AR-20200723	Login	7/24/2020 12:55:22 PM	JRM	EXT115
HS20071137-13	WG-1620-MW32AR-20200723	Login	7/24/2020 12:55:22 PM	JRM	MET045
HS20071137-13	WG-1620-MW32AR-20200723	Login	7/24/2020 12:55:22 PM	JRM	VOA008
HS20071137-14	WG-1620-MW91A-20200723	Login	7/24/2020 12:55:22 PM	JRM	EXT115
HS20071137-14	WG-1620-MW91A-20200723	Login	7/24/2020 12:55:22 PM	JRM	MET045

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
Work Order: HS20071137

SAMPLE TRACKING

HS20071137-14	WG-1620-MW91A-20200723	Login	7/24/2020 12:55:22 PM	JRM	VOA008
HS20071137-15	WG-1620-MW28A-20200723	Login	7/24/2020 12:55:22 PM	JRM	EXT115
HS20071137-15	WG-1620-MW28A-20200723	Login	7/24/2020 12:55:22 PM	JRM	MET045
HS20071137-15	WG-1620-MW28A-20200723	Login	7/24/2020 12:55:22 PM	JRM	VOA008
HS20071137-16	WG-1620-MW70B-20200723	Login	7/24/2020 12:55:22 PM	JRM	EXT115
HS20071137-16	WG-1620-MW70B-20200723	Login	7/24/2020 12:55:22 PM	JRM	MET045
HS20071137-16	WG-1620-MW70B-20200723	Login	7/24/2020 12:55:22 PM	JRM	VOA008

Sample Receipt Checklist

Work Order ID: HS20071137

Date/Time Received: **24-Jul-2020 10:25**

Client Name: PBW

Received by: **Paresh M. Giga**

Completed By: <u>/S/ Jared R. Makan</u>	24-Jul-2020 14:25	Reviewed by: <u>/S/ Dane J. Wacasey</u>	29-Jul-2020 19:45
eSignature	Date/Time	eSignature	Date/Time

Matrices: **Water**

Carrier name: **Client**

- | | | | |
|---|---|-----------------------------|---|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| VOA/TX1005/TX1006 Solids in hermetically sealed vials? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | 2 Page(s) |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | COC IDs:227023, 227021 |
| Samplers name present on COC? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Container/Temp Blank temperature in compliance? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |

Temperature(s)/Thermometer(s):	2.0°C, 1.1°C, 1.4°C, 3.0°C Corrected temp	IR31
Cooler(s)/Kit(s):	5765, 45663, 45619, 45540	
Date/Time sample(s) sent to storage:	07/24/2020 14:25	

- | | | | |
|--|---|--|---|
| Water - VOA vials have zero headspace? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | No VOA vials submitted <input type="checkbox"/> |
| Water - pH acceptable upon receipt? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> |
| pH adjusted? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | N/A <input type="checkbox"/> |

pH adjusted by:

Login Notes:

Client Contacted: _____ Date Contacted: _____ Person Contacted: _____

Contacted By: _____ Regarding: _____

Comments:

Corrective Action:



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Chain of Custody Form

Page 1 of 2

COC ID: 227023

HS20071137

Golder Associates Inc.
Houston TX-Wood Preserving Works



ALS Project Manager:

Customer Information		Project Information		
Purchase Order	UPRR/Kevin Peterburs	Project Name	Houston TX-Wood Preserving Works	A 8260_LL_W (5632528 Volatile Organics Site Specific)
Work Order		Project Number	1620-07-Rev0 SR 92683	B 8260_LL_W (5632528 VOC Site Specific + V.C.)
Company Name	Golder Associates	Bill To Company	Union Pacific Railroad- A/P	C 8270_LOW_W (5632532 SemiVolatiles Site specific)
Send Report To	Eric Matzner	Invoice Attn	Accounts Payable	D ICP_TW (5636002 5652646 Metals - As)
Address	2201 Double Creek Drive	Address	1400 Douglas Street	E
	Suite 4004		Stop 0750	F
City/State/Zip	Round Rock, TX 78664	City/State/Zip	Omaha NE 681790750	G
Phone	(512) 671-3434	Phone		H
Fax	(512) 671-3446	Fax		I
e-Mail Address	eric.matzner@pbwllc.com	e-Mail Address		J

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold	
1	WQ-1620-TB05-20200723			Water	1	2		X										
2	WG-1620-MW44A-20200722	7-22-20	1105	Groundwa	1,2,8	6		X	X	X								
3	WG-1620-MW45C-20200722	↓	1250	GW		6	X		X	X								
4	WG-1620-MW46C-20200722		1350	GW		6	X		X	X								
5	WG-1620-MW54C-20200722		1450	GW		6	X		X	X								
6	WG-1620-DUP03-20200722		1450	GW		6	X		X	X								
7	WG-1620-MW54B-20200722		1545	GW		6	X		X	X								
8	WG-1620-MW99C-20200722		↓	1635	GW		6	X		X	X							
9	WG-1620-MW53C-20200723		7-23-20	0745	GW		6	X		X	X							
10	WG-1620-MW87C-20200723	↓	0840	GW		6	X		X	X								

Sampler(s) Please Print & Sign: John Beaton John BM

Relinquished by: John Beaton Date: 7-24-20 Time: 10:25

Relinquished by: [Signature] Date: _____ Time: _____

Logged by (Laboratory): _____ Date: _____ Time: _____

Shipment Method: HAND DELIVERED STYD 10 Wk Days 5 Wk Days 2 Wk Days 24 Hour

Required Turnaround Time: (Check Box) STYD 10 Wk Days 5 Wk Days 2 Wk Days 24 Hour

Results Due Date: _____

Notes: UPRR Houston MWPW

Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)
<u>5765</u>	<u>2.00</u>	<input type="checkbox"/> Level II Std QC <input checked="" type="checkbox"/> TRRP Checklist
<u>45663</u>	<u>1.10</u>	<input type="checkbox"/> Level III Std QC/Raw Date <input type="checkbox"/> TRRP Level IV
<u>45619</u>	<u>1.40</u>	<input type="checkbox"/> Level IV SWB&CLP
<u>45540</u>	<u>3.00</u>	<input type="checkbox"/> Other

Preservative Key: 1-HCl 2-HNO₃ 3-H₂SO₄ 4-NaOH 5-Na₂S₂O₃ 6-NaHSO₄ 7-Other 8-4°C 9-5036

note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
 2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
 3. The Chain of Custody is a legal document. All information must be completed accurately.



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Chain of Custody Form

HS20071137

WV

Golder Associates Inc.
Houston TX-Wood Preserving Works

Page 2 of 2

COC ID: 227021



ALS Project Manager:

Customer Information		Project Information		ALS Project Manager:	
Purchase Order	UPRR/Kevin Peterburs	Project Name	Houston TX-Wood Preserving Works	A	8260_LL_W (5632528 Volatile Organics Site Specific)
Work Order		Project Number	1620-07-Rev0 SR 92688	B	8260_LL_W (5632528 VOC Site Specific + V.C.)
Company Name	Golder Associates	Bill To Company	Union Pacific Railroad- A/P	C	8270_LOW_W (5632532 SemiVolatiles Site specific)
Send Report To	Eric Matzner	Invoice Attn	Accounts Payable	D	ICP_TW (5636002 5652646 Metals - As)
Address	2201 Double Creek Drive Suite 4004	Address	1400 Douglas Street Stop 0750	E	
				F	
City/State/Zip	Round Rock, TX 78664	City/State/Zip	Omaha NE 681790750	G	
Phone	(512) 671-3434	Phone		H	
Fax	(512) 671-3446	Fax		I	
e-Mail Address	eric.matzner@pbwllc.com	e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold	
1	WG-1620-T50-202007			Water	1	2		X										
2	WG-1620-MW71B-20200723	7-23-20	0930	Groundwa	1,2,8	6	X		X	X								
3	WG-1620-MW63B-20200723	↓	1015	GW		6	X		X	X								
4	WG-1620-MW32AR-20200723		1250	GW		6	X		X	X								
5	WG-1620-MW91A-20200723		1345	GW		6	X		X	X								
6	WG-1620-MW28A-20200723		1440	GW		6	X		X	X								
7	WG-1620-MW70B-20200723		1525	GW		6	X		X	X								
8																		
9																		
10																		

Sampler(s) Please Print & Sign JOHN BRAYTON		Shipment Method HAND DELIVERED		Required Turnaround Time: (Check Box) <input checked="" type="checkbox"/> STD 10 Wk Days <input type="checkbox"/> 5 Wk Days <input type="checkbox"/> 2 Wk Days <input type="checkbox"/> 24 Hour				Results Due Date:		
Relinquished by: [Signature]		Date: 7/24/20	Time: 10:25	Received by: [Signature]		Notes: UPRR Houston MWPW				
Relinquished by: [Signature]		Date:	Time:	Received by (Laboratory): [Signature]		Cooler ID:	Cooler Temp.:	QC Package: (Check One Box Below)		
Logged by (Laboratory):		Date:	Time:	Checked by (Laboratory):		<input type="checkbox"/> Level II Std QC	<input checked="" type="checkbox"/> TRRP Checklist			
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₃ 7-Other 8-4°C 9-5035						<input type="checkbox"/> Level III Std GC/Raw Data	<input type="checkbox"/> TRRP Level IV			
						<input type="checkbox"/> Level IV SWB46/CLP				
						<input type="checkbox"/> Other				

ote: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
 2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
 3. The Chain of Custody is a legal document. All information must be completed accurately.



10450 Stancliff Rd. Suite 210
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T: +1 281 530 5656
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August 11, 2020

Eric Matzner
Golder Associates Inc.
2201 Double Creek Drive
Suite 4004
Round Rock, TX 78664

Work Order: **HS20071329**

Laboratory Results for: **Houston TX-Wood Preserving Works**

Dear Eric Matzner,

ALS Environmental received 20 sample(s) on Jul 28, 2020 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: JUMOKE.LAWAL
Dane J. Wacasey

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071329

**TRRP Laboratory Data
Package Cover Page**

This data package consists of all or some of the following as applicable:

This signature page, the laboratory review checklist, and the following reportable data:

- R1 Field chain-of-custody documentation;
- R2 Sample identification cross-reference;
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
 - a) Items consistent with NELAC Chapter 5,
 - b) dilution factors,
 - c) preparation methods,
 - d) cleanup methods, and
 - e) if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate recovery data including:
 - a) Calculated recovery (%R), and
 - b) The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
 - a) LCS spiking amounts,
 - b) Calculated %R for each analyte, and
 - c) The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a) Samples associated with the MS/MSD clearly identified,
 - b) MS/MSD spiking amounts,
 - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d) Calculated %Rs and relative percent differences (RPDs), and
 - e) The laboratory's MS/MSD QC limits.
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
 - a) the amount of analyte measured in the duplicate,
 - b) the calculated RPD, and
 - c) the laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.
- R10 Other problems or anomalies.
The Exception Report for each "No" or "Not Reviewed (NR)" item in Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071329

**TRRP Laboratory Data
Package Cover Page**

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory have been identified by the laboratory in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Check, if applicable: [NA] This laboratory meets an exception under 30 TAC §25.6 and was last inspected by TCEQ or _____ on (enter date of last inspection). Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.



Dane J. Wacasey

Laboratory Review Checklist: Reportable Data

Laboratory Name: ALS Laboratory Group			LRC Date: 08/11/2020				
Project Name: Houston TX-Wood Preserving Works			Laboratory Job Number: HS20071329				
Reviewer Name: Corey Grandits			Prep Batch Number: 155905,155909,R365977,R366009,R366044,R366116				
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
R1	OI	Chain-of-custody (C-O-C)					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?	X				
R2	OI	Sample and quality control (QC) identification					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	Test reports					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?			X		
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW-846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	Surrogate recovery data					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?		X			1
R5	OI	Test reports/summary forms for blank samples					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	Laboratory control samples (LCS):					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?		X			2
		Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			3
		Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	Analytical duplicate data					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	OI	Method quantitation limits (MQLs):					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	Other problems/anomalies					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				4
		Were all necessary corrective actions performed for the reported data?	X				
		Was applicable and available technology used to lower the SDL and minimize the matrix interference affects on the sample results?	X				5
		Is the laboratory NELAC-accredited under the Texas Laboratory Program for the analytes, matrices and methods associated with this laboratory data package?	X				

Laboratory Review Checklist: Supporting Data

Laboratory Name: ALS Laboratory Group		LRC Date: 08/11/2020					
Project Name: Houston TX-Wood Preserving Works		Laboratory Job Number: HS20071329					
Reviewer Name: Corey Grandits		Prep Batch Number: 155905,155909,R365977,R366009,R366044,R366116					
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S1	OI	Initial calibration (ICAL)					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB)					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?		X			6
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	Mass spectral tuning:					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	Internal standards (IS):					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	Raw data (NELAC section 1 appendix A glossary, and section 5.12 or ISO/IEC 17025 section					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	Dual column confirmation					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	Tentatively identified compounds (TICs):					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	Interference Check Sample (ICS) results:					
		Were percent recoveries within method QC limits?	X				
S9	I	Serial dilutions, post digestion spikes, and method of standard additions					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	X				
S10	OI	Method detection limit (MDL) studies					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	Proficiency test reports:					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards documentation					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/analyte identification procedures					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of analyst competency (DOC)					
		Was DOC conducted consistent with NELAC Chapter 5C or ISO/IEC 4?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/validation documentation for methods (NELAC Chap 5 or ISO/IEC 17025 Section 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory standard operating procedures (SOPs):					
		Are laboratory SOPs current and on file for each method performed?	X				

Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

O = Organic Analyses; I = Inorganic Analyses (and general chemistry, when applicable);

NA = Not Applicable;

NR = Not Reviewed;

R# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Exception Reports

Laboratory Name: ALS Laboratory Group	LRC Date: 08/11/2020
Project Name: Houston TX-Wood Preserving Works	Laboratory Job Number: HS20071329
Reviewer Name: Corey Grandits	Prep Batch Number: 155905,155909,R365977,R366009,R366044,R366116

ER# ⁵	Description
1	Semivolatile Organics Method SW8270, samples WG-1620-MW68B-20200727, WG-1620-MW32B-20200727, WG-1620-MW33BR-20200727, WG-1620-DUP05-20200727; surrogate recoveries could not be determined due to dilution below the calibration range.
2	Batch R365977, Volatile Organics Method SW8260, LCS recovery was above the control limits for Methylene chloride. The associated sample results are non-detect for Methylene chloride. Batch R366044, Volatile Organics Method SW8260, LCS recovery was above the control limits for Methylene chloride. The associated sample results are non-detect for Methylene chloride.
3	Batch R365977, Volatile Organics Method SW8260, sample HS20071359-01, MS and MSD were performed on unrelated sample.
4	Samples HS20071329-14 through HS20071329-20 were originally extracted for SVOCs however the extraction technician inadvertently spiked the samples with the LCS spike instead of surrogates. The re-extraction of these samples would have been reported outside the 7 day hold time. At the request of the client SVOCs were not reported for these samples.
5	Batch 155909, Semivolatile Organics Method SW8270, samples WG-1620-MW68B-20200727, WG-1620-MW32B-20200727 and WG-1620-DUP05-20200727; the GCMS semi-volatile extract of the samples were run at a dilution due to a high level of matrix interference. Batch R366044, Volatile Organics Method SW8260, samples WG-1620-MW68B-20200727, WG-1620-MW32B-20200727 and WG-1620-DUP05-20200727: Lowest practical dilution due to high concentration of non-target analytes.
6	Batch R366044, Volatile Organics Method SW8260, Methylene chloride is exceeded %D limits on CCV; associated samples in the batch are non-detect for this analyte. Batch R365977, Volatile Organics Method SW8260, Methylene chloride is exceeded %D limits on CCV; associated samples in the batch are non-detect for this analyte.

Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
O = Organic Analyses; I = Inorganic Analyses (and general chemistry, when applicable);
NA = Not Applicable;
NR = Not Reviewed;
R# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
Work Order: HS20071329

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS20071329-01	WQ-1620-TB06-20200728	Water	CG 070820 -23	28-Jul-2020 07:15	28-Jul-2020 15:45	<input type="checkbox"/>
HS20071329-02	WG-1620-MW84A-20200727	Groundwater		27-Jul-2020 08:55	28-Jul-2020 15:45	<input type="checkbox"/>
HS20071329-03	WG-1620-MW84B-20200727	Groundwater		27-Jul-2020 09:50	28-Jul-2020 15:45	<input type="checkbox"/>
HS20071329-04	WG-1620-MW26A-20200727	Groundwater		27-Jul-2020 10:55	28-Jul-2020 15:45	<input type="checkbox"/>
HS20071329-05	WG-1620-MW68A-20200727	Groundwater		27-Jul-2020 11:50	28-Jul-2020 15:45	<input type="checkbox"/>
HS20071329-06	WG-1620-MW68B-20200727	Groundwater		27-Jul-2020 12:45	28-Jul-2020 15:45	<input type="checkbox"/>
HS20071329-07	WG-1620-MW68C-20200727	Groundwater		27-Jul-2020 13:50	28-Jul-2020 15:45	<input type="checkbox"/>
HS20071329-08	WG-1620-MW32B-20200727	Groundwater		27-Jul-2020 14:50	28-Jul-2020 15:45	<input type="checkbox"/>
HS20071329-09	WG-1620-MW33BR-20200727	Groundwater		27-Jul-2020 15:55	28-Jul-2020 15:45	<input type="checkbox"/>
HS20071329-10	WG-1620-FB09-20200727	Groundwater		27-Jul-2020 16:30	28-Jul-2020 15:45	<input type="checkbox"/>
HS20071329-11	WG-1620-DUP05-20200727	Groundwater		27-Jul-2020 00:00	28-Jul-2020 15:45	<input type="checkbox"/>
HS20071329-12	WG-1620-MW28C-20200728	Groundwater		28-Jul-2020 08:15	28-Jul-2020 15:45	<input type="checkbox"/>
HS20071329-13	WG-1620-MW36B-20200728	Groundwater		28-Jul-2020 10:00	28-Jul-2020 15:45	<input type="checkbox"/>
HS20071329-14	WG-1620-MW36A-20200728	Groundwater		28-Jul-2020 11:10	28-Jul-2020 15:45	<input type="checkbox"/>
HS20071329-15	WG-1620-MW44C-20200728	Groundwater		28-Jul-2020 12:05	28-Jul-2020 15:45	<input type="checkbox"/>
HS20071329-16	WG-1620-MW34CR-20200728	Groundwater		28-Jul-2020 13:05	28-Jul-2020 15:45	<input type="checkbox"/>
HS20071329-17	WG-1620-MW33A-20200728	Groundwater		28-Jul-2020 14:10	28-Jul-2020 15:45	<input type="checkbox"/>
HS20071329-18	WG-1620-MW70C-20200728	Groundwater		28-Jul-2020 15:05	28-Jul-2020 15:45	<input type="checkbox"/>
HS20071329-19	WG-1620-DUP06-20200728	Groundwater		28-Jul-2020 00:00	28-Jul-2020 15:45	<input type="checkbox"/>
HS20071329-20	WG-1620-FB10-20200728	Water		28-Jul-2020 15:30	28-Jul-2020 15:45	<input type="checkbox"/>

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WQ-1620-TB06-20200728
 Collection Date: 28-Jul-2020 07:15

ANALYTICAL REPORT
 WorkOrder:HS20071329
 Lab ID:HS20071329-01
 Matrix:Water

ANALYSES	RESULT	QUAL	SDL	SQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	04-Aug-2020 02:11
Benzene	U		0.00020	0.0010	mg/L	1	04-Aug-2020 02:11
Chlorobenzene	U		0.00030	0.0010	mg/L	1	04-Aug-2020 02:11
Ethylbenzene	U		0.00030	0.0010	mg/L	1	04-Aug-2020 02:11
Methylene chloride	U		0.0010	0.0020	mg/L	1	04-Aug-2020 02:11
Toluene	U		0.00020	0.0010	mg/L	1	04-Aug-2020 02:11
Vinyl chloride	U		0.00020	0.0010	mg/L	1	04-Aug-2020 02:11
Xylenes, Total	U		0.00030	0.0010	mg/L	1	04-Aug-2020 02:11
<i>Surr: 1,2-Dichloroethane-d4</i>		93.9		70-126	%REC	1	04-Aug-2020 02:11
<i>Surr: 4-Bromofluorobenzene</i>		98.1		81-113	%REC	1	04-Aug-2020 02:11
<i>Surr: Dibromofluoromethane</i>		100		77-123	%REC	1	04-Aug-2020 02:11
<i>Surr: Toluene-d8</i>		102		82-127	%REC	1	04-Aug-2020 02:11

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW84A-20200727
 Collection Date: 27-Jul-2020 08:55

ANALYTICAL REPORT
 WorkOrder:HS20071329
 Lab ID:HS20071329-02
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	30-Jul-2020 14:28
Benzene	U		0.00020	0.0010	mg/L	1	30-Jul-2020 14:28
Chlorobenzene	U		0.00030	0.0010	mg/L	1	30-Jul-2020 14:28
Ethylbenzene	U		0.00030	0.0010	mg/L	1	30-Jul-2020 14:28
Methylene chloride	U		0.0010	0.0020	mg/L	1	30-Jul-2020 14:28
Toluene	U		0.00020	0.0010	mg/L	1	30-Jul-2020 14:28
Xylenes, Total	U		0.00030	0.0010	mg/L	1	30-Jul-2020 14:28
<i>Surr: 1,2-Dichloroethane-d4</i>		<i>103</i>		<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>30-Jul-2020 14:28</i>
<i>Surr: 4-Bromofluorobenzene</i>		<i>99.9</i>		<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>30-Jul-2020 14:28</i>
<i>Surr: Dibromofluoromethane</i>		<i>101</i>		<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>30-Jul-2020 14:28</i>
<i>Surr: Toluene-d8</i>		<i>98.6</i>		<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>30-Jul-2020 14:28</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW84A-20200727
 Collection Date: 27-Jul-2020 08:55

ANALYTICAL REPORT
 WorkOrder:HS20071329
 Lab ID:HS20071329-02
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 30-Jul-2020		Analyst: ACN	
1,2-Diphenylhydrazine	U		0.000021	0.00020	mg/L	1	07-Aug-2020 18:02
2,4-Dimethylphenol	U		0.000040	0.00020	mg/L	1	07-Aug-2020 18:02
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	07-Aug-2020 18:02
2,6-Dinitrotoluene	U		0.000042	0.00020	mg/L	1	07-Aug-2020 18:02
2-Chloronaphthalene	U		0.000021	0.00020	mg/L	1	07-Aug-2020 18:02
2-Methylnaphthalene	U		0.000019	0.00010	mg/L	1	07-Aug-2020 18:02
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	07-Aug-2020 18:02
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	07-Aug-2020 18:02
Acenaphthene	U		0.000027	0.00010	mg/L	1	07-Aug-2020 18:02
Acenaphthylene	U		0.000015	0.00010	mg/L	1	07-Aug-2020 18:02
Anthracene	U		0.000014	0.00010	mg/L	1	07-Aug-2020 18:02
Benz(a)anthracene	0.000052	J	0.000050	0.00010	mg/L	1	07-Aug-2020 18:02
Benzo(a)pyrene	0.000042	J	0.000020	0.00010	mg/L	1	07-Aug-2020 18:02
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	07-Aug-2020 18:02
Bis(2-ethylhexyl)phthalate	0.00024		0.000037	0.00020	mg/L	1	07-Aug-2020 18:02
Chrysene	0.000045	J	0.000021	0.00010	mg/L	1	07-Aug-2020 18:02
Dibenzofuran	U		0.000020	0.00010	mg/L	1	07-Aug-2020 18:02
Di-n-butyl phthalate	0.000047	J	0.000020	0.00020	mg/L	1	07-Aug-2020 18:02
Fluoranthene	0.000038	J	0.000010	0.00010	mg/L	1	07-Aug-2020 18:02
Fluorene	U		0.000030	0.00010	mg/L	1	07-Aug-2020 18:02
Naphthalene	0.00013		0.000020	0.00010	mg/L	1	07-Aug-2020 18:02
Nitrobenzene	U		0.000024	0.00020	mg/L	1	07-Aug-2020 18:02
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	07-Aug-2020 18:02
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	07-Aug-2020 18:02
Phenanthrene	0.000024	J	0.000021	0.00010	mg/L	1	07-Aug-2020 18:02
Phenol	U		0.000035	0.00020	mg/L	1	07-Aug-2020 18:02
Pyrene	0.000038	J	0.000019	0.00010	mg/L	1	07-Aug-2020 18:02
<i>Surr: 2,4,6-Tribromophenol</i>	<i>77.0</i>			<i>34-129</i>	<i>%REC</i>	<i>1</i>	<i>07-Aug-2020 18:02</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>64.3</i>			<i>40-125</i>	<i>%REC</i>	<i>1</i>	<i>07-Aug-2020 18:02</i>
<i>Surr: 2-Fluorophenol</i>	<i>51.8</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>07-Aug-2020 18:02</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>100</i>			<i>40-135</i>	<i>%REC</i>	<i>1</i>	<i>07-Aug-2020 18:02</i>
<i>Surr: Nitrobenzene-d5</i>	<i>97.5</i>			<i>41-120</i>	<i>%REC</i>	<i>1</i>	<i>07-Aug-2020 18:02</i>
<i>Surr: Phenol-d6</i>	<i>62.3</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>07-Aug-2020 18:02</i>
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 30-Jul-2020		Analyst: JC	
Arsenic	0.0143		0.000400	0.00200	mg/L	1	31-Jul-2020 13:34

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW84B-20200727
 Collection Date: 27-Jul-2020 09:50

ANALYTICAL REPORT
 WorkOrder:HS20071329
 Lab ID:HS20071329-03
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane		U	0.00020	0.0010	mg/L	1	30-Jul-2020 14:50
Benzene	0.0022		0.00020	0.0010	mg/L	1	30-Jul-2020 14:50
Chlorobenzene		U	0.00030	0.0010	mg/L	1	30-Jul-2020 14:50
Ethylbenzene	0.0037		0.00030	0.0010	mg/L	1	30-Jul-2020 14:50
Methylene chloride		U	0.0010	0.0020	mg/L	1	30-Jul-2020 14:50
Toluene	0.00075	J	0.00020	0.0010	mg/L	1	30-Jul-2020 14:50
Xylenes, Total	0.0019		0.00030	0.0010	mg/L	1	30-Jul-2020 14:50
<i>Surr: 1,2-Dichloroethane-d4</i>	99.9			70-126	%REC	1	30-Jul-2020 14:50
<i>Surr: 4-Bromofluorobenzene</i>	98.5			81-113	%REC	1	30-Jul-2020 14:50
<i>Surr: Dibromofluoromethane</i>	98.3			77-123	%REC	1	30-Jul-2020 14:50
<i>Surr: Toluene-d8</i>	99.2			82-127	%REC	1	30-Jul-2020 14:50

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW84B-20200727
 Collection Date: 27-Jul-2020 09:50

ANALYTICAL REPORT
 WorkOrder:HS20071329
 Lab ID:HS20071329-03
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 30-Jul-2020		Analyst: ACN	
1,2-Diphenylhydrazine	U		0.000021	0.00020	mg/L	1	07-Aug-2020 18:21
2,4-Dimethylphenol	U		0.000040	0.00020	mg/L	1	07-Aug-2020 18:21
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	07-Aug-2020 18:21
2,6-Dinitrotoluene	U		0.000042	0.00020	mg/L	1	07-Aug-2020 18:21
2-Chloronaphthalene	U		0.000021	0.00020	mg/L	1	07-Aug-2020 18:21
2-Methylnaphthalene	0.00040		0.000019	0.00010	mg/L	1	07-Aug-2020 18:21
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	07-Aug-2020 18:21
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	07-Aug-2020 18:21
Acenaphthene	0.0030		0.000027	0.00010	mg/L	1	07-Aug-2020 18:21
Acenaphthylene	0.000053	J	0.000015	0.00010	mg/L	1	07-Aug-2020 18:21
Anthracene	0.00019		0.000014	0.00010	mg/L	1	07-Aug-2020 18:21
Benz(a)anthracene	U		0.000050	0.00010	mg/L	1	07-Aug-2020 18:21
Benzo(a)pyrene	U		0.000020	0.00010	mg/L	1	07-Aug-2020 18:21
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	07-Aug-2020 18:21
Bis(2-ethylhexyl)phthalate	0.000074	J	0.000037	0.00020	mg/L	1	07-Aug-2020 18:21
Chrysene	0.000025	J	0.000021	0.00010	mg/L	1	07-Aug-2020 18:21
Dibenzofuran	0.0023		0.000020	0.00010	mg/L	1	07-Aug-2020 18:21
Di-n-butyl phthalate	0.000023	J	0.000020	0.00020	mg/L	1	07-Aug-2020 18:21
Fluoranthene	0.00015		0.000010	0.00010	mg/L	1	07-Aug-2020 18:21
Fluorene	0.0012		0.000030	0.00010	mg/L	1	07-Aug-2020 18:21
Naphthalene	0.025		0.00020	0.0010	mg/L	10	11-Aug-2020 13:06
Nitrobenzene	U		0.000024	0.00020	mg/L	1	07-Aug-2020 18:21
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	07-Aug-2020 18:21
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	07-Aug-2020 18:21
Phenanthrene	0.0012		0.000021	0.00010	mg/L	1	07-Aug-2020 18:21
Phenol	U		0.000035	0.00020	mg/L	1	07-Aug-2020 18:21
Pyrene	0.000097	J	0.000019	0.00010	mg/L	1	07-Aug-2020 18:21
<i>Surr: 2,4,6-Tribromophenol</i>	69.5			34-129	%REC	10	11-Aug-2020 13:06
<i>Surr: 2,4,6-Tribromophenol</i>	84.4			34-129	%REC	1	07-Aug-2020 18:21
<i>Surr: 2-Fluorobiphenyl</i>	61.4			40-125	%REC	1	07-Aug-2020 18:21
<i>Surr: 2-Fluorobiphenyl</i>	56.4			40-125	%REC	10	11-Aug-2020 13:06
<i>Surr: 2-Fluorophenol</i>	46.4			20-120	%REC	10	11-Aug-2020 13:06
<i>Surr: 2-Fluorophenol</i>	51.5			20-120	%REC	1	07-Aug-2020 18:21
<i>Surr: 4-Terphenyl-d14</i>	103			40-135	%REC	1	07-Aug-2020 18:21
<i>Surr: 4-Terphenyl-d14</i>	98.5			40-135	%REC	10	11-Aug-2020 13:06
<i>Surr: Nitrobenzene-d5</i>	80.7			41-120	%REC	10	11-Aug-2020 13:06
<i>Surr: Nitrobenzene-d5</i>	90.3			41-120	%REC	1	07-Aug-2020 18:21
<i>Surr: Phenol-d6</i>	72.7			20-120	%REC	1	07-Aug-2020 18:21
<i>Surr: Phenol-d6</i>	63.1			20-120	%REC	10	11-Aug-2020 13:06

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW84B-20200727
 Collection Date: 27-Jul-2020 09:50

ANALYTICAL REPORT

WorkOrder:HS20071329
 Lab ID:HS20071329-03
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020			Prep:SW3010A / 30-Jul-2020		Analyst: JC
Arsenic	0.00462		0.000400	0.00200	mg/L	1	31-Jul-2020 13:45

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW26A-20200727
 Collection Date: 27-Jul-2020 10:55

ANALYTICAL REPORT

WorkOrder:HS20071329
 Lab ID:HS20071329-04
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	30-Jul-2020 15:13
Benzene	U		0.00020	0.0010	mg/L	1	30-Jul-2020 15:13
Chlorobenzene	U		0.00030	0.0010	mg/L	1	30-Jul-2020 15:13
Ethylbenzene	U		0.00030	0.0010	mg/L	1	30-Jul-2020 15:13
Methylene chloride	U		0.0010	0.0020	mg/L	1	30-Jul-2020 15:13
Toluene	U		0.00020	0.0010	mg/L	1	30-Jul-2020 15:13
Xylenes, Total	U		0.00030	0.0010	mg/L	1	30-Jul-2020 15:13
<i>Surr: 1,2-Dichloroethane-d4</i>		<i>102</i>		<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>30-Jul-2020 15:13</i>
<i>Surr: 4-Bromofluorobenzene</i>		<i>100</i>		<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>30-Jul-2020 15:13</i>
<i>Surr: Dibromofluoromethane</i>		<i>98.6</i>		<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>30-Jul-2020 15:13</i>
<i>Surr: Toluene-d8</i>		<i>99.3</i>		<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>30-Jul-2020 15:13</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW26A-20200727
 Collection Date: 27-Jul-2020 10:55

ANALYTICAL REPORT
 WorkOrder:HS20071329
 Lab ID:HS20071329-04
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D			Method:SW8270		Prep:SW3510 / 30-Jul-2020		Analyst: ACN
1,2-Diphenylhydrazine	0.00013	J	0.000021	0.00020	mg/L	1	07-Aug-2020 18:41
2,4-Dimethylphenol	U		0.000040	0.00020	mg/L	1	07-Aug-2020 18:41
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	07-Aug-2020 18:41
2,6-Dinitrotoluene	U		0.000042	0.00020	mg/L	1	07-Aug-2020 18:41
2-Chloronaphthalene	0.000070	J	0.000021	0.00020	mg/L	1	07-Aug-2020 18:41
2-Methylnaphthalene	U		0.000019	0.00010	mg/L	1	07-Aug-2020 18:41
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	07-Aug-2020 18:41
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	07-Aug-2020 18:41
Acenaphthene	0.0092		0.000027	0.00010	mg/L	1	07-Aug-2020 18:41
Acenaphthylene	0.000077	J	0.000015	0.00010	mg/L	1	07-Aug-2020 18:41
Anthracene	0.00014		0.000014	0.00010	mg/L	1	07-Aug-2020 18:41
Benz(a)anthracene	U		0.000050	0.00010	mg/L	1	07-Aug-2020 18:41
Benzo(a)pyrene	0.000026	J	0.000020	0.00010	mg/L	1	07-Aug-2020 18:41
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	07-Aug-2020 18:41
Bis(2-ethylhexyl)phthalate	0.000068	J	0.000037	0.00020	mg/L	1	07-Aug-2020 18:41
Chrysene	0.000041	J	0.000021	0.00010	mg/L	1	07-Aug-2020 18:41
Dibenzofuran	0.000030	J	0.000020	0.00010	mg/L	1	07-Aug-2020 18:41
Di-n-butyl phthalate	U		0.000020	0.00020	mg/L	1	07-Aug-2020 18:41
Fluoranthene	0.0017		0.000010	0.00010	mg/L	1	07-Aug-2020 18:41
Fluorene	0.00061		0.000030	0.00010	mg/L	1	07-Aug-2020 18:41
Naphthalene	0.000049	J	0.000020	0.00010	mg/L	1	07-Aug-2020 18:41
Nitrobenzene	0.0010		0.000024	0.00020	mg/L	1	07-Aug-2020 18:41
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	07-Aug-2020 18:41
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	07-Aug-2020 18:41
Phenanthrene	U		0.000021	0.00010	mg/L	1	07-Aug-2020 18:41
Phenol	U		0.000035	0.00020	mg/L	1	07-Aug-2020 18:41
Pyrene	0.00094		0.000019	0.00010	mg/L	1	07-Aug-2020 18:41
<i>Surr: 2,4,6-Tribromophenol</i>	<i>91.7</i>			<i>34-129</i>	<i>%REC</i>	<i>1</i>	<i>07-Aug-2020 18:41</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>69.5</i>			<i>40-125</i>	<i>%REC</i>	<i>1</i>	<i>07-Aug-2020 18:41</i>
<i>Surr: 2-Fluorophenol</i>	<i>54.8</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>07-Aug-2020 18:41</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>102</i>			<i>40-135</i>	<i>%REC</i>	<i>1</i>	<i>07-Aug-2020 18:41</i>
<i>Surr: Nitrobenzene-d5</i>	<i>104</i>			<i>41-120</i>	<i>%REC</i>	<i>1</i>	<i>07-Aug-2020 18:41</i>
<i>Surr: Phenol-d6</i>	<i>69.6</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>07-Aug-2020 18:41</i>
ICP-MS METALS BY SW6020A			Method:SW6020		Prep:SW3010A / 30-Jul-2020		Analyst: JC
Arsenic	0.0695		0.000400	0.00200	mg/L	1	31-Jul-2020 13:47

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW68A-20200727
 Collection Date: 27-Jul-2020 11:50

ANALYTICAL REPORT
 WorkOrder:HS20071329
 Lab ID:HS20071329-05
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	30-Jul-2020 15:35
Benzene	U		0.00020	0.0010	mg/L	1	30-Jul-2020 15:35
Chlorobenzene	U		0.00030	0.0010	mg/L	1	30-Jul-2020 15:35
Ethylbenzene	U		0.00030	0.0010	mg/L	1	30-Jul-2020 15:35
Methylene chloride	U		0.0010	0.0020	mg/L	1	30-Jul-2020 15:35
Toluene	U		0.00020	0.0010	mg/L	1	30-Jul-2020 15:35
Xylenes, Total	U		0.00030	0.0010	mg/L	1	30-Jul-2020 15:35
<i>Surr: 1,2-Dichloroethane-d4</i>		<i>101</i>		<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>30-Jul-2020 15:35</i>
<i>Surr: 4-Bromofluorobenzene</i>		<i>98.5</i>		<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>30-Jul-2020 15:35</i>
<i>Surr: Dibromofluoromethane</i>		<i>100</i>		<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>30-Jul-2020 15:35</i>
<i>Surr: Toluene-d8</i>		<i>99.7</i>		<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>30-Jul-2020 15:35</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW68A-20200727
 Collection Date: 27-Jul-2020 11:50

ANALYTICAL REPORT
 WorkOrder:HS20071329
 Lab ID:HS20071329-05
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 30-Jul-2020		Analyst: ACN	
1,2-Diphenylhydrazine		U	0.000021	0.00020	mg/L	1	07-Aug-2020 19:00
2,4-Dimethylphenol	0.00023		0.000040	0.00020	mg/L	1	07-Aug-2020 19:00
2,4-Dinitrotoluene		U	0.000058	0.00020	mg/L	1	07-Aug-2020 19:00
2,6-Dinitrotoluene		U	0.000042	0.00020	mg/L	1	07-Aug-2020 19:00
2-Chloronaphthalene		U	0.000021	0.00020	mg/L	1	07-Aug-2020 19:00
2-Methylnaphthalene		U	0.000019	0.00010	mg/L	1	07-Aug-2020 19:00
4,6-Dinitro-2-methylphenol		U	0.000020	0.00020	mg/L	1	07-Aug-2020 19:00
4-Nitrophenol		U	0.000047	0.0010	mg/L	1	07-Aug-2020 19:00
Acenaphthene	0.00032		0.000027	0.00010	mg/L	1	07-Aug-2020 19:00
Acenaphthylene		U	0.000015	0.00010	mg/L	1	07-Aug-2020 19:00
Anthracene	0.000024	J	0.000014	0.00010	mg/L	1	07-Aug-2020 19:00
Benz(a)anthracene		U	0.000050	0.00010	mg/L	1	07-Aug-2020 19:00
Benzo(a)pyrene		U	0.000020	0.00010	mg/L	1	07-Aug-2020 19:00
Bis(2-chloroethoxy)methane		U	0.000030	0.00020	mg/L	1	07-Aug-2020 19:00
Bis(2-ethylhexyl)phthalate	0.000077	J	0.000037	0.00020	mg/L	1	07-Aug-2020 19:00
Chrysene	0.000029	J	0.000021	0.00010	mg/L	1	07-Aug-2020 19:00
Dibenzofuran	0.000027	J	0.000020	0.00010	mg/L	1	07-Aug-2020 19:00
Di-n-butyl phthalate	0.000046	J	0.000020	0.00020	mg/L	1	07-Aug-2020 19:00
Fluoranthene	0.00014		0.000010	0.00010	mg/L	1	07-Aug-2020 19:00
Fluorene	0.000041	J	0.000030	0.00010	mg/L	1	07-Aug-2020 19:00
Naphthalene	0.000029	J	0.000020	0.00010	mg/L	1	07-Aug-2020 19:00
Nitrobenzene		U	0.000024	0.00020	mg/L	1	07-Aug-2020 19:00
N-Nitrosodiphenylamine		U	0.000025	0.00020	mg/L	1	07-Aug-2020 19:00
Pentachlorophenol		U	0.000079	0.00020	mg/L	1	07-Aug-2020 19:00
Phenanthrene	0.00011		0.000021	0.00010	mg/L	1	07-Aug-2020 19:00
Phenol		U	0.000035	0.00020	mg/L	1	07-Aug-2020 19:00
Pyrene	0.000072	J	0.000019	0.00010	mg/L	1	07-Aug-2020 19:00
<i>Surr: 2,4,6-Tribromophenol</i>	<i>82.7</i>			<i>34-129</i>	<i>%REC</i>	<i>1</i>	<i>07-Aug-2020 19:00</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>70.0</i>			<i>40-125</i>	<i>%REC</i>	<i>1</i>	<i>07-Aug-2020 19:00</i>
<i>Surr: 2-Fluorophenol</i>	<i>55.3</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>07-Aug-2020 19:00</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>97.4</i>			<i>40-135</i>	<i>%REC</i>	<i>1</i>	<i>07-Aug-2020 19:00</i>
<i>Surr: Nitrobenzene-d5</i>	<i>105</i>			<i>41-120</i>	<i>%REC</i>	<i>1</i>	<i>07-Aug-2020 19:00</i>
<i>Surr: Phenol-d6</i>	<i>69.7</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>07-Aug-2020 19:00</i>
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 30-Jul-2020		Analyst: JC	
Arsenic	0.0825		0.000400	0.00200	mg/L	1	31-Jul-2020 13:49

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW68B-20200727
 Collection Date: 27-Jul-2020 12:45

ANALYTICAL REPORT
 WorkOrder:HS20071329
 Lab ID:HS20071329-06
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	ML	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: PC			
1,2-Dichloroethane	U		0.0010	0.0050	mg/L	5	31-Jul-2020 01:38
Benzene	2.3		0.010	0.050	mg/L	50	31-Jul-2020 02:02
Chlorobenzene	U		0.0015	0.0050	mg/L	5	31-Jul-2020 01:38
Ethylbenzene	0.55		0.0015	0.0050	mg/L	5	31-Jul-2020 01:38
Methylene chloride	U		0.0050	0.010	mg/L	5	31-Jul-2020 23:05
Toluene	0.70		0.0010	0.0050	mg/L	5	31-Jul-2020 01:38
Xylenes, Total	1.5		0.0015	0.0050	mg/L	5	31-Jul-2020 01:38
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>105</i>			<i>70-126</i>	<i>%REC</i>	<i>5</i>	<i>31-Jul-2020 01:38</i>
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>105</i>			<i>70-126</i>	<i>%REC</i>	<i>50</i>	<i>31-Jul-2020 02:02</i>
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>88.0</i>			<i>70-126</i>	<i>%REC</i>	<i>5</i>	<i>31-Jul-2020 23:05</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>98.2</i>			<i>81-113</i>	<i>%REC</i>	<i>5</i>	<i>31-Jul-2020 01:38</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>95.0</i>			<i>81-113</i>	<i>%REC</i>	<i>50</i>	<i>31-Jul-2020 02:02</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>99.2</i>			<i>81-113</i>	<i>%REC</i>	<i>5</i>	<i>31-Jul-2020 23:05</i>
<i>Surr: Dibromofluoromethane</i>	<i>101</i>			<i>77-123</i>	<i>%REC</i>	<i>5</i>	<i>31-Jul-2020 01:38</i>
<i>Surr: Dibromofluoromethane</i>	<i>101</i>			<i>77-123</i>	<i>%REC</i>	<i>50</i>	<i>31-Jul-2020 02:02</i>
<i>Surr: Dibromofluoromethane</i>	<i>98.9</i>			<i>77-123</i>	<i>%REC</i>	<i>5</i>	<i>31-Jul-2020 23:05</i>
<i>Surr: Toluene-d8</i>	<i>105</i>			<i>82-127</i>	<i>%REC</i>	<i>50</i>	<i>31-Jul-2020 02:02</i>
<i>Surr: Toluene-d8</i>	<i>104</i>			<i>82-127</i>	<i>%REC</i>	<i>5</i>	<i>31-Jul-2020 01:38</i>
<i>Surr: Toluene-d8</i>	<i>98.8</i>			<i>82-127</i>	<i>%REC</i>	<i>5</i>	<i>31-Jul-2020 23:05</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW68B-20200727
 Collection Date: 27-Jul-2020 12:45

ANALYTICAL REPORT
 WorkOrder:HS20071329
 Lab ID:HS20071329-06
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 30-Jul-2020		Analyst: ACN	
1,2-Diphenylhydrazine	U		0.00021	0.0020	mg/L	10	11-Aug-2020 13:45
2,4-Dimethylphenol	0.018		0.00040	0.0020	mg/L	10	11-Aug-2020 13:45
2,4-Dinitrotoluene	U		0.00058	0.0020	mg/L	10	11-Aug-2020 13:45
2,6-Dinitrotoluene	U		0.00042	0.0020	mg/L	10	11-Aug-2020 13:45
2-Chloronaphthalene	U		0.00021	0.0020	mg/L	10	11-Aug-2020 13:45
2-Methylnaphthalene	2.9		0.019	0.10	mg/L	1000	11-Aug-2020 15:43
4,6-Dinitro-2-methylphenol	U		0.00020	0.0020	mg/L	10	11-Aug-2020 13:45
4-Nitrophenol	U		0.00047	0.010	mg/L	10	11-Aug-2020 13:45
Acenaphthene	1.0		0.027	0.10	mg/L	1000	11-Aug-2020 15:43
Acenaphthylene	U		0.00015	0.0010	mg/L	10	11-Aug-2020 13:45
Anthracene	0.50		0.0014	0.010	mg/L	100	11-Aug-2020 15:23
Benz(a)anthracene	0.14		0.0050	0.010	mg/L	100	11-Aug-2020 15:23
Benzo(a)pyrene	0.039		0.00020	0.0010	mg/L	10	11-Aug-2020 13:45
Bis(2-chloroethoxy)methane	U		0.00030	0.0020	mg/L	10	11-Aug-2020 13:45
Bis(2-ethylhexyl)phthalate	U		0.00037	0.0020	mg/L	10	11-Aug-2020 13:45
Chrysene	0.099		0.00021	0.0010	mg/L	10	11-Aug-2020 13:45
Dibenzofuran	1.3		0.020	0.10	mg/L	1000	11-Aug-2020 15:43
Di-n-butyl phthalate	U		0.00020	0.0020	mg/L	10	11-Aug-2020 13:45
Fluoranthene	1.0		0.010	0.10	mg/L	1000	11-Aug-2020 15:43
Fluorene	0.80		0.0030	0.010	mg/L	100	11-Aug-2020 15:23
Naphthalene	29		0.20	1.0	mg/L	10000	10-Aug-2020 19:06
Nitrobenzene	U		0.00024	0.0020	mg/L	10	11-Aug-2020 13:45
N-Nitrosodiphenylamine	U		0.00025	0.0020	mg/L	10	11-Aug-2020 13:45
Pentachlorophenol	U		0.00079	0.0020	mg/L	10	11-Aug-2020 13:45
Phenanthrene	3.1		0.021	0.10	mg/L	1000	11-Aug-2020 15:43
Phenol	U		0.00035	0.0020	mg/L	10	11-Aug-2020 13:45
Pyrene	0.61		0.0019	0.010	mg/L	100	11-Aug-2020 15:23
Surr: 2,4,6-Tribromophenol	0	JS		34-129	%REC	10000	10-Aug-2020 19:06
Surr: 2,4,6-Tribromophenol	68.9			34-129	%REC	10	11-Aug-2020 13:45
Surr: 2,4,6-Tribromophenol	0	JS		34-129	%REC	100	11-Aug-2020 15:23
Surr: 2,4,6-Tribromophenol	0	JS		34-129	%REC	1000	11-Aug-2020 15:43
Surr: 2-Fluorobiphenyl	0	JS		40-125	%REC	100	11-Aug-2020 15:23
Surr: 2-Fluorobiphenyl	0	JS		40-125	%REC	1000	11-Aug-2020 15:43
Surr: 2-Fluorobiphenyl	67.8			40-125	%REC	10	11-Aug-2020 13:45
Surr: 2-Fluorobiphenyl	0	JS		40-125	%REC	10000	10-Aug-2020 19:06
Surr: 2-Fluorophenol	0	JS		20-120	%REC	10000	10-Aug-2020 19:06
Surr: 2-Fluorophenol	94.4			20-120	%REC	10	11-Aug-2020 13:45
Surr: 2-Fluorophenol	0	JS		20-120	%REC	100	11-Aug-2020 15:23
Surr: 2-Fluorophenol	0	JS		20-120	%REC	1000	11-Aug-2020 15:43

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW68B-20200727
 Collection Date: 27-Jul-2020 12:45

ANALYTICAL REPORT
 WorkOrder:HS20071329
 Lab ID:HS20071329-06
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 30-Jul-2020		Analyst: ACN	
Surr: 4-Terphenyl-d14	0	JS		40-135	%REC	10000	10-Aug-2020 19:06
Surr: 4-Terphenyl-d14	0	JS		40-135	%REC	100	11-Aug-2020 15:23
Surr: 4-Terphenyl-d14	0	JS		40-135	%REC	1000	11-Aug-2020 15:43
Surr: 4-Terphenyl-d14	100			40-135	%REC	10	11-Aug-2020 13:45
Surr: Nitrobenzene-d5	91.0			41-120	%REC	10	11-Aug-2020 13:45
Surr: Nitrobenzene-d5	0	JS		41-120	%REC	100	11-Aug-2020 15:23
Surr: Nitrobenzene-d5	0	JS		41-120	%REC	10000	10-Aug-2020 19:06
Surr: Nitrobenzene-d5	0	JS		41-120	%REC	1000	11-Aug-2020 15:43
Surr: Phenol-d6	0	JS		20-120	%REC	1000	11-Aug-2020 15:43
Surr: Phenol-d6	0	JS		20-120	%REC	10000	10-Aug-2020 19:06
Surr: Phenol-d6	0	JS		20-120	%REC	100	11-Aug-2020 15:23
Surr: Phenol-d6	103			20-120	%REC	10	11-Aug-2020 13:45
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 30-Jul-2020		Analyst: JC	
Arsenic	0.0113		0.000400	0.00200	mg/L	1	31-Jul-2020 13:51

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW68C-20200727
 Collection Date: 27-Jul-2020 13:50

ANALYTICAL REPORT
 WorkOrder:HS20071329
 Lab ID:HS20071329-07
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	30-Jul-2020 16:20
Benzene	U		0.00020	0.0010	mg/L	1	30-Jul-2020 16:20
Chlorobenzene	U		0.00030	0.0010	mg/L	1	30-Jul-2020 16:20
Ethylbenzene	U		0.00030	0.0010	mg/L	1	30-Jul-2020 16:20
Methylene chloride	U		0.0010	0.0020	mg/L	1	30-Jul-2020 16:20
Toluene	U		0.00020	0.0010	mg/L	1	30-Jul-2020 16:20
Xylenes, Total	U		0.00030	0.0010	mg/L	1	30-Jul-2020 16:20
<i>Surr: 1,2-Dichloroethane-d4</i>		<i>103</i>		<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>30-Jul-2020 16:20</i>
<i>Surr: 4-Bromofluorobenzene</i>		<i>98.5</i>		<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>30-Jul-2020 16:20</i>
<i>Surr: Dibromofluoromethane</i>		<i>101</i>		<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>30-Jul-2020 16:20</i>
<i>Surr: Toluene-d8</i>		<i>98.3</i>		<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>30-Jul-2020 16:20</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW68C-20200727
 Collection Date: 27-Jul-2020 13:50

ANALYTICAL REPORT
 WorkOrder:HS20071329
 Lab ID:HS20071329-07
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 30-Jul-2020		Analyst: ACN	
1,2-Diphenylhydrazine	U		0.000021	0.00020	mg/L	1	07-Aug-2020 19:39
2,4-Dimethylphenol	U		0.000040	0.00020	mg/L	1	07-Aug-2020 19:39
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	07-Aug-2020 19:39
2,6-Dinitrotoluene	U		0.000042	0.00020	mg/L	1	07-Aug-2020 19:39
2-Chloronaphthalene	U		0.000021	0.00020	mg/L	1	07-Aug-2020 19:39
2-Methylnaphthalene	0.00013		0.000019	0.00010	mg/L	1	07-Aug-2020 19:39
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	07-Aug-2020 19:39
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	07-Aug-2020 19:39
Acenaphthene	0.00038		0.000027	0.00010	mg/L	1	07-Aug-2020 19:39
Acenaphthylene	0.000074	J	0.000015	0.00010	mg/L	1	07-Aug-2020 19:39
Anthracene	0.00071		0.000014	0.00010	mg/L	1	07-Aug-2020 19:39
Benz(a)anthracene	0.00039		0.000050	0.00010	mg/L	1	07-Aug-2020 19:39
Benzo(a)pyrene	0.00014		0.000020	0.00010	mg/L	1	07-Aug-2020 19:39
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	07-Aug-2020 19:39
Bis(2-ethylhexyl)phthalate	0.00016	J	0.000037	0.00020	mg/L	1	07-Aug-2020 19:39
Chrysene	0.00030		0.000021	0.00010	mg/L	1	07-Aug-2020 19:39
Dibenzofuran	0.00042		0.000020	0.00010	mg/L	1	07-Aug-2020 19:39
Di-n-butyl phthalate	0.000021	J	0.000020	0.00020	mg/L	1	07-Aug-2020 19:39
Fluoranthene	0.0019		0.000010	0.00010	mg/L	1	07-Aug-2020 19:39
Fluorene	0.00047		0.000030	0.00010	mg/L	1	07-Aug-2020 19:39
Naphthalene	0.00066		0.000020	0.00010	mg/L	1	07-Aug-2020 19:39
Nitrobenzene	U		0.000024	0.00020	mg/L	1	07-Aug-2020 19:39
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	07-Aug-2020 19:39
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	07-Aug-2020 19:39
Phenanthrene	0.0024		0.000021	0.00010	mg/L	1	07-Aug-2020 19:39
Phenol	U		0.000035	0.00020	mg/L	1	07-Aug-2020 19:39
Pyrene	0.0013		0.000019	0.00010	mg/L	1	07-Aug-2020 19:39
<i>Surr: 2,4,6-Tribromophenol</i>	<i>64.8</i>			<i>34-129</i>	<i>%REC</i>	<i>1</i>	<i>07-Aug-2020 19:39</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>57.7</i>			<i>40-125</i>	<i>%REC</i>	<i>1</i>	<i>07-Aug-2020 19:39</i>
<i>Surr: 2-Fluorophenol</i>	<i>51.6</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>07-Aug-2020 19:39</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>83.1</i>			<i>40-135</i>	<i>%REC</i>	<i>1</i>	<i>07-Aug-2020 19:39</i>
<i>Surr: Nitrobenzene-d5</i>	<i>90.6</i>			<i>41-120</i>	<i>%REC</i>	<i>1</i>	<i>07-Aug-2020 19:39</i>
<i>Surr: Phenol-d6</i>	<i>61.9</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>07-Aug-2020 19:39</i>
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 30-Jul-2020		Analyst: JC	
Arsenic	U		0.000400	0.00200	mg/L	1	31-Jul-2020 13:53

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW32B-20200727
 Collection Date: 27-Jul-2020 14:50

ANALYTICAL REPORT
 WorkOrder:HS20071329
 Lab ID:HS20071329-08
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MLL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: PC			
1,2-Dichloroethane	0.10		0.020	0.10	mg/L	100	31-Jul-2020 03:14
Benzene	3.7		0.020	0.10	mg/L	100	31-Jul-2020 03:14
Chlorobenzene	U		0.030	0.10	mg/L	100	31-Jul-2020 03:14
Ethylbenzene	0.83		0.030	0.10	mg/L	100	31-Jul-2020 03:14
Methylene chloride	U		0.10	0.20	mg/L	100	01-Aug-2020 01:06
Toluene	3.2		0.020	0.10	mg/L	100	31-Jul-2020 03:14
Xylenes, Total	2.2		0.030	0.10	mg/L	100	31-Jul-2020 03:14
Surr: 1,2-Dichloroethane-d4	104			70-126	%REC	100	31-Jul-2020 03:14
Surr: 1,2-Dichloroethane-d4	93.0			70-126	%REC	100	01-Aug-2020 01:06
Surr: 4-Bromofluorobenzene	96.9			81-113	%REC	100	31-Jul-2020 03:14
Surr: 4-Bromofluorobenzene	99.0			81-113	%REC	100	01-Aug-2020 01:06
Surr: Dibromofluoromethane	101			77-123	%REC	100	31-Jul-2020 03:14
Surr: Dibromofluoromethane	99.2			77-123	%REC	100	01-Aug-2020 01:06
Surr: Toluene-d8	104			82-127	%REC	100	31-Jul-2020 03:14
Surr: Toluene-d8	102			82-127	%REC	100	01-Aug-2020 01:06

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW32B-20200727
 Collection Date: 27-Jul-2020 14:50

ANALYTICAL REPORT

WorkOrder:HS20071329
 Lab ID:HS20071329-08
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 30-Jul-2020		Analyst: ACN	
1,2-Diphenylhydrazine	U		0.021	0.20	mg/L	100	10-Aug-2020 20:44
2,4-Dimethylphenol	41		0.40	2.0	mg/L	1000	10-Aug-2020 21:03
2,4-Dinitrotoluene	U		0.058	0.20	mg/L	100	10-Aug-2020 20:44
2,6-Dinitrotoluene	U		0.042	0.20	mg/L	100	10-Aug-2020 20:44
2-Chloronaphthalene	U		0.021	0.20	mg/L	100	10-Aug-2020 20:44
2-Methylnaphthalene	540		1.9	10	mg/L	10000	11-Aug-2020 14:24
4,6-Dinitro-2-methylphenol	U		0.020	0.20	mg/L	100	10-Aug-2020 20:44
4-Nitrophenol	U		0.047	1.0	mg/L	100	10-Aug-2020 20:44
Acenaphthene	230		2.7	10	mg/L	10000	11-Aug-2020 14:24
Acenaphthylene	1.7		0.015	0.10	mg/L	100	10-Aug-2020 20:44
Anthracene	170		1.4	10	mg/L	10000	11-Aug-2020 14:24
Benz(a)anthracene	16		0.50	1.0	mg/L	1000	10-Aug-2020 21:03
Benzo(a)pyrene	4.8		0.020	0.10	mg/L	100	10-Aug-2020 20:44
Bis(2-chloroethoxy)methane	U		0.030	0.20	mg/L	100	10-Aug-2020 20:44
Bis(2-ethylhexyl)phthalate	U		0.037	0.20	mg/L	100	10-Aug-2020 20:44
Chrysene	27		0.21	1.0	mg/L	1000	10-Aug-2020 21:03
Dibenzofuran	250		2.0	10	mg/L	10000	11-Aug-2020 14:24
Di-n-butyl phthalate	U		0.020	0.20	mg/L	100	10-Aug-2020 20:44
Fluoranthene	210		1.0	10	mg/L	10000	11-Aug-2020 14:24
Fluorene	180		3.0	10	mg/L	10000	11-Aug-2020 14:24
Naphthalene	2,300		20	100	mg/L	100000	11-Aug-2020 15:03
Nitrobenzene	U		0.024	0.20	mg/L	100	10-Aug-2020 20:44
N-Nitrosodiphenylamine	U		0.025	0.20	mg/L	100	10-Aug-2020 20:44
Pentachlorophenol	U		0.079	0.20	mg/L	100	10-Aug-2020 20:44
Phenanthrene	660		2.1	10	mg/L	10000	11-Aug-2020 14:24
Phenol	23		0.35	2.0	mg/L	1000	10-Aug-2020 21:03
Pyrene	120		1.9	10	mg/L	10000	11-Aug-2020 14:24
<i>Surr: 2,4,6-Tribromophenol</i>	<i>0</i>	<i>JS</i>		<i>34-129</i>	<i>%REC</i>	<i>100</i>	<i>10-Aug-2020 20:44</i>
<i>Surr: 2,4,6-Tribromophenol</i>	<i>0</i>	<i>JS</i>		<i>34-129</i>	<i>%REC</i>	<i>1000</i>	<i>10-Aug-2020 21:03</i>
<i>Surr: 2,4,6-Tribromophenol</i>	<i>0</i>	<i>JS</i>		<i>34-129</i>	<i>%REC</i>	<i>10000</i>	<i>11-Aug-2020 14:24</i>
<i>Surr: 2,4,6-Tribromophenol</i>	<i>0</i>	<i>JS</i>		<i>34-129</i>	<i>%REC</i>	<i>100000</i>	<i>11-Aug-2020 15:03</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>0</i>	<i>JS</i>		<i>40-125</i>	<i>%REC</i>	<i>10000</i>	<i>11-Aug-2020 14:24</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>0</i>	<i>JS</i>		<i>40-125</i>	<i>%REC</i>	<i>100000</i>	<i>11-Aug-2020 15:03</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>0</i>	<i>JS</i>		<i>40-125</i>	<i>%REC</i>	<i>100</i>	<i>10-Aug-2020 20:44</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>0</i>	<i>JS</i>		<i>40-125</i>	<i>%REC</i>	<i>1000</i>	<i>10-Aug-2020 21:03</i>
<i>Surr: 2-Fluorophenol</i>	<i>0</i>	<i>JS</i>		<i>20-120</i>	<i>%REC</i>	<i>100</i>	<i>10-Aug-2020 20:44</i>
<i>Surr: 2-Fluorophenol</i>	<i>0</i>	<i>JS</i>		<i>20-120</i>	<i>%REC</i>	<i>1000</i>	<i>10-Aug-2020 21:03</i>
<i>Surr: 2-Fluorophenol</i>	<i>0</i>	<i>JS</i>		<i>20-120</i>	<i>%REC</i>	<i>10000</i>	<i>11-Aug-2020 14:24</i>
<i>Surr: 2-Fluorophenol</i>	<i>0</i>	<i>JS</i>		<i>20-120</i>	<i>%REC</i>	<i>100000</i>	<i>11-Aug-2020 15:03</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW32B-20200727
 Collection Date: 27-Jul-2020 14:50

ANALYTICAL REPORT
 WorkOrder:HS20071329
 Lab ID:HS20071329-08
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 30-Jul-2020		Analyst: ACN	
Surr: 4-Terphenyl-d14	0	JS		40-135	%REC	10000	11-Aug-2020 14:24
Surr: 4-Terphenyl-d14	0	JS		40-135	%REC	100	10-Aug-2020 20:44
Surr: 4-Terphenyl-d14	0	JS		40-135	%REC	1000	10-Aug-2020 21:03
Surr: 4-Terphenyl-d14	0	JS		40-135	%REC	100000	11-Aug-2020 15:03
Surr: Nitrobenzene-d5	0	JS		41-120	%REC	100000	11-Aug-2020 15:03
Surr: Nitrobenzene-d5	0	JS		41-120	%REC	100	10-Aug-2020 20:44
Surr: Nitrobenzene-d5	0	JS		41-120	%REC	1000	10-Aug-2020 21:03
Surr: Nitrobenzene-d5	0	JS		41-120	%REC	10000	11-Aug-2020 14:24
Surr: Phenol-d6	0	JS		20-120	%REC	10000	11-Aug-2020 14:24
Surr: Phenol-d6	0	JS		20-120	%REC	100000	11-Aug-2020 15:03
Surr: Phenol-d6	0	JS		20-120	%REC	100	10-Aug-2020 20:44
Surr: Phenol-d6	0	JS		20-120	%REC	1000	10-Aug-2020 21:03
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 30-Jul-2020		Analyst: JC	
Arsenic	0.00166	J	0.000400	0.00200	mg/L	1	31-Jul-2020 15:13

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW33BR-20200727
 Collection Date: 27-Jul-2020 15:55

ANALYTICAL REPORT
 WorkOrder:HS20071329
 Lab ID:HS20071329-09
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	SQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	0.0032		0.00020	0.0010	mg/L	1	30-Jul-2020 19:19
Benzene	0.14		0.00020	0.0010	mg/L	1	30-Jul-2020 19:19
Chlorobenzene	U		0.00030	0.0010	mg/L	1	30-Jul-2020 19:19
Ethylbenzene	0.099		0.00030	0.0010	mg/L	1	30-Jul-2020 19:19
Methylene chloride	U		0.0010	0.0020	mg/L	1	30-Jul-2020 19:19
Toluene	0.0067		0.00020	0.0010	mg/L	1	30-Jul-2020 19:19
Vinyl chloride	U		0.00020	0.0010	mg/L	1	30-Jul-2020 19:19
Xylenes, Total	0.033		0.00030	0.0010	mg/L	1	30-Jul-2020 19:19
Surr: 1,2-Dichloroethane-d4	105			70-126	%REC	1	30-Jul-2020 19:19
Surr: 4-Bromofluorobenzene	103			81-113	%REC	1	30-Jul-2020 19:19
Surr: Dibromofluoromethane	101			77-123	%REC	1	30-Jul-2020 19:19
Surr: Toluene-d8	99.4			82-127	%REC	1	30-Jul-2020 19:19

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW33BR-20200727
 Collection Date: 27-Jul-2020 15:55

ANALYTICAL REPORT
 WorkOrder:HS20071329
 Lab ID:HS20071329-09
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 30-Jul-2020		Analyst: ACN	
1,2-Diphenylhydrazine	U		0.000021	0.00020	mg/L	1	07-Aug-2020 19:59
2,4-Dimethylphenol	U		0.000040	0.00020	mg/L	1	07-Aug-2020 19:59
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	07-Aug-2020 19:59
2,6-Dinitrotoluene	U		0.000042	0.00020	mg/L	1	07-Aug-2020 19:59
2-Chloronaphthalene	U		0.000021	0.00020	mg/L	1	07-Aug-2020 19:59
2-Methylnaphthalene	0.022		0.00019	0.0010	mg/L	10	11-Aug-2020 13:26
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	07-Aug-2020 19:59
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	07-Aug-2020 19:59
Acenaphthene	0.0066		0.000027	0.00010	mg/L	1	07-Aug-2020 19:59
Acenaphthylene	0.00015		0.000015	0.00010	mg/L	1	07-Aug-2020 19:59
Anthracene	0.0018		0.000014	0.00010	mg/L	1	07-Aug-2020 19:59
Benz(a)anthracene	0.00059		0.000050	0.00010	mg/L	1	07-Aug-2020 19:59
Benzo(a)pyrene	0.00016		0.000020	0.00010	mg/L	1	07-Aug-2020 19:59
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	07-Aug-2020 19:59
Bis(2-ethylhexyl)phthalate	0.000072	J	0.000037	0.00020	mg/L	1	07-Aug-2020 19:59
Chrysene	0.00052		0.000021	0.00010	mg/L	1	07-Aug-2020 19:59
Dibenzofuran	0.0085		0.000020	0.00010	mg/L	1	07-Aug-2020 19:59
Di-n-butyl phthalate	0.000038	J	0.000020	0.00020	mg/L	1	07-Aug-2020 19:59
Fluoranthene	0.0035		0.000010	0.00010	mg/L	1	07-Aug-2020 19:59
Fluorene	0.0041		0.000030	0.00010	mg/L	1	07-Aug-2020 19:59
Naphthalene	0.95		0.0020	0.010	mg/L	100	10-Aug-2020 17:48
Nitrobenzene	U		0.000024	0.00020	mg/L	1	07-Aug-2020 19:59
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	07-Aug-2020 19:59
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	07-Aug-2020 19:59
Phenanthrene	0.010		0.00021	0.0010	mg/L	10	11-Aug-2020 13:26
Phenol	0.00023		0.000035	0.00020	mg/L	1	07-Aug-2020 19:59
Pyrene	0.0023		0.000019	0.00010	mg/L	1	07-Aug-2020 19:59
<i>Surr: 2,4,6-Tribromophenol</i>	<i>81.7</i>			<i>34-129</i>	<i>%REC</i>	<i>10</i>	<i>11-Aug-2020 13:26</i>
<i>Surr: 2,4,6-Tribromophenol</i>	<i>70.3</i>			<i>34-129</i>	<i>%REC</i>	<i>1</i>	<i>07-Aug-2020 19:59</i>
<i>Surr: 2,4,6-Tribromophenol</i>	<i>0</i>	<i>JS</i>		<i>34-129</i>	<i>%REC</i>	<i>100</i>	<i>10-Aug-2020 17:48</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>0</i>	<i>JS</i>		<i>40-125</i>	<i>%REC</i>	<i>100</i>	<i>10-Aug-2020 17:48</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>61.1</i>			<i>40-125</i>	<i>%REC</i>	<i>1</i>	<i>07-Aug-2020 19:59</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>67.2</i>			<i>40-125</i>	<i>%REC</i>	<i>10</i>	<i>11-Aug-2020 13:26</i>
<i>Surr: 2-Fluorophenol</i>	<i>55.6</i>			<i>20-120</i>	<i>%REC</i>	<i>10</i>	<i>11-Aug-2020 13:26</i>
<i>Surr: 2-Fluorophenol</i>	<i>58.9</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>07-Aug-2020 19:59</i>
<i>Surr: 2-Fluorophenol</i>	<i>0</i>	<i>JS</i>		<i>20-120</i>	<i>%REC</i>	<i>100</i>	<i>10-Aug-2020 17:48</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>0</i>	<i>JS</i>		<i>40-135</i>	<i>%REC</i>	<i>100</i>	<i>10-Aug-2020 17:48</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>89.4</i>			<i>40-135</i>	<i>%REC</i>	<i>1</i>	<i>07-Aug-2020 19:59</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>90.6</i>			<i>40-135</i>	<i>%REC</i>	<i>10</i>	<i>11-Aug-2020 13:26</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW33BR-20200727
 Collection Date: 27-Jul-2020 15:55

ANALYTICAL REPORT
 WorkOrder:HS20071329
 Lab ID:HS20071329-09
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 30-Jul-2020		Analyst: ACN	
Surr: Nitrobenzene-d5	89.1			41-120	%REC	1	07-Aug-2020 19:59
Surr: Nitrobenzene-d5	0	JS		41-120	%REC	100	10-Aug-2020 17:48
Surr: Nitrobenzene-d5	102			41-120	%REC	10	11-Aug-2020 13:26
Surr: Phenol-d6	77.4			20-120	%REC	10	11-Aug-2020 13:26
Surr: Phenol-d6	0	JS		20-120	%REC	100	10-Aug-2020 17:48
Surr: Phenol-d6	71.8			20-120	%REC	1	07-Aug-2020 19:59
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 30-Jul-2020		Analyst: JC	
Arsenic	0.000565	J	0.000400	0.00200	mg/L	1	31-Jul-2020 13:57

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-FB09-20200727
 Collection Date: 27-Jul-2020 16:30

ANALYTICAL REPORT
 WorkOrder:HS20071329
 Lab ID:HS20071329-10
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MLL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	30-Jul-2020 15:58
Benzene	U		0.00020	0.0010	mg/L	1	30-Jul-2020 15:58
Chlorobenzene	U		0.00030	0.0010	mg/L	1	30-Jul-2020 15:58
Ethylbenzene	U		0.00030	0.0010	mg/L	1	30-Jul-2020 15:58
Methylene chloride	U		0.0010	0.0020	mg/L	1	30-Jul-2020 15:58
Toluene	U		0.00020	0.0010	mg/L	1	30-Jul-2020 15:58
Vinyl chloride	U		0.00020	0.0010	mg/L	1	30-Jul-2020 15:58
Xylenes, Total	U		0.00030	0.0010	mg/L	1	30-Jul-2020 15:58
<i>Surr: 1,2-Dichloroethane-d4</i>		<i>103</i>		<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>30-Jul-2020 15:58</i>
<i>Surr: 4-Bromofluorobenzene</i>		<i>98.8</i>		<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>30-Jul-2020 15:58</i>
<i>Surr: Dibromofluoromethane</i>		<i>101</i>		<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>30-Jul-2020 15:58</i>
<i>Surr: Toluene-d8</i>		<i>98.4</i>		<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>30-Jul-2020 15:58</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-FB09-20200727
 Collection Date: 27-Jul-2020 16:30

ANALYTICAL REPORT
 WorkOrder:HS20071329
 Lab ID:HS20071329-10
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D			Method:SW8270		Prep:SW3510 / 30-Jul-2020		Analyst: ACN
1,2-Diphenylhydrazine	0.00018	J	0.000021	0.00020	mg/L	1	07-Aug-2020 20:18
2,4-Dimethylphenol		U	0.000040	0.00020	mg/L	1	07-Aug-2020 20:18
2,4-Dinitrotoluene		U	0.000058	0.00020	mg/L	1	07-Aug-2020 20:18
2,6-Dinitrotoluene		U	0.000042	0.00020	mg/L	1	07-Aug-2020 20:18
2-Chloronaphthalene		U	0.000021	0.00020	mg/L	1	07-Aug-2020 20:18
2-Methylnaphthalene	0.000066	J	0.000019	0.00010	mg/L	1	07-Aug-2020 20:18
4,6-Dinitro-2-methylphenol		U	0.000020	0.00020	mg/L	1	07-Aug-2020 20:18
4-Nitrophenol		U	0.000047	0.0010	mg/L	1	07-Aug-2020 20:18
Acenaphthene		U	0.000027	0.00010	mg/L	1	07-Aug-2020 20:18
Acenaphthylene		U	0.000015	0.00010	mg/L	1	07-Aug-2020 20:18
Anthracene	0.00010		0.000014	0.00010	mg/L	1	07-Aug-2020 20:18
Benz(a)anthracene	0.00013		0.000050	0.00010	mg/L	1	07-Aug-2020 20:18
Benzo(a)pyrene	0.000060	J	0.000020	0.00010	mg/L	1	07-Aug-2020 20:18
Bis(2-chloroethoxy)methane		U	0.000030	0.00020	mg/L	1	07-Aug-2020 20:18
Bis(2-ethylhexyl)phthalate		U	0.000037	0.00020	mg/L	1	07-Aug-2020 20:18
Chrysene	0.00010		0.000021	0.00010	mg/L	1	07-Aug-2020 20:18
Dibenzofuran	0.000066	J	0.000020	0.00010	mg/L	1	07-Aug-2020 20:18
Di-n-butyl phthalate	0.000028	J	0.000020	0.00020	mg/L	1	07-Aug-2020 20:18
Fluoranthene	0.00035		0.000010	0.00010	mg/L	1	07-Aug-2020 20:18
Fluorene	0.000066	J	0.000030	0.00010	mg/L	1	07-Aug-2020 20:18
Naphthalene	0.00022		0.000020	0.00010	mg/L	1	07-Aug-2020 20:18
Nitrobenzene		U	0.000024	0.00020	mg/L	1	07-Aug-2020 20:18
N-Nitrosodiphenylamine		U	0.000025	0.00020	mg/L	1	07-Aug-2020 20:18
Pentachlorophenol		U	0.000079	0.00020	mg/L	1	07-Aug-2020 20:18
Phenanthrene	0.00032		0.000021	0.00010	mg/L	1	07-Aug-2020 20:18
Phenol		U	0.000035	0.00020	mg/L	1	07-Aug-2020 20:18
Pyrene	0.00025		0.000019	0.00010	mg/L	1	07-Aug-2020 20:18
Surr: 2,4,6-Tribromophenol	68.8			34-129	%REC	1	07-Aug-2020 20:18
Surr: 2-Fluorobiphenyl	65.5			40-125	%REC	1	07-Aug-2020 20:18
Surr: 2-Fluorophenol	53.3			20-120	%REC	1	07-Aug-2020 20:18
Surr: 4-Terphenyl-d14	92.0			40-135	%REC	1	07-Aug-2020 20:18
Surr: Nitrobenzene-d5	103			41-120	%REC	1	07-Aug-2020 20:18
Surr: Phenol-d6	66.7			20-120	%REC	1	07-Aug-2020 20:18
ICP-MS METALS BY SW6020A			Method:SW6020		Prep:SW3010A / 30-Jul-2020		Analyst: JC
Arsenic		U	0.000400	0.00200	mg/L	1	31-Jul-2020 13:59

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-DUP05-20200727
 Collection Date: 27-Jul-2020 00:00

ANALYTICAL REPORT
 WorkOrder:HS20071329
 Lab ID:HS20071329-11
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MLL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: PC			
1,2-Dichloroethane	U		0.0010	0.0050	mg/L	5	31-Jul-2020 02:26
Benzene	2.3		0.010	0.050	mg/L	50	31-Jul-2020 02:50
Chlorobenzene	U		0.0015	0.0050	mg/L	5	31-Jul-2020 02:26
Ethylbenzene	0.57		0.0015	0.0050	mg/L	5	31-Jul-2020 02:26
Methylene chloride	U		0.0050	0.010	mg/L	5	31-Jul-2020 23:30
Toluene	0.70		0.0010	0.0050	mg/L	5	31-Jul-2020 02:26
Xylenes, Total	1.5		0.0015	0.0050	mg/L	5	31-Jul-2020 02:26
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>106</i>			<i>70-126</i>	<i>%REC</i>	<i>5</i>	<i>31-Jul-2020 02:26</i>
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>106</i>			<i>70-126</i>	<i>%REC</i>	<i>50</i>	<i>31-Jul-2020 02:50</i>
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>88.4</i>			<i>70-126</i>	<i>%REC</i>	<i>5</i>	<i>31-Jul-2020 23:30</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>96.5</i>			<i>81-113</i>	<i>%REC</i>	<i>5</i>	<i>31-Jul-2020 02:26</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>95.9</i>			<i>81-113</i>	<i>%REC</i>	<i>50</i>	<i>31-Jul-2020 02:50</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>98.0</i>			<i>81-113</i>	<i>%REC</i>	<i>5</i>	<i>31-Jul-2020 23:30</i>
<i>Surr: Dibromofluoromethane</i>	<i>101</i>			<i>77-123</i>	<i>%REC</i>	<i>5</i>	<i>31-Jul-2020 02:26</i>
<i>Surr: Dibromofluoromethane</i>	<i>102</i>			<i>77-123</i>	<i>%REC</i>	<i>50</i>	<i>31-Jul-2020 02:50</i>
<i>Surr: Dibromofluoromethane</i>	<i>99.1</i>			<i>77-123</i>	<i>%REC</i>	<i>5</i>	<i>31-Jul-2020 23:30</i>
<i>Surr: Toluene-d8</i>	<i>104</i>			<i>82-127</i>	<i>%REC</i>	<i>5</i>	<i>31-Jul-2020 02:26</i>
<i>Surr: Toluene-d8</i>	<i>105</i>			<i>82-127</i>	<i>%REC</i>	<i>50</i>	<i>31-Jul-2020 02:50</i>
<i>Surr: Toluene-d8</i>	<i>99.5</i>			<i>82-127</i>	<i>%REC</i>	<i>5</i>	<i>31-Jul-2020 23:30</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-DUP05-20200727
 Collection Date: 27-Jul-2020 00:00

ANALYTICAL REPORT
 WorkOrder:HS20071329
 Lab ID:HS20071329-11
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 30-Jul-2020		Analyst: ACN	
1,2-Diphenylhydrazine	U		0.00021	0.0020	mg/L	10	11-Aug-2020 14:44
2,4-Dimethylphenol	0.025		0.00040	0.0020	mg/L	10	11-Aug-2020 14:44
2,4-Dinitrotoluene	U		0.00058	0.0020	mg/L	10	11-Aug-2020 14:44
2,6-Dinitrotoluene	U		0.00042	0.0020	mg/L	10	11-Aug-2020 14:44
2-Chloronaphthalene	U		0.00021	0.0020	mg/L	10	11-Aug-2020 14:44
2-Methylnaphthalene	0.63		0.0019	0.010	mg/L	100	10-Aug-2020 19:26
4,6-Dinitro-2-methylphenol	U		0.00020	0.0020	mg/L	10	11-Aug-2020 14:44
4-Nitrophenol	U		0.00047	0.010	mg/L	10	11-Aug-2020 14:44
Acenaphthene	0.23		0.0027	0.010	mg/L	100	10-Aug-2020 19:26
Acenaphthylene	0.0025		0.00015	0.0010	mg/L	10	11-Aug-2020 14:44
Anthracene	0.061		0.00014	0.0010	mg/L	10	11-Aug-2020 14:44
Benz(a)anthracene	0.015		0.00050	0.0010	mg/L	10	11-Aug-2020 14:44
Benzo(a)pyrene	0.0046		0.00020	0.0010	mg/L	10	11-Aug-2020 14:44
Bis(2-chloroethoxy)methane	U		0.00030	0.0020	mg/L	10	11-Aug-2020 14:44
Bis(2-ethylhexyl)phthalate	U		0.00037	0.0020	mg/L	10	11-Aug-2020 14:44
Chrysene	0.012		0.00021	0.0010	mg/L	10	11-Aug-2020 14:44
Dibenzofuran	0.27		0.0020	0.010	mg/L	100	10-Aug-2020 19:26
Di-n-butyl phthalate	U		0.00020	0.0020	mg/L	10	11-Aug-2020 14:44
Fluoranthene	0.11		0.0010	0.010	mg/L	100	10-Aug-2020 19:26
Fluorene	0.17		0.0030	0.010	mg/L	100	10-Aug-2020 19:26
Naphthalene	13		0.20	1.0	mg/L	10000	10-Aug-2020 20:05
Nitrobenzene	U		0.00024	0.0020	mg/L	10	11-Aug-2020 14:44
N-Nitrosodiphenylamine	U		0.00025	0.0020	mg/L	10	11-Aug-2020 14:44
Pentachlorophenol	U		0.00079	0.0020	mg/L	10	11-Aug-2020 14:44
Phenanthrene	0.39		0.0021	0.010	mg/L	100	10-Aug-2020 19:26
Phenol	U		0.00035	0.0020	mg/L	10	11-Aug-2020 14:44
Pyrene	0.065		0.00019	0.0010	mg/L	10	11-Aug-2020 14:44
Surr: 2,4,6-Tribromophenol	0	JS		34-129	%REC	100	10-Aug-2020 19:26
Surr: 2,4,6-Tribromophenol	0	JS		34-129	%REC	10000	10-Aug-2020 20:05
Surr: 2,4,6-Tribromophenol	88.8			34-129	%REC	10	11-Aug-2020 14:44
Surr: 2-Fluorobiphenyl	80.2			40-125	%REC	10	11-Aug-2020 14:44
Surr: 2-Fluorobiphenyl	0	JS		40-125	%REC	100	10-Aug-2020 19:26
Surr: 2-Fluorobiphenyl	0	JS		40-125	%REC	10000	10-Aug-2020 20:05
Surr: 2-Fluorophenol	0	JS		20-120	%REC	100	10-Aug-2020 19:26
Surr: 2-Fluorophenol	0	JS		20-120	%REC	10000	10-Aug-2020 20:05
Surr: 2-Fluorophenol	54.8			20-120	%REC	10	11-Aug-2020 14:44
Surr: 4-Terphenyl-d14	0	JS		40-135	%REC	100	10-Aug-2020 19:26
Surr: 4-Terphenyl-d14	0	JS		40-135	%REC	10000	10-Aug-2020 20:05
Surr: 4-Terphenyl-d14	102			40-135	%REC	10	11-Aug-2020 14:44

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-DUP05-20200727
 Collection Date: 27-Jul-2020 00:00

ANALYTICAL REPORT
 WorkOrder:HS20071329
 Lab ID:HS20071329-11
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 30-Jul-2020		Analyst: ACN	
Surr: Nitrobenzene-d5	55.9			41-120	%REC	10	11-Aug-2020 14:44
Surr: Nitrobenzene-d5	0	JS		41-120	%REC	100	10-Aug-2020 19:26
Surr: Nitrobenzene-d5	0	JS		41-120	%REC	10000	10-Aug-2020 20:05
Surr: Phenol-d6	0	JS		20-120	%REC	10000	10-Aug-2020 20:05
Surr: Phenol-d6	0	JS		20-120	%REC	100	10-Aug-2020 19:26
Surr: Phenol-d6	95.1			20-120	%REC	10	11-Aug-2020 14:44
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 30-Jul-2020		Analyst: JC	
Arsenic	0.0119		0.000400	0.00200	mg/L	1	31-Jul-2020 14:01

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW28C-20200728
 Collection Date: 28-Jul-2020 08:15

ANALYTICAL REPORT

WorkOrder:HS20071329
 Lab ID:HS20071329-12
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MLL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	30-Jul-2020 16:43
Benzene	U		0.00020	0.0010	mg/L	1	30-Jul-2020 16:43
Chlorobenzene	U		0.00030	0.0010	mg/L	1	30-Jul-2020 16:43
Ethylbenzene	U		0.00030	0.0010	mg/L	1	30-Jul-2020 16:43
Methylene chloride	U		0.0010	0.0020	mg/L	1	30-Jul-2020 16:43
Toluene	U		0.00020	0.0010	mg/L	1	30-Jul-2020 16:43
Vinyl chloride	U		0.00020	0.0010	mg/L	1	30-Jul-2020 16:43
Xylenes, Total	U		0.00030	0.0010	mg/L	1	30-Jul-2020 16:43
<i>Surr: 1,2-Dichloroethane-d4</i>		103		70-126	%REC	1	30-Jul-2020 16:43
<i>Surr: 4-Bromofluorobenzene</i>		99.0		81-113	%REC	1	30-Jul-2020 16:43
<i>Surr: Dibromofluoromethane</i>		99.7		77-123	%REC	1	30-Jul-2020 16:43
<i>Surr: Toluene-d8</i>		99.0		82-127	%REC	1	30-Jul-2020 16:43

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW28C-20200728
 Collection Date: 28-Jul-2020 08:15

ANALYTICAL REPORT
 WorkOrder:HS20071329
 Lab ID:HS20071329-12
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 30-Jul-2020		Analyst: ACN	
1,2-Diphenylhydrazine	U		0.000021	0.00020	mg/L	1	07-Aug-2020 16:44
2,4-Dimethylphenol	U		0.000040	0.00020	mg/L	1	07-Aug-2020 16:44
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	07-Aug-2020 16:44
2,6-Dinitrotoluene	U		0.000042	0.00020	mg/L	1	07-Aug-2020 16:44
2-Chloronaphthalene	U		0.000021	0.00020	mg/L	1	07-Aug-2020 16:44
2-Methylnaphthalene	0.00012		0.000019	0.00010	mg/L	1	07-Aug-2020 16:44
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	07-Aug-2020 16:44
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	07-Aug-2020 16:44
Acenaphthene	0.000074	J	0.000027	0.00010	mg/L	1	07-Aug-2020 16:44
Acenaphthylene	U		0.000015	0.00010	mg/L	1	07-Aug-2020 16:44
Anthracene	0.00010		0.000014	0.00010	mg/L	1	07-Aug-2020 16:44
Benz(a)anthracene	0.00013		0.000050	0.00010	mg/L	1	07-Aug-2020 16:44
Benzo(a)pyrene	U		0.000020	0.00010	mg/L	1	07-Aug-2020 16:44
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	07-Aug-2020 16:44
Bis(2-ethylhexyl)phthalate	0.00064		0.000037	0.00020	mg/L	1	07-Aug-2020 16:44
Chrysene	0.00014		0.000021	0.00010	mg/L	1	07-Aug-2020 16:44
Dibenzofuran	0.000086	J	0.000020	0.00010	mg/L	1	07-Aug-2020 16:44
Di-n-butyl phthalate	0.00025		0.000020	0.00020	mg/L	1	07-Aug-2020 16:44
Fluoranthene	0.00063		0.000010	0.00010	mg/L	1	07-Aug-2020 16:44
Fluorene	0.000091	J	0.000030	0.00010	mg/L	1	07-Aug-2020 16:44
Naphthalene	0.00053		0.000020	0.00010	mg/L	1	07-Aug-2020 16:44
Nitrobenzene	U		0.000024	0.00020	mg/L	1	07-Aug-2020 16:44
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	07-Aug-2020 16:44
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	07-Aug-2020 16:44
Phenanthrene	0.00056		0.000021	0.00010	mg/L	1	07-Aug-2020 16:44
Phenol	U		0.000035	0.00020	mg/L	1	07-Aug-2020 16:44
Pyrene	0.00044		0.000019	0.00010	mg/L	1	07-Aug-2020 16:44
<i>Surr: 2,4,6-Tribromophenol</i>	82.7			34-129	%REC	1	07-Aug-2020 16:44
<i>Surr: 2-Fluorobiphenyl</i>	59.6			40-125	%REC	1	07-Aug-2020 16:44
<i>Surr: 2-Fluorophenol</i>	53.7			20-120	%REC	1	07-Aug-2020 16:44
<i>Surr: 4-Terphenyl-d14</i>	96.9			40-135	%REC	1	07-Aug-2020 16:44
<i>Surr: Nitrobenzene-d5</i>	88.7			41-120	%REC	1	07-Aug-2020 16:44
<i>Surr: Phenol-d6</i>	65.6			20-120	%REC	1	07-Aug-2020 16:44
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 30-Jul-2020		Analyst: JC	
Arsenic	0.00121	J	0.000400	0.00200	mg/L	1	31-Jul-2020 13:26

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW36B-20200728
 Collection Date: 28-Jul-2020 10:00

ANALYTICAL REPORT
 WorkOrder:HS20071329
 Lab ID:HS20071329-13
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MLL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: PC			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	31-Jul-2020 05:14
Benzene	U		0.00020	0.0010	mg/L	1	31-Jul-2020 05:14
Chlorobenzene	U		0.00030	0.0010	mg/L	1	31-Jul-2020 05:14
Ethylbenzene	U		0.00030	0.0010	mg/L	1	31-Jul-2020 05:14
Methylene chloride	U		0.0010	0.0020	mg/L	1	31-Jul-2020 05:14
Toluene	U		0.00020	0.0010	mg/L	1	31-Jul-2020 05:14
Vinyl chloride	U		0.00020	0.0010	mg/L	1	31-Jul-2020 05:14
Xylenes, Total	U		0.00030	0.0010	mg/L	1	31-Jul-2020 05:14
<i>Surr: 1,2-Dichloroethane-d4</i>		<i>104</i>		<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 05:14</i>
<i>Surr: 4-Bromofluorobenzene</i>		<i>96.0</i>		<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 05:14</i>
<i>Surr: Dibromofluoromethane</i>		<i>103</i>		<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 05:14</i>
<i>Surr: Toluene-d8</i>		<i>106</i>		<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 05:14</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW36B-20200728
 Collection Date: 28-Jul-2020 10:00

ANALYTICAL REPORT
 WorkOrder:HS20071329
 Lab ID:HS20071329-13
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 30-Jul-2020		Analyst: ACN	
1,2-Diphenylhydrazine		U	0.000021	0.00020	mg/L	1	07-Aug-2020 20:57
2,4-Dimethylphenol		U	0.000040	0.00020	mg/L	1	07-Aug-2020 20:57
2,4-Dinitrotoluene		U	0.000058	0.00020	mg/L	1	07-Aug-2020 20:57
2,6-Dinitrotoluene		U	0.000042	0.00020	mg/L	1	07-Aug-2020 20:57
2-Chloronaphthalene		U	0.000021	0.00020	mg/L	1	07-Aug-2020 20:57
2-Methylnaphthalene	0.0011		0.000019	0.00010	mg/L	1	07-Aug-2020 20:57
4,6-Dinitro-2-methylphenol		U	0.000020	0.00020	mg/L	1	07-Aug-2020 20:57
4-Nitrophenol		U	0.000047	0.0010	mg/L	1	07-Aug-2020 20:57
Acenaphthene	0.00034		0.000027	0.00010	mg/L	1	07-Aug-2020 20:57
Acenaphthylene		U	0.000015	0.00010	mg/L	1	07-Aug-2020 20:57
Anthracene	0.00034		0.000014	0.00010	mg/L	1	07-Aug-2020 20:57
Benz(a)anthracene	0.00015		0.000050	0.00010	mg/L	1	07-Aug-2020 20:57
Benzo(a)pyrene	0.000071	J	0.000020	0.00010	mg/L	1	07-Aug-2020 20:57
Bis(2-chloroethoxy)methane		U	0.000030	0.00020	mg/L	1	07-Aug-2020 20:57
Bis(2-ethylhexyl)phthalate	0.00013	J	0.000037	0.00020	mg/L	1	07-Aug-2020 20:57
Chrysene	0.00014		0.000021	0.00010	mg/L	1	07-Aug-2020 20:57
Dibenzofuran	0.00040		0.000020	0.00010	mg/L	1	07-Aug-2020 20:57
Di-n-butyl phthalate	0.000042	J	0.000020	0.00020	mg/L	1	07-Aug-2020 20:57
Fluoranthene	0.00081		0.000010	0.00010	mg/L	1	07-Aug-2020 20:57
Fluorene	0.00026		0.000030	0.00010	mg/L	1	07-Aug-2020 20:57
Naphthalene	0.0100		0.000020	0.00010	mg/L	1	07-Aug-2020 20:57
Nitrobenzene		U	0.000024	0.00020	mg/L	1	07-Aug-2020 20:57
N-Nitrosodiphenylamine		U	0.000025	0.00020	mg/L	1	07-Aug-2020 20:57
Pentachlorophenol		U	0.000079	0.00020	mg/L	1	07-Aug-2020 20:57
Phenanthrene	0.0012		0.000021	0.00010	mg/L	1	07-Aug-2020 20:57
Phenol	0.00012	J	0.000035	0.00020	mg/L	1	07-Aug-2020 20:57
Pyrene	0.00049		0.000019	0.00010	mg/L	1	07-Aug-2020 20:57
<i>Surr: 2,4,6-Tribromophenol</i>	<i>84.8</i>			<i>34-129</i>	<i>%REC</i>	<i>1</i>	<i>07-Aug-2020 20:57</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>64.4</i>			<i>40-125</i>	<i>%REC</i>	<i>1</i>	<i>07-Aug-2020 20:57</i>
<i>Surr: 2-Fluorophenol</i>	<i>51.7</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>07-Aug-2020 20:57</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>97.1</i>			<i>40-135</i>	<i>%REC</i>	<i>1</i>	<i>07-Aug-2020 20:57</i>
<i>Surr: Nitrobenzene-d5</i>	<i>96.9</i>			<i>41-120</i>	<i>%REC</i>	<i>1</i>	<i>07-Aug-2020 20:57</i>
<i>Surr: Phenol-d6</i>	<i>66.9</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>07-Aug-2020 20:57</i>
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 30-Jul-2020		Analyst: JC	
Arsenic	0.000923	J	0.000400	0.00200	mg/L	1	31-Jul-2020 14:22

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW36A-20200728
 Collection Date: 28-Jul-2020 11:10

ANALYTICAL REPORT
 WorkOrder:HS20071329
 Lab ID:HS20071329-14
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MLL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: PC			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	31-Jul-2020 05:38
Benzene	U		0.00020	0.0010	mg/L	1	31-Jul-2020 05:38
Chlorobenzene	U		0.00030	0.0010	mg/L	1	31-Jul-2020 05:38
Ethylbenzene	U		0.00030	0.0010	mg/L	1	31-Jul-2020 05:38
Methylene chloride	U		0.0010	0.0020	mg/L	1	31-Jul-2020 05:38
Toluene	U		0.00020	0.0010	mg/L	1	31-Jul-2020 05:38
Vinyl chloride	U		0.00020	0.0010	mg/L	1	31-Jul-2020 05:38
Xylenes, Total	U		0.00030	0.0010	mg/L	1	31-Jul-2020 05:38
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>105</i>			<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 05:38</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>95.1</i>			<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 05:38</i>
<i>Surr: Dibromofluoromethane</i>	<i>102</i>			<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 05:38</i>
<i>Surr: Toluene-d8</i>	<i>107</i>			<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 05:38</i>
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 30-Jul-2020		Analyst: JC	
Arsenic	0.0112		0.000400	0.00200	mg/L	1	31-Jul-2020 14:24

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW44C-20200728
 Collection Date: 28-Jul-2020 12:05

ANALYTICAL REPORT
 WorkOrder:HS20071329
 Lab ID:HS20071329-15
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	31-Jul-2020 19:25
Benzene	U		0.00020	0.0010	mg/L	1	31-Jul-2020 19:25
Chlorobenzene	U		0.00030	0.0010	mg/L	1	31-Jul-2020 19:25
Ethylbenzene	0.024		0.00030	0.0010	mg/L	1	31-Jul-2020 19:25
Methylene chloride	U		0.0010	0.0020	mg/L	1	31-Jul-2020 19:25
Toluene	0.0099		0.00020	0.0010	mg/L	1	31-Jul-2020 19:25
Xylenes, Total	0.055		0.00030	0.0010	mg/L	1	31-Jul-2020 19:25
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>94.8</i>			<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 19:25</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>98.8</i>			<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 19:25</i>
<i>Surr: Dibromofluoromethane</i>	<i>99.9</i>			<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 19:25</i>
<i>Surr: Toluene-d8</i>	<i>100</i>			<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 19:25</i>
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 30-Jul-2020		Analyst: JC	
Arsenic	0.00752		0.000400	0.00200	mg/L	1	31-Jul-2020 14:26

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW34CR-20200728
 Collection Date: 28-Jul-2020 13:05

ANALYTICAL REPORT
 WorkOrder:HS20071329
 Lab ID:HS20071329-16
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane		U	0.00020	0.0010	mg/L	1	31-Jul-2020 19:50
Benzene	0.0013		0.00020	0.0010	mg/L	1	31-Jul-2020 19:50
Chlorobenzene		U	0.00030	0.0010	mg/L	1	31-Jul-2020 19:50
Ethylbenzene	0.00098	J	0.00030	0.0010	mg/L	1	31-Jul-2020 19:50
Methylene chloride		U	0.0010	0.0020	mg/L	1	31-Jul-2020 19:50
Toluene	0.00086	J	0.00020	0.0010	mg/L	1	31-Jul-2020 19:50
Xylenes, Total	0.00070	J	0.00030	0.0010	mg/L	1	31-Jul-2020 19:50
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>93.8</i>			<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 19:50</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>98.2</i>			<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 19:50</i>
<i>Surr: Dibromofluoromethane</i>	<i>101</i>			<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 19:50</i>
<i>Surr: Toluene-d8</i>	<i>101</i>			<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 19:50</i>
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 30-Jul-2020		Analyst: JC	
Arsenic		U	0.000400	0.00200	mg/L	1	31-Jul-2020 14:28

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW33A-20200728
 Collection Date: 28-Jul-2020 14:10

ANALYTICAL REPORT
 WorkOrder:HS20071329
 Lab ID:HS20071329-17
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	31-Jul-2020 20:15
Benzene	U		0.00020	0.0010	mg/L	1	31-Jul-2020 20:15
Chlorobenzene	U		0.00030	0.0010	mg/L	1	31-Jul-2020 20:15
Ethylbenzene	U		0.00030	0.0010	mg/L	1	31-Jul-2020 20:15
Methylene chloride	U		0.0010	0.0020	mg/L	1	31-Jul-2020 20:15
Toluene	U		0.00020	0.0010	mg/L	1	31-Jul-2020 20:15
Xylenes, Total	U		0.00030	0.0010	mg/L	1	31-Jul-2020 20:15
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>94.8</i>			<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 20:15</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>97.5</i>			<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 20:15</i>
<i>Surr: Dibromofluoromethane</i>	<i>99.8</i>			<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 20:15</i>
<i>Surr: Toluene-d8</i>	<i>101</i>			<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 20:15</i>
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 30-Jul-2020		Analyst: JC	
Arsenic	0.00119	J	0.000400	0.00200	mg/L	1	31-Jul-2020 14:30

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW70C-20200728
 Collection Date: 28-Jul-2020 15:05

ANALYTICAL REPORT
 WorkOrder:HS20071329
 Lab ID:HS20071329-18
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane		U	0.00020	0.0010	mg/L	1	31-Jul-2020 20:39
Benzene	0.021		0.00020	0.0010	mg/L	1	31-Jul-2020 20:39
Chlorobenzene		U	0.00030	0.0010	mg/L	1	31-Jul-2020 20:39
Ethylbenzene	0.11		0.00030	0.0010	mg/L	1	31-Jul-2020 20:39
Methylene chloride		U	0.0010	0.0020	mg/L	1	31-Jul-2020 20:39
Toluene	0.056		0.00020	0.0010	mg/L	1	31-Jul-2020 20:39
Xylenes, Total	0.11		0.00030	0.0010	mg/L	1	31-Jul-2020 20:39
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>94.4</i>			<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 20:39</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>99.3</i>			<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 20:39</i>
<i>Surr: Dibromofluoromethane</i>	<i>99.6</i>			<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 20:39</i>
<i>Surr: Toluene-d8</i>	<i>99.8</i>			<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 20:39</i>
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 30-Jul-2020		Analyst: JC	
Arsenic	0.00579		0.000400	0.00200	mg/L	1	31-Jul-2020 14:32

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-DUP06-20200728
 Collection Date: 28-Jul-2020 00:00

ANALYTICAL REPORT
 WorkOrder:HS20071329
 Lab ID:HS20071329-19
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	SQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	31-Jul-2020 21:04
Benzene	U		0.00020	0.0010	mg/L	1	31-Jul-2020 21:04
Chlorobenzene	U		0.00030	0.0010	mg/L	1	31-Jul-2020 21:04
Ethylbenzene	U		0.00030	0.0010	mg/L	1	31-Jul-2020 21:04
Methylene chloride	U		0.0010	0.0020	mg/L	1	31-Jul-2020 21:04
Toluene	U		0.00020	0.0010	mg/L	1	31-Jul-2020 21:04
Xylenes, Total	U		0.00030	0.0010	mg/L	1	31-Jul-2020 21:04
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>94.1</i>			<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 21:04</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>98.7</i>			<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 21:04</i>
<i>Surr: Dibromofluoromethane</i>	<i>100.0</i>			<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 21:04</i>
<i>Surr: Toluene-d8</i>	<i>99.9</i>			<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 21:04</i>
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 30-Jul-2020		Analyst: JC	
Arsenic	0.00125	J	0.000400	0.00200	mg/L	1	31-Jul-2020 14:34

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-FB10-20200728
 Collection Date: 28-Jul-2020 15:30

ANALYTICAL REPORT
 WorkOrder:HS20071329
 Lab ID:HS20071329-20
 Matrix:Water

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	31-Jul-2020 21:28
Benzene	U		0.00020	0.0010	mg/L	1	31-Jul-2020 21:28
Chlorobenzene	U		0.00030	0.0010	mg/L	1	31-Jul-2020 21:28
Ethylbenzene	U		0.00030	0.0010	mg/L	1	31-Jul-2020 21:28
Methylene chloride	U		0.0010	0.0020	mg/L	1	31-Jul-2020 21:28
Toluene	U		0.00020	0.0010	mg/L	1	31-Jul-2020 21:28
Vinyl chloride	U		0.00020	0.0010	mg/L	1	31-Jul-2020 21:28
Xylenes, Total	U		0.00030	0.0010	mg/L	1	31-Jul-2020 21:28
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>94.0</i>			<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 21:28</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>98.3</i>			<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 21:28</i>
<i>Surr: Dibromofluoromethane</i>	<i>100</i>			<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 21:28</i>
<i>Surr: Toluene-d8</i>	<i>101</i>			<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>31-Jul-2020 21:28</i>
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 30-Jul-2020		Analyst: JC	
Arsenic	U		0.000400	0.00200	mg/L	1	31-Jul-2020 14:36

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Weight / Prep Log

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071329

Batch ID: 155905 **Start Date:** 30 Jul 2020 11:00 **End Date:** 30 Jul 2020 15:00
Method: WATER - SW3010A **Prep Code:** 3010A

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS20071329-02		10 (mL)	10 (mL)	1
HS20071329-03		10 (mL)	10 (mL)	1
HS20071329-04		10 (mL)	10 (mL)	1
HS20071329-05		10 (mL)	10 (mL)	1
HS20071329-06		10 (mL)	10 (mL)	1
HS20071329-07		10 (mL)	10 (mL)	1
HS20071329-08		10 (mL)	10 (mL)	1
HS20071329-09		10 (mL)	10 (mL)	1
HS20071329-10		10 (mL)	10 (mL)	1
HS20071329-11		10 (mL)	10 (mL)	1
HS20071329-12		10 (mL)	10 (mL)	1
HS20071329-13		10 (mL)	10 (mL)	1
HS20071329-14		10 (mL)	10 (mL)	1
HS20071329-15		10 (mL)	10 (mL)	1
HS20071329-16		10 (mL)	10 (mL)	1
HS20071329-17		10 (mL)	10 (mL)	1
HS20071329-18		10 (mL)	10 (mL)	1
HS20071329-19		10 (mL)	10 (mL)	1
HS20071329-20		10 (mL)	10 (mL)	1

Batch ID: 155909 **Start Date:** 30 Jul 2020 07:00 **End Date:** 30 Jul 2020 12:30
Method: SV AQ SEP FUN EXTRACT-LOWLEV - 3510C **Prep Code:** 3510_B_LOW

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS20071329-02	1	1000 (mL)	1 (mL)	0.001
HS20071329-03	1	1000 (mL)	1 (mL)	0.001
HS20071329-04	1	1000 (mL)	1 (mL)	0.001
HS20071329-05	1	1000 (mL)	1 (mL)	0.001
HS20071329-06	1	1000 (mL)	1 (mL)	0.001
HS20071329-07	1	1000 (mL)	1 (mL)	0.001
HS20071329-08	1	1000 (mL)	10 (mL)	0.01
HS20071329-09	1	1000 (mL)	1 (mL)	0.001
HS20071329-10	1	1000 (mL)	1 (mL)	0.001
HS20071329-11	1	1000 (mL)	1 (mL)	0.001
HS20071329-12	1	1000 (mL)	1 (mL)	0.001
HS20071329-13	1	1000 (mL)	1 (mL)	0.001

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071329

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 155905 (0)		Test Name : ICP-MS METALS BY SW6020A			Matrix: Water	
HS20071329-20	WG-1620-FB10-20200728	28 Jul 2020 15:30		30 Jul 2020 15:00	31 Jul 2020 14:36	1
Batch ID: 155905 (0)		Test Name : ICP-MS METALS BY SW6020A			Matrix: Groundwater	
HS20071329-02	WG-1620-MW84A-20200727	27 Jul 2020 08:55		30 Jul 2020 15:00	31 Jul 2020 13:34	1
HS20071329-03	WG-1620-MW84B-20200727	27 Jul 2020 09:50		30 Jul 2020 15:00	31 Jul 2020 13:45	1
HS20071329-04	WG-1620-MW26A-20200727	27 Jul 2020 10:55		30 Jul 2020 15:00	31 Jul 2020 13:47	1
HS20071329-05	WG-1620-MW68A-20200727	27 Jul 2020 11:50		30 Jul 2020 15:00	31 Jul 2020 13:49	1
HS20071329-06	WG-1620-MW68B-20200727	27 Jul 2020 12:45		30 Jul 2020 15:00	31 Jul 2020 13:51	1
HS20071329-07	WG-1620-MW68C-20200727	27 Jul 2020 13:50		30 Jul 2020 15:00	31 Jul 2020 13:53	1
HS20071329-08	WG-1620-MW32B-20200727	27 Jul 2020 14:50		30 Jul 2020 15:00	31 Jul 2020 15:13	1
HS20071329-09	WG-1620-MW33BR-20200727	27 Jul 2020 15:55		30 Jul 2020 15:00	31 Jul 2020 13:57	1
HS20071329-10	WG-1620-FB09-20200727	27 Jul 2020 16:30		30 Jul 2020 15:00	31 Jul 2020 13:59	1
HS20071329-11	WG-1620-DUP05-20200727	27 Jul 2020 00:00		30 Jul 2020 15:00	31 Jul 2020 14:01	1
HS20071329-12	WG-1620-MW28C-20200728	28 Jul 2020 08:15		30 Jul 2020 15:00	31 Jul 2020 13:26	1
HS20071329-13	WG-1620-MW36B-20200728	28 Jul 2020 10:00		30 Jul 2020 15:00	31 Jul 2020 14:22	1
HS20071329-14	WG-1620-MW36A-20200728	28 Jul 2020 11:10		30 Jul 2020 15:00	31 Jul 2020 14:24	1
HS20071329-15	WG-1620-MW44C-20200728	28 Jul 2020 12:05		30 Jul 2020 15:00	31 Jul 2020 14:26	1
HS20071329-16	WG-1620-MW34CR-20200728	28 Jul 2020 13:05		30 Jul 2020 15:00	31 Jul 2020 14:28	1
HS20071329-17	WG-1620-MW33A-20200728	28 Jul 2020 14:10		30 Jul 2020 15:00	31 Jul 2020 14:30	1
HS20071329-18	WG-1620-MW70C-20200728	28 Jul 2020 15:05		30 Jul 2020 15:00	31 Jul 2020 14:32	1
HS20071329-19	WG-1620-DUP06-20200728	28 Jul 2020 00:00		30 Jul 2020 15:00	31 Jul 2020 14:34	1

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071329

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 155909 (0)		Test Name : LOW-LEVEL SEMIVOLATILES BY 8270D			Matrix: Groundwater	
HS20071329-02	WG-1620-MW84A-20200727	27 Jul 2020 08:55		30 Jul 2020 07:00	07 Aug 2020 18:02	1
HS20071329-03	WG-1620-MW84B-20200727	27 Jul 2020 09:50		30 Jul 2020 07:00	11 Aug 2020 13:06	10
HS20071329-03	WG-1620-MW84B-20200727	27 Jul 2020 09:50		30 Jul 2020 07:00	07 Aug 2020 18:21	1
HS20071329-04	WG-1620-MW26A-20200727	27 Jul 2020 10:55		30 Jul 2020 07:00	07 Aug 2020 18:41	1
HS20071329-05	WG-1620-MW68A-20200727	27 Jul 2020 11:50		30 Jul 2020 07:00	07 Aug 2020 19:00	1
HS20071329-06	WG-1620-MW68B-20200727	27 Jul 2020 12:45		30 Jul 2020 07:00	11 Aug 2020 15:23	100
HS20071329-06	WG-1620-MW68B-20200727	27 Jul 2020 12:45		30 Jul 2020 07:00	11 Aug 2020 15:43	1000
HS20071329-06	WG-1620-MW68B-20200727	27 Jul 2020 12:45		30 Jul 2020 07:00	11 Aug 2020 13:45	10
HS20071329-06	WG-1620-MW68B-20200727	27 Jul 2020 12:45		30 Jul 2020 07:00	10 Aug 2020 19:06	1000 0
HS20071329-07	WG-1620-MW68C-20200727	27 Jul 2020 13:50		30 Jul 2020 07:00	07 Aug 2020 19:39	1
HS20071329-08	WG-1620-MW32B-20200727	27 Jul 2020 14:50		30 Jul 2020 07:00	11 Aug 2020 15:03	1000 00
HS20071329-08	WG-1620-MW32B-20200727	27 Jul 2020 14:50		30 Jul 2020 07:00	11 Aug 2020 14:24	1000 0
HS20071329-08	WG-1620-MW32B-20200727	27 Jul 2020 14:50		30 Jul 2020 07:00	10 Aug 2020 21:03	1000
HS20071329-08	WG-1620-MW32B-20200727	27 Jul 2020 14:50		30 Jul 2020 07:00	10 Aug 2020 20:44	100
HS20071329-09	WG-1620-MW33BR-20200727	27 Jul 2020 15:55		30 Jul 2020 07:00	11 Aug 2020 13:26	10
HS20071329-09	WG-1620-MW33BR-20200727	27 Jul 2020 15:55		30 Jul 2020 07:00	10 Aug 2020 17:48	100
HS20071329-09	WG-1620-MW33BR-20200727	27 Jul 2020 15:55		30 Jul 2020 07:00	07 Aug 2020 19:59	1
HS20071329-10	WG-1620-FB09-20200727	27 Jul 2020 16:30		30 Jul 2020 07:00	07 Aug 2020 20:18	1
HS20071329-11	WG-1620-DUP05-20200727	27 Jul 2020 00:00		30 Jul 2020 07:00	11 Aug 2020 14:44	10
HS20071329-11	WG-1620-DUP05-20200727	27 Jul 2020 00:00		30 Jul 2020 07:00	10 Aug 2020 20:05	1000 0
HS20071329-11	WG-1620-DUP05-20200727	27 Jul 2020 00:00		30 Jul 2020 07:00	10 Aug 2020 19:26	100
HS20071329-12	WG-1620-MW28C-20200728	28 Jul 2020 08:15		30 Jul 2020 07:00	07 Aug 2020 16:44	1
HS20071329-13	WG-1620-MW36B-20200728	28 Jul 2020 10:00		30 Jul 2020 07:00	07 Aug 2020 20:57	1
Batch ID: R365977 (0)		Test Name : LOW LEVEL VOLATILES BY SW8260C			Matrix: Groundwater	
HS20071329-06	WG-1620-MW68B-20200727	27 Jul 2020 12:45			31 Jul 2020 02:02	50
HS20071329-06	WG-1620-MW68B-20200727	27 Jul 2020 12:45			31 Jul 2020 01:38	5
HS20071329-08	WG-1620-MW32B-20200727	27 Jul 2020 14:50			31 Jul 2020 03:14	100
HS20071329-11	WG-1620-DUP05-20200727	27 Jul 2020 00:00			31 Jul 2020 02:50	50
HS20071329-11	WG-1620-DUP05-20200727	27 Jul 2020 00:00			31 Jul 2020 02:26	5
HS20071329-13	WG-1620-MW36B-20200728	28 Jul 2020 10:00			31 Jul 2020 05:14	1
HS20071329-14	WG-1620-MW36A-20200728	28 Jul 2020 11:10			31 Jul 2020 05:38	1

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071329

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: R366009 (0)		Test Name : LOW LEVEL VOLATILES BY SW8260C			Matrix: Groundwater	
HS20071329-02	WG-1620-MW84A-20200727	27 Jul 2020 08:55			30 Jul 2020 14:28	1
HS20071329-03	WG-1620-MW84B-20200727	27 Jul 2020 09:50			30 Jul 2020 14:50	1
HS20071329-04	WG-1620-MW26A-20200727	27 Jul 2020 10:55			30 Jul 2020 15:13	1
HS20071329-05	WG-1620-MW68A-20200727	27 Jul 2020 11:50			30 Jul 2020 15:35	1
HS20071329-07	WG-1620-MW68C-20200727	27 Jul 2020 13:50			30 Jul 2020 16:20	1
HS20071329-09	WG-1620-MW33BR- 20200727	27 Jul 2020 15:55			30 Jul 2020 19:19	1
HS20071329-10	WG-1620-FB09-20200727	27 Jul 2020 16:30			30 Jul 2020 15:58	1
HS20071329-12	WG-1620-MW28C-20200728	28 Jul 2020 08:15			30 Jul 2020 16:43	1
Batch ID: R366044 (0)		Test Name : LOW LEVEL VOLATILES BY SW8260C			Matrix: Water	
HS20071329-20	WG-1620-FB10-20200728	28 Jul 2020 15:30			31 Jul 2020 21:28	1
Batch ID: R366044 (0)		Test Name : LOW LEVEL VOLATILES BY SW8260C			Matrix: Groundwater	
HS20071329-06	WG-1620-MW68B-20200727	27 Jul 2020 12:45			31 Jul 2020 23:05	5
HS20071329-08	WG-1620-MW32B-20200727	27 Jul 2020 14:50			01 Aug 2020 01:06	100
HS20071329-11	WG-1620-DUP05-20200727	27 Jul 2020 00:00			31 Jul 2020 23:30	5
HS20071329-15	WG-1620-MW44C-20200728	28 Jul 2020 12:05			31 Jul 2020 19:25	1
HS20071329-16	WG-1620-MW34CR- 20200728	28 Jul 2020 13:05			31 Jul 2020 19:50	1
HS20071329-17	WG-1620-MW33A-20200728	28 Jul 2020 14:10			31 Jul 2020 20:15	1
HS20071329-18	WG-1620-MW70C-20200728	28 Jul 2020 15:05			31 Jul 2020 20:39	1
HS20071329-19	WG-1620-DUP06-20200728	28 Jul 2020 00:00			31 Jul 2020 21:04	1
Batch ID: R366116 (0)		Test Name : LOW LEVEL VOLATILES BY SW8260C			Matrix: Water	
HS20071329-01	WQ-1620-TB06-20200728	28 Jul 2020 07:15			04 Aug 2020 02:11	1

WorkOrder: HS20071329
InstrumentID: ICPMS04
Test Code: ICP_TW
Test Number: SW6020
Test Name: ICP-MS Metals by SW6020A

**METHOD DETECTION /
REPORTING LIMITS**

Matrix: Aqueous **Units:** mg/L

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	Arsenic	7440-38-2	0.00100	0.00110	0.000400	0.00200

WorkOrder: HS20071329
 InstrumentID: SV-6
 Test Code: 8270_LOW_W
 Test Number: SW8270
 Test Name: Low-Level Semivolatiles by 8270D

**METHOD DETECTION /
 REPORTING LIMITS**

Matrix: Aqueous **Units:** mg/L

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	1,2-Diphenylhydrazine	122-66-7	0.00010	0.000074	0.000021	0.00020
A	2,4-Dimethylphenol	105-67-9	0.00010	0.000077	0.000040	0.00020
A	2,4-Dinitrotoluene	121-14-2	0.00010	0.000065	0.000058	0.00020
A	2,6-Dinitrotoluene	606-20-2	0.00010	0.000074	0.000042	0.00020
A	2-Chloronaphthalene	91-58-7	0.00010	0.000093	0.000021	0.00020
A	2-Methylnaphthalene	91-57-6	0.000050	0.000035	0.000019	0.00010
A	4,6-Dinitro-2-methylphenol	534-52-1	0.00010	0.000037	0.000020	0.00020
A	4-Nitrophenol	100-02-7	0.00010	0.000024	0.000047	0.0010
A	Acenaphthene	83-32-9	0.000050	0.000043	0.000027	0.00010
A	Acenaphthylene	208-96-8	0.000050	0.000039	0.000015	0.00010
A	Anthracene	120-12-7	0.000050	0.000037	0.000014	0.00010
A	Benz(a)anthracene	56-55-3	0.000050	0.000029	0.000050	0.00010
A	Benzo(a)pyrene	50-32-8	0.000050	0.000030	0.000020	0.00010
A	Bis(2-chloroethoxy)methane	111-91-1	0.00010	0.000091	0.000030	0.00020
A	Bis(2-ethylhexyl)phthalate	117-81-7	0.00010	0.000036	0.000037	0.00020
A	Chrysene	218-01-9	0.000050	0.000044	0.000021	0.00010
A	Dibenzofuran	132-64-9	0.000050	0.000038	0.000020	0.00010
A	Di-n-butyl phthalate	84-74-2	0.00010	0.000071	0.000020	0.00020
A	Fluoranthene	206-44-0	0.000050	0.000036	0.000010	0.00010
A	Fluorene	86-73-7	0.000050	0.000039	0.000030	0.00010
A	Naphthalene	91-20-3	0.000050	0.000042	0.000020	0.00010
A	Nitrobenzene	98-95-3	0.00010	0.00011	0.000024	0.00020
A	N-Nitrosodiphenylamine	86-30-6	0.00010	0.000084	0.000025	0.00020
A	Pentachlorophenol	87-86-5	0.00010	0.000040	0.000079	0.00020
A	Phenanthrene	85-01-8	0.000050	0.000040	0.000021	0.00010
A	Phenol	108-95-2	0.00010	0.000083	0.000035	0.00020
A	Pyrene	129-00-0	0.000050	0.000043	0.000019	0.00010
S	2,4,6-Tribromophenol	118-79-6	0	0	0	0.00020
S	2-Fluorobiphenyl	321-60-8	0	0	0	0.00020
S	2-Fluorophenol	367-12-4	0	0	0	0.00020
S	4-Terphenyl-d14	1718-51-0	0	0	0	0.00020
S	Nitrobenzene-d5	4165-60-0	0	0	0	0.00020
S	Phenol-d6	13127-88-3	0	0	0	0.00020

WorkOrder: HS20071329
 InstrumentID: VOA2
 Test Code: 8260_LL_W
 Test Number: SW8260
 Test Name: Low Level Volatiles by SW8260C

**METHOD DETECTION /
 REPORTING LIMITS**

Matrix: Aqueous

Units: mg/L

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	1,2-Dichloroethane	107-06-2	0.00050	0.00063	0.00020	0.0010
A	Benzene	71-43-2	0.00050	0.00052	0.00020	0.0010
A	Chlorobenzene	108-90-7	0.0010	0.0011	0.00030	0.0010
A	Ethylbenzene	100-41-4	0.0010	0.0011	0.00030	0.0010
A	Methylene chloride	75-09-2	0.0020	0.00081	0.0010	0.0020
A	Toluene	108-88-3	0.00050	0.00056	0.00020	0.0010
A	Vinyl chloride	75-01-4	0.00050	0.00035	0.00020	0.0010
A	Xylenes, Total	1330-20-7	0.0010	0.0032	0.00030	0.0010
S	1,2-Dichloroethane-d4	17060-07-0	0	0	0	0.0010
S	4-Bromofluorobenzene	460-00-4	0	0	0	0.0010
S	Dibromofluoromethane	1868-53-7	0	0	0	0.0010
S	Toluene-d8	2037-26-5	0	0	0	0.0010

WorkOrder: HS20071329
 InstrumentID: VOA4
 Test Code: 8260_LL_W
 Test Number: SW8260
 Test Name: Low Level Volatiles by SW8260C

**METHOD DETECTION /
 REPORTING LIMITS**

Matrix: Aqueous

Units: mg/L

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	1,2-Dichloroethane	107-06-2	0.00050	0.00056	0.00020	0.0010
A	Benzene	71-43-2	0.00050	0.00052	0.00020	0.0010
A	Chlorobenzene	108-90-7	0.0010	0.00097	0.00030	0.0010
A	Ethylbenzene	100-41-4	0.0010	0.00070	0.00030	0.0010
A	Methylene chloride	75-09-2	0.0020	0.00062	0.0010	0.0020
A	Toluene	108-88-3	0.00050	0.00060	0.00020	0.0010
A	Vinyl chloride	75-01-4	0.00050	0.00046	0.00020	0.0010
A	Xylenes, Total	1330-20-7	0.0010	0.0024	0.00030	0.0010
S	1,2-Dichloroethane-d4	17060-07-0	0	0	0	0.0010
S	4-Bromofluorobenzene	460-00-4	0	0	0	0.0010
S	Dibromofluoromethane	1868-53-7	0	0	0	0.0010
S	Toluene-d8	2037-26-5	0	0	0	0.0010

WorkOrder: HS20071329
 InstrumentID: VOA6
 Test Code: 8260_LL_W
 Test Number: SW8260
 Test Name: Low Level Volatiles by SW8260C

**METHOD DETECTION /
 REPORTING LIMITS**

Matrix: Aqueous

Units: mg/L

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	1,2-Dichloroethane	107-06-2	0.00050	0.00062	0.00020	0.0010
A	Benzene	71-43-2	0.00050	0.00045	0.00020	0.0010
A	Chlorobenzene	108-90-7	0.0010	0.0011	0.00030	0.0010
A	Ethylbenzene	100-41-4	0.0010	0.0010	0.00030	0.0010
A	Methylene chloride	75-09-2	0.0020	0.0016	0.0010	0.0020
A	Toluene	108-88-3	0.00050	0.00050	0.00020	0.0010
A	Vinyl chloride	75-01-4	0.00050	0.00045	0.00020	0.0010
A	Xylenes, Total	1330-20-7	0.0010	0.0035	0.00030	0.0010
S	1,2-Dichloroethane-d4	17060-07-0	0	0	0	0.0010
S	4-Bromofluorobenzene	460-00-4	0	0	0	0.0010
S	Dibromofluoromethane	1868-53-7	0	0	0	0.0010
S	Toluene-d8	2037-26-5	0	0	0	0.0010

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071329

QC BATCH REPORT

Batch ID: 155905 (0)		Instrument: ICPMS04		Method: ICP-MS METALS BY SW6020A					
MBLK	Sample ID: MBLK-155905	Units: mg/L		Analysis Date: 31-Jul-2020 13:20					
Client ID:	Run ID: ICPMS04_365994	SeqNo: 5681498	PrepDate: 30-Jul-2020	DF: 1					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Arsenic U 0.00200

LCS	Sample ID: LCS-155905	Units: mg/L		Analysis Date: 31-Jul-2020 13:22					
Client ID:	Run ID: ICPMS04_365994	SeqNo: 5681499	PrepDate: 30-Jul-2020	DF: 1					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Arsenic 0.04757 0.00200 0.05 0 95.1 80 - 120

MS	Sample ID: HS20071329-12MS	Units: mg/L		Analysis Date: 31-Jul-2020 13:28					
Client ID: WG-1620-MW28C-20200728	Run ID: ICPMS04_365994	SeqNo: 5681502	PrepDate: 30-Jul-2020	DF: 1					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Arsenic 0.05035 0.00200 0.05 0.001212 98.3 80 - 120

MSD	Sample ID: HS20071329-12MSD	Units: mg/L		Analysis Date: 31-Jul-2020 13:30					
Client ID: WG-1620-MW28C-20200728	Run ID: ICPMS04_365994	SeqNo: 5681503	PrepDate: 30-Jul-2020	DF: 1					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Arsenic 0.05435 0.00200 0.05 0.001212 106 80 - 120 0.05035 7.65 20

PDS	Sample ID: HS20071329-12PDS	Units: mg/L		Analysis Date: 31-Jul-2020 13:32					
Client ID: WG-1620-MW28C-20200728	Run ID: ICPMS04_365994	SeqNo: 5681504	PrepDate: 30-Jul-2020	DF: 1					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual

Arsenic 0.1069 0.00200 0.1 0.001212 106 75 - 125

SD	Sample ID: HS20071329-12SD	Units: mg/L		Analysis Date: 31-Jul-2020 13:24					
Client ID: WG-1620-MW28C-20200728	Run ID: ICPMS04_365994	SeqNo: 5681500	PrepDate: 30-Jul-2020	DF: 5					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	RPD Limit Qual

Arsenic U 0.0100 0.001212 0 10

The following samples were analyzed in this batch:	HS20071329-02	HS20071329-03	HS20071329-04	HS20071329-05
	HS20071329-06	HS20071329-07	HS20071329-08	HS20071329-09
	HS20071329-10	HS20071329-11	HS20071329-12	HS20071329-13
	HS20071329-14	HS20071329-15	HS20071329-16	HS20071329-17
	HS20071329-18	HS20071329-19	HS20071329-20	

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071329

QC BATCH REPORT

Batch ID: 155909 (0)		Instrument: SV-6		Method: LOW-LEVEL SEMIVOLATILES BY 8270D						
MBLK	Sample ID: MBLK-155909	Units: ug/L			Analysis Date: 07-Aug-2020 16:05					
Client ID:	Run ID: SV-6_366391	SeqNo: 5694133		PrepDate: 30-Jul-2020		DF: 1				
Analyte	Result	MLQ	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
1,2-Diphenylhydrazine	U	0.20								
2,4-Dimethylphenol	U	0.20								
2,4-Dinitrotoluene	U	0.20								
2,6-Dinitrotoluene	U	0.20								
2-Chloronaphthalene	U	0.20								
2-Methylnaphthalene	U	0.10								
4,6-Dinitro-2-methylphenol	U	0.20								
4-Nitrophenol	U	1.0								
Acenaphthene	U	0.10								
Acenaphthylene	U	0.10								
Anthracene	U	0.10								
Benz(a)anthracene	U	0.10								
Benzo(a)pyrene	U	0.10								
Bis(2-chloroethoxy)methane	U	0.20								
Bis(2-ethylhexyl)phthalate	U	0.20								
Chrysene	U	0.10								
Dibenzofuran	U	0.10								
Di-n-butyl phthalate	U	0.20								
Fluoranthene	U	0.10								
Fluorene	U	0.10								
Naphthalene	U	0.10								
Nitrobenzene	U	0.20								
N-Nitrosodiphenylamine	U	0.20								
Pentachlorophenol	U	0.20								
Phenanthrene	U	0.10								
Phenol	U	0.20								
Pyrene	U	0.10								
<i>Surr: 2,4,6-Tribromophenol</i>	<i>4.208</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>84.2</i>	<i>34 - 129</i>				
<i>Surr: 2-Fluorobiphenyl</i>	<i>3.981</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>79.6</i>	<i>40 - 125</i>				
<i>Surr: 2-Fluorophenol</i>	<i>3.425</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>68.5</i>	<i>20 - 120</i>				
<i>Surr: 4-Terphenyl-d14</i>	<i>5.179</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>104</i>	<i>40 - 135</i>				
<i>Surr: Nitrobenzene-d5</i>	<i>4.513</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>90.3</i>	<i>41 - 120</i>				
<i>Surr: Phenol-d6</i>	<i>4.544</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>90.9</i>	<i>20 - 120</i>				

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071329

QC BATCH REPORT

Batch ID: 155909 (0)		Instrument: SV-6		Method: LOW-LEVEL SEMIVOLATILES BY 8270D						
LCS	Sample ID: LCS-155909	Units: ug/L			Analysis Date: 07-Aug-2020 16:24					
Client ID:	Run ID: SV-6_366391	SeqNo: 5694134	PrepDate: 30-Jul-2020	DF: 1						
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Diphenylhydrazine	3.995	0.20	5	0	79.9	39 - 127				
2,4-Dimethylphenol	3.855	0.20	5	0	77.1	35 - 120				
2,4-Dinitrotoluene	4.185	0.20	5	0	83.7	50 - 122				
2,6-Dinitrotoluene	4.261	0.20	5	0	85.2	50 - 120				
2-Chloronaphthalene	4.143	0.20	5	0	82.9	50 - 120				
2-Methylnaphthalene	4.073	0.10	5	0	81.5	50 - 120				
4,6-Dinitro-2-methylphenol	2.579	0.20	5	0	51.6	25 - 121				
4-Nitrophenol	5.698	1.0	5	0	114	30 - 130				
Acenaphthene	3.731	0.10	5	0	74.6	45 - 120				
Acenaphthylene	3.677	0.10	5	0	73.5	47 - 120				
Anthracene	4.019	0.10	5	0	80.4	45 - 120				
Benz(a)anthracene	4.697	0.10	5	0	93.9	40 - 120				
Benzo(a)pyrene	4.909	0.10	5	0	98.2	45 - 120				
Bis(2-chloroethoxy)methane	4.214	0.20	5	0	84.3	45 - 120				
Bis(2-ethylhexyl)phthalate	4.374	0.20	5	0	87.5	40 - 139				
Chrysene	4.328	0.10	5	0	86.6	43 - 120				
Dibenzofuran	3.834	0.10	5	0	76.7	50 - 120				
Di-n-butyl phthalate	4.473	0.20	5	0	89.5	45 - 123				
Fluoranthene	4.499	0.10	5	0	90.0	45 - 125				
Fluorene	3.991	0.10	5	0	79.8	49 - 120				
Naphthalene	3.873	0.10	5	0	77.5	45 - 120				
Nitrobenzene	4.974	0.20	5	0	99.5	44 - 120				
N-Nitrosodiphenylamine	3.83	0.20	5	0	76.6	40 - 125				
Pentachlorophenol	3.966	0.20	5	0	79.3	19 - 121				
Phenanthrene	4.1	0.10	5	0	82.0	45 - 121				
Phenol	3.361	0.20	5	0	67.2	20 - 124				
Pyrene	4.784	0.10	5	0	95.7	40 - 130				
Surr: 2,4,6-Tribromophenol	5.277	0.20	5	0	106	34 - 129				
Surr: 2-Fluorobiphenyl	4.67	0.20	5	0	93.4	40 - 125				
Surr: 2-Fluorophenol	3.909	0.20	5	0	78.2	20 - 120				
Surr: 4-Terphenyl-d14	6.077	0.20	5	0	122	40 - 135				
Surr: Nitrobenzene-d5	4.074	0.20	5	0	81.5	41 - 120				
Surr: Phenol-d6	5.1	0.20	5	0	102	20 - 120				

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071329

QC BATCH REPORT

Batch ID: 155909 (0)		Instrument: SV-6		Method: LOW-LEVEL SEMIVOLATILES BY 8270D						
MS		Sample ID: HS20071329-12MS		Units: ug/L		Analysis Date: 07-Aug-2020 17:03				
Client ID: WG-1620-MW28C-20200728		Run ID: SV-6_366391		SeqNo: 5694136		PrepDate: 30-Jul-2020		DF: 1		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Diphenylhydrazine	2.95	0.20	5	0	59.0	39 - 127				
2,4-Dimethylphenol	2.24	0.20	5	0	44.8	35 - 120				
2,4-Dinitrotoluene	3.49	0.20	5	0	69.8	50 - 122				
2,6-Dinitrotoluene	3.209	0.20	5	0	64.2	50 - 120				
2-Chloronaphthalene	3.107	0.20	5	0	62.1	50 - 120				
2-Methylnaphthalene	2.863	0.10	5	0.1168	54.9	50 - 120				
4,6-Dinitro-2-methylphenol	1.972	0.20	5	0	39.4	25 - 121				
4-Nitrophenol	5.187	1.0	5	0	104	30 - 130				
Acenaphthene	2.588	0.10	5	0.07372	50.3	45 - 120				
Acenaphthylene	2.569	0.10	5	0	51.4	47 - 120				
Anthracene	3.318	0.10	5	0.1043	64.3	45 - 120				
Benz(a)anthracene	4.14	0.10	5	0.1349	80.1	40 - 120				
Benzo(a)pyrene	3.859	0.10	5	0	77.2	45 - 120				
Bis(2-chloroethoxy)methane	2.96	0.20	5	0	59.2	45 - 120				
Bis(2-ethylhexyl)phthalate	4.58	0.20	5	0.6409	78.8	40 - 139				
Chrysene	3.882	0.10	5	0.1366	74.9	43 - 120				
Dibenzofuran	2.637	0.10	5	0.08588	51.0	50 - 120				
Di-n-butyl phthalate	4.15	0.20	5	0.2474	78.1	45 - 123				
Fluoranthene	4.617	0.10	5	0.6269	79.8	45 - 125				
Fluorene	2.899	0.10	5	0.09137	56.2	49 - 120				
Naphthalene	3.223	0.10	5	0.5341	53.8	45 - 120				
Nitrobenzene	3.49	0.20	5	0	69.8	44 - 120				
N-Nitrosodiphenylamine	3.162	0.20	5	0	63.2	40 - 125				
Pentachlorophenol	3.873	0.20	5	0	77.5	19 - 121				
Phenanthrene	4.04	0.10	5	0.5614	69.6	45 - 121				
Phenol	3.077	0.20	5	0	61.5	20 - 124				
Pyrene	4.609	0.10	5	0.4403	83.4	40 - 130				
<i>Surr: 2,4,6-Tribromophenol</i>	<i>4.459</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>89.2</i>	<i>34 - 129</i>				
<i>Surr: 2-Fluorobiphenyl</i>	<i>2.982</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>59.6</i>	<i>40 - 125</i>				
<i>Surr: 2-Fluorophenol</i>	<i>2.415</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>48.3</i>	<i>20 - 120</i>				
<i>Surr: 4-Terphenyl-d14</i>	<i>4.86</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>97.2</i>	<i>40 - 135</i>				
<i>Surr: Nitrobenzene-d5</i>	<i>4.683</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>93.7</i>	<i>41 - 120</i>				
<i>Surr: Phenol-d6</i>	<i>3.397</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>67.9</i>	<i>20 - 120</i>				

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071329

QC BATCH REPORT

Batch ID: 155909 (0)		Instrument: SV-6		Method: LOW-LEVEL SEMIVOLATILES BY 8270D						
MSD		Sample ID: HS20071329-12MSD			Units: ug/L		Analysis Date: 07-Aug-2020 17:42			
Client ID: WG-1620-MW28C-20200728		Run ID: SV-6_366391			SeqNo: 5694137		PrepDate: 30-Jul-2020		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Diphenylhydrazine	3.454	0.20	5	0	69.1	39 - 127	2.95	15.8	20	
2,4-Dimethylphenol	2.305	0.20	5	0	46.1	35 - 120	2.24	2.87	20	
2,4-Dinitrotoluene	3.724	0.20	5	0	74.5	50 - 122	3.49	6.48	20	
2,6-Dinitrotoluene	3.711	0.20	5	0	74.2	50 - 120	3.209	14.5	20	
2-Chloronaphthalene	3.025	0.20	5	0	60.5	50 - 120	3.107	2.71	20	
2-Methylnaphthalene	3.166	0.10	5	0.1168	61.0	50 - 120	2.863	10	20	
4,6-Dinitro-2-methylphenol	2.54	0.20	5	0	50.8	25 - 121	1.972	25.2	30	
4-Nitrophenol	5.815	1.0	5	0	116	30 - 130	5.187	11.4	20	
Acenaphthene	2.924	0.10	5	0.07372	57.0	45 - 120	2.588	12.2	20	
Acenaphthylene	2.82	0.10	5	0	56.4	47 - 120	2.569	9.34	20	
Anthracene	3.75	0.10	5	0.1043	72.9	45 - 120	3.318	12.2	20	
Benz(a)anthracene	4.406	0.10	5	0.1349	85.4	40 - 120	4.14	6.23	20	
Benzo(a)pyrene	4.173	0.10	5	0	83.5	45 - 120	3.859	7.82	20	
Bis(2-chloroethoxy)methane	3.224	0.20	5	0	64.5	45 - 120	2.96	8.55	20	
Bis(2-ethylhexyl)phthalate	4.714	0.20	5	0.6409	81.5	40 - 139	4.58	2.88	20	
Chrysene	4.135	0.10	5	0.1366	80.0	43 - 120	3.882	6.33	20	
Dibenzofuran	3.124	0.10	5	0.08588	60.8	50 - 120	2.637	16.9	20	
Di-n-butyl phthalate	4.234	0.20	5	0.2474	79.7	45 - 123	4.15	2.01	20	
Fluoranthene	5.021	0.10	5	0.6269	87.9	45 - 125	4.617	8.39	20	
Fluorene	3.275	0.10	5	0.09137	63.7	49 - 120	2.899	12.2	20	
Naphthalene	3.573	0.10	5	0.5341	60.8	45 - 120	3.223	10.3	20	
Nitrobenzene	3.71	0.20	5	0	74.2	44 - 120	3.49	6.11	20	
N-Nitrosodiphenylamine	3.541	0.20	5	0	70.8	40 - 125	3.162	11.3	20	
Pentachlorophenol	3.401	0.20	5	0	68.0	19 - 121	3.873	13	20	
Phenanthrene	4.549	0.10	5	0.5614	79.8	45 - 121	4.04	11.9	20	
Phenol	3.344	0.20	5	0	66.9	20 - 124	3.077	8.32	20	
Pyrene	4.838	0.10	5	0.4403	88.0	40 - 130	4.609	4.85	20	
<i>Surr: 2,4,6-Tribromophenol</i>	<i>4.645</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>92.9</i>	<i>34 - 129</i>	<i>4.459</i>	<i>4.08</i>	<i>20</i>	
<i>Surr: 2-Fluorobiphenyl</i>	<i>3.27</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>65.4</i>	<i>40 - 125</i>	<i>2.982</i>	<i>9.23</i>	<i>20</i>	
<i>Surr: 2-Fluorophenol</i>	<i>2.607</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>52.1</i>	<i>20 - 120</i>	<i>2.415</i>	<i>7.65</i>	<i>20</i>	
<i>Surr: 4-Terphenyl-d14</i>	<i>4.996</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>99.9</i>	<i>40 - 135</i>	<i>4.86</i>	<i>2.74</i>	<i>20</i>	
<i>Surr: Nitrobenzene-d5</i>	<i>4.726</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>94.5</i>	<i>41 - 120</i>	<i>4.683</i>	<i>0.907</i>	<i>20</i>	
<i>Surr: Phenol-d6</i>	<i>3.543</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>70.9</i>	<i>20 - 120</i>	<i>3.397</i>	<i>4.22</i>	<i>20</i>	

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071329

QC BATCH REPORT

Batch ID: 155909 (0)	Instrument: SV-6	Method: LOW-LEVEL SEMIVOLATILES BY 8270D
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The following samples were analyzed in this batch:

HS20071329-02	HS20071329-03	HS20071329-04	HS20071329-05
HS20071329-06	HS20071329-07	HS20071329-08	HS20071329-09
HS20071329-10	HS20071329-11	HS20071329-12	HS20071329-13

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071329

QC BATCH REPORT

Batch ID: R365977 (0)		Instrument: VOA6		Method: LOW LEVEL VOLATILES BY SW8260C					
MBLK	Sample ID: VBLKW-200730	Units: ug/L			Analysis Date: 31-Jul-2020 00:50				
Client ID:	Run ID: VOA6_365977	SeqNo: 5681175		PrepDate:		DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

1,2-Dichloroethane	U	1.0							
Benzene	U	1.0							
Chlorobenzene	U	1.0							
Ethylbenzene	U	1.0							
Methylene chloride	U	2.0							
Toluene	U	1.0							
Vinyl chloride	U	1.0							
Xylenes, Total	U	1.0							
<i>Surr: 1,2-Dichloroethane-d4</i>	52.92	1.0	50	0	106	70 - 123			
<i>Surr: 4-Bromofluorobenzene</i>	47.93	1.0	50	0	95.9	82 - 115			
<i>Surr: Dibromofluoromethane</i>	51.08	1.0	50	0	102	73 - 126			
<i>Surr: Toluene-d8</i>	53.36	1.0	50	0	107	81 - 120			

LCS	Sample ID: VLCSW-200730	Units: ug/L			Analysis Date: 31-Jul-2020 00:01				
Client ID:	Run ID: VOA6_365977	SeqNo: 5681174		PrepDate:		DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
1,2-Dichloroethane	21.77	1.0	20	0	109	70 - 124			
Benzene	20.37	1.0	20	0	102	74 - 120			
Chlorobenzene	18.41	1.0	20	0	92.0	76 - 113			
Ethylbenzene	18.71	1.0	20	0	93.6	77 - 117			
Methylene chloride	30.89	2.0	20	0	154	70 - 127			S
Toluene	19.48	1.0	20	0	97.4	77 - 118			
Vinyl chloride	19.72	1.0	20	0	98.6	70 - 130			
Xylenes, Total	53.53	1.0	60	0	89.2	75 - 122			
<i>Surr: 1,2-Dichloroethane-d4</i>	54	1.0	50	0	108	70 - 130			
<i>Surr: 4-Bromofluorobenzene</i>	43.78	1.0	50	0	87.6	82 - 115			
<i>Surr: Dibromofluoromethane</i>	50.22	1.0	50	0	100	73 - 126			
<i>Surr: Toluene-d8</i>	43.3	1.0	50	0	86.6	81 - 120			

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071329

QC BATCH REPORT

Batch ID: R365977 (0)		Instrument: VOA6		Method: LOW LEVEL VOLATILES BY SW8260C						
MS		Sample ID: HS20071359-01MS		Units: ug/L		Analysis Date: 31-Jul-2020 04:02				
Client ID:		Run ID: VOA6_365977		SeqNo: 5681183		PrepDate:		DF: 1		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Dichloroethane	26.94	1.0	20	0	135	70 - 127				S
Benzene	24.5	1.0	20	0	122	70 - 127				
Chlorobenzene	22.96	1.0	20	0	115	70 - 114				S
Ethylbenzene	22.8	1.0	20	0	114	70 - 124				
Methylene chloride	25.41	2.0	20	0	127	70 - 128				
Toluene	24.39	1.0	20	0	122	70 - 123				
Vinyl chloride	23.88	1.0	20	0	119	70 - 130				
Xylenes, Total	69.61	1.0	60	0	116	70 - 130				
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>54.22</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>108</i>	<i>70 - 126</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>49.38</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>98.8</i>	<i>81 - 113</i>				
<i>Surr: Dibromofluoromethane</i>	<i>51.73</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>103</i>	<i>77 - 123</i>				
<i>Surr: Toluene-d8</i>	<i>51.95</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>104</i>	<i>82 - 127</i>				

MSD		Sample ID: HS20071359-01MSD		Units: ug/L		Analysis Date: 31-Jul-2020 04:26				
Client ID:		Run ID: VOA6_365977		SeqNo: 5681184		PrepDate:		DF: 1		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Dichloroethane	27.03	1.0	20	0	135	70 - 127	26.94	0.33	20	S
Benzene	23.27	1.0	20	0	116	70 - 127	24.5	5.14	20	
Chlorobenzene	22.27	1.0	20	0	111	70 - 114	22.96	3.05	20	
Ethylbenzene	22.76	1.0	20	0	114	70 - 124	22.8	0.179	20	
Methylene chloride	24.68	2.0	20	0	123	70 - 128	25.41	2.92	20	
Toluene	23.75	1.0	20	0	119	70 - 123	24.39	2.66	20	
Vinyl chloride	23.15	1.0	20	0	116	70 - 130	23.88	3.12	20	
Xylenes, Total	67	1.0	60	0	112	70 - 130	69.61	3.83	20	
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>51.02</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>102</i>	<i>70 - 126</i>	<i>54.22</i>	<i>6.08</i>	<i>20</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>48.3</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>96.6</i>	<i>81 - 113</i>	<i>49.38</i>	<i>2.21</i>	<i>20</i>	
<i>Surr: Dibromofluoromethane</i>	<i>51.73</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>103</i>	<i>77 - 123</i>	<i>51.73</i>	<i>0.0187</i>	<i>20</i>	
<i>Surr: Toluene-d8</i>	<i>51.45</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>103</i>	<i>82 - 127</i>	<i>51.95</i>	<i>0.981</i>	<i>20</i>	

The following samples were analyzed in this batch: HS20071329-06 HS20071329-08 HS20071329-11 HS20071329-13
 HS20071329-14

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071329

QC BATCH REPORT

Batch ID: R366009 (0)		Instrument: VOA4		Method: LOW LEVEL VOLATILES BY SW8260C					
MBLK	Sample ID: VBLKW-200730	Units: ug/L			Analysis Date: 30-Jul-2020 11:09				
Client ID:	Run ID: VOA4_366009	SeqNo: 5681690		PrepDate:		DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

1,2-Dichloroethane	U	1.0							
Benzene	U	1.0							
Chlorobenzene	U	1.0							
Ethylbenzene	U	1.0							
Methylene chloride	U	2.0							
Toluene	U	1.0							
Vinyl chloride	U	1.0							
Xylenes, Total	U	1.0							
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>49.59</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>99.2</i>	<i>70 - 123</i>			
<i>Surr: 4-Bromofluorobenzene</i>	<i>49.15</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>98.3</i>	<i>82 - 115</i>			
<i>Surr: Dibromofluoromethane</i>	<i>50</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>100</i>	<i>73 - 126</i>			
<i>Surr: Toluene-d8</i>	<i>50.06</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>100</i>	<i>81 - 120</i>			

LCS	Sample ID: VLCSW-200730	Units: ug/L			Analysis Date: 30-Jul-2020 10:24				
Client ID:	Run ID: VOA4_366009	SeqNo: 5681689		PrepDate:		DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

1,2-Dichloroethane	19.2	1.0	20	0	96.0	70 - 124			
Benzene	21.4	1.0	20	0	107	74 - 120			
Chlorobenzene	21.56	1.0	20	0	108	76 - 113			
Ethylbenzene	22.68	1.0	20	0	113	77 - 117			
Methylene chloride	21.43	2.0	20	0	107	70 - 127			
Toluene	21.51	1.0	20	0	108	77 - 118			
Vinyl chloride	22.56	1.0	20	0	113	70 - 130			
Xylenes, Total	70.15	1.0	60	0	117	75 - 122			
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>47.63</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>95.3</i>	<i>70 - 130</i>			
<i>Surr: 4-Bromofluorobenzene</i>	<i>49.45</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>98.9</i>	<i>82 - 115</i>			
<i>Surr: Dibromofluoromethane</i>	<i>48.48</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>97.0</i>	<i>73 - 126</i>			
<i>Surr: Toluene-d8</i>	<i>49.59</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>99.2</i>	<i>81 - 120</i>			

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071329

QC BATCH REPORT

Batch ID: R366009 (0) **Instrument:** VOA4 **Method:** LOW LEVEL VOLATILES BY SW8260C

MS		Sample ID: HS20071329-12MS			Units: ug/L		Analysis Date: 30-Jul-2020 17:05			
Client ID: WG-1620-MW28C-20200728		Run ID: VOA4_366009			SeqNo: 5681706		PrepDate:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Dichloroethane	20.09	1.0	20	0	100	70 - 127				
Benzene	21.71	1.0	20	0	109	70 - 127				
Chlorobenzene	21.25	1.0	20	0	106	70 - 114				
Ethylbenzene	22.49	1.0	20	0	112	70 - 124				
Methylene chloride	19.75	2.0	20	0	98.7	70 - 128				
Toluene	21.39	1.0	20	0	107	70 - 123				
Vinyl chloride	21.66	1.0	20	0	108	70 - 130				
Xylenes, Total	68.36	1.0	60	0	114	70 - 130				
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>48.31</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>96.6</i>	<i>70 - 126</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>49.46</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>98.9</i>	<i>81 - 113</i>				
<i>Surr: Dibromofluoromethane</i>	<i>49.56</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>99.1</i>	<i>77 - 123</i>				
<i>Surr: Toluene-d8</i>	<i>49.53</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>99.1</i>	<i>82 - 127</i>				

MSD		Sample ID: HS20071329-12MSD			Units: ug/L		Analysis Date: 30-Jul-2020 17:27			
Client ID: WG-1620-MW28C-20200728		Run ID: VOA4_366009			SeqNo: 5681707		PrepDate:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Dichloroethane	19.78	1.0	20	0	98.9	70 - 127	20.09	1.57	20	
Benzene	21.21	1.0	20	0	106	70 - 127	21.71	2.32	20	
Chlorobenzene	21.24	1.0	20	0	106	70 - 114	21.25	0.0321	20	
Ethylbenzene	22.58	1.0	20	0	113	70 - 124	22.49	0.412	20	
Methylene chloride	19.81	2.0	20	0	99.1	70 - 128	19.75	0.328	20	
Toluene	21.12	1.0	20	0	106	70 - 123	21.39	1.27	20	
Vinyl chloride	20.99	1.0	20	0	105	70 - 130	21.66	3.17	20	
Xylenes, Total	68	1.0	60	0	113	70 - 130	68.36	0.519	20	
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>48.25</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>96.5</i>	<i>70 - 126</i>	<i>48.31</i>	<i>0.14</i>	<i>20</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>50.8</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>102</i>	<i>81 - 113</i>	<i>49.46</i>	<i>2.66</i>	<i>20</i>	
<i>Surr: Dibromofluoromethane</i>	<i>49.14</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>98.3</i>	<i>77 - 123</i>	<i>49.56</i>	<i>0.852</i>	<i>20</i>	
<i>Surr: Toluene-d8</i>	<i>49.79</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>99.6</i>	<i>82 - 127</i>	<i>49.53</i>	<i>0.538</i>	<i>20</i>	

The following samples were analyzed in this batch:

HS20071329-02	HS20071329-03	HS20071329-04	HS20071329-05
HS20071329-07	HS20071329-09	HS20071329-10	HS20071329-12

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071329

QC BATCH REPORT

Batch ID: R366044 (0)		Instrument: VOA2		Method: LOW LEVEL VOLATILES BY SW8260C					
MBLK	Sample ID: VBLKW-200731	Units: ug/L			Analysis Date: 31-Jul-2020 17:20				
Client ID:	Run ID: VOA2_366044	SeqNo: 5682667		PrepDate:		DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

1,2-Dichloroethane	U	1.0							
Benzene	U	1.0							
Chlorobenzene	U	1.0							
Ethylbenzene	U	1.0							
Methylene chloride	U	2.0							
Toluene	U	1.0							
Vinyl chloride	U	1.0							
Xylenes, Total	U	1.0							
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>46.87</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>93.7</i>	<i>70 - 123</i>			
<i>Surr: 4-Bromofluorobenzene</i>	<i>49.08</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>98.2</i>	<i>82 - 115</i>			
<i>Surr: Dibromofluoromethane</i>	<i>50.03</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>100</i>	<i>73 - 126</i>			
<i>Surr: Toluene-d8</i>	<i>50.75</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>101</i>	<i>81 - 120</i>			

LCS	Sample ID: VLCSW-200731	Units: ug/L			Analysis Date: 31-Jul-2020 16:30				
Client ID:	Run ID: VOA2_366044	SeqNo: 5682666		PrepDate:		DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
1,2-Dichloroethane	17.71	1.0	20	0	88.5	70 - 124			
Benzene	18.88	1.0	20	0	94.4	74 - 120			
Chlorobenzene	18.68	1.0	20	0	93.4	76 - 113			
Ethylbenzene	18.93	1.0	20	0	94.7	77 - 117			
Methylene chloride	36.77	2.0	20	0	184	70 - 127			S
Toluene	19.24	1.0	20	0	96.2	77 - 118			
Vinyl chloride	21.35	1.0	20	0	107	70 - 130			
Xylenes, Total	57.26	1.0	60	0	95.4	75 - 122			
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>49.32</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>98.6</i>	<i>70 - 130</i>			
<i>Surr: 4-Bromofluorobenzene</i>	<i>48.72</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>97.4</i>	<i>82 - 115</i>			
<i>Surr: Dibromofluoromethane</i>	<i>49.14</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>98.3</i>	<i>73 - 126</i>			
<i>Surr: Toluene-d8</i>	<i>50.57</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>101</i>	<i>81 - 120</i>			

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071329

QC BATCH REPORT

Batch ID: R366044 (0) **Instrument:** VOA2 **Method:** LOW LEVEL VOLATILES BY SW8260C

MS		Sample ID: HS20071356-01MS			Units: ug/L		Analysis Date: 31-Jul-2020 18:11			
Client ID:		Run ID: VOA2_366044			SeqNo: 5682669		PrepDate:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Dichloroethane	18.41	1.0	20	0	92.0	70 - 127				
Benzene	20.74	1.0	20	0	104	70 - 127				
Chlorobenzene	20.39	1.0	20	0	102	70 - 114				
Ethylbenzene	20.78	1.0	20	0	104	70 - 124				
Methylene chloride	23.33	2.0	20	0	117	70 - 128				
Toluene	21.38	1.0	20	0	107	70 - 123				
Vinyl chloride	22.41	1.0	20	0	112	70 - 130				
Xylenes, Total	63.33	1.0	60	0	106	70 - 130				
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>49.13</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>98.3</i>	<i>70 - 126</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>48.7</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>97.4</i>	<i>81 - 113</i>				
<i>Surr: Dibromofluoromethane</i>	<i>48.6</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>97.2</i>	<i>77 - 123</i>				
<i>Surr: Toluene-d8</i>	<i>50.49</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>101</i>	<i>82 - 127</i>				

MSD		Sample ID: HS20071356-01MSD			Units: ug/L		Analysis Date: 31-Jul-2020 18:36			
Client ID:		Run ID: VOA2_366044			SeqNo: 5682670		PrepDate:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Dichloroethane	18.56	1.0	20	0	92.8	70 - 127	18.41	0.797	20	
Benzene	20.83	1.0	20	0	104	70 - 127	20.74	0.461	20	
Chlorobenzene	19.61	1.0	20	0	98.1	70 - 114	20.39	3.89	20	
Ethylbenzene	20.36	1.0	20	0	102	70 - 124	20.78	2.01	20	
Methylene chloride	23.89	2.0	20	0	119	70 - 128	23.33	2.38	20	
Toluene	20.9	1.0	20	0	104	70 - 123	21.38	2.31	20	
Vinyl chloride	22.99	1.0	20	0	115	70 - 130	22.41	2.55	20	
Xylenes, Total	62.31	1.0	60	0	104	70 - 130	63.33	1.64	20	
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>48.49</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>97.0</i>	<i>70 - 126</i>	<i>49.13</i>	<i>1.31</i>	<i>20</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>49.01</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>98.0</i>	<i>81 - 113</i>	<i>48.7</i>	<i>0.641</i>	<i>20</i>	
<i>Surr: Dibromofluoromethane</i>	<i>48.12</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>96.2</i>	<i>77 - 123</i>	<i>48.6</i>	<i>0.999</i>	<i>20</i>	
<i>Surr: Toluene-d8</i>	<i>49.7</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>99.4</i>	<i>82 - 127</i>	<i>50.49</i>	<i>1.57</i>	<i>20</i>	

The following samples were analyzed in this batch:

HS20071329-06	HS20071329-08	HS20071329-11	HS20071329-15
HS20071329-16	HS20071329-17	HS20071329-18	HS20071329-19
HS20071329-20			

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071329

QC BATCH REPORT

Batch ID: R366116 (0)		Instrument: VOA2		Method: LOW LEVEL VOLATILES BY SW8260C					
MBLK	Sample ID: VBLKW-200803	Units: ug/L			Analysis Date: 04-Aug-2020 00:36				
Client ID:	Run ID: VOA2_366116	SeqNo: 5684006		PrepDate:		DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

1,2-Dichloroethane	U	1.0							
Benzene	U	1.0							
Chlorobenzene	U	1.0							
Ethylbenzene	U	1.0							
Methylene chloride	U	2.0							
Toluene	U	1.0							
Vinyl chloride	U	1.0							
Xylenes, Total	U	1.0							
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>46.2</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>92.4</i>	<i>70 - 123</i>			
<i>Surr: 4-Bromofluorobenzene</i>	<i>49.35</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>98.7</i>	<i>82 - 115</i>			
<i>Surr: Dibromofluoromethane</i>	<i>50.01</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>100</i>	<i>73 - 126</i>			
<i>Surr: Toluene-d8</i>	<i>50.84</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>102</i>	<i>81 - 120</i>			

LCS	Sample ID: VLCSW-200803	Units: ug/L			Analysis Date: 03-Aug-2020 23:49				
Client ID:	Run ID: VOA2_366116	SeqNo: 5684005		PrepDate:		DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

1,2-Dichloroethane	18.14	1.0	20	0	90.7	70 - 124			
Benzene	19.44	1.0	20	0	97.2	74 - 120			
Chlorobenzene	19.11	1.0	20	0	95.6	76 - 113			
Ethylbenzene	18.73	1.0	20	0	93.7	77 - 117			
Methylene chloride	20.16	2.0	20	0	101	70 - 127			
Toluene	19.41	1.0	20	0	97.0	77 - 118			
Vinyl chloride	21.04	1.0	20	0	105	70 - 130			
Xylenes, Total	58.05	1.0	60	0	96.8	75 - 122			
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>48.31</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>96.6</i>	<i>70 - 130</i>			
<i>Surr: 4-Bromofluorobenzene</i>	<i>48.89</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>97.8</i>	<i>82 - 115</i>			
<i>Surr: Dibromofluoromethane</i>	<i>49.41</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>98.8</i>	<i>73 - 126</i>			
<i>Surr: Toluene-d8</i>	<i>50.22</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>100</i>	<i>81 - 120</i>			

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071329

QC BATCH REPORT

Batch ID: R366116 (0) **Instrument:** VOA2 **Method:** LOW LEVEL VOLATILES BY SW8260C

MS		Sample ID: HS20071484-02MS			Units: ug/L		Analysis Date: 04-Aug-2020 03:22			
Client ID:		Run ID: VOA2_366116			SeqNo: 5684013		PrepDate:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Dichloroethane	18.23	1.0	20	0	91.1	70 - 127				
Benzene	20.3	1.0	20	0	101	70 - 127				
Chlorobenzene	19.82	1.0	20	0	99.1	70 - 114				
Ethylbenzene	19.91	1.0	20	0	99.5	70 - 124				
Methylene chloride	20.24	2.0	20	0	101	70 - 128				
Toluene	20.42	1.0	20	0	102	70 - 123				
Vinyl chloride	22.54	1.0	20	0	113	70 - 130				
Xylenes, Total	60.68	1.0	60	0	101	70 - 130				
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>48.42</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>96.8</i>	<i>70 - 126</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>48.47</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>96.9</i>	<i>81 - 113</i>				
<i>Surr: Dibromofluoromethane</i>	<i>49.02</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>98.0</i>	<i>77 - 123</i>				
<i>Surr: Toluene-d8</i>	<i>50.26</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>101</i>	<i>82 - 127</i>				

MSD		Sample ID: HS20071484-02MSD			Units: ug/L		Analysis Date: 04-Aug-2020 03:45			
Client ID:		Run ID: VOA2_366116			SeqNo: 5684014		PrepDate:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Dichloroethane	17.69	1.0	20	0	88.4	70 - 127	18.23	3	20	
Benzene	20.51	1.0	20	0	103	70 - 127	20.3	1.06	20	
Chlorobenzene	19.49	1.0	20	0	97.5	70 - 114	19.82	1.65	20	
Ethylbenzene	19.92	1.0	20	0	99.6	70 - 124	19.91	0.0692	20	
Methylene chloride	19.72	2.0	20	0	98.6	70 - 128	20.24	2.6	20	
Toluene	20.69	1.0	20	0	103	70 - 123	20.42	1.28	20	
Vinyl chloride	23.65	1.0	20	0	118	70 - 130	22.54	4.82	20	
Xylenes, Total	61.04	1.0	60	0	102	70 - 130	60.68	0.592	20	
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>47.59</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>95.2</i>	<i>70 - 126</i>	<i>48.42</i>	<i>1.73</i>	<i>20</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>48.74</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>97.5</i>	<i>81 - 113</i>	<i>48.47</i>	<i>0.56</i>	<i>20</i>	
<i>Surr: Dibromofluoromethane</i>	<i>48.51</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>97.0</i>	<i>77 - 123</i>	<i>49.02</i>	<i>1.03</i>	<i>20</i>	
<i>Surr: Toluene-d8</i>	<i>50.13</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>100</i>	<i>82 - 127</i>	<i>50.26</i>	<i>0.252</i>	<i>20</i>	

The following samples were analyzed in this batch: HS20071329-01

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071329

**QUALIFIERS,
ACRONYMS, UNITS**

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
mg/L	Milligrams per Liter

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	20-030-0	26-Mar-2021
California	2919, 2020-2021	30-Apr-2021
Dept of Defense	ANAB L2231 V009	22-Dec-2021
Florida	E87611-30-07/01/2020	30-Jun-2021
Illinois	2000322020-4	09-May-2021
Kentucky	123043, 2020-2021	30-Apr-2021
Louisiana	03087, 2020-2021	30-Jun-2021
Maryland	343, 2019-2020	30-Sep-2020
North Carolina	624-2020	31-Dec-2020
North Dakota	R-193 2020-2021	30-Apr-2021
Oklahoma	2019-141	31-Aug-2020
Texas	T104704231-20-26	30-Apr-2021

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
Work Order: HS20071329

SAMPLE TRACKING

Lab Samp ID	Client Sample ID	Action	Date	Person	New Location
HS20071329-01	WQ-1620-TB06-20200728	Login	7/29/2020 2:10:37 PM	JRM	VOA244
HS20071329-02	WG-1620-MW84A-20200727	Login	7/29/2020 2:10:37 PM	JRM	EXT112
HS20071329-02	WG-1620-MW84A-20200727	Login	7/29/2020 2:10:37 PM	JRM	MET028
HS20071329-02	WG-1620-MW84A-20200727	Login	7/29/2020 2:10:37 PM	JRM	VOA244
HS20071329-03	WG-1620-MW84B-20200727	Login	7/29/2020 5:09:54 PM	GEY	EXT123
HS20071329-03	WG-1620-MW84B-20200727	Login	7/29/2020 5:09:54 PM	GEY	MET034
HS20071329-03	WG-1620-MW84B-20200727	Login	7/29/2020 5:09:54 PM	GEY	VOA148
HS20071329-04	WG-1620-MW26A-20200727	Login	7/29/2020 5:09:54 PM	GEY	EXT123
HS20071329-04	WG-1620-MW26A-20200727	Login	7/29/2020 5:09:54 PM	GEY	MET034
HS20071329-04	WG-1620-MW26A-20200727	Login	7/29/2020 5:09:54 PM	GEY	VOA148
HS20071329-05	WG-1620-MW68A-20200727	Login	7/29/2020 5:09:54 PM	GEY	EXT123
HS20071329-05	WG-1620-MW68A-20200727	Login	7/29/2020 5:09:54 PM	GEY	MET034
HS20071329-05	WG-1620-MW68A-20200727	Login	7/29/2020 5:09:54 PM	GEY	VOA148
HS20071329-06	WG-1620-MW68B-20200727	Login	7/29/2020 5:09:54 PM	GEY	EXT123
HS20071329-06	WG-1620-MW68B-20200727	Login	7/29/2020 5:09:54 PM	GEY	MET034
HS20071329-06	WG-1620-MW68B-20200727	Login	7/29/2020 5:09:54 PM	GEY	VOA148
HS20071329-07	WG-1620-MW68C-20200727	Login	7/29/2020 5:09:54 PM	GEY	EXT123
HS20071329-07	WG-1620-MW68C-20200727	Login	7/29/2020 5:09:54 PM	GEY	MET034
HS20071329-07	WG-1620-MW68C-20200727	Login	7/29/2020 5:09:54 PM	GEY	VOA148
HS20071329-08	WG-1620-MW32B-20200727	Login	7/29/2020 5:09:54 PM	GEY	EXT123
HS20071329-08	WG-1620-MW32B-20200727	Login	7/29/2020 5:09:54 PM	GEY	MET034
HS20071329-08	WG-1620-MW32B-20200727	Login	7/29/2020 5:09:54 PM	GEY	VOA148
HS20071329-09	WG-1620-MW33BR-20200727	Login	7/29/2020 5:10:24 PM	GEY	EXT124
HS20071329-09	WG-1620-MW33BR-20200727	Login	7/29/2020 5:10:24 PM	GEY	MET034
HS20071329-09	WG-1620-MW33BR-20200727	Login	7/29/2020 5:10:24 PM	GEY	VOA148
HS20071329-10	WG-1620-FB09-20200727	Login	7/29/2020 5:11:31 PM	GEY	EXT124
HS20071329-10	WG-1620-FB09-20200727	Login	7/29/2020 5:11:31 PM	GEY	MET034
HS20071329-10	WG-1620-FB09-20200727	Login	7/29/2020 5:11:31 PM	GEY	VOA148
HS20071329-11	WG-1620-DUP05-20200727	Login	7/29/2020 5:14:54 PM	GEY	EXT124
HS20071329-11	WG-1620-DUP05-20200727	Login	7/29/2020 5:14:54 PM	GEY	MET034
HS20071329-11	WG-1620-DUP05-20200727	Login	7/29/2020 5:14:54 PM	GEY	VOA148
HS20071329-12	WG-1620-MW28C-20200728	Login	7/29/2020 5:14:54 PM	GEY	EXT124
HS20071329-12	WG-1620-MW28C-20200728	Login	7/29/2020 5:14:54 PM	GEY	MET034
HS20071329-12	WG-1620-MW28C-20200728	Login	7/29/2020 5:14:54 PM	GEY	VOA148
HS20071329-13	WG-1620-MW36B-20200728	Login	7/29/2020 5:14:54 PM	GEY	EXT124
HS20071329-13	WG-1620-MW36B-20200728	Login	7/29/2020 5:14:54 PM	GEY	MET034
HS20071329-13	WG-1620-MW36B-20200728	Login	7/29/2020 5:14:54 PM	GEY	VOA148
HS20071329-14	WG-1620-MW36A-20200728	Login	7/29/2020 5:14:54 PM	GEY	EXT124
HS20071329-14	WG-1620-MW36A-20200728	Login	7/29/2020 5:14:54 PM	GEY	MET034

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
Work Order: HS20071329

SAMPLE TRACKING

HS20071329-14	WG-1620-MW36A-20200728	Login	7/29/2020 5:14:54 PM	GEY	VOA148
HS20071329-15	WG-1620-MW44C-20200728	Login	7/29/2020 5:14:54 PM	GEY	EXT126
HS20071329-15	WG-1620-MW44C-20200728	Login	7/29/2020 5:14:54 PM	GEY	MET034
HS20071329-15	WG-1620-MW44C-20200728	Login	7/29/2020 5:14:54 PM	GEY	VOA148
HS20071329-16	WG-1620-MW34CR-20200728	Login	7/29/2020 5:14:54 PM	GEY	EXT126
HS20071329-16	WG-1620-MW34CR-20200728	Login	7/29/2020 5:14:54 PM	GEY	MET034
HS20071329-16	WG-1620-MW34CR-20200728	Login	7/29/2020 5:14:54 PM	GEY	VOA148
HS20071329-17	WG-1620-MW33A-20200728	Login	7/29/2020 5:14:54 PM	GEY	EXT126
HS20071329-17	WG-1620-MW33A-20200728	Login	7/29/2020 5:14:54 PM	GEY	MET034
HS20071329-17	WG-1620-MW33A-20200728	Login	7/29/2020 5:14:54 PM	GEY	VOA148
HS20071329-18	WG-1620-MW70C-20200728	Login	7/29/2020 5:17:13 PM	GEY	EXT126
HS20071329-18	WG-1620-MW70C-20200728	Login	7/29/2020 5:17:13 PM	GEY	MET034
HS20071329-18	WG-1620-MW70C-20200728	Login	7/29/2020 5:17:13 PM	GEY	VOA148
HS20071329-19	WG-1620-DUP06-20200728	Login	7/29/2020 5:17:13 PM	GEY	EXT126
HS20071329-19	WG-1620-DUP06-20200728	Login	7/29/2020 5:17:13 PM	GEY	MET034
HS20071329-19	WG-1620-DUP06-20200728	Login	7/29/2020 5:17:13 PM	GEY	VOA148
HS20071329-20	WG-1620-FB10-20200728	Login	7/29/2020 5:17:13 PM	GEY	EXT126
HS20071329-20	WG-1620-FB10-20200728	Login	7/29/2020 5:17:13 PM	GEY	MET034
HS20071329-20	WG-1620-FB10-20200728	Login	7/29/2020 5:17:13 PM	GEY	VOA148

Sample Receipt Checklist

Work Order ID: HS20071329

Date/Time Received: 28-Jul-2020 15:45

Client Name: PBW

Received by: Donald Gilmore

Completed By: /S/ Jared R. Makan 29-Jul-2020 17:20 eSignature Date/Time
Reviewed by: /S/ Dane J. Wacasey 29-Jul-2020 19:59 eSignature Date/Time

Matrices: Water

Carrier name: ALS Courier

- Shipping container/cooler in good condition? Yes [checked] No [] Not Present []
Custody seals intact on shipping container/cooler? Yes [] No [] Not Present [checked]
Custody seals intact on sample bottles? Yes [] No [] Not Present [checked]
VOA/TX1005/TX1006 Solids in hermetically sealed vials? Yes [] No [] Not Present [checked]
Chain of custody present? Yes [checked] No []
Chain of custody signed when relinquished and received? Yes [checked] No []
Samplers name present on COC? Yes [checked] No []
Chain of custody agrees with sample labels? Yes [checked] No []
Samples in proper container/bottle? Yes [checked] No []
Sample containers intact? Yes [checked] No []
Sufficient sample volume for indicated test? Yes [checked] No []
All samples received within holding time? Yes [checked] No []
Container/Temp Blank temperature in compliance? Yes [checked] No []

3 Page(s)
COC IDs:227156, 226825, 226829

Temperature(s)/Thermometer(s): 1.0°C, 1.2°C, 0.8°C, 1.3°C Corrected IR31
Cooler(s)/Kit(s): 44975, 45969, 23667, 45960
Date/Time sample(s) sent to storage: 07/29/2020 17:22

- Water - VOA vials have zero headspace? Yes [checked] No [] No VOA vials submitted []
Water - pH acceptable upon receipt? Yes [checked] No [] N/A []
pH adjusted? Yes [] No [checked] N/A []

pH adjusted by:

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:



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Page ____ of ____

COC ID: 227156

HS20071329

Golder Associates Inc.
Houston TX-Wood Preserving Works



ALS Project Manager:

Customer Information		Project Information		
Purchase Order	UPRR/Kevin Peterburs	Project Name	Houston TX-Wood Preserving Works	A 8260_LL_W (5632528 Volatile Organics Site Specific)
Work Order		Project Number	1620-07-Rev0 SR 92688	B 8260_LL_W (5632528 VOC Site Specific + V.C.)
Company Name	Golder Associates	Bill To Company	Union Pacific Railroad- A/P	C 8270_LOW_W (5632532 SemiVolatiles Site specific)
Send Report To	Eric Matzner	Invoice Attn	Accounts Payable	D ICP_TW (5636002 5652646 Metals - As)
Address	2201 Double Creek Drive	Address	1400 Douglas Street	E
	Suite 4004		Stop 0750	F
City/State/Zip	Round Rock, TX 78654	City/State/Zip	Omaha NE 681790750	G
Phone	(512) 671-3434	Phone		H
Fax	(512) 671-3446	Fax		I
e-Mail Address	eric.matzner@pbwilc.com	e-Mail Address		J

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold			
1	WQ-1620-TB0 <u>06-20200728</u>	7-28-20	7:15	Water	1	2	X	X												
2	WG-1620-MW84A 20200727	7-27-20	8:55	Groundwa	1,2,8	6	X		X	X										
3	WG-1620MW 84B 20200727	7-27-20	9:50	↓	↓	↓	X		X	X										
4	WG-1620MW 26A 20200727	7-27-20	10:55				X		X	X										
5	WG-1620MW 68A 20200727	7-27-20	11:50				X		X	X										
6	WG-1620MW 68B 20200727	7-27-20	12:45				X		X	X										
7	WG-1620MW 68C 20200727	7-27-20	13:50				X		X	X										
8	WG-1620MW 32B 20200727	7-27-20	14:50				X		X	X										
9	WG-1620MW 33BR 20200727	7-27-20	15:55				X		X	X										
10	WG-1620FB 09 20200727	7-27-20	15:30/1630				X		X	X										

Sampler(s) Please Print & Sign: T.M. McCadden Shipment Method: _____ Required Turnaround Time: (Check Box) STD 10 Wk Days 5 Wk Days 2 Wk Days 24 Hour Results Due Date: _____

Relinquished by: T.M. McCadden Date: 7-28-20 Time: 15:45 Received by: D. J.
 Relinquished by: D. J. Date: 7-29-20 Time: 0730 Received by (Laboratory): _____
 Logged by (Laboratory): _____ Date: _____ Time: _____ Checked by (Laboratory): _____

Notes: UPRR Houston MW/PW

Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)
44975	1.0	<input type="checkbox"/> Level II Std OC <input checked="" type="checkbox"/> TRRP Checklist
45969	1.2	<input type="checkbox"/> Level III Std OC/Raw Date <input type="checkbox"/> TRRP Level IV
23667	0.8	<input type="checkbox"/> Level IV SW8-B/CLP
45960	1.3	<input type="checkbox"/> Other

Preservative Key: 1-HCl 2-HNO₃ 3-H₂SO₄ 4-NaOH 5-Na₂S₂O₃ 6-NaHSO₄ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
 2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
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COC ID: 226825

HS20071329

Golder Associates Inc.
Houston TX-Wood Preserving Works



ALS Project Manager:

Customer Information		Project Information		
Purchase Order	UPRR/Kevin Peterburs	Project Name	Houston TX-Wood Preserving Works	A 8260_LL_W (5632528 Volatile Organics Site Specific)
Work Order		Project Number	1620-07-Rev0 SR 92688	B 8260_LL_W (5632528 VOC Site Specific + V.C.)
Company Name	Golder Associates	Bill To Company	Union Pacific Railroad- A/P	C 8270_LOW_W (5632532 SemiVolatiles Site specific)
Send Report To	Eric Matzner	Invoice Attn	Accounts Payable	D ICP_TW (5636002 5652646 Metals - As)
Address	2201 Double Creek Drive	Address	1400 Douglas Street	E
	Suite 4004		Stop 0750	F
City/State/Zip	Round Rock, TX 78664	City/State/Zip	Omaha NE 681790750	G
Phone	(512) 671-3434	Phone		H
Fax	(512) 671-3445	Fax		I
e-Mail Address	eric.matzner@pbwlic.com	e-Mail Address		J

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold			
1	WG-1620-TB0 -202007			Water	1	2		X												
2	WG-1620-PUP05 20200727	7-27-20	-	Groundwa	1.2,8	6	X		X	X										
3	WG-1620 MW 28C 20200728	7-28-20	8:15	↓	↓	↓	X		X	X										
4	WG-1620 MW 28C MS 20200728	7-28-20	8:15				X	X	X	X										
5	WG-1620 MW 28C MS D 20200728	7-28-20	8:15				X	X	X	X										
6	WG-1620 MW 36B 20200728	7-28-20	10:00				X	X	X	X										
7	WG-1620 MW 36A 20200728	7-28-20	11:10				X	X	X	X										
8	WG-1620 MW 44C 20200728	7-28-20	12:05				X		X	X										
9	WG-1620 MW 34CR 20200728	7-28-20	13:05				X		X	X										
10	WG-1620 MW 33A 20200728	7-28-20	14:10				X		X	X										

Sampler(s) Please Print & Sign <i>Tim M. Spahr</i>		Shipment Method	Required Turnaround Time: (Check Box) <input checked="" type="checkbox"/> STD 10 Wk Days <input type="checkbox"/> 5 Wk Days <input type="checkbox"/> 2 Wk Days <input type="checkbox"/> 24 Hour				Results Due Date:
Relinquished by: <i>[Signature]</i>	Date: 7-29-20	Time: 0730	Received by: <i>[Signature]</i>	Notes: UPRR Houston MWPW			
Relinquished by: <i>[Signature]</i>	Date: 7-29-20	Time: 0730	Received by (Laboratory): <i>[Signature]</i>	Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)	
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	44975		<input type="checkbox"/> Level II Std QC	<input checked="" type="checkbox"/> TRRP Checklist
				45959		<input type="checkbox"/> Level III Std QC/Raw Date	<input type="checkbox"/> TRRP Level IV
				23667		<input type="checkbox"/> Level IV SW846/CLP	
				45960		<input type="checkbox"/> Other	

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Chain of Custody Form

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COC ID: 226829

HS20071329

Golder Associates Inc.
Houston TX-Wood Preserving Works



ALS Project Manager:

Customer Information		Project Information		
Purchase Order	UPRR/Kevin Peterburs	Project Name	Houston TX-Wood Preserving Works	A 8260_LL_W (5632528 Volatile Organics Site Specific)
Work Order		Project Number	1620-07-Rev0 SR 92683	B 8260_LL_W (5632528 VOC Site Specific + V.C.)
Company Name	Golder Associates	Bill To Company	Union Pacific Railroad- A/P	C 8270_LOW_W (5632532 SemiVolatiles Site specific)
Send Report To	Eric Matzner	Invoice Attn	Accounts Payable	D ICP_TW (5636002 5652646 Metals - As)
Address	2201 Double Creek Drive	Address	1400 Douglas Street	E
	Suite 4004		Stop 0750	F
City/State/Zip	Round Rock, TX 78664	City/State/Zip	Omaha NE 681790750	G
Phone	(512) 671-3434	Phone		H
Fax	(512) 671-3445	Fax		I
e-Mail Address	eric.matzner@pbwllc.com	e-Mail Address		J

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	WG-1620-T30-202007			Water	1	2		X									
2	WG-1620-MW 70C 20200728	7-28-20	15:05	Groundwa	1,2,8	6	X		X	X							
3	WG-1620 Dup 06 20200728	7-28-20	-	L	L	L	X		X	X							
4	WG-1620 F=O 10 20200728	7-28-20	15:30	L	L	L	X	X	X	X							
5																	
6																	
7																	
8																	
9																	
10																	

Samples of Please Print & Sign		Shipment Method		Required Turnaround Time: (Check Box)				Other		Results Due Date:	
<i>[Signature]</i>				<input checked="" type="checkbox"/> STD 16 Wk Days				<input type="checkbox"/> 5 Wk Days		<input type="checkbox"/> 2 Wk Days	
Relinquished by: <i>[Signature]</i>		Date: 7-28-20	Time: 15:45	Received by: <i>[Signature]</i>		Notes: UPRR Houston MWPW					
Relinquished by: <i>[Signature]</i>		Date: 7-29-20	Time: 0730	Received by (Laboratory): <i>[Signature]</i>		Cooler ID		Cooler Temp.		QC Package: (Check One Box Below)	
Logged by (Laboratory):		Date:	Time:	Checked by (Laboratory):		44975				<input type="checkbox"/> Level II Std QC	
						45969				<input checked="" type="checkbox"/> TRRP Checklist	
						23667				<input type="checkbox"/> TRRP Level V	
										<input type="checkbox"/> Level III Std QC/Raw Data	
										<input type="checkbox"/> Level IV SW-846/CLP	
										<input type="checkbox"/> Other	

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
 2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
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August 12, 2020

Eric Matzner
Golder Associates Inc.
2201 Double Creek Drive
Suite 4004
Round Rock, TX 78664

Work Order: **HS20071344**

Laboratory Results for: **Houston TX-Wood Preserving Works**

Dear Eric Matzner,

ALS Environmental received 6 sample(s) on Jul 29, 2020 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: DAYNA.FISHER
Dane J. Wacasey

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071344

**TRRP Laboratory Data
Package Cover Page**

This data package consists of all or some of the following as applicable:

This signature page, the laboratory review checklist, and the following reportable data:

- R1 Field chain-of-custody documentation;
- R2 Sample identification cross-reference;
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
 - a) Items consistent with NELAC Chapter 5,
 - b) dilution factors,
 - c) preparation methods,
 - d) cleanup methods, and
 - e) if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate recovery data including:
 - a) Calculated recovery (%R), and
 - b) The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
 - a) LCS spiking amounts,
 - b) Calculated %R for each analyte, and
 - c) The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a) Samples associated with the MS/MSD clearly identified,
 - b) MS/MSD spiking amounts,
 - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d) Calculated %Rs and relative percent differences (RPDs), and
 - e) The laboratory's MS/MSD QC limits.
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
 - a) the amount of analyte measured in the duplicate,
 - b) the calculated RPD, and
 - c) the laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.
- R10 Other problems or anomalies.
The Exception Report for each "No" or "Not Reviewed (NR)" item in Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071344

**TRRP Laboratory Data
Package Cover Page**

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory have been identified by the laboratory in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Check, if applicable: [NA] This laboratory meets an exception under 30 TAC §25.6 and was last inspected by TCEQ or _____ on (enter date of last inspection). Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.



Dane J. Wacasey

Laboratory Review Checklist: Reportable Data							
Laboratory Name: ALS Laboratory Group				LRC Date: 08/12/2020			
Project Name: Houston TX-Wood Preserving Works				Laboratory Job Number: HS20071344			
Reviewer Name: Dane Wacasey				Prep Batch Number(s): 155902, 155910, 155998, R366012			
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
R1	OI	Chain-of-custody (C-O-C)					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?	X				
R2	OI	Sample and quality control (QC) identification					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	Test reports					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?			X		
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW-846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	Surrogate recovery data					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?		X			1
R5	OI	Test reports/summary forms for blank samples					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	Laboratory control samples (LCS):					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?	X				
		Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	Analytical duplicate data					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	Method quantitation limits (MQLs):					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	Other problems/anomalies					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Were all necessary corrective actions performed for the reported data?	X				
		Was applicable and available technology used to lower the SDL and minimize the matrix interference effects on the sample results?	X				2
		Is the laboratory NELAC-accredited under the Texas Laboratory Program for the analytes, matrices and methods associated with this laboratory data package?	X				

Laboratory Review Checklist: Supporting Data							
Laboratory Name: ALS Laboratory Group				LRC Date: 08/12/2020			
Project Name: Houston TX-Wood Preserving Works				Laboratory Job Number: HS20071344			
Reviewer Name: Dane Wacasey				Prep Batch Number(s): 155902, 155910, 155998, R366012			
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S1	OI	Initial calibration (ICAL)					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB)					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	Mass spectral tuning:					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	Internal standards (IS):					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	Raw data (NELAC section 1 appendix A glossary, and section 5.12 or ISO/IEC 17025 section)					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	Dual column confirmation					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	Tentatively identified compounds (TICs):					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	Interference Check Sample (ICS) results:					
		Were percent recoveries within method QC limits?	X				
S9	I	Serial dilutions, post digestion spikes, and method of standard additions					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	X				
S10	OI	Method detection limit (MDL) studies					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	Proficiency test reports:					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards documentation					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/analyte identification procedures					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of analyst competency (DOC)					
		Was DOC conducted consistent with NELAC Chapter 5C or ISO/IEC 4?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/validation documentation for methods (NELAC Chap 5 or ISO/IEC 17025 Section 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory standard operating procedures (SOPs):					
		Are laboratory SOPs current and on file for each method performed?	X				

Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

O = Organic Analyses; I = Inorganic Analyses (and general chemistry, when applicable);

NA = Not Applicable;

NR = Not Reviewed;

R# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Exception Reports

Laboratory Name: ALS Laboratory Group	LRC Date: 08/12/2020
Project Name: Houston TX-Wood Preserving Works	Laboratory Job Number: HS20071344
Reviewer Name: Dane Wacasey	Prep Batch Number(s): 155902, 155910, 155998, R366012

ER# ⁵	Description
1	Batch 155998, Semivolatiles by Method SW8270, Samples WG-1620-MW41B-20200729, WG-1620-MW12B-20200729: surrogate recoveries could not be determined due to dilution below the calibration range.
2	Batch 155998, Semivolatiles by Method SW8270, Samples WG-1620-MW41B-20200729 and WG-1620-MW12B-20200729: The GCMS semi-volatile extract of this sample was run at a dilution due to a high level of matrix interference.

Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
 O = Organic Analyses; I = Inorganic Analyses (and general chemistry, when applicable);
 NA = Not Applicable;
 NR = Not Reviewed;
 R# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
Work Order: HS20071344

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS20071344-01	WQ-1620-TB07-20200729	Water		29-Jul-2020 16:00	29-Jul-2020 17:00	<input type="checkbox"/>
HS20071344-02	WG-1620-MW41B-20200729	Groundwater		29-Jul-2020 09:00	29-Jul-2020 17:00	<input type="checkbox"/>
HS20071344-03	WG-1620-MW12B-20200729	Groundwater		29-Jul-2020 09:55	29-Jul-2020 17:00	<input type="checkbox"/>
HS20071344-04	WG-1620-MW36D-20200729	Groundwater		29-Jul-2020 11:30	29-Jul-2020 17:00	<input type="checkbox"/>
HS20071344-05	WG-1620-MW65D-20200729	Groundwater		29-Jul-2020 13:20	29-Jul-2020 17:00	<input type="checkbox"/>
HS20071344-06	WG-1620-FB11-20200729	Water		29-Jul-2020 16:00	29-Jul-2020 17:00	<input type="checkbox"/>

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WQ-1620-TB07-20200729
 Collection Date: 29-Jul-2020 16:00

ANALYTICAL REPORT
 WorkOrder:HS20071344
 Lab ID:HS20071344-01
 Matrix:Water

ANALYSES	RESULT	QUAL	SDL	MLL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	30-Jul-2020 15:29
Benzene	U		0.00020	0.0010	mg/L	1	30-Jul-2020 15:29
Chlorobenzene	U		0.00030	0.0010	mg/L	1	30-Jul-2020 15:29
Ethylbenzene	U		0.00030	0.0010	mg/L	1	30-Jul-2020 15:29
Methylene chloride	U		0.0010	0.0020	mg/L	1	30-Jul-2020 15:29
Toluene	U		0.00020	0.0010	mg/L	1	30-Jul-2020 15:29
Vinyl chloride	U		0.00020	0.0010	mg/L	1	30-Jul-2020 15:29
Xylenes, Total	U		0.00030	0.0010	mg/L	1	30-Jul-2020 15:29
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>95.2</i>			<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>30-Jul-2020 15:29</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>99.1</i>			<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>30-Jul-2020 15:29</i>
<i>Surr: Dibromofluoromethane</i>	<i>99.7</i>			<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>30-Jul-2020 15:29</i>
<i>Surr: Toluene-d8</i>	<i>101</i>			<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>30-Jul-2020 15:29</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW41B-20200729
 Collection Date: 29-Jul-2020 09:00

ANALYTICAL REPORT
 WorkOrder:HS20071344
 Lab ID:HS20071344-02
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	30-Jul-2020 18:49
Benzene	0.016		0.00020	0.0010	mg/L	1	30-Jul-2020 18:49
Chlorobenzene	U		0.00030	0.0010	mg/L	1	30-Jul-2020 18:49
Ethylbenzene	0.052		0.00030	0.0010	mg/L	1	30-Jul-2020 18:49
Methylene chloride	U		0.0010	0.0020	mg/L	1	30-Jul-2020 18:49
Toluene	0.059		0.00020	0.0010	mg/L	1	30-Jul-2020 18:49
Xylenes, Total	0.12		0.00030	0.0010	mg/L	1	30-Jul-2020 18:49
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>95.0</i>			<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>30-Jul-2020 18:49</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>99.9</i>			<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>30-Jul-2020 18:49</i>
<i>Surr: Dibromofluoromethane</i>	<i>98.8</i>			<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>30-Jul-2020 18:49</i>
<i>Surr: Toluene-d8</i>	<i>101</i>			<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>30-Jul-2020 18:49</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW41B-20200729
 Collection Date: 29-Jul-2020 09:00

ANALYTICAL REPORT
 WorkOrder:HS20071344
 Lab ID:HS20071344-02
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 03-Aug-2020		Analyst: ACN	
1,2-Diphenylhydrazine	U		0.00021	0.0020	mg/L	10	11-Aug-2020 19:21
2,4-Dimethylphenol	0.021		0.00040	0.0020	mg/L	10	11-Aug-2020 19:21
2,4-Dinitrotoluene	U		0.00058	0.0020	mg/L	10	11-Aug-2020 19:21
2,6-Dinitrotoluene	U		0.00042	0.0020	mg/L	10	11-Aug-2020 19:21
2-Chloronaphthalene	U		0.00021	0.0020	mg/L	10	11-Aug-2020 19:21
2-Methylnaphthalene	0.092		0.00019	0.0010	mg/L	10	11-Aug-2020 19:21
4,6-Dinitro-2-methylphenol	U		0.00020	0.0020	mg/L	10	11-Aug-2020 19:21
4-Nitrophenol	U		0.00047	0.010	mg/L	10	11-Aug-2020 19:21
Acenaphthene	0.062		0.00027	0.0010	mg/L	10	11-Aug-2020 19:21
Acenaphthylene	0.0017		0.00015	0.0010	mg/L	10	11-Aug-2020 19:21
Anthracene	0.013		0.00014	0.0010	mg/L	10	11-Aug-2020 19:21
Benz(a)anthracene	0.0066		0.00050	0.0010	mg/L	10	11-Aug-2020 19:21
Benzo(a)pyrene	0.0024		0.00020	0.0010	mg/L	10	11-Aug-2020 19:21
Bis(2-chloroethoxy)methane	U		0.00030	0.0020	mg/L	10	11-Aug-2020 19:21
Bis(2-ethylhexyl)phthalate	0.00089	J	0.00037	0.0020	mg/L	10	11-Aug-2020 19:21
Chrysene	0.0052		0.00021	0.0010	mg/L	10	11-Aug-2020 19:21
Dibenzofuran	0.033		0.00020	0.0010	mg/L	10	11-Aug-2020 19:21
Di-n-butyl phthalate	U		0.00020	0.0020	mg/L	10	11-Aug-2020 19:21
Fluoranthene	0.031		0.00010	0.0010	mg/L	10	11-Aug-2020 19:21
Fluorene	0.042		0.00030	0.0010	mg/L	10	11-Aug-2020 19:21
Naphthalene	2.3		0.020	0.10	mg/L	1000	12-Aug-2020 12:35
Nitrobenzene	U		0.00024	0.0020	mg/L	10	11-Aug-2020 19:21
N-Nitrosodiphenylamine	U		0.00025	0.0020	mg/L	10	11-Aug-2020 19:21
Pentachlorophenol	U		0.00079	0.0020	mg/L	10	11-Aug-2020 19:21
Phenanthrene	0.087		0.00021	0.0010	mg/L	10	11-Aug-2020 19:21
Phenol	U		0.00035	0.0020	mg/L	10	11-Aug-2020 19:21
Pyrene	0.019		0.00019	0.0010	mg/L	10	11-Aug-2020 19:21
<i>Surr: 2,4,6-Tribromophenol</i>	<i>0</i>	<i>JS</i>		<i>34-129</i>	<i>%REC</i>	<i>1000</i>	<i>12-Aug-2020 12:35</i>
<i>Surr: 2,4,6-Tribromophenol</i>	<i>53.5</i>			<i>34-129</i>	<i>%REC</i>	<i>10</i>	<i>11-Aug-2020 19:21</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>54.7</i>			<i>40-125</i>	<i>%REC</i>	<i>10</i>	<i>11-Aug-2020 19:21</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>0</i>	<i>JS</i>		<i>40-125</i>	<i>%REC</i>	<i>1000</i>	<i>12-Aug-2020 12:35</i>
<i>Surr: 2-Fluorophenol</i>	<i>0</i>	<i>JS</i>		<i>20-120</i>	<i>%REC</i>	<i>1000</i>	<i>12-Aug-2020 12:35</i>
<i>Surr: 2-Fluorophenol</i>	<i>112</i>			<i>20-120</i>	<i>%REC</i>	<i>10</i>	<i>11-Aug-2020 19:21</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>75.5</i>			<i>40-135</i>	<i>%REC</i>	<i>10</i>	<i>11-Aug-2020 19:21</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>0</i>	<i>JS</i>		<i>40-135</i>	<i>%REC</i>	<i>1000</i>	<i>12-Aug-2020 12:35</i>
<i>Surr: Nitrobenzene-d5</i>	<i>54.5</i>			<i>41-120</i>	<i>%REC</i>	<i>10</i>	<i>11-Aug-2020 19:21</i>
<i>Surr: Nitrobenzene-d5</i>	<i>0</i>	<i>JS</i>		<i>41-120</i>	<i>%REC</i>	<i>1000</i>	<i>12-Aug-2020 12:35</i>
<i>Surr: Phenol-d6</i>	<i>0</i>	<i>JS</i>		<i>20-120</i>	<i>%REC</i>	<i>1000</i>	<i>12-Aug-2020 12:35</i>
<i>Surr: Phenol-d6</i>	<i>81.8</i>			<i>20-120</i>	<i>%REC</i>	<i>10</i>	<i>11-Aug-2020 19:21</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW41B-20200729
 Collection Date: 29-Jul-2020 09:00

ANALYTICAL REPORT

WorkOrder:HS20071344
 Lab ID:HS20071344-02
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020			Prep:SW3010A / 30-Jul-2020		Analyst: JC
Arsenic	0.0801		0.000400	0.00200	mg/L	1	01-Aug-2020 00:00

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW12B-20200729
 Collection Date: 29-Jul-2020 09:55

ANALYTICAL REPORT
 WorkOrder:HS20071344
 Lab ID:HS20071344-03
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	30-Jul-2020 19:13
Benzene	0.0027		0.00020	0.0010	mg/L	1	30-Jul-2020 19:13
Chlorobenzene	U		0.00030	0.0010	mg/L	1	30-Jul-2020 19:13
Ethylbenzene	0.012		0.00030	0.0010	mg/L	1	30-Jul-2020 19:13
Methylene chloride	U		0.0010	0.0020	mg/L	1	30-Jul-2020 19:13
Toluene	0.0025		0.00020	0.0010	mg/L	1	30-Jul-2020 19:13
Xylenes, Total	0.019		0.00030	0.0010	mg/L	1	30-Jul-2020 19:13
Surr: 1,2-Dichloroethane-d4	94.8			70-126	%REC	1	30-Jul-2020 19:13
Surr: 4-Bromofluorobenzene	100			81-113	%REC	1	30-Jul-2020 19:13
Surr: Dibromofluoromethane	98.9			77-123	%REC	1	30-Jul-2020 19:13
Surr: Toluene-d8	99.0			82-127	%REC	1	30-Jul-2020 19:13

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW12B-20200729
 Collection Date: 29-Jul-2020 09:55

ANALYTICAL REPORT
 WorkOrder:HS20071344
 Lab ID:HS20071344-03
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 03-Aug-2020		Analyst: ACN	
1,2-Diphenylhydrazine	U		0.00021	0.0020	mg/L	10	11-Aug-2020 19:41
2,4-Dimethylphenol	U		0.00040	0.0020	mg/L	10	11-Aug-2020 19:41
2,4-Dinitrotoluene	U		0.00058	0.0020	mg/L	10	11-Aug-2020 19:41
2,6-Dinitrotoluene	0.00051	J	0.00042	0.0020	mg/L	10	11-Aug-2020 19:41
2-Chloronaphthalene	U		0.00021	0.0020	mg/L	10	11-Aug-2020 19:41
2-Methylnaphthalene	0.84		0.0019	0.010	mg/L	100	11-Aug-2020 20:39
4,6-Dinitro-2-methylphenol	U		0.00020	0.0020	mg/L	10	11-Aug-2020 19:41
4-Nitrophenol	U		0.00047	0.010	mg/L	10	11-Aug-2020 19:41
Acenaphthene	0.82		0.0027	0.010	mg/L	100	11-Aug-2020 20:39
Acenaphthylene	0.015		0.00015	0.0010	mg/L	10	11-Aug-2020 19:41
Anthracene	0.40		0.0014	0.010	mg/L	100	11-Aug-2020 20:39
Benz(a)anthracene	0.23		0.0050	0.010	mg/L	100	11-Aug-2020 20:39
Benzo(a)pyrene	0.041		0.00020	0.0010	mg/L	10	11-Aug-2020 19:41
Bis(2-chloroethoxy)methane	U		0.00030	0.0020	mg/L	10	11-Aug-2020 19:41
Bis(2-ethylhexyl)phthalate	U		0.00037	0.0020	mg/L	10	11-Aug-2020 19:41
Chrysene	0.19		0.0021	0.010	mg/L	100	11-Aug-2020 20:39
Dibenzofuran	0.76		0.0020	0.010	mg/L	100	11-Aug-2020 20:39
Di-n-butyl phthalate	U		0.00020	0.0020	mg/L	10	11-Aug-2020 19:41
Fluoranthene	1.2		0.010	0.10	mg/L	1000	12-Aug-2020 12:55
Fluorene	0.96		0.0030	0.010	mg/L	100	11-Aug-2020 20:39
Naphthalene	2.4		0.020	0.10	mg/L	1000	12-Aug-2020 12:55
Nitrobenzene	U		0.00024	0.0020	mg/L	10	11-Aug-2020 19:41
N-Nitrosodiphenylamine	U		0.00025	0.0020	mg/L	10	11-Aug-2020 19:41
Pentachlorophenol	U		0.00079	0.0020	mg/L	10	11-Aug-2020 19:41
Phenanthrene	2.6		0.021	0.10	mg/L	1000	12-Aug-2020 12:55
Phenol	U		0.00035	0.0020	mg/L	10	11-Aug-2020 19:41
Pyrene	0.74		0.0019	0.010	mg/L	100	11-Aug-2020 20:39
<i>Surr: 2,4,6-Tribromophenol</i>	<i>35.7</i>	<i>J</i>		<i>34-129</i>	<i>%REC</i>	<i>10</i>	<i>11-Aug-2020 19:41</i>
<i>Surr: 2,4,6-Tribromophenol</i>	<i>0</i>	<i>JS</i>		<i>34-129</i>	<i>%REC</i>	<i>100</i>	<i>11-Aug-2020 20:39</i>
<i>Surr: 2,4,6-Tribromophenol</i>	<i>0</i>	<i>JS</i>		<i>34-129</i>	<i>%REC</i>	<i>1000</i>	<i>12-Aug-2020 12:55</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>0</i>	<i>JS</i>		<i>40-125</i>	<i>%REC</i>	<i>1000</i>	<i>12-Aug-2020 12:55</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>41.8</i>			<i>40-125</i>	<i>%REC</i>	<i>10</i>	<i>11-Aug-2020 19:41</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>0</i>	<i>JS</i>		<i>40-125</i>	<i>%REC</i>	<i>100</i>	<i>11-Aug-2020 20:39</i>
<i>Surr: 2-Fluorophenol</i>	<i>61.1</i>			<i>20-120</i>	<i>%REC</i>	<i>10</i>	<i>11-Aug-2020 19:41</i>
<i>Surr: 2-Fluorophenol</i>	<i>0</i>	<i>JS</i>		<i>20-120</i>	<i>%REC</i>	<i>100</i>	<i>11-Aug-2020 20:39</i>
<i>Surr: 2-Fluorophenol</i>	<i>0</i>	<i>JS</i>		<i>20-120</i>	<i>%REC</i>	<i>1000</i>	<i>12-Aug-2020 12:55</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>0</i>	<i>JS</i>		<i>40-135</i>	<i>%REC</i>	<i>1000</i>	<i>12-Aug-2020 12:55</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>71.4</i>			<i>40-135</i>	<i>%REC</i>	<i>10</i>	<i>11-Aug-2020 19:41</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>0</i>	<i>JS</i>		<i>40-135</i>	<i>%REC</i>	<i>100</i>	<i>11-Aug-2020 20:39</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW12B-20200729
 Collection Date: 29-Jul-2020 09:55

ANALYTICAL REPORT
 WorkOrder:HS20071344
 Lab ID:HS20071344-03
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 03-Aug-2020		Analyst: ACN	
Surr: Nitrobenzene-d5	98.3			41-120	%REC	10	11-Aug-2020 19:41
Surr: Nitrobenzene-d5	0	JS		41-120	%REC	1000	12-Aug-2020 12:55
Surr: Nitrobenzene-d5	0	JS		41-120	%REC	100	11-Aug-2020 20:39
Surr: Phenol-d6	0	JS		20-120	%REC	1000	12-Aug-2020 12:55
Surr: Phenol-d6	103			20-120	%REC	10	11-Aug-2020 19:41
Surr: Phenol-d6	0	JS		20-120	%REC	100	11-Aug-2020 20:39
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 30-Jul-2020		Analyst: JC	
Arsenic	0.0195		0.000400	0.00200	mg/L	1	01-Aug-2020 00:02

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW36D-20200729
 Collection Date: 29-Jul-2020 11:30

ANALYTICAL REPORT
 WorkOrder:HS20071344
 Lab ID:HS20071344-04
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	30-Jul-2020 19:38
Benzene	U		0.00020	0.0010	mg/L	1	30-Jul-2020 19:38
Chlorobenzene	U		0.00030	0.0010	mg/L	1	30-Jul-2020 19:38
Ethylbenzene	U		0.00030	0.0010	mg/L	1	30-Jul-2020 19:38
Methylene chloride	U		0.0010	0.0020	mg/L	1	30-Jul-2020 19:38
Toluene	U		0.00020	0.0010	mg/L	1	30-Jul-2020 19:38
Xylenes, Total	U		0.00030	0.0010	mg/L	1	30-Jul-2020 19:38
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>95.2</i>			<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>30-Jul-2020 19:38</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>97.6</i>			<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>30-Jul-2020 19:38</i>
<i>Surr: Dibromofluoromethane</i>	<i>98.9</i>			<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>30-Jul-2020 19:38</i>
<i>Surr: Toluene-d8</i>	<i>101</i>			<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>30-Jul-2020 19:38</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW36D-20200729
 Collection Date: 29-Jul-2020 11:30

ANALYTICAL REPORT
 WorkOrder:HS20071344
 Lab ID:HS20071344-04
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 03-Aug-2020		Analyst: ACN	
1,2-Diphenylhydrazine	U		0.000021	0.00020	mg/L	1	11-Aug-2020 19:02
2,4-Dimethylphenol	U		0.000040	0.00020	mg/L	1	11-Aug-2020 19:02
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	11-Aug-2020 19:02
2,6-Dinitrotoluene	U		0.000042	0.00020	mg/L	1	11-Aug-2020 19:02
2-Chloronaphthalene	U		0.000021	0.00020	mg/L	1	11-Aug-2020 19:02
2-Methylnaphthalene	0.000069	J	0.000019	0.00010	mg/L	1	11-Aug-2020 19:02
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	11-Aug-2020 19:02
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	11-Aug-2020 19:02
Acenaphthene	0.000067	J	0.000027	0.00010	mg/L	1	11-Aug-2020 19:02
Acenaphthylene	U		0.000015	0.00010	mg/L	1	11-Aug-2020 19:02
Anthracene	0.000066	J	0.000014	0.00010	mg/L	1	11-Aug-2020 19:02
Benz(a)anthracene	0.000052	J	0.000050	0.00010	mg/L	1	11-Aug-2020 19:02
Benzo(a)pyrene	0.000056	J	0.000020	0.00010	mg/L	1	11-Aug-2020 19:02
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	11-Aug-2020 19:02
Bis(2-ethylhexyl)phthalate	0.00010	J	0.000037	0.00020	mg/L	1	11-Aug-2020 19:02
Chrysene	0.000062	J	0.000021	0.00010	mg/L	1	11-Aug-2020 19:02
Dibenzofuran	0.000080	J	0.000020	0.00010	mg/L	1	11-Aug-2020 19:02
Di-n-butyl phthalate	0.000062	J	0.000020	0.00020	mg/L	1	11-Aug-2020 19:02
Fluoranthene	0.00014		0.000010	0.00010	mg/L	1	11-Aug-2020 19:02
Fluorene	0.000081	J	0.000030	0.00010	mg/L	1	11-Aug-2020 19:02
Naphthalene	0.00047		0.000020	0.00010	mg/L	1	11-Aug-2020 19:02
Nitrobenzene	U		0.000024	0.00020	mg/L	1	11-Aug-2020 19:02
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	11-Aug-2020 19:02
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	11-Aug-2020 19:02
Phenanthrene	0.00026		0.000021	0.00010	mg/L	1	11-Aug-2020 19:02
Phenol	U		0.000035	0.00020	mg/L	1	11-Aug-2020 19:02
Pyrene	0.00010		0.000019	0.00010	mg/L	1	11-Aug-2020 19:02
<i>Surr: 2,4,6-Tribromophenol</i>	64.6			34-129	%REC	1	11-Aug-2020 19:02
<i>Surr: 2-Fluorobiphenyl</i>	52.5			40-125	%REC	1	11-Aug-2020 19:02
<i>Surr: 2-Fluorophenol</i>	45.5			20-120	%REC	1	11-Aug-2020 19:02
<i>Surr: 4-Terphenyl-d14</i>	88.3			40-135	%REC	1	11-Aug-2020 19:02
<i>Surr: Nitrobenzene-d5</i>	76.7			41-120	%REC	1	11-Aug-2020 19:02
<i>Surr: Phenol-d6</i>	56.1			20-120	%REC	1	11-Aug-2020 19:02
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 30-Jul-2020		Analyst: JC	
Arsenic	U		0.000400	0.00200	mg/L	1	01-Aug-2020 00:04

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW65D-20200729
 Collection Date: 29-Jul-2020 13:20

ANALYTICAL REPORT
 WorkOrder:HS20071344
 Lab ID:HS20071344-05
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	SQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	30-Jul-2020 13:52
Benzene	U		0.00020	0.0010	mg/L	1	30-Jul-2020 13:52
Chlorobenzene	U		0.00030	0.0010	mg/L	1	30-Jul-2020 13:52
Ethylbenzene	U		0.00030	0.0010	mg/L	1	30-Jul-2020 13:52
Methylene chloride	U		0.0010	0.0020	mg/L	1	30-Jul-2020 13:52
Toluene	U		0.00020	0.0010	mg/L	1	30-Jul-2020 13:52
Vinyl chloride	U		0.00020	0.0010	mg/L	1	30-Jul-2020 13:52
Xylenes, Total	U		0.00030	0.0010	mg/L	1	30-Jul-2020 13:52
<i>Surr: 1,2-Dichloroethane-d4</i>		<i>95.5</i>		<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>30-Jul-2020 13:52</i>
<i>Surr: 4-Bromofluorobenzene</i>		<i>98.1</i>		<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>30-Jul-2020 13:52</i>
<i>Surr: Dibromofluoromethane</i>		<i>100.0</i>		<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>30-Jul-2020 13:52</i>
<i>Surr: Toluene-d8</i>		<i>101</i>		<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>30-Jul-2020 13:52</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW65D-20200729
 Collection Date: 29-Jul-2020 13:20

ANALYTICAL REPORT
 WorkOrder:HS20071344
 Lab ID:HS20071344-05
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 03-Aug-2020		Analyst: ACN	
1,2-Diphenylhydrazine		U	0.000021	0.00020	mg/L	1	11-Aug-2020 17:43
2,4-Dimethylphenol		U	0.000040	0.00020	mg/L	1	11-Aug-2020 17:43
2,4-Dinitrotoluene		U	0.000058	0.00020	mg/L	1	11-Aug-2020 17:43
2,6-Dinitrotoluene		U	0.000042	0.00020	mg/L	1	11-Aug-2020 17:43
2-Chloronaphthalene		U	0.000021	0.00020	mg/L	1	11-Aug-2020 17:43
2-Methylnaphthalene	0.000051	J	0.000019	0.00010	mg/L	1	11-Aug-2020 17:43
4,6-Dinitro-2-methylphenol		U	0.000020	0.00020	mg/L	1	11-Aug-2020 17:43
4-Nitrophenol		U	0.000047	0.0010	mg/L	1	11-Aug-2020 17:43
Acenaphthene	0.000041	J	0.000027	0.00010	mg/L	1	11-Aug-2020 17:43
Acenaphthylene		U	0.000015	0.00010	mg/L	1	11-Aug-2020 17:43
Anthracene	0.000022	J	0.000014	0.00010	mg/L	1	11-Aug-2020 17:43
Benz(a)anthracene	0.000058	J	0.000050	0.00010	mg/L	1	11-Aug-2020 17:43
Benzo(a)pyrene	0.000034	J	0.000020	0.00010	mg/L	1	11-Aug-2020 17:43
Bis(2-chloroethoxy)methane		U	0.000030	0.00020	mg/L	1	11-Aug-2020 17:43
Bis(2-ethylhexyl)phthalate	0.000073	J	0.000037	0.00020	mg/L	1	11-Aug-2020 17:43
Chrysene	0.000040	J	0.000021	0.00010	mg/L	1	11-Aug-2020 17:43
Dibenzofuran	0.000029	J	0.000020	0.00010	mg/L	1	11-Aug-2020 17:43
Di-n-butyl phthalate	0.000025	J	0.000020	0.00020	mg/L	1	11-Aug-2020 17:43
Fluoranthene	0.000048	J	0.000010	0.00010	mg/L	1	11-Aug-2020 17:43
Fluorene		U	0.000030	0.00010	mg/L	1	11-Aug-2020 17:43
Naphthalene	0.00057		0.000020	0.00010	mg/L	1	11-Aug-2020 17:43
Nitrobenzene		U	0.000024	0.00020	mg/L	1	11-Aug-2020 17:43
N-Nitrosodiphenylamine		U	0.000025	0.00020	mg/L	1	11-Aug-2020 17:43
Pentachlorophenol		U	0.000079	0.00020	mg/L	1	11-Aug-2020 17:43
Phenanthrene	0.000067	J	0.000021	0.00010	mg/L	1	11-Aug-2020 17:43
Phenol		U	0.000035	0.00020	mg/L	1	11-Aug-2020 17:43
Pyrene	0.000039	J	0.000019	0.00010	mg/L	1	11-Aug-2020 17:43
<i>Surr: 2,4,6-Tribromophenol</i>	<i>68.0</i>			<i>34-129</i>	<i>%REC</i>	<i>1</i>	<i>11-Aug-2020 17:43</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>58.5</i>			<i>40-125</i>	<i>%REC</i>	<i>1</i>	<i>11-Aug-2020 17:43</i>
<i>Surr: 2-Fluorophenol</i>	<i>47.8</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>11-Aug-2020 17:43</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>91.0</i>			<i>40-135</i>	<i>%REC</i>	<i>1</i>	<i>11-Aug-2020 17:43</i>
<i>Surr: Nitrobenzene-d5</i>	<i>90.1</i>			<i>41-120</i>	<i>%REC</i>	<i>1</i>	<i>11-Aug-2020 17:43</i>
<i>Surr: Phenol-d6</i>	<i>62.8</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>11-Aug-2020 17:43</i>
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 30-Jul-2020		Analyst: JC	
Arsenic	0.00142	J	0.000400	0.00200	mg/L	1	31-Jul-2020 22:09

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-FB11-20200729
 Collection Date: 29-Jul-2020 16:00

ANALYTICAL REPORT
 WorkOrder:HS20071344
 Lab ID:HS20071344-06
 Matrix:Water

ANALYSES	RESULT	QUAL	SDL	MLL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	30-Jul-2020 15:54
Benzene	U		0.00020	0.0010	mg/L	1	30-Jul-2020 15:54
Chlorobenzene	U		0.00030	0.0010	mg/L	1	30-Jul-2020 15:54
Ethylbenzene	U		0.00030	0.0010	mg/L	1	30-Jul-2020 15:54
Methylene chloride	U		0.0010	0.0020	mg/L	1	30-Jul-2020 15:54
Toluene	U		0.00020	0.0010	mg/L	1	30-Jul-2020 15:54
Vinyl chloride	U		0.00020	0.0010	mg/L	1	30-Jul-2020 15:54
Xylenes, Total	U		0.00030	0.0010	mg/L	1	30-Jul-2020 15:54
<i>Surr: 1,2-Dichloroethane-d4</i>		95.3		70-126	%REC	1	30-Jul-2020 15:54
<i>Surr: 4-Bromofluorobenzene</i>		98.9		81-113	%REC	1	30-Jul-2020 15:54
<i>Surr: Dibromofluoromethane</i>		100		77-123	%REC	1	30-Jul-2020 15:54
<i>Surr: Toluene-d8</i>		102		82-127	%REC	1	30-Jul-2020 15:54

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-FB11-20200729
 Collection Date: 29-Jul-2020 16:00

ANALYTICAL REPORT
 WorkOrder:HS20071344
 Lab ID:HS20071344-06
 Matrix:Water

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 03-Aug-2020		Analyst: ACN	
1,2-Diphenylhydrazine	U		0.000021	0.00020	mg/L	1	11-Aug-2020 18:42
2,4-Dimethylphenol	U		0.000040	0.00020	mg/L	1	11-Aug-2020 18:42
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	11-Aug-2020 18:42
2,6-Dinitrotoluene	U		0.000042	0.00020	mg/L	1	11-Aug-2020 18:42
2-Chloronaphthalene	U		0.000021	0.00020	mg/L	1	11-Aug-2020 18:42
2-Methylnaphthalene	U		0.000019	0.00010	mg/L	1	11-Aug-2020 18:42
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	11-Aug-2020 18:42
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	11-Aug-2020 18:42
Acenaphthene	U		0.000027	0.00010	mg/L	1	11-Aug-2020 18:42
Acenaphthylene	U		0.000015	0.00010	mg/L	1	11-Aug-2020 18:42
Anthracene	U		0.000014	0.00010	mg/L	1	11-Aug-2020 18:42
Benz(a)anthracene	U		0.000050	0.00010	mg/L	1	11-Aug-2020 18:42
Benzo(a)pyrene	U		0.000020	0.00010	mg/L	1	11-Aug-2020 18:42
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	11-Aug-2020 18:42
Bis(2-ethylhexyl)phthalate	U		0.000037	0.00020	mg/L	1	11-Aug-2020 18:42
Chrysene	0.000034	J	0.000021	0.00010	mg/L	1	11-Aug-2020 18:42
Dibenzofuran	U		0.000020	0.00010	mg/L	1	11-Aug-2020 18:42
Di-n-butyl phthalate	U		0.000020	0.00020	mg/L	1	11-Aug-2020 18:42
Fluoranthene	0.000019	J	0.000010	0.00010	mg/L	1	11-Aug-2020 18:42
Fluorene	U		0.000030	0.00010	mg/L	1	11-Aug-2020 18:42
Naphthalene	0.000046	J	0.000020	0.00010	mg/L	1	11-Aug-2020 18:42
Nitrobenzene	U		0.000024	0.00020	mg/L	1	11-Aug-2020 18:42
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	11-Aug-2020 18:42
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	11-Aug-2020 18:42
Phenanthrene	0.000027	J	0.000021	0.00010	mg/L	1	11-Aug-2020 18:42
Phenol	U		0.000035	0.00020	mg/L	1	11-Aug-2020 18:42
Pyrene	0.000020	J	0.000019	0.00010	mg/L	1	11-Aug-2020 18:42
<i>Surr: 2,4,6-Tribromophenol</i>	56.9			34-129	%REC	1	11-Aug-2020 18:42
<i>Surr: 2-Fluorobiphenyl</i>	56.9			40-125	%REC	1	11-Aug-2020 18:42
<i>Surr: 2-Fluorophenol</i>	43.5			20-120	%REC	1	11-Aug-2020 18:42
<i>Surr: 4-Terphenyl-d14</i>	85.9			40-135	%REC	1	11-Aug-2020 18:42
<i>Surr: Nitrobenzene-d5</i>	84.5			41-120	%REC	1	11-Aug-2020 18:42
<i>Surr: Phenol-d6</i>	72.2			20-120	%REC	1	11-Aug-2020 18:42
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 30-Jul-2020		Analyst: JC	
Arsenic	U		0.000400	0.00200	mg/L	1	01-Aug-2020 00:06

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Weight / Prep Log

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071344

Batch ID: 155902 **Start Date:** 30 Jul 2020 09:00 **End Date:** 30 Jul 2020 13:00
Method: WATER - SW3010A **Prep Code:** 3010A

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS20071344-02		10 (mL)	10 (mL)	1
HS20071344-03		10 (mL)	10 (mL)	1
HS20071344-04		10 (mL)	10 (mL)	1
HS20071344-06		10 (mL)	10 (mL)	1

Batch ID: 155910 **Start Date:** 30 Jul 2020 12:00 **End Date:** 30 Jul 2020 16:00
Method: WATER - SW3010A **Prep Code:** 3010A

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS20071344-05		10 (mL)	10 (mL)	1

Batch ID: 155998 **Start Date:** 03 Aug 2020 08:30 **End Date:** 03 Aug 2020 14:30
Method: SV AQ SEP FUN EXTRACT-LOWLEV - 3510C **Prep Code:** 3510_B_LOW

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS20071344-02	1	1000 (mL)	1 (mL)	0.001
HS20071344-03	1	1000 (mL)	1 (mL)	0.001
HS20071344-04	1	1000 (mL)	1 (mL)	0.001
HS20071344-05	1	1000 (mL)	1 (mL)	0.001
HS20071344-06	1	1000 (mL)	1 (mL)	0.001

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071344

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 155902 (0)		Test Name : ICP-MS METALS BY SW6020A			Matrix: Water	
HS20071344-06	WG-1620-FB11-20200729	29 Jul 2020 16:00		30 Jul 2020 13:00	01 Aug 2020 00:06	1
Batch ID: 155902 (0)		Test Name : ICP-MS METALS BY SW6020A			Matrix: Groundwater	
HS20071344-02	WG-1620-MW41B-20200729	29 Jul 2020 09:00		30 Jul 2020 13:00	01 Aug 2020 00:00	1
HS20071344-03	WG-1620-MW12B-20200729	29 Jul 2020 09:55		30 Jul 2020 13:00	01 Aug 2020 00:02	1
HS20071344-04	WG-1620-MW36D-20200729	29 Jul 2020 11:30		30 Jul 2020 13:00	01 Aug 2020 00:04	1
Batch ID: 155910 (0)		Test Name : ICP-MS METALS BY SW6020A			Matrix: Groundwater	
HS20071344-05	WG-1620-MW65D-20200729	29 Jul 2020 13:20		30 Jul 2020 16:00	31 Jul 2020 22:09	1
Batch ID: 155998 (0)		Test Name : LOW-LEVEL SEMIVOLATILES BY 8270D			Matrix: Water	
HS20071344-06	WG-1620-FB11-20200729	29 Jul 2020 16:00		03 Aug 2020 14:03	11 Aug 2020 18:42	1
Batch ID: 155998 (0)		Test Name : LOW-LEVEL SEMIVOLATILES BY 8270D			Matrix: Groundwater	
HS20071344-02	WG-1620-MW41B-20200729	29 Jul 2020 09:00		03 Aug 2020 14:03	12 Aug 2020 12:35	1000
HS20071344-02	WG-1620-MW41B-20200729	29 Jul 2020 09:00		03 Aug 2020 14:03	11 Aug 2020 19:21	10
HS20071344-03	WG-1620-MW12B-20200729	29 Jul 2020 09:55		03 Aug 2020 14:03	12 Aug 2020 12:55	1000
HS20071344-03	WG-1620-MW12B-20200729	29 Jul 2020 09:55		03 Aug 2020 14:03	11 Aug 2020 20:39	100
HS20071344-03	WG-1620-MW12B-20200729	29 Jul 2020 09:55		03 Aug 2020 14:03	11 Aug 2020 19:41	10
HS20071344-04	WG-1620-MW36D-20200729	29 Jul 2020 11:30		03 Aug 2020 14:03	11 Aug 2020 19:02	1
HS20071344-05	WG-1620-MW65D-20200729	29 Jul 2020 13:20		03 Aug 2020 14:03	11 Aug 2020 17:43	1
Batch ID: R366012 (0)		Test Name : LOW LEVEL VOLATILES BY SW8260C			Matrix: Groundwater	
HS20071344-02	WG-1620-MW41B-20200729	29 Jul 2020 09:00			30 Jul 2020 18:49	1
HS20071344-03	WG-1620-MW12B-20200729	29 Jul 2020 09:55			30 Jul 2020 19:13	1
HS20071344-04	WG-1620-MW36D-20200729	29 Jul 2020 11:30			30 Jul 2020 19:38	1
HS20071344-05	WG-1620-MW65D-20200729	29 Jul 2020 13:20			30 Jul 2020 13:52	1
Batch ID: R366012 (0)		Test Name : LOW LEVEL VOLATILES BY SW8260C			Matrix: Water	
HS20071344-01	WQ-1620-TB07-20200729	29 Jul 2020 16:00			30 Jul 2020 15:29	1
HS20071344-06	WG-1620-FB11-20200729	29 Jul 2020 16:00			30 Jul 2020 15:54	1

WorkOrder: HS20071344
InstrumentID: ICPMS04
Test Code: ICP_TW
Test Number: SW6020
Test Name: ICP-MS Metals by SW6020A

**METHOD DETECTION /
REPORTING LIMITS**

Matrix: Aqueous **Units:** mg/L

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	Arsenic	7440-38-2	0.00100	0.00110	0.000400	0.00200

WorkOrder: HS20071344
 InstrumentID: SV-6
 Test Code: 8270_LOW_W
 Test Number: SW8270
 Test Name: Low-Level Semivolatiles by 8270D

**METHOD DETECTION /
 REPORTING LIMITS**

Matrix: Aqueous

Units: mg/L

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	1,2-Diphenylhydrazine	122-66-7	0.00010	0.000074	0.000021	0.00020
A	2,4-Dimethylphenol	105-67-9	0.00010	0.000077	0.000040	0.00020
A	2,4-Dinitrotoluene	121-14-2	0.00010	0.000065	0.000058	0.00020
A	2,6-Dinitrotoluene	606-20-2	0.00010	0.000074	0.000042	0.00020
A	2-Chloronaphthalene	91-58-7	0.00010	0.000093	0.000021	0.00020
A	2-Methylnaphthalene	91-57-6	0.000050	0.000035	0.000019	0.00010
A	4,6-Dinitro-2-methylphenol	534-52-1	0.00010	0.000037	0.000020	0.00020
A	4-Nitrophenol	100-02-7	0.00010	0.000024	0.000047	0.0010
A	Acenaphthene	83-32-9	0.000050	0.000043	0.000027	0.00010
A	Acenaphthylene	208-96-8	0.000050	0.000039	0.000015	0.00010
A	Anthracene	120-12-7	0.000050	0.000037	0.000014	0.00010
A	Benz(a)anthracene	56-55-3	0.000050	0.000029	0.000050	0.00010
A	Benzo(a)pyrene	50-32-8	0.000050	0.000030	0.000020	0.00010
A	Bis(2-chloroethoxy)methane	111-91-1	0.00010	0.000091	0.000030	0.00020
A	Bis(2-ethylhexyl)phthalate	117-81-7	0.00010	0.000036	0.000037	0.00020
A	Chrysene	218-01-9	0.000050	0.000044	0.000021	0.00010
A	Dibenzofuran	132-64-9	0.000050	0.000038	0.000020	0.00010
A	Di-n-butyl phthalate	84-74-2	0.00010	0.000071	0.000020	0.00020
A	Fluoranthene	206-44-0	0.000050	0.000036	0.000010	0.00010
A	Fluorene	86-73-7	0.000050	0.000039	0.000030	0.00010
A	Naphthalene	91-20-3	0.000050	0.000042	0.000020	0.00010
A	Nitrobenzene	98-95-3	0.00010	0.00011	0.000024	0.00020
A	N-Nitrosodiphenylamine	86-30-6	0.00010	0.000084	0.000025	0.00020
A	Pentachlorophenol	87-86-5	0.00010	0.000040	0.000079	0.00020
A	Phenanthrene	85-01-8	0.000050	0.000040	0.000021	0.00010
A	Phenol	108-95-2	0.00010	0.000083	0.000035	0.00020
A	Pyrene	129-00-0	0.000050	0.000043	0.000019	0.00010
S	2,4,6-Tribromophenol	118-79-6	0	0	0	0.00020
S	2-Fluorobiphenyl	321-60-8	0	0	0	0.00020
S	2-Fluorophenol	367-12-4	0	0	0	0.00020
S	4-Terphenyl-d14	1718-51-0	0	0	0	0.00020
S	Nitrobenzene-d5	4165-60-0	0	0	0	0.00020
S	Phenol-d6	13127-88-3	0	0	0	0.00020

WorkOrder: HS20071344
 InstrumentID: VOA2
 Test Code: 8260_LL_W
 Test Number: SW8260
 Test Name: Low Level Volatiles by SW8260C

**METHOD DETECTION /
 REPORTING LIMITS**

Matrix: Aqueous

Units: mg/L

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	1,2-Dichloroethane	107-06-2	0.00050	0.00063	0.00020	0.0010
A	Benzene	71-43-2	0.00050	0.00052	0.00020	0.0010
A	Chlorobenzene	108-90-7	0.0010	0.0011	0.00030	0.0010
A	Ethylbenzene	100-41-4	0.0010	0.0011	0.00030	0.0010
A	Methylene chloride	75-09-2	0.0020	0.00081	0.0010	0.0020
A	Toluene	108-88-3	0.00050	0.00056	0.00020	0.0010
A	Vinyl chloride	75-01-4	0.00050	0.00035	0.00020	0.0010
A	Xylenes, Total	1330-20-7	0.0010	0.0032	0.00030	0.0010
S	1,2-Dichloroethane-d4	17060-07-0	0	0	0	0.0010
S	4-Bromofluorobenzene	460-00-4	0	0	0	0.0010
S	Dibromofluoromethane	1868-53-7	0	0	0	0.0010
S	Toluene-d8	2037-26-5	0	0	0	0.0010

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071344

QC BATCH REPORT

Batch ID: 155902 (0)	Instrument: ICPMS04	Method: ICP-MS METALS BY SW6020A
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MBLK	Sample ID: MBLK-155902	Units: mg/L	Analysis Date: 03-Aug-2020 21:10							
Client ID:	Run ID: ICPMS04_366078	SeqNo: 5683278	PrepDate: 30-Jul-2020 DF: 1							
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Arsenic U 0.00200

LCS	Sample ID: LCS-155902	Units: mg/L	Analysis Date: 31-Jul-2020 23:15							
Client ID:	Run ID: ICPMS04_365994	SeqNo: 5682569	PrepDate: 30-Jul-2020 DF: 1							
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Arsenic 0.0484 0.00200 0.05 0 96.8 80 - 120

MS	Sample ID: HS20071288-02MS	Units: mg/L	Analysis Date: 31-Jul-2020 23:21							
Client ID:	Run ID: ICPMS04_365994	SeqNo: 5682572	PrepDate: 30-Jul-2020 DF: 1							
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Arsenic 0.06715 0.00200 0.05 0.01615 102 80 - 120

MSD	Sample ID: HS20071288-02MSD	Units: mg/L	Analysis Date: 31-Jul-2020 23:24							
Client ID:	Run ID: ICPMS04_365994	SeqNo: 5682573	PrepDate: 30-Jul-2020 DF: 1							
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Arsenic 0.06117 0.00200 0.05 0.01615 90.0 80 - 120 0.06715 9.33 20

PDS	Sample ID: HS20071288-02PDS	Units: mg/L	Analysis Date: 31-Jul-2020 23:26							
Client ID:	Run ID: ICPMS04_365994	SeqNo: 5682574	PrepDate: 30-Jul-2020 DF: 1							
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Arsenic 0.1185 0.00200 0.1 0.01615 102 75 - 125

SD	Sample ID: HS20071288-02SD	Units: mg/L	Analysis Date: 31-Jul-2020 23:19							
Client ID:	Run ID: ICPMS04_365994	SeqNo: 5682571	PrepDate: 30-Jul-2020 DF: 5							
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	RPD Limit	RPD Qual

Arsenic 0.01693 0.0100 0.01615 4.82 10

The following samples were analyzed in this batch: HS20071344-02 HS20071344-03 HS20071344-04 HS20071344-06

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071344

QC BATCH REPORT

Batch ID: 155910 (0)		Instrument: ICPMS04		Method: ICP-MS METALS BY SW6020A						
MBLK	Sample ID: MBLK-155910	Units: mg/L		Analysis Date: 31-Jul-2020 22:05						
Client ID:		Run ID: ICPMS04_365994	SeqNo: 5682523	PrepDate: 30-Jul-2020	DF: 1					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual	
Arsenic	U	0.00200								
LCS	Sample ID: LCS-155910	Units: mg/L		Analysis Date: 31-Jul-2020 22:07						
Client ID:		Run ID: ICPMS04_365994	SeqNo: 5682524	PrepDate: 30-Jul-2020	DF: 1					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual	
Arsenic	0.04648	0.00200	0.05	0	93.0	80 - 120				
MS	Sample ID: HS20071344-05MS	Units: mg/L		Analysis Date: 31-Jul-2020 22:14						
Client ID: WG-1620-MW65D-20200729		Run ID: ICPMS04_365994	SeqNo: 5682527	PrepDate: 30-Jul-2020	DF: 1					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual	
Arsenic	0.0481	0.00200	0.05	0.001415	93.4	80 - 120				
MSD	Sample ID: HS20071344-05MSD	Units: mg/L		Analysis Date: 31-Jul-2020 22:16						
Client ID: WG-1620-MW65D-20200729		Run ID: ICPMS04_365994	SeqNo: 5682528	PrepDate: 30-Jul-2020	DF: 1					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual	
Arsenic	0.04814	0.00200	0.05	0.001415	93.4	80 - 120	0.0481	0.0852	20	
PDS	Sample ID: HS20071344-05PDS	Units: mg/L		Analysis Date: 31-Jul-2020 22:18						
Client ID: WG-1620-MW65D-20200729		Run ID: ICPMS04_365994	SeqNo: 5682529	PrepDate: 30-Jul-2020	DF: 1					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual	
Arsenic	0.09127	0.00200	0.1	0.001415	89.9	75 - 125				
SD	Sample ID: HS20071344-05SD	Units: mg/L		Analysis Date: 31-Jul-2020 22:11						
Client ID: WG-1620-MW65D-20200729		Run ID: ICPMS04_365994	SeqNo: 5682526	PrepDate: 30-Jul-2020	DF: 5					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	RPD Limit Qual	
Arsenic	U	0.0100					0.001415	0	10	

The following samples were analyzed in this batch: HS20071344-05

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071344

QC BATCH REPORT

Batch ID: 155998 (0)		Instrument: SV-6		Method: LOW-LEVEL SEMIVOLATILES BY 8270D						
MBLK	Sample ID: MBLK-155998	Units: ug/L			Analysis Date: 11-Aug-2020 16:06					
Client ID:	Run ID: SV-6_366545	SeqNo: 5696991		PrepDate: 03-Aug-2020		DF: 1				
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
1,2-Diphenylhydrazine	U	0.20								
2,4-Dimethylphenol	U	0.20								
2,4-Dinitrotoluene	U	0.20								
2,6-Dinitrotoluene	U	0.20								
2-Chloronaphthalene	U	0.20								
2-Methylnaphthalene	U	0.10								
4,6-Dinitro-2-methylphenol	U	0.20								
4-Nitrophenol	U	1.0								
Acenaphthene	U	0.10								
Acenaphthylene	U	0.10								
Anthracene	U	0.10								
Benz(a)anthracene	U	0.10								
Benzo(a)pyrene	U	0.10								
Bis(2-chloroethoxy)methane	U	0.20								
Bis(2-ethylhexyl)phthalate	U	0.20								
Chrysene	U	0.10								
Dibenzofuran	U	0.10								
Di-n-butyl phthalate	U	0.20								
Fluoranthene	U	0.10								
Fluorene	U	0.10								
Naphthalene	U	0.10								
Nitrobenzene	U	0.20								
N-Nitrosodiphenylamine	U	0.20								
Pentachlorophenol	U	0.20								
Phenanthrene	U	0.10								
Phenol	U	0.20								
Pyrene	U	0.10								
<i>Surr: 2,4,6-Tribromophenol</i>	<i>3.785</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>75.7</i>	<i>34 - 129</i>				
<i>Surr: 2-Fluorobiphenyl</i>	<i>4.174</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>83.5</i>	<i>40 - 125</i>				
<i>Surr: 2-Fluorophenol</i>	<i>3.304</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>66.1</i>	<i>20 - 120</i>				
<i>Surr: 4-Terphenyl-d14</i>	<i>4.474</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>89.5</i>	<i>40 - 135</i>				
<i>Surr: Nitrobenzene-d5</i>	<i>4.979</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>99.6</i>	<i>41 - 120</i>				
<i>Surr: Phenol-d6</i>	<i>4.432</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>88.6</i>	<i>20 - 120</i>				

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071344

QC BATCH REPORT

Batch ID: 155998 (0)		Instrument: SV-6		Method: LOW-LEVEL SEMIVOLATILES BY 8270D						
LCS	Sample ID: LCS-155998	Units: ug/L			Analysis Date: 11-Aug-2020 16:25					
Client ID:	Run ID: SV-6_366545	SeqNo: 5696992	PrepDate: 03-Aug-2020	DF: 1						
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Diphenylhydrazine	3.573	0.20	5	0	71.5	39 - 127				
2,4-Dimethylphenol	3.118	0.20	5	0	62.4	35 - 120				
2,4-Dinitrotoluene	3.514	0.20	5	0	70.3	50 - 122				
2,6-Dinitrotoluene	3.437	0.20	5	0	68.7	50 - 120				
2-Chloronaphthalene	3.487	0.20	5	0	69.7	50 - 120				
2-Methylnaphthalene	3.356	0.10	5	0	67.1	50 - 120				
4,6-Dinitro-2-methylphenol	2.337	0.20	5	0	46.7	25 - 121				
4-Nitrophenol	3.711	1.0	5	0	74.2	30 - 130				
Acenaphthene	3.048	0.10	5	0	61.0	45 - 120				
Acenaphthylene	3.014	0.10	5	0	60.3	47 - 120				
Anthracene	3.62	0.10	5	0	72.4	45 - 120				
Benz(a)anthracene	3.543	0.10	5	0	70.9	40 - 120				
Benzo(a)pyrene	3.536	0.10	5	0	70.7	45 - 120				
Bis(2-chloroethoxy)methane	3.539	0.20	5	0	70.8	45 - 120				
Bis(2-ethylhexyl)phthalate	3.014	0.20	5	0	60.3	40 - 139				
Chrysene	3.219	0.10	5	0	64.4	43 - 120				
Dibenzofuran	3.191	0.10	5	0	63.8	50 - 120				
Di-n-butyl phthalate	3.41	0.20	5	0	68.2	45 - 123				
Fluoranthene	3.61	0.10	5	0	72.2	45 - 125				
Fluorene	3.271	0.10	5	0	65.4	49 - 120				
Naphthalene	3.315	0.10	5	0	66.3	45 - 120				
Nitrobenzene	4.378	0.20	5	0	87.6	44 - 120				
N-Nitrosodiphenylamine	3.261	0.20	5	0	65.2	40 - 125				
Pentachlorophenol	1.901	0.20	5	0	38.0	19 - 121				
Phenanthrene	3.426	0.10	5	0	68.5	45 - 121				
Phenol	2.825	0.20	5	0	56.5	20 - 124				
Pyrene	3.374	0.10	5	0	67.5	40 - 130				
<i>Surr: 2,4,6-Tribromophenol</i>	<i>3.686</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>73.7</i>	<i>34 - 129</i>				
<i>Surr: 2-Fluorobiphenyl</i>	<i>3.518</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>70.4</i>	<i>40 - 125</i>				
<i>Surr: 2-Fluorophenol</i>	<i>3.054</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>61.1</i>	<i>20 - 120</i>				
<i>Surr: 4-Terphenyl-d14</i>	<i>3.968</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>79.4</i>	<i>40 - 135</i>				
<i>Surr: Nitrobenzene-d5</i>	<i>5.751</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>115</i>	<i>41 - 120</i>				
<i>Surr: Phenol-d6</i>	<i>3.443</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>68.9</i>	<i>20 - 120</i>				

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071344

QC BATCH REPORT

Batch ID: 155998 (0)		Instrument: SV-6		Method: LOW-LEVEL SEMIVOLATILES BY 8270D						
MS		Sample ID: HS20071344-05MS		Units: ug/L		Analysis Date: 11-Aug-2020 18:03				
Client ID: WG-1620-MW65D-20200729		Run ID: SV-6_366545		SeqNo: 5696994		PrepDate: 03-Aug-2020		DF: 1		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
1,2-Diphenylhydrazine	3.113	0.20	5	0	62.3	39 - 127				
2,4-Dimethylphenol	2.478	0.20	5	0	49.6	35 - 120				
2,4-Dinitrotoluene	3.814	0.20	5	0	76.3	50 - 122				
2,6-Dinitrotoluene	3.303	0.20	5	0	66.1	50 - 120				
2-Chloronaphthalene	2.973	0.20	5	0	59.5	50 - 120				
2-Methylnaphthalene	2.806	0.10	5	0.05122	55.1	50 - 120				
4,6-Dinitro-2-methylphenol	3.399	0.20	5	0	68.0	25 - 121				
4-Nitrophenol	4.447	1.0	5	0	88.9	30 - 130				
Acenaphthene	2.599	0.10	5	0.04117	51.2	45 - 120				
Acenaphthylene	2.538	0.10	5	0	50.8	47 - 120				
Anthracene	3.31	0.10	5	0.02185	65.8	45 - 120				
Benz(a)anthracene	3.808	0.10	5	0.05812	75.0	40 - 120				
Benzo(a)pyrene	3.798	0.10	5	0.03402	75.3	45 - 120				
Bis(2-chloroethoxy)methane	2.881	0.20	5	0	57.6	45 - 120				
Bis(2-ethylhexyl)phthalate	3.18	0.20	5	0.07316	62.1	40 - 139				
Chrysene	3.519	0.10	5	0.04011	69.6	43 - 120				
Dibenzofuran	2.844	0.10	5	0.02885	56.3	50 - 120				
Di-n-butyl phthalate	3.529	0.20	5	0.02459	70.1	45 - 123				
Fluoranthene	3.738	0.10	5	0.04751	73.8	45 - 125				
Fluorene	2.963	0.10	5	0.02201	58.8	49 - 120				
Naphthalene	3.318	0.10	5	0.5693	55.0	45 - 120				
Nitrobenzene	3.64	0.20	5	0	72.8	44 - 120				
N-Nitrosodiphenylamine	3.217	0.20	5	0	64.3	40 - 125				
Pentachlorophenol	2.374	0.20	5	0	47.5	19 - 121				
Phenanthrene	3.412	0.10	5	0.06723	66.9	45 - 121				
Phenol	2.542	0.20	5	0	50.8	20 - 124				
Pyrene	3.595	0.10	5	0.03913	71.1	40 - 130				
<i>Surr: 2,4,6-Tribromophenol</i>	<i>3.903</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>78.1</i>	<i>34 - 129</i>				
<i>Surr: 2-Fluorobiphenyl</i>	<i>3.144</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>62.9</i>	<i>40 - 125</i>				
<i>Surr: 2-Fluorophenol</i>	<i>2.618</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>52.4</i>	<i>20 - 120</i>				
<i>Surr: 4-Terphenyl-d14</i>	<i>4.295</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>85.9</i>	<i>40 - 135</i>				
<i>Surr: Nitrobenzene-d5</i>	<i>4.774</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>95.5</i>	<i>41 - 120</i>				
<i>Surr: Phenol-d6</i>	<i>3.591</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>71.8</i>	<i>20 - 120</i>				

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071344

QC BATCH REPORT

Batch ID: 155998 (0) **Instrument:** SV-6 **Method:** LOW-LEVEL SEMIVOLATILES BY 8270D

MSD		Sample ID: HS20071344-05MSD			Units: ug/L		Analysis Date: 11-Aug-2020 18:23			
Client ID: WG-1620-MW65D-20200729		Run ID: SV-6_366545			SeqNo: 5696995		PrepDate: 03-Aug-2020		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Diphenylhydrazine	3.199	0.20	5	0	64.0	39 - 127	3.113	2.74	20	
2,4-Dimethylphenol	2.509	0.20	5	0	50.2	35 - 120	2.478	1.23	20	
2,4-Dinitrotoluene	3.611	0.20	5	0	72.2	50 - 122	3.814	5.46	20	
2,6-Dinitrotoluene	3.257	0.20	5	0	65.1	50 - 120	3.303	1.4	20	
2-Chloronaphthalene	2.951	0.20	5	0	59.0	50 - 120	2.973	0.771	20	
2-Methylnaphthalene	2.997	0.10	5	0.05122	58.9	50 - 120	2.806	6.58	20	
4,6-Dinitro-2-methylphenol	3.159	0.20	5	0	63.2	25 - 121	3.399	7.34	30	
4-Nitrophenol	4.219	1.0	5	0	84.4	30 - 130	4.447	5.25	20	
Acenaphthene	2.622	0.10	5	0.04117	51.6	45 - 120	2.599	0.878	20	
Acenaphthylene	2.614	0.10	5	0	52.3	47 - 120	2.538	2.97	20	
Anthracene	3.645	0.10	5	0.02185	72.5	45 - 120	3.31	9.63	20	
Benz(a)anthracene	3.621	0.10	5	0.05812	71.3	40 - 120	3.808	5.03	20	
Benzo(a)pyrene	3.655	0.10	5	0.03402	72.4	45 - 120	3.798	3.84	20	
Bis(2-chloroethoxy)methane	2.957	0.20	5	0	59.1	45 - 120	2.881	2.62	20	
Bis(2-ethylhexyl)phthalate	3.081	0.20	5	0.07316	60.2	40 - 139	3.18	3.14	20	
Chrysene	3.24	0.10	5	0.04011	64.0	43 - 120	3.519	8.25	20	
Dibenzofuran	2.808	0.10	5	0.02885	55.6	50 - 120	2.844	1.25	20	
Di-n-butyl phthalate	3.485	0.20	5	0.02459	69.2	45 - 123	3.529	1.24	20	
Fluoranthene	3.673	0.10	5	0.04751	72.5	45 - 125	3.738	1.77	20	
Fluorene	2.962	0.10	5	0.02201	58.8	49 - 120	2.963	0.0511	20	
Naphthalene	3.521	0.10	5	0.5693	59.0	45 - 120	3.318	5.93	20	
Nitrobenzene	3.694	0.20	5	0	73.9	44 - 120	3.64	1.48	20	
N-Nitrosodiphenylamine	3.056	0.20	5	0	61.1	40 - 125	3.217	5.15	20	
Pentachlorophenol	2.447	0.20	5	0	48.9	19 - 121	2.374	3.01	20	
Phenanthrene	3.462	0.10	5	0.06723	67.9	45 - 121	3.412	1.48	20	
Phenol	2.456	0.20	5	0	49.1	20 - 124	2.542	3.46	20	
Pyrene	3.423	0.10	5	0.03913	67.7	40 - 130	3.595	4.9	20	
<i>Surr: 2,4,6-Tribromophenol</i>	<i>3.681</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>73.6</i>	<i>34 - 129</i>	<i>3.903</i>	<i>5.84</i>	<i>20</i>	
<i>Surr: 2-Fluorobiphenyl</i>	<i>3.111</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>62.2</i>	<i>40 - 125</i>	<i>3.144</i>	<i>1.03</i>	<i>20</i>	
<i>Surr: 2-Fluorophenol</i>	<i>2.657</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>53.1</i>	<i>20 - 120</i>	<i>2.618</i>	<i>1.51</i>	<i>20</i>	
<i>Surr: 4-Terphenyl-d14</i>	<i>4.057</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>81.1</i>	<i>40 - 135</i>	<i>4.295</i>	<i>5.69</i>	<i>20</i>	
<i>Surr: Nitrobenzene-d5</i>	<i>4.792</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>95.8</i>	<i>41 - 120</i>	<i>4.774</i>	<i>0.367</i>	<i>20</i>	
<i>Surr: Phenol-d6</i>	<i>3.068</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>61.4</i>	<i>20 - 120</i>	<i>3.591</i>	<i>15.7</i>	<i>20</i>	

The following samples were analyzed in this batch: HS20071344-02 HS20071344-03 HS20071344-04 HS20071344-05
 HS20071344-06

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071344

QC BATCH REPORT

Batch ID: R366012 (0)		Instrument: VOA2		Method: LOW LEVEL VOLATILES BY SW8260C					
MBLK	Sample ID: VBLKW-200730	Units: ug/L			Analysis Date: 30-Jul-2020 11:26				
Client ID:	Run ID: VOA2_366012	SeqNo: 5681803		PrepDate:		DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

1,2-Dichloroethane	U	1.0							
Benzene	U	1.0							
Chlorobenzene	U	1.0							
Ethylbenzene	U	1.0							
Methylene chloride	U	2.0							
Toluene	U	1.0							
Vinyl chloride	U	1.0							
Xylenes, Total	U	1.0							
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>47.6</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>95.2</i>	<i>70 - 123</i>			
<i>Surr: 4-Bromofluorobenzene</i>	<i>49.61</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>99.2</i>	<i>82 - 115</i>			
<i>Surr: Dibromofluoromethane</i>	<i>49.05</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>98.1</i>	<i>73 - 126</i>			
<i>Surr: Toluene-d8</i>	<i>50.69</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>101</i>	<i>81 - 120</i>			

LCS	Sample ID: VLCSW-200730	Units: ug/L			Analysis Date: 30-Jul-2020 10:37				
Client ID:	Run ID: VOA2_366012	SeqNo: 5681802		PrepDate:		DF: 1			
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
1,2-Dichloroethane	19.09	1.0	20	0	95.5	70 - 124			
Benzene	20.16	1.0	20	0	101	74 - 120			
Chlorobenzene	19.63	1.0	20	0	98.1	76 - 113			
Ethylbenzene	19.51	1.0	20	0	97.5	77 - 117			
Methylene chloride	22.75	2.0	20	0	114	70 - 127			
Toluene	20.28	1.0	20	0	101	77 - 118			
Vinyl chloride	22.92	1.0	20	0	115	70 - 130			
Xylenes, Total	60.38	1.0	60	0	101	75 - 122			
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>49.5</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>99.0</i>	<i>70 - 130</i>			
<i>Surr: 4-Bromofluorobenzene</i>	<i>48.52</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>97.0</i>	<i>82 - 115</i>			
<i>Surr: Dibromofluoromethane</i>	<i>49</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>98.0</i>	<i>73 - 126</i>			
<i>Surr: Toluene-d8</i>	<i>50.1</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>100</i>	<i>81 - 120</i>			

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071344

QC BATCH REPORT

Batch ID: R366012 (0) **Instrument:** VOA2 **Method:** LOW LEVEL VOLATILES BY SW8260C

MS		Sample ID: HS20071344-05MS			Units: ug/L		Analysis Date: 30-Jul-2020 14:16			
Client ID: WG-1620-MW65D-20200729		Run ID: VOA2_366012			SeqNo: 5681810		PrepDate:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Dichloroethane	18.31	1.0	20	0	91.6	70 - 127				
Benzene	20.6	1.0	20	0	103	70 - 127				
Chlorobenzene	19.92	1.0	20	0	99.6	70 - 114				
Ethylbenzene	20.5	1.0	20	0	103	70 - 124				
Methylene chloride	21.8	2.0	20	0	109	70 - 128				
Toluene	20.99	1.0	20	0	105	70 - 123				
Vinyl chloride	22.27	1.0	20	0	111	70 - 130				
Xylenes, Total	62.17	1.0	60	0	104	70 - 130				
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>48.96</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>97.9</i>	<i>70 - 126</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>48.86</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>97.7</i>	<i>81 - 113</i>				
<i>Surr: Dibromofluoromethane</i>	<i>48.93</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>97.9</i>	<i>77 - 123</i>				
<i>Surr: Toluene-d8</i>	<i>50.68</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>101</i>	<i>82 - 127</i>				

MSD		Sample ID: HS20071344-05MSD			Units: ug/L		Analysis Date: 30-Jul-2020 14:40			
Client ID: WG-1620-MW65D-20200729		Run ID: VOA2_366012			SeqNo: 5681811		PrepDate:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Dichloroethane	17.91	1.0	20	0	89.5	70 - 127	18.31	2.24	20	
Benzene	19.94	1.0	20	0	99.7	70 - 127	20.6	3.24	20	
Chlorobenzene	19.34	1.0	20	0	96.7	70 - 114	19.92	2.95	20	
Ethylbenzene	20.11	1.0	20	0	101	70 - 124	20.5	1.95	20	
Methylene chloride	22.96	2.0	20	0	115	70 - 128	21.8	5.17	20	
Toluene	20.66	1.0	20	0	103	70 - 123	20.99	1.59	20	
Vinyl chloride	22.25	1.0	20	0	111	70 - 130	22.27	0.0807	20	
Xylenes, Total	61.18	1.0	60	0	102	70 - 130	62.17	1.61	20	
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>48.88</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>97.8</i>	<i>70 - 126</i>	<i>48.96</i>	<i>0.168</i>	<i>20</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>49.06</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>98.1</i>	<i>81 - 113</i>	<i>48.86</i>	<i>0.427</i>	<i>20</i>	
<i>Surr: Dibromofluoromethane</i>	<i>48.8</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>97.6</i>	<i>77 - 123</i>	<i>48.93</i>	<i>0.264</i>	<i>20</i>	
<i>Surr: Toluene-d8</i>	<i>50.04</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>100</i>	<i>82 - 127</i>	<i>50.68</i>	<i>1.27</i>	<i>20</i>	

The following samples were analyzed in this batch: HS20071344-01 HS20071344-02 HS20071344-03 HS20071344-04
 HS20071344-05 HS20071344-06

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20071344

**QUALIFIERS,
ACRONYMS, UNITS**

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
mg/L	Milligrams per Liter

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	20-030-0	26-Mar-2021
California	2919, 2020-2021	30-Apr-2021
Dept of Defense	ANAB L2231 V009	22-Dec-2021
Florida	E87611-30-07/01/2020	30-Jun-2021
Illinois	2000322020-4	09-May-2021
Kentucky	123043, 2020-2021	30-Apr-2021
Louisiana	03087, 2020-2021	30-Jun-2021
Maryland	343, 2019-2020	30-Sep-2020
North Carolina	624-2020	31-Dec-2020
North Dakota	R-193 2020-2021	30-Apr-2021
Oklahoma	2019-141	31-Aug-2020
Texas	T104704231-20-26	30-Apr-2021

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
Work Order: HS20071344

SAMPLE TRACKING

Lab Samp ID	Client Sample ID	Action	Date	Person	New Location
HS20071344-01	WQ-1620-TB07-20200729	Login	7/29/2020 5:44:45 PM	JRM	VOA148
HS20071344-02	WG-1620-MW41B-20200729	Login	7/29/2020 5:44:45 PM	JRM	EXT123
HS20071344-02	WG-1620-MW41B-20200729	Login	7/29/2020 5:44:45 PM	JRM	MET034
HS20071344-02	WG-1620-MW41B-20200729	Login	7/29/2020 5:44:45 PM	JRM	VOA148
HS20071344-03	WG-1620-MW12B-20200729	Login	7/29/2020 5:44:45 PM	JRM	EXT123
HS20071344-03	WG-1620-MW12B-20200729	Login	7/29/2020 5:44:45 PM	JRM	MET034
HS20071344-03	WG-1620-MW12B-20200729	Login	7/29/2020 5:44:45 PM	JRM	VOA148
HS20071344-04	WG-1620-MW36D-20200729	Login	7/29/2020 5:44:45 PM	JRM	EXT123
HS20071344-04	WG-1620-MW36D-20200729	Login	7/29/2020 5:44:45 PM	JRM	MET034
HS20071344-04	WG-1620-MW36D-20200729	Login	7/29/2020 5:44:45 PM	JRM	VOA148
HS20071344-05	WG-1620-MW65D-20200729	Login	7/29/2020 5:44:45 PM	JRM	EXT124
HS20071344-05	WG-1620-MW65D-20200729	Login	7/29/2020 5:44:45 PM	JRM	MET034
HS20071344-05	WG-1620-MW65D-20200729	Login	7/29/2020 5:44:45 PM	JRM	VOA148

Sample Receipt Checklist

Work Order ID: HS20071344

Date/Time Received: 29-Jul-2020 17:00

Client Name: PBW

Received by: Donald Gilmore

Completed By: /S/ Jared R. Makan	29-Jul-2020 17:20	Reviewed by: /S/ Dane J. Wacasey	29-Jul-2020 19:59
eSignature	Date/Time	eSignature	Date/Time

Matrices: **Water**

Carrier name: **ALS Courier**

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- VOA/TX1005/TX1006 Solids in hermetically sealed vials? Yes No Not Present
- Chain of custody present? Yes No 1 Page(s)
- Chain of custody signed when relinquished and received? Yes No COC IDs:226830
- Samplers name present on COC? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container/Temp Blank temperature in compliance? Yes No

Temperature(s)/Thermometer(s): 1.0°C, 0.8°C Corrected IR31

Cooler(s)/Kit(s): 43509, 45799

Date/Time sample(s) sent to storage: 07/29/2020 17:35

Water - VOA vials have zero headspace? Yes No No VOA vials submitted

Water - pH acceptable upon receipt? Yes No N/A

pH adjusted? Yes No N/A

pH adjusted by:

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:



Cincinnati, OH
+1 513 733 5336

Everett, WA
+1 425 356 2600

Fort Collins, CO
+1 970 490 1511

Holland, MI
+1 616 399 6070

Chain of Custody Form

Page of

COC ID: 226830

HS20071344

Golder Associates Inc.
Houston TX-Wood Preserving Works



ALS Project Manager:

Customer Information		Project Information	
Purchase Order	UPRR/Kevin Peterburs	Project Name	Houston TX-Wood Preserving Works
Work Order		Project Number	1620-07-Rev0 SR 92688
Company Name	Golder Associates	Bill To Company	Union Pacific Railroad- A/P
Send Report To	Eric Matzner	Invoice Attn	Accounts Payable
Address	2201 Double Creek Drive	Address	1400 Douglas Street
	Suite 4004		Stop 0750
City/State/Zip	Round Rock, TX 78664	City/State/Zip	Omaha NE 681790750
Phone	(512) 671-3434	Phone	
Fax	(512) 671-3446	Fax	
e-Mail Address	eric.matzner@pbwllc.com	e-Mail Address	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	WQ-1620-TB07-20200729	7-29-20	1600	Water	1	2	X	X									
2	WG-1620-MW 41B 20200729	7-29-20	9:00	Groundwa	1,2,8	6	X		X	X							
3	WG-1620-MW 12B 20200729	7-29-20	9:55				X		X	X							
4	WG-1620-MW 36D 20200729	7-29-20	11:30				X		X	X							
5	WG-1620-MW 65D 20200729	7-29-20	1320				X		X	X							
6	WG-1620-MW 65DMS 20200729	7-29-20	1320				X	X	X	X							
7	WG-1620-MW 65DMSD 20200729	7-29-20	1320				X	X	X	X							
8	WG-1620-FB 11 20200729	7-29-20	1600				X	X	X	X							
9																	
10																	

Sampler(s) Please Print & Sign <i>Tim M. Spedden</i>		Shipment Method	Required Turnaround Time: (Check Box) <input checked="" type="checkbox"/> STD 10 Wk Days <input type="checkbox"/> 5 Wk Days <input type="checkbox"/> 2 Wk Days <input type="checkbox"/> 24 Hour		Results Due Date:
Relinquished by: <i>[Signature]</i>	Date: 7-29-20	Time: 16:35	Notes: UPRR Houston MW/PW		
Relinquished by: <i>[Signature]</i>	Date: 7-29-20	Time: 1700	QC Package: (Check One Box Below)		
Logged by (Laboratory):	Date:	Time:	Cooler ID 43509 45199	Cooler Temp. 1.0°C 0.8°C	<input type="checkbox"/> Level II Std QC <input type="checkbox"/> Level III Std CO/Row Date <input type="checkbox"/> Level IV SWAB/CLP <input type="checkbox"/> Other
					<input checked="" type="checkbox"/> TRRP Checklist <input type="checkbox"/> TRRP Level IV

Preservative Key: 1-HCl 2-HNO₃ 3-H₂SO₄ 4-NaOH 5-Na₂S₂O₃ 6-NaHSO₄ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental. 2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse. 3. The Chain of Custody is a legal document. All information must be completed accurately.

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10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
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August 18, 2020

Eric Matzner
Golder Associates Inc.
2201 Double Creek Drive
Suite 4004
Round Rock, TX 78664

Work Order: **HS20080053**

Laboratory Results for: **Houston TX-Wood Preserving Works**

Dear Eric Matzner,

ALS Environmental received 5 sample(s) on Aug 03, 2020 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: JUMOKE.LAWAL
Dane J. Wacasey

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20080053

**TRRP Laboratory Data
Package Cover Page**

This data package consists of all or some of the following as applicable:

This signature page, the laboratory review checklist, and the following reportable data:

- R1 Field chain-of-custody documentation;
- R2 Sample identification cross-reference;
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
 - a) Items consistent with NELAC Chapter 5,
 - b) dilution factors,
 - c) preparation methods,
 - d) cleanup methods, and
 - e) if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate recovery data including:
 - a) Calculated recovery (%R), and
 - b) The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
 - a) LCS spiking amounts,
 - b) Calculated %R for each analyte, and
 - c) The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a) Samples associated with the MS/MSD clearly identified,
 - b) MS/MSD spiking amounts,
 - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d) Calculated %Rs and relative percent differences (RPDs), and
 - e) The laboratory's MS/MSD QC limits.
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
 - a) the amount of analyte measured in the duplicate,
 - b) the calculated RPD, and
 - c) the laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.
- R10 Other problems or anomalies.
The Exception Report for each "No" or "Not Reviewed (NR)" item in Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20080053

**TRRP Laboratory Data
Package Cover Page**

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory have been identified by the laboratory in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Check, if applicable: [NA] This laboratory meets an exception under 30 TAC §25.6 and was last inspected by TCEQ or _____ on (enter date of last inspection). Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.



Dane J. Wacasey

Laboratory Review Checklist: Reportable Data							
Laboratory Name: ALS Laboratory Group				LRC Date: 08/18/2020			
Project Name: Houston TX-Wood Preserving Works				Laboratory Job Number: HS20080053			
Reviewer Name: Corey Grandits				Prep Batch Number: 156014,156022,R366175,R366179			
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
R1	OI	Chain-of-custody (C-O-C)					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?	X				
R2	OI	Sample and quality control (QC) identification					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	Test reports					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?			X		
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW-846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	Surrogate recovery data					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	Test reports/summary forms for blank samples					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	Laboratory control samples (LCS):					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?		X			1
R7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?		X			2
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?	X				
		Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	Analytical duplicate data					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	Method quantitation limits (MQLs):					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	Other problems/anomalies					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Were all necessary corrective actions performed for the reported data?	X				
		Was applicable and available technology used to lower the SDL and minimize the matrix interference effects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Program for the analytes, matrices and methods associated with this laboratory data package?	X				

Laboratory Review Checklist: Supporting Data							
Laboratory Name: ALS Laboratory Group			LRC Date: 08/18/2020				
Project Name: Houston TX-Wood Preserving Works			Laboratory Job Number: HS20080053				
Reviewer Name: Corey Grandits			Prep Batch Number: 156014,156022,R366175,R366179				
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S1	OI	Initial calibration (ICAL)					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB)					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	Mass spectral tuning:					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	Internal standards (IS):					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	Raw data (NELAC section 1 appendix A glossary, and section 5.12 or ISO/IEC 17025 section					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	Dual column confirmation					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	Tentatively identified compounds (TICs):					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	Interference Check Sample (ICS) results:					
		Were percent recoveries within method QC limits?	X				
S9	I	Serial dilutions, post digestion spikes, and method of standard additions					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	X				
S10	OI	Method detection limit (MDL) studies					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	Proficiency test reports:					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards documentation					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/analyte identification procedures					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of analyst competency (DOC)					
		Was DOC conducted consistent with NELAC Chapter 5C or ISO/IEC 4?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/validation documentation for methods (NELAC Chap 5 or ISO/IEC 17025 Section 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory standard operating procedures (SOPs):					
		Are laboratory SOPs current and on file for each method performed?	X				

Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

O = Organic Analyses; I = Inorganic Analyses (and general chemistry, when applicable);

NA = Not Applicable;

NR = Not Reviewed;

R# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Exception Reports

Laboratory Name: ALS Laboratory Group		LRC Date: 08/18/2020
Project Name: Houston TX-Wood Preserving Works		Laboratory Job Number: HS20080053
Reviewer Name: Corey Grandits		Prep Batch Number: 156014,156022,R366175,R366179
ER# ⁵	Description	
1	Batch 156022, Semivolatile Organics Method SW8270, LCS/LCSD RPD was above the RPD limit for 2,6-Dinitrotoluene, 4-Nitrophenol. The individual recoveries met acceptance criteria.	
2	Batch 156022, Semivolatile Organics Method SW8270, LCS/LCSD were analyzed and reported in lieu of an MS/MSD for this batch.	
<p>Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.</p> <p>O = Organic Analyses; I = Inorganic Analyses (and general chemistry, when applicable); NA = Not Applicable; NR = Not Reviewed; R# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).</p>		

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
Work Order: HS20080053

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS20080053-01	WQ-1620-TB009-20200803	Water		03-Aug-2020 15:00	03-Aug-2020 15:35	<input type="checkbox"/>
HS20080053-02	WG-1620-MW59D-20200803	Groundwater		03-Aug-2020 13:45	03-Aug-2020 15:35	<input type="checkbox"/>
HS20080053-03	WG-1620-MW66D-20200803	Groundwater		03-Aug-2020 09:45	03-Aug-2020 15:35	<input type="checkbox"/>
HS20080053-04	WG-1620-DUP08-20200803	Groundwater		03-Aug-2020 00:00	03-Aug-2020 15:35	<input type="checkbox"/>
HS20080053-05	WG-1620-FB08-20200803	Water		03-Aug-2020 15:00	03-Aug-2020 15:35	<input type="checkbox"/>

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WQ-1620-TB009-20200803
 Collection Date: 03-Aug-2020 15:00

ANALYTICAL REPORT
 WorkOrder:HS20080053
 Lab ID:HS20080053-01
 Matrix:Water

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	04-Aug-2020 13:03
Benzene	U		0.00020	0.0010	mg/L	1	04-Aug-2020 13:03
Chlorobenzene	U		0.00030	0.0010	mg/L	1	04-Aug-2020 13:03
Ethylbenzene	U		0.00030	0.0010	mg/L	1	04-Aug-2020 13:03
Methylene chloride	U		0.0010	0.0020	mg/L	1	04-Aug-2020 13:03
Toluene	U		0.00020	0.0010	mg/L	1	04-Aug-2020 13:03
Xylenes, Total	U		0.00030	0.0010	mg/L	1	04-Aug-2020 13:03
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>95.1</i>			<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>04-Aug-2020 13:03</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>96.8</i>			<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>04-Aug-2020 13:03</i>
<i>Surr: Dibromofluoromethane</i>	<i>97.1</i>			<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>04-Aug-2020 13:03</i>
<i>Surr: Toluene-d8</i>	<i>102</i>			<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>04-Aug-2020 13:03</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW59D-20200803
 Collection Date: 03-Aug-2020 13:45

ANALYTICAL REPORT
 WorkOrder:HS20080053
 Lab ID:HS20080053-02
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	04-Aug-2020 22:52
Benzene	U		0.00020	0.0010	mg/L	1	04-Aug-2020 22:52
Chlorobenzene	U		0.00030	0.0010	mg/L	1	04-Aug-2020 22:52
Ethylbenzene	U		0.00030	0.0010	mg/L	1	04-Aug-2020 22:52
Methylene chloride	U		0.0010	0.0020	mg/L	1	04-Aug-2020 22:52
Toluene	U		0.00020	0.0010	mg/L	1	04-Aug-2020 22:52
Xylenes, Total	U		0.00030	0.0010	mg/L	1	04-Aug-2020 22:52
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>91.2</i>			<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>04-Aug-2020 22:52</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>97.7</i>			<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>04-Aug-2020 22:52</i>
<i>Surr: Dibromofluoromethane</i>	<i>98.9</i>			<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>04-Aug-2020 22:52</i>
<i>Surr: Toluene-d8</i>	<i>101</i>			<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>04-Aug-2020 22:52</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW59D-20200803
 Collection Date: 03-Aug-2020 13:45

ANALYTICAL REPORT
 WorkOrder:HS20080053
 Lab ID:HS20080053-02
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 04-Aug-2020		Analyst: GEY	
1,2-Diphenylhydrazine	U		0.000021	0.00020	mg/L	1	17-Aug-2020 20:27
2,4-Dimethylphenol	U		0.000040	0.00020	mg/L	1	17-Aug-2020 20:27
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	17-Aug-2020 20:27
2,6-Dinitrotoluene	U		0.000042	0.00020	mg/L	1	17-Aug-2020 20:27
2-Chloronaphthalene	U		0.000021	0.00020	mg/L	1	17-Aug-2020 20:27
2-Methylnaphthalene	U		0.000019	0.00010	mg/L	1	17-Aug-2020 20:27
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	17-Aug-2020 20:27
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	17-Aug-2020 20:27
Acenaphthene	U		0.000027	0.00010	mg/L	1	17-Aug-2020 20:27
Acenaphthylene	U		0.000015	0.00010	mg/L	1	17-Aug-2020 20:27
Anthracene	U		0.000014	0.00010	mg/L	1	17-Aug-2020 20:27
Benz(a)anthracene	U		0.000050	0.00010	mg/L	1	17-Aug-2020 20:27
Benzo(a)pyrene	U		0.000020	0.00010	mg/L	1	17-Aug-2020 20:27
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	17-Aug-2020 20:27
Bis(2-ethylhexyl)phthalate	0.00025		0.000037	0.00020	mg/L	1	17-Aug-2020 20:27
Chrysene	U		0.000021	0.00010	mg/L	1	17-Aug-2020 20:27
Dibenzofuran	U		0.000020	0.00010	mg/L	1	17-Aug-2020 20:27
Di-n-butyl phthalate	U		0.000020	0.00020	mg/L	1	17-Aug-2020 20:27
Fluoranthene	U		0.000010	0.00010	mg/L	1	17-Aug-2020 20:27
Fluorene	U		0.000030	0.00010	mg/L	1	17-Aug-2020 20:27
Naphthalene	0.000099	J	0.000020	0.00010	mg/L	1	17-Aug-2020 20:27
Nitrobenzene	U		0.000024	0.00020	mg/L	1	17-Aug-2020 20:27
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	17-Aug-2020 20:27
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	17-Aug-2020 20:27
Phenanthrene	U		0.000021	0.00010	mg/L	1	17-Aug-2020 20:27
Phenol	U		0.000035	0.00020	mg/L	1	17-Aug-2020 20:27
Pyrene	U		0.000019	0.00010	mg/L	1	17-Aug-2020 20:27
<i>Surr: 2,4,6-Tribromophenol</i>	<i>61.5</i>			<i>34-129</i>	<i>%REC</i>	<i>1</i>	<i>17-Aug-2020 20:27</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>48.2</i>			<i>40-125</i>	<i>%REC</i>	<i>1</i>	<i>17-Aug-2020 20:27</i>
<i>Surr: 2-Fluorophenol</i>	<i>29.1</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>17-Aug-2020 20:27</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>53.1</i>			<i>40-135</i>	<i>%REC</i>	<i>1</i>	<i>17-Aug-2020 20:27</i>
<i>Surr: Nitrobenzene-d5</i>	<i>54.4</i>			<i>41-120</i>	<i>%REC</i>	<i>1</i>	<i>17-Aug-2020 20:27</i>
<i>Surr: Phenol-d6</i>	<i>34.4</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>17-Aug-2020 20:27</i>
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 04-Aug-2020		Analyst: JHD	
Arsenic	0.00111	J	0.000400	0.00200	mg/L	1	06-Aug-2020 15:17

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW66D-20200803
 Collection Date: 03-Aug-2020 09:45

ANALYTICAL REPORT
 WorkOrder:HS20080053
 Lab ID:HS20080053-03
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	04-Aug-2020 23:16
Benzene	U		0.00020	0.0010	mg/L	1	04-Aug-2020 23:16
Chlorobenzene	U		0.00030	0.0010	mg/L	1	04-Aug-2020 23:16
Ethylbenzene	U		0.00030	0.0010	mg/L	1	04-Aug-2020 23:16
Methylene chloride	U		0.0010	0.0020	mg/L	1	04-Aug-2020 23:16
Toluene	U		0.00020	0.0010	mg/L	1	04-Aug-2020 23:16
Xylenes, Total	U		0.00030	0.0010	mg/L	1	04-Aug-2020 23:16
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>91.0</i>			<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>04-Aug-2020 23:16</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>90.7</i>			<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>04-Aug-2020 23:16</i>
<i>Surr: Dibromofluoromethane</i>	<i>98.8</i>			<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>04-Aug-2020 23:16</i>
<i>Surr: Toluene-d8</i>	<i>104</i>			<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>04-Aug-2020 23:16</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW66D-20200803
 Collection Date: 03-Aug-2020 09:45

ANALYTICAL REPORT
 WorkOrder:HS20080053
 Lab ID:HS20080053-03
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 04-Aug-2020		Analyst: GEY	
1,2-Diphenylhydrazine	U		0.000021	0.00020	mg/L	1	17-Aug-2020 20:47
2,4-Dimethylphenol	U		0.000040	0.00020	mg/L	1	17-Aug-2020 20:47
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	17-Aug-2020 20:47
2,6-Dinitrotoluene	U		0.000042	0.00020	mg/L	1	17-Aug-2020 20:47
2-Chloronaphthalene	U		0.000021	0.00020	mg/L	1	17-Aug-2020 20:47
2-Methylnaphthalene	U		0.000019	0.00010	mg/L	1	17-Aug-2020 20:47
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	17-Aug-2020 20:47
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	17-Aug-2020 20:47
Acenaphthene	U		0.000027	0.00010	mg/L	1	17-Aug-2020 20:47
Acenaphthylene	U		0.000015	0.00010	mg/L	1	17-Aug-2020 20:47
Anthracene	0.000028	J	0.000014	0.00010	mg/L	1	17-Aug-2020 20:47
Benz(a)anthracene	U		0.000050	0.00010	mg/L	1	17-Aug-2020 20:47
Benzo(a)pyrene	0.000025	J	0.000020	0.00010	mg/L	1	17-Aug-2020 20:47
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	17-Aug-2020 20:47
Bis(2-ethylhexyl)phthalate	0.000058	J	0.000037	0.00020	mg/L	1	17-Aug-2020 20:47
Chrysene	0.000034	J	0.000021	0.00010	mg/L	1	17-Aug-2020 20:47
Dibenzofuran	0.000025	J	0.000020	0.00010	mg/L	1	17-Aug-2020 20:47
Di-n-butyl phthalate	U		0.000020	0.00020	mg/L	1	17-Aug-2020 20:47
Fluoranthene	0.000029	J	0.000010	0.00010	mg/L	1	17-Aug-2020 20:47
Fluorene	U		0.000030	0.00010	mg/L	1	17-Aug-2020 20:47
Naphthalene	0.000075	J	0.000020	0.00010	mg/L	1	17-Aug-2020 20:47
Nitrobenzene	U		0.000024	0.00020	mg/L	1	17-Aug-2020 20:47
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	17-Aug-2020 20:47
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	17-Aug-2020 20:47
Phenanthrene	U		0.000021	0.00010	mg/L	1	17-Aug-2020 20:47
Phenol	U		0.000035	0.00020	mg/L	1	17-Aug-2020 20:47
Pyrene	0.000030	J	0.000019	0.00010	mg/L	1	17-Aug-2020 20:47
<i>Surr: 2,4,6-Tribromophenol</i>	58.6			34-129	%REC	1	17-Aug-2020 20:47
<i>Surr: 2-Fluorobiphenyl</i>	48.0			40-125	%REC	1	17-Aug-2020 20:47
<i>Surr: 2-Fluorophenol</i>	25.6			20-120	%REC	1	17-Aug-2020 20:47
<i>Surr: 4-Terphenyl-d14</i>	44.0			40-135	%REC	1	17-Aug-2020 20:47
<i>Surr: Nitrobenzene-d5</i>	42.4			41-120	%REC	1	17-Aug-2020 20:47
<i>Surr: Phenol-d6</i>	27.4			20-120	%REC	1	17-Aug-2020 20:47
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 04-Aug-2020		Analyst: JHD	
Arsenic	0.0188		0.000400	0.00200	mg/L	1	06-Aug-2020 15:19

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-DUP08-20200803
 Collection Date: 03-Aug-2020 00:00

ANALYTICAL REPORT
 WorkOrder:HS20080053
 Lab ID:HS20080053-04
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	04-Aug-2020 23:40
Benzene	U		0.00020	0.0010	mg/L	1	04-Aug-2020 23:40
Chlorobenzene	U		0.00030	0.0010	mg/L	1	04-Aug-2020 23:40
Ethylbenzene	U		0.00030	0.0010	mg/L	1	04-Aug-2020 23:40
Methylene chloride	U		0.0010	0.0020	mg/L	1	04-Aug-2020 23:40
Toluene	U		0.00020	0.0010	mg/L	1	04-Aug-2020 23:40
Xylenes, Total	U		0.00030	0.0010	mg/L	1	04-Aug-2020 23:40
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>91.3</i>			<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>04-Aug-2020 23:40</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>99.6</i>			<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>04-Aug-2020 23:40</i>
<i>Surr: Dibromofluoromethane</i>	<i>99.8</i>			<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>04-Aug-2020 23:40</i>
<i>Surr: Toluene-d8</i>	<i>99.2</i>			<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>04-Aug-2020 23:40</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-DUP08-20200803
 Collection Date: 03-Aug-2020 00:00

ANALYTICAL REPORT
 WorkOrder:HS20080053
 Lab ID:HS20080053-04
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 04-Aug-2020		Analyst: GEY	
1,2-Diphenylhydrazine	U		0.000021	0.00020	mg/L	1	17-Aug-2020 21:06
2,4-Dimethylphenol	U		0.000040	0.00020	mg/L	1	17-Aug-2020 21:06
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	17-Aug-2020 21:06
2,6-Dinitrotoluene	U		0.000042	0.00020	mg/L	1	17-Aug-2020 21:06
2-Chloronaphthalene	U		0.000021	0.00020	mg/L	1	17-Aug-2020 21:06
2-Methylnaphthalene	U		0.000019	0.00010	mg/L	1	17-Aug-2020 21:06
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	17-Aug-2020 21:06
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	17-Aug-2020 21:06
Acenaphthene	U		0.000027	0.00010	mg/L	1	17-Aug-2020 21:06
Acenaphthylene	U		0.000015	0.00010	mg/L	1	17-Aug-2020 21:06
Anthracene	U		0.000014	0.00010	mg/L	1	17-Aug-2020 21:06
Benz(a)anthracene	U		0.000050	0.00010	mg/L	1	17-Aug-2020 21:06
Benzo(a)pyrene	U		0.000020	0.00010	mg/L	1	17-Aug-2020 21:06
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	17-Aug-2020 21:06
Bis(2-ethylhexyl)phthalate	0.00025		0.000037	0.00020	mg/L	1	17-Aug-2020 21:06
Chrysene	U		0.000021	0.00010	mg/L	1	17-Aug-2020 21:06
Dibenzofuran	U		0.000020	0.00010	mg/L	1	17-Aug-2020 21:06
Di-n-butyl phthalate	U		0.000020	0.00020	mg/L	1	17-Aug-2020 21:06
Fluoranthene	U		0.000010	0.00010	mg/L	1	17-Aug-2020 21:06
Fluorene	U		0.000030	0.00010	mg/L	1	17-Aug-2020 21:06
Naphthalene	0.000049	J	0.000020	0.00010	mg/L	1	17-Aug-2020 21:06
Nitrobenzene	U		0.000024	0.00020	mg/L	1	17-Aug-2020 21:06
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	17-Aug-2020 21:06
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	17-Aug-2020 21:06
Phenanthrene	U		0.000021	0.00010	mg/L	1	17-Aug-2020 21:06
Phenol	U		0.000035	0.00020	mg/L	1	17-Aug-2020 21:06
Pyrene	U		0.000019	0.00010	mg/L	1	17-Aug-2020 21:06
<i>Surr: 2,4,6-Tribromophenol</i>	<i>77.4</i>			<i>34-129</i>	<i>%REC</i>	<i>1</i>	<i>17-Aug-2020 21:06</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>66.3</i>			<i>40-125</i>	<i>%REC</i>	<i>1</i>	<i>17-Aug-2020 21:06</i>
<i>Surr: 2-Fluorophenol</i>	<i>25.5</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>17-Aug-2020 21:06</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>49.8</i>			<i>40-135</i>	<i>%REC</i>	<i>1</i>	<i>17-Aug-2020 21:06</i>
<i>Surr: Nitrobenzene-d5</i>	<i>47.2</i>			<i>41-120</i>	<i>%REC</i>	<i>1</i>	<i>17-Aug-2020 21:06</i>
<i>Surr: Phenol-d6</i>	<i>25.7</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>17-Aug-2020 21:06</i>
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 04-Aug-2020		Analyst: JHD	
Arsenic	0.00113	J	0.000400	0.00200	mg/L	1	06-Aug-2020 15:21

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-FB08-20200803
 Collection Date: 03-Aug-2020 15:00

ANALYTICAL REPORT
 WorkOrder:HS20080053
 Lab ID:HS20080053-05
 Matrix:Water

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	U		0.00020	0.0010	mg/L	1	04-Aug-2020 13:25
Benzene	U		0.00020	0.0010	mg/L	1	04-Aug-2020 13:25
Chlorobenzene	U		0.00030	0.0010	mg/L	1	04-Aug-2020 13:25
Ethylbenzene	U		0.00030	0.0010	mg/L	1	04-Aug-2020 13:25
Methylene chloride	U		0.0010	0.0020	mg/L	1	04-Aug-2020 13:25
Toluene	U		0.00020	0.0010	mg/L	1	04-Aug-2020 13:25
Xylenes, Total	U		0.00030	0.0010	mg/L	1	04-Aug-2020 13:25
<i>Surr: 1,2-Dichloroethane-d4</i>		96.6		70-126	%REC	1	04-Aug-2020 13:25
<i>Surr: 4-Bromofluorobenzene</i>		96.9		81-113	%REC	1	04-Aug-2020 13:25
<i>Surr: Dibromofluoromethane</i>		97.8		77-123	%REC	1	04-Aug-2020 13:25
<i>Surr: Toluene-d8</i>		99.5		82-127	%REC	1	04-Aug-2020 13:25

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-FB08-20200803
 Collection Date: 03-Aug-2020 15:00

ANALYTICAL REPORT
 WorkOrder:HS20080053
 Lab ID:HS20080053-05
 Matrix:Water

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 04-Aug-2020		Analyst: GEY	
1,2-Diphenylhydrazine	U		0.000021	0.00020	mg/L	1	17-Aug-2020 21:25
2,4-Dimethylphenol	U		0.000040	0.00020	mg/L	1	17-Aug-2020 21:25
2,4-Dinitrotoluene	U		0.000058	0.00020	mg/L	1	17-Aug-2020 21:25
2,6-Dinitrotoluene	U		0.000042	0.00020	mg/L	1	17-Aug-2020 21:25
2-Chloronaphthalene	U		0.000021	0.00020	mg/L	1	17-Aug-2020 21:25
2-Methylnaphthalene	U		0.000019	0.00010	mg/L	1	17-Aug-2020 21:25
4,6-Dinitro-2-methylphenol	U		0.000020	0.00020	mg/L	1	17-Aug-2020 21:25
4-Nitrophenol	U		0.000047	0.0010	mg/L	1	17-Aug-2020 21:25
Acenaphthene	U		0.000027	0.00010	mg/L	1	17-Aug-2020 21:25
Acenaphthylene	U		0.000015	0.00010	mg/L	1	17-Aug-2020 21:25
Anthracene	U		0.000014	0.00010	mg/L	1	17-Aug-2020 21:25
Benz(a)anthracene	U		0.000050	0.00010	mg/L	1	17-Aug-2020 21:25
Benzo(a)pyrene	U		0.000020	0.00010	mg/L	1	17-Aug-2020 21:25
Bis(2-chloroethoxy)methane	U		0.000030	0.00020	mg/L	1	17-Aug-2020 21:25
Bis(2-ethylhexyl)phthalate	U		0.000037	0.00020	mg/L	1	17-Aug-2020 21:25
Chrysene	U		0.000021	0.00010	mg/L	1	17-Aug-2020 21:25
Dibenzofuran	U		0.000020	0.00010	mg/L	1	17-Aug-2020 21:25
Di-n-butyl phthalate	U		0.000020	0.00020	mg/L	1	17-Aug-2020 21:25
Fluoranthene	U		0.000010	0.00010	mg/L	1	17-Aug-2020 21:25
Fluorene	U		0.000030	0.00010	mg/L	1	17-Aug-2020 21:25
Naphthalene	0.000033	J	0.000020	0.00010	mg/L	1	17-Aug-2020 21:25
Nitrobenzene	U		0.000024	0.00020	mg/L	1	17-Aug-2020 21:25
N-Nitrosodiphenylamine	U		0.000025	0.00020	mg/L	1	17-Aug-2020 21:25
Pentachlorophenol	U		0.000079	0.00020	mg/L	1	17-Aug-2020 21:25
Phenanthrene	U		0.000021	0.00010	mg/L	1	17-Aug-2020 21:25
Phenol	U		0.000035	0.00020	mg/L	1	17-Aug-2020 21:25
Pyrene	U		0.000019	0.00010	mg/L	1	17-Aug-2020 21:25
<i>Surr: 2,4,6-Tribromophenol</i>	<i>39.9</i>			<i>34-129</i>	<i>%REC</i>	<i>1</i>	<i>17-Aug-2020 21:25</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>43.2</i>			<i>40-125</i>	<i>%REC</i>	<i>1</i>	<i>17-Aug-2020 21:25</i>
<i>Surr: 2-Fluorophenol</i>	<i>26.3</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>17-Aug-2020 21:25</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>42.8</i>			<i>40-135</i>	<i>%REC</i>	<i>1</i>	<i>17-Aug-2020 21:25</i>
<i>Surr: Nitrobenzene-d5</i>	<i>44.7</i>			<i>41-120</i>	<i>%REC</i>	<i>1</i>	<i>17-Aug-2020 21:25</i>
<i>Surr: Phenol-d6</i>	<i>27.8</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>17-Aug-2020 21:25</i>
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 04-Aug-2020		Analyst: JHD	
Arsenic	U		0.000400	0.00200	mg/L	1	06-Aug-2020 15:23

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Weight / Prep Log

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20080053

Batch ID: 156014 **Start Date:** 04 Aug 2020 09:00 **End Date:** 04 Aug 2020 13:00
Method: WATER - SW3010A **Prep Code:** 3010A

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS20080053-02		10 (mL)	10 (mL)	1
HS20080053-03		10 (mL)	10 (mL)	1
HS20080053-04		10 (mL)	10 (mL)	1
HS20080053-05		10 (mL)	10 (mL)	1

Batch ID: 156022 **Start Date:** 04 Aug 2020 10:00 **End Date:** 04 Aug 2020 15:00
Method: SV AQ SEP FUN EXTRACT-LOWLEV - 3510C **Prep Code:** 3510_B_LOW

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS20080053-02	1	1000 (mL)	1 (mL)	0.001
HS20080053-03	1	1000 (mL)	1 (mL)	0.001
HS20080053-04	1	1000 (mL)	1 (mL)	0.001
HS20080053-05	1	1000 (mL)	1 (mL)	0.001

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20080053

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 156014 (0)		Test Name : ICP-MS METALS BY SW6020A			Matrix: Water	
HS20080053-05	WG-1620-FB08-20200803	03 Aug 2020 15:00		04 Aug 2020 13:00	06 Aug 2020 15:23	1
Batch ID: 156014 (0)		Test Name : ICP-MS METALS BY SW6020A			Matrix: Groundwater	
HS20080053-02	WG-1620-MW59D-20200803	03 Aug 2020 13:45		04 Aug 2020 13:00	06 Aug 2020 15:17	1
HS20080053-03	WG-1620-MW66D-20200803	03 Aug 2020 09:45		04 Aug 2020 13:00	06 Aug 2020 15:19	1
HS20080053-04	WG-1620-DUP08-20200803	03 Aug 2020 00:00		04 Aug 2020 13:00	06 Aug 2020 15:21	1
Batch ID: 156022 (0)		Test Name : LOW-LEVEL SEMIVOLATILES BY 8270D			Matrix: Water	
HS20080053-05	WG-1620-FB08-20200803	03 Aug 2020 15:00		04 Aug 2020 11:55	17 Aug 2020 21:25	1
Batch ID: 156022 (0)		Test Name : LOW-LEVEL SEMIVOLATILES BY 8270D			Matrix: Groundwater	
HS20080053-02	WG-1620-MW59D-20200803	03 Aug 2020 13:45		04 Aug 2020 11:55	17 Aug 2020 20:27	1
HS20080053-03	WG-1620-MW66D-20200803	03 Aug 2020 09:45		04 Aug 2020 11:55	17 Aug 2020 20:47	1
HS20080053-04	WG-1620-DUP08-20200803	03 Aug 2020 00:00		04 Aug 2020 11:55	17 Aug 2020 21:06	1
Batch ID: R366175 (0)		Test Name : LOW LEVEL VOLATILES BY SW8260C			Matrix: Water	
HS20080053-01	WQ-1620-TB009-20200803	03 Aug 2020 15:00			04 Aug 2020 13:03	1
HS20080053-05	WG-1620-FB08-20200803	03 Aug 2020 15:00			04 Aug 2020 13:25	1
Batch ID: R366179 (0)		Test Name : LOW LEVEL VOLATILES BY SW8260C			Matrix: Groundwater	
HS20080053-02	WG-1620-MW59D-20200803	03 Aug 2020 13:45			04 Aug 2020 22:52	1
HS20080053-03	WG-1620-MW66D-20200803	03 Aug 2020 09:45			04 Aug 2020 23:16	1
HS20080053-04	WG-1620-DUP08-20200803	03 Aug 2020 00:00			04 Aug 2020 23:40	1

WorkOrder: HS20080053
 InstrumentID: ICPMS04
 Test Code: ICP_TW
 Test Number: SW6020
 Test Name: ICP-MS Metals by SW6020A

**METHOD DETECTION /
 REPORTING LIMITS**

Matrix: Aqueous **Units:** mg/L

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	Arsenic	7440-38-2	0.00100	0.00110	0.000400	0.00200

WorkOrder: HS20080053
 InstrumentID: SV-7
 Test Code: 8270_LOW_W
 Test Number: SW8270
 Test Name: Low-Level Semivolatiles by 8270D

**METHOD DETECTION /
 REPORTING LIMITS**

Matrix: Aqueous

Units: mg/L

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	1,2-Diphenylhydrazine	122-66-7	0.00010	0.000073	0.000021	0.00020
A	2,4-Dimethylphenol	105-67-9	0.00010	0.000085	0.000040	0.00020
A	2,4-Dinitrotoluene	121-14-2	0.00010	0.000088	0.000058	0.00020
A	2,6-Dinitrotoluene	606-20-2	0.00010	0.000082	0.000042	0.00020
A	2-Chloronaphthalene	91-58-7	0.00010	0.000084	0.000021	0.00020
A	2-Methylnaphthalene	91-57-6	0.000050	0.000040	0.000019	0.00010
A	4,6-Dinitro-2-methylphenol	534-52-1	0.00010	0.000056	0.000020	0.00020
A	4-Nitrophenol	100-02-7	0.00010	0.000075	0.000047	0.0010
A	Acenaphthene	83-32-9	0.000050	0.000045	0.000027	0.00010
A	Acenaphthylene	208-96-8	0.000050	0.000039	0.000015	0.00010
A	Anthracene	120-12-7	0.000050	0.000040	0.000014	0.00010
A	Benz(a)anthracene	56-55-3	0.000050	0.000036	0.000050	0.00010
A	Benzo(a)pyrene	50-32-8	0.000050	0.000029	0.000020	0.00010
A	Bis(2-chloroethoxy)methane	111-91-1	0.00010	0.000085	0.000030	0.00020
A	Bis(2-ethylhexyl)phthalate	117-81-7	0.00010	0.000072	0.000037	0.00020
A	Chrysene	218-01-9	0.000050	0.000040	0.000021	0.00010
A	Dibenzofuran	132-64-9	0.000050	0.000045	0.000020	0.00010
A	Di-n-butyl phthalate	84-74-2	0.00010	0.000073	0.000020	0.00020
A	Fluoranthene	206-44-0	0.000050	0.000033	0.000010	0.00010
A	Fluorene	86-73-7	0.000050	0.000045	0.000030	0.00010
A	Naphthalene	91-20-3	0.000050	0.000066	0.000020	0.00010
A	Nitrobenzene	98-95-3	0.00010	0.000098	0.000024	0.00020
A	N-Nitrosodiphenylamine	86-30-6	0.00010	0.000079	0.000025	0.00020
A	Pentachlorophenol	87-86-5	0.00010	0.000060	0.000079	0.00020
A	Phenanthrene	85-01-8	0.000050	0.000042	0.000021	0.00010
A	Phenol	108-95-2	0.00010	0.000090	0.000035	0.00020
A	Pyrene	129-00-0	0.000050	0.000044	0.000019	0.00010
S	2,4,6-Tribromophenol	118-79-6	0	0	0	0.00020
S	2-Fluorobiphenyl	321-60-8	0	0	0	0.00020
S	2-Fluorophenol	367-12-4	0	0	0	0.00020
S	4-Terphenyl-d14	1718-51-0	0	0	0	0.00020
S	Nitrobenzene-d5	4165-60-0	0	0	0	0.00020
S	Phenol-d6	13127-88-3	0	0	0	0.00020

WorkOrder: HS20080053
 InstrumentID: VOA4
 Test Code: 8260_LL_W
 Test Number: SW8260
 Test Name: Low Level Volatiles by SW8260C

**METHOD DETECTION /
 REPORTING LIMITS**

Matrix: Aqueous

Units: mg/L

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	1,2-Dichloroethane	107-06-2	0.00050	0.00056	0.00020	0.0010
A	Benzene	71-43-2	0.00050	0.00052	0.00020	0.0010
A	Chlorobenzene	108-90-7	0.0010	0.00097	0.00030	0.0010
A	Ethylbenzene	100-41-4	0.0010	0.00070	0.00030	0.0010
A	Methylene chloride	75-09-2	0.0020	0.00062	0.0010	0.0020
A	Toluene	108-88-3	0.00050	0.00060	0.00020	0.0010
A	Xylenes, Total	1330-20-7	0.0010	0.0024	0.00030	0.0010
S	1,2-Dichloroethane-d4	17060-07-0	0	0	0	0.0010
S	4-Bromofluorobenzene	460-00-4	0	0	0	0.0010
S	Dibromofluoromethane	1868-53-7	0	0	0	0.0010
S	Toluene-d8	2037-26-5	0	0	0	0.0010

WorkOrder: HS20080053
 InstrumentID: VOA2
 Test Code: 8260_LL_W
 Test Number: SW8260
 Test Name: Low Level Volatiles by SW8260C

**METHOD DETECTION /
 REPORTING LIMITS**

Matrix: Aqueous

Units: mg/L

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	1,2-Dichloroethane	107-06-2	0.00050	0.00063	0.00020	0.0010
A	Benzene	71-43-2	0.00050	0.00052	0.00020	0.0010
A	Chlorobenzene	108-90-7	0.0010	0.0011	0.00030	0.0010
A	Ethylbenzene	100-41-4	0.0010	0.0011	0.00030	0.0010
A	Methylene chloride	75-09-2	0.0020	0.00081	0.0010	0.0020
A	Toluene	108-88-3	0.00050	0.00056	0.00020	0.0010
A	Xylenes, Total	1330-20-7	0.0010	0.0032	0.00030	0.0010
S	1,2-Dichloroethane-d4	17060-07-0	0	0	0	0.0010
S	4-Bromofluorobenzene	460-00-4	0	0	0	0.0010
S	Dibromofluoromethane	1868-53-7	0	0	0	0.0010
S	Toluene-d8	2037-26-5	0	0	0	0.0010

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20080053

QC BATCH REPORT

Batch ID: 156014 (0)		Instrument: ICPMS04		Method: ICP-MS METALS BY SW6020A						
MBLK	Sample ID: MBLK-156014	Units: mg/L		Analysis Date: 06-Aug-2020 14:04						
Client ID:		Run ID: ICPMS04_366272		SeqNo: 5687730		PrepDate: 04-Aug-2020		DF: 1		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual	
Arsenic	U	0.00200								
LCS	Sample ID: LCS-156014	Units: mg/L		Analysis Date: 06-Aug-2020 14:06						
Client ID:		Run ID: ICPMS04_366272		SeqNo: 5687731		PrepDate: 04-Aug-2020		DF: 1		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual	
Arsenic	0.04768	0.00200	0.05	0	95.4	80 - 120				
MS	Sample ID: HS20080008-16MS	Units: mg/L		Analysis Date: 06-Aug-2020 14:12						
Client ID:		Run ID: ICPMS04_366272		SeqNo: 5687734		PrepDate: 04-Aug-2020		DF: 1		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual	
Arsenic	0.04841	0.00200	0.05	0.00082	95.2	80 - 120				
MSD	Sample ID: HS20080008-16MSD	Units: mg/L		Analysis Date: 06-Aug-2020 14:14						
Client ID:		Run ID: ICPMS04_366272		SeqNo: 5687735		PrepDate: 04-Aug-2020		DF: 1		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual	
Arsenic	0.04991	0.00200	0.05	0.00082	98.2	80 - 120	0.04841	3.06	20	
PDS	Sample ID: HS20080008-16PDS	Units: mg/L		Analysis Date: 06-Aug-2020 14:16						
Client ID:		Run ID: ICPMS04_366272		SeqNo: 5687736		PrepDate: 04-Aug-2020		DF: 1		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual	
Arsenic	0.09938	0.00200	0.1	0.00082	98.6	75 - 125				
SD	Sample ID: HS20080008-16SD	Units: mg/L		Analysis Date: 06-Aug-2020 14:10						
Client ID:		Run ID: ICPMS04_366272		SeqNo: 5687733		PrepDate: 04-Aug-2020		DF: 5		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	RPD Limit Qual	
Arsenic	U	0.0100					0.00082	0	10	

The following samples were analyzed in this batch: HS20080053-02 HS20080053-03 HS20080053-04 HS20080053-05

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20080053

QC BATCH REPORT

Batch ID: 156022 (0)		Instrument: SV-7		Method: LOW-LEVEL SEMIVOLATILES BY 8270D						
MBLK	Sample ID: MBLK-156022	Units: ug/L			Analysis Date: 05-Aug-2020 12:14					
Client ID:	Run ID: SV-7_366198	SeqNo: 5686066	PrepDate: 04-Aug-2020	DF: 1						
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Diphenylhydrazine	U	0.20								
2,4-Dimethylphenol	U	0.20								
2,4-Dinitrotoluene	U	0.20								
2,6-Dinitrotoluene	U	0.20								
2-Chloronaphthalene	U	0.20								
2-Methylnaphthalene	U	0.10								
4,6-Dinitro-2-methylphenol	U	0.20								
4-Nitrophenol	U	1.0								
Acenaphthene	U	0.10								
Acenaphthylene	U	0.10								
Anthracene	U	0.10								
Benz(a)anthracene	U	0.10								
Benzo(a)pyrene	U	0.10								
Bis(2-chloroethoxy)methane	U	0.20								
Bis(2-ethylhexyl)phthalate	U	0.20								
Chrysene	U	0.10								
Dibenzofuran	U	0.10								
Di-n-butyl phthalate	U	0.20								
Fluoranthene	U	0.10								
Fluorene	U	0.10								
Naphthalene	U	0.10								
Nitrobenzene	U	0.20								
N-Nitrosodiphenylamine	U	0.20								
Pentachlorophenol	U	0.20								
Phenanthrene	U	0.10								
Phenol	U	0.20								
Pyrene	U	0.10								
<i>Surr: 2,4,6-Tribromophenol</i>	5.994	0.20	5	0	120	34 - 129				
<i>Surr: 2-Fluorobiphenyl</i>	3.606	0.20	5	0	72.1	40 - 125				
<i>Surr: 2-Fluorophenol</i>	3.699	0.20	5	0	74.0	20 - 120				
<i>Surr: 4-Terphenyl-d14</i>	4.487	0.20	5	0	89.7	40 - 135				
<i>Surr: Nitrobenzene-d5</i>	4.115	0.20	5	0	82.3	41 - 120				
<i>Surr: Phenol-d6</i>	4.817	0.20	5	0	96.3	20 - 120				

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20080053

QC BATCH REPORT

Batch ID: 156022 (0)		Instrument: SV-7		Method: LOW-LEVEL SEMIVOLATILES BY 8270D						
LCS	Sample ID: LCS-156022	Units: ug/L			Analysis Date: 05-Aug-2020 12:34					
Client ID:	Run ID: SV-7_366198	SeqNo: 5686067		PrepDate: 04-Aug-2020		DF: 1				
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Diphenylhydrazine	5.024	0.20	5	0	100	39 - 127				
2,4-Dimethylphenol	4.84	0.20	5	0	96.8	35 - 120				
2,4-Dinitrotoluene	4.739	0.20	5	0	94.8	50 - 122				
2,6-Dinitrotoluene	3.678	0.20	5	0	73.6	50 - 120				
2-Chloronaphthalene	5.197	0.20	5	0	104	50 - 120				
2-Methylnaphthalene	4.224	0.10	5	0	84.5	50 - 120				
4,6-Dinitro-2-methylphenol	4.807	0.20	5	0	96.1	25 - 121				
4-Nitrophenol	4.774	1.0	5	0	95.5	30 - 130				
Acenaphthene	4.463	0.10	5	0	89.3	45 - 120				
Acenaphthylene	4.269	0.10	5	0	85.4	47 - 120				
Anthracene	4.66	0.10	5	0	93.2	45 - 120				
Benz(a)anthracene	5.392	0.10	5	0	108	40 - 120				
Benzo(a)pyrene	5.202	0.10	5	0	104	45 - 120				
Bis(2-chloroethoxy)methane	3.795	0.20	5	0	75.9	45 - 120				
Bis(2-ethylhexyl)phthalate	5.872	0.20	5	0	117	40 - 139				
Chrysene	4.882	0.10	5	0	97.6	43 - 120				
Dibenzofuran	4.191	0.10	5	0	83.8	50 - 120				
Di-n-butyl phthalate	4.898	0.20	5	0	98.0	45 - 123				
Fluoranthene	4.361	0.10	5	0	87.2	45 - 125				
Fluorene	4.362	0.10	5	0	87.2	49 - 120				
Naphthalene	4.193	0.10	5	0	83.9	45 - 120				
Nitrobenzene	4.392	0.20	5	0	87.8	44 - 120				
N-Nitrosodiphenylamine	4.054	0.20	5	0	81.1	40 - 125				
Pentachlorophenol	3.969	0.20	5	0	79.4	19 - 121				
Phenanthrene	4.753	0.10	5	0	95.1	45 - 121				
Phenol	3.934	0.20	5	0	78.7	20 - 124				
Pyrene	4.718	0.10	5	0	94.4	40 - 130				
<i>Surr: 2,4,6-Tribromophenol</i>	<i>5.818</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>116</i>	<i>34 - 129</i>				
<i>Surr: 2-Fluorobiphenyl</i>	<i>3.785</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>75.7</i>	<i>40 - 125</i>				
<i>Surr: 2-Fluorophenol</i>	<i>3.981</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>79.6</i>	<i>20 - 120</i>				
<i>Surr: 4-Terphenyl-d14</i>	<i>4.429</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>88.6</i>	<i>40 - 135</i>				
<i>Surr: Nitrobenzene-d5</i>	<i>3.932</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>78.6</i>	<i>41 - 120</i>				
<i>Surr: Phenol-d6</i>	<i>4.469</i>	<i>0.20</i>	<i>5</i>	<i>0</i>	<i>89.4</i>	<i>20 - 120</i>				

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20080053

QC BATCH REPORT

Batch ID: 156022 (0)		Instrument: SV-7		Method: LOW-LEVEL SEMIVOLATILES BY 8270D						
LCSD		Sample ID: LCSD-156022		Units: ug/L		Analysis Date: 05-Aug-2020 12:54				
Client ID:		Run ID: SV-7_366198		SeqNo: 5686068		PrepDate: 04-Aug-2020		DF: 1		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
1,2-Diphenylhydrazine	5.111	0.20	5	0	102	39 - 127	5.024	1.72	20	
2,4-Dimethylphenol	4.617	0.20	5	0	92.3	35 - 120	4.84	4.71	20	
2,4-Dinitrotoluene	5.017	0.20	5	0	100	50 - 122	4.739	5.69	20	
2,6-Dinitrotoluene	4.863	0.20	5	0	97.3	50 - 120	3.678	27.7	20 R	
2-Chloronaphthalene	4.999	0.20	5	0	100.0	50 - 120	5.197	3.89	20	
2-Methylnaphthalene	4.356	0.10	5	0	87.1	50 - 120	4.224	3.07	20	
4,6-Dinitro-2-methylphenol	3.749	0.20	5	0	75.0	25 - 121	4.807	24.7	30	
4-Nitrophenol	5.851	1.0	5	0	117	30 - 130	4.774	20.3	20 R	
Acenaphthene	4.863	0.10	5	0	97.3	45 - 120	4.463	8.58	20	
Acenaphthylene	4.776	0.10	5	0	95.5	47 - 120	4.269	11.2	20	
Anthracene	4.783	0.10	5	0	95.7	45 - 120	4.66	2.61	20	
Benz(a)anthracene	5.027	0.10	5	0	101	40 - 120	5.392	7	20	
Benzo(a)pyrene	5.589	0.10	5	0	112	45 - 120	5.202	7.16	20	
Bis(2-chloroethoxy)methane	4.168	0.20	5	0	83.4	45 - 120	3.795	9.39	20	
Bis(2-ethylhexyl)phthalate	5.582	0.20	5	0	112	40 - 139	5.872	5.07	20	
Chrysene	4.236	0.10	5	0	84.7	43 - 120	4.882	14.2	20	
Dibenzofuran	4.756	0.10	5	0	95.1	50 - 120	4.191	12.6	20	
Di-n-butyl phthalate	4.618	0.20	5	0	92.4	45 - 123	4.898	5.89	20	
Fluoranthene	4.634	0.10	5	0	92.7	45 - 125	4.361	6.07	20	
Fluorene	4.877	0.10	5	0	97.5	49 - 120	4.362	11.2	20	
Naphthalene	4.173	0.10	5	0	83.5	45 - 120	4.193	0.493	20	
Nitrobenzene	4.541	0.20	5	0	90.8	44 - 120	4.392	3.34	20	
N-Nitrosodiphenylamine	4.332	0.20	5	0	86.6	40 - 125	4.054	6.64	20	
Pentachlorophenol	4.061	0.20	5	0	81.2	19 - 121	3.969	2.28	20	
Phenanthrene	4.612	0.10	5	0	92.2	45 - 121	4.753	3.01	20	
Phenol	4.368	0.20	5	0	87.4	20 - 124	3.934	10.5	20	
Pyrene	4.463	0.10	5	0	89.3	40 - 130	4.718	5.55	20	
Surr: 2,4,6-Tribromophenol	6.106	0.20	5	0	122	34 - 129	5.818	4.83	20	
Surr: 2-Fluorobiphenyl	4.249	0.20	5	0	85.0	40 - 125	3.785	11.6	20	
Surr: 2-Fluorophenol	3.962	0.20	5	0	79.2	20 - 120	3.981	0.471	20	
Surr: 4-Terphenyl-d14	4.411	0.20	5	0	88.2	40 - 135	4.429	0.417	20	
Surr: Nitrobenzene-d5	3.955	0.20	5	0	79.1	41 - 120	3.932	0.585	20	
Surr: Phenol-d6	5.094	0.20	5	0	102	20 - 120	4.469	13.1	20	

The following samples were analyzed in this batch: HS20080053-02 HS20080053-03 HS20080053-04 HS20080053-05

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20080053

QC BATCH REPORT

Batch ID: R366175 (0) **Instrument:** VOA4 **Method:** LOW LEVEL VOLATILES BY SW8260C

MBLK		Sample ID: VBLKW-200804			Units: ug/L		Analysis Date: 04-Aug-2020 12:18			
Client ID:		Run ID: VOA4_366175			SeqNo: 5685010		PrepDate:		DF: 1	
Analyte	Result	MLQ	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Dichloroethane	U	1.0								
Benzene	U	1.0								
Chlorobenzene	U	1.0								
Ethylbenzene	U	1.0								
Methylene chloride	U	2.0								
Toluene	U	1.0								
Xylenes, Total	U	1.0								
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>47.07</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>94.1</i>	<i>70 - 123</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>48.53</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>97.1</i>	<i>82 - 115</i>				
<i>Surr: Dibromofluoromethane</i>	<i>48.51</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>97.0</i>	<i>73 - 126</i>				
<i>Surr: Toluene-d8</i>	<i>49.24</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>98.5</i>	<i>81 - 120</i>				

LCS		Sample ID: VLCSW-200804			Units: ug/L		Analysis Date: 04-Aug-2020 11:34			
Client ID:		Run ID: VOA4_366175			SeqNo: 5685009		PrepDate:		DF: 1	
Analyte	Result	MLQ	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Dichloroethane	17.63	1.0	20	0	88.1	70 - 124				
Benzene	20.44	1.0	20	0	102	74 - 120				
Chlorobenzene	20.36	1.0	20	0	102	76 - 113				
Ethylbenzene	21.11	1.0	20	0	106	77 - 117				
Methylene chloride	19.04	2.0	20	0	95.2	70 - 127				
Toluene	20.08	1.0	20	0	100	77 - 118				
Xylenes, Total	65.74	1.0	60	0	110	75 - 122				
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>45.77</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>91.5</i>	<i>70 - 130</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>49.74</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>99.5</i>	<i>82 - 115</i>				
<i>Surr: Dibromofluoromethane</i>	<i>48.28</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>96.6</i>	<i>73 - 126</i>				
<i>Surr: Toluene-d8</i>	<i>49.66</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>99.3</i>	<i>81 - 120</i>				

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20080053

QC BATCH REPORT

Batch ID: R366175 (0) **Instrument:** VOA4 **Method:** LOW LEVEL VOLATILES BY SW8260C

MS		Sample ID: HS20080048-01MS			Units: ug/L		Analysis Date: 04-Aug-2020 14:10			
Client ID:		Run ID: VOA4_366175			SeqNo: 5685015		PrepDate:		DF: 1	
Analyte	Result	MLQ	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Dichloroethane	17.78	1.0	20	0	88.9	70 - 127				
Benzene	21.16	1.0	20	0	106	70 - 127				
Chlorobenzene	20.32	1.0	20	0	102	70 - 114				
Ethylbenzene	21.46	1.0	20	0	107	70 - 124				
Methylene chloride	18.82	2.0	20	0	94.1	70 - 128				
Toluene	20.23	1.0	20	0	101	70 - 123				
Xylenes, Total	66.17	1.0	60	0	110	70 - 130				
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>45.12</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>90.2</i>	<i>70 - 126</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>49.51</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>99.0</i>	<i>81 - 113</i>				
<i>Surr: Dibromofluoromethane</i>	<i>46.77</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>93.5</i>	<i>77 - 123</i>				
<i>Surr: Toluene-d8</i>	<i>49.96</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>99.9</i>	<i>82 - 127</i>				

MSD		Sample ID: HS20080048-01MSD			Units: ug/L		Analysis Date: 04-Aug-2020 14:33			
Client ID:		Run ID: VOA4_366175			SeqNo: 5685016		PrepDate:		DF: 1	
Analyte	Result	MLQ	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Dichloroethane	17.04	1.0	20	0	85.2	70 - 127	17.78	4.23	20	
Benzene	20.84	1.0	20	0	104	70 - 127	21.16	1.52	20	
Chlorobenzene	20.14	1.0	20	0	101	70 - 114	20.32	0.906	20	
Ethylbenzene	21.73	1.0	20	0	109	70 - 124	21.46	1.22	20	
Methylene chloride	18.85	2.0	20	0	94.2	70 - 128	18.82	0.121	20	
Toluene	20.25	1.0	20	0	101	70 - 123	20.23	0.0775	20	
Xylenes, Total	65.81	1.0	60	0	110	70 - 130	66.17	0.545	20	
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>46.14</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>92.3</i>	<i>70 - 126</i>	<i>45.12</i>	<i>2.23</i>	<i>20</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>49.84</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>99.7</i>	<i>81 - 113</i>	<i>49.51</i>	<i>0.674</i>	<i>20</i>	
<i>Surr: Dibromofluoromethane</i>	<i>48.19</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>96.4</i>	<i>77 - 123</i>	<i>46.77</i>	<i>2.99</i>	<i>20</i>	
<i>Surr: Toluene-d8</i>	<i>49.42</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>98.8</i>	<i>82 - 127</i>	<i>49.96</i>	<i>1.09</i>	<i>20</i>	

The following samples were analyzed in this batch: HS20080053-01 HS20080053-05

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20080053

QC BATCH REPORT

Batch ID: R366179 (0) **Instrument:** VOA2 **Method:** LOW LEVEL VOLATILES BY SW8260C

MBLK		Sample ID: VBLKW-200804			Units: ug/L		Analysis Date: 04-Aug-2020 14:13			
Client ID:		Run ID: VOA2_366179			SeqNo: 5685089		PrepDate:		DF: 1	
Analyte	Result	MLQ	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Dichloroethane	U	1.0								
Benzene	U	1.0								
Chlorobenzene	U	1.0								
Ethylbenzene	U	1.0								
Methylene chloride	U	2.0								
Toluene	U	1.0								
Xylenes, Total	U	1.0								
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>46.31</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>92.6</i>	<i>70 - 123</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>47.21</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>94.4</i>	<i>82 - 115</i>				
<i>Surr: Dibromofluoromethane</i>	<i>49.51</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>99.0</i>	<i>73 - 126</i>				
<i>Surr: Toluene-d8</i>	<i>49.84</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>99.7</i>	<i>81 - 120</i>				

LCS		Sample ID: VLCSW-200804			Units: ug/L		Analysis Date: 04-Aug-2020 13:23			
Client ID:		Run ID: VOA2_366179			SeqNo: 5685088		PrepDate:		DF: 1	
Analyte	Result	MLQ	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Dichloroethane	18.48	1.0	20	0	92.4	70 - 124				
Benzene	20.08	1.0	20	0	100	74 - 120				
Chlorobenzene	19.76	1.0	20	0	98.8	76 - 113				
Ethylbenzene	19.67	1.0	20	0	98.4	77 - 117				
Methylene chloride	24.25	2.0	20	0	121	70 - 127				
Toluene	20.39	1.0	20	0	102	77 - 118				
Xylenes, Total	60.5	1.0	60	0	101	75 - 122				
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>48.22</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>96.4</i>	<i>70 - 130</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>45.08</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>90.2</i>	<i>82 - 115</i>				
<i>Surr: Dibromofluoromethane</i>	<i>48.41</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>96.8</i>	<i>73 - 126</i>				
<i>Surr: Toluene-d8</i>	<i>50.14</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>100</i>	<i>81 - 120</i>				

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20080053

QC BATCH REPORT

Batch ID: R366179 (0) **Instrument:** VOA2 **Method:** LOW LEVEL VOLATILES BY SW8260C

MS		Sample ID: HS20080048-03MS			Units: ug/L		Analysis Date: 04-Aug-2020 16:43			
Client ID:		Run ID: VOA2_366179			SeqNo: 5685095		PrepDate:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Dichloroethane	18.17	1.0	20	0	90.8	70 - 127				
Benzene	20.5	1.0	20	0	103	70 - 127				
Chlorobenzene	19.53	1.0	20	0	97.7	70 - 114				
Ethylbenzene	20.11	1.0	20	0	101	70 - 124				
Methylene chloride	20.17	2.0	20	0	101	70 - 128				
Toluene	21.4	1.0	20	0	107	70 - 123				
Xylenes, Total	61.32	1.0	60	0	102	70 - 130				
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>48.76</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>97.5</i>	<i>70 - 126</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>47.72</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>95.4</i>	<i>81 - 113</i>				
<i>Surr: Dibromofluoromethane</i>	<i>48.83</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>97.7</i>	<i>77 - 123</i>				
<i>Surr: Toluene-d8</i>	<i>51.65</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>103</i>	<i>82 - 127</i>				

MSD		Sample ID: HS20080048-03MSD			Units: ug/L		Analysis Date: 04-Aug-2020 17:08			
Client ID:		Run ID: VOA2_366179			SeqNo: 5685096		PrepDate:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Dichloroethane	18.58	1.0	20	0	92.9	70 - 127	18.17	2.21	20	
Benzene	21.02	1.0	20	0	105	70 - 127	20.5	2.48	20	
Chlorobenzene	19.73	1.0	20	0	98.7	70 - 114	19.53	1.03	20	
Ethylbenzene	20.75	1.0	20	0	104	70 - 124	20.11	3.15	20	
Methylene chloride	20.23	2.0	20	0	101	70 - 128	20.17	0.297	20	
Toluene	19.35	1.0	20	0	96.8	70 - 123	21.4	10	20	
Xylenes, Total	62.32	1.0	60	0	104	70 - 130	61.32	1.62	20	
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>47.66</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>95.3</i>	<i>70 - 126</i>	<i>48.76</i>	<i>2.28</i>	<i>20</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>49.6</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>99.2</i>	<i>81 - 113</i>	<i>47.72</i>	<i>3.86</i>	<i>20</i>	
<i>Surr: Dibromofluoromethane</i>	<i>48.43</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>96.9</i>	<i>77 - 123</i>	<i>48.83</i>	<i>0.818</i>	<i>20</i>	
<i>Surr: Toluene-d8</i>	<i>48.35</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>96.7</i>	<i>82 - 127</i>	<i>51.65</i>	<i>6.6</i>	<i>20</i>	

The following samples were analyzed in this batch: HS20080053-02 HS20080053-03 HS20080053-04

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20080053

**QUALIFIERS,
ACRONYMS, UNITS**

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
mg/L	Milligrams per Liter

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	20-030-0	26-Mar-2021
California	2919, 2020-2021	30-Apr-2021
Dept of Defense	ANAB L2231 V010	22-Dec-2021
Florida	E87611-30-07/01/2020	30-Jun-2021
Illinois	2000322020-4	09-May-2021
Kentucky	123043, 2020-2021	30-Apr-2021
Louisiana	03087, 2020-2021	30-Jun-2021
Maryland	343, 2019-2020	30-Sep-2020
North Carolina	624-2020	31-Dec-2020
North Dakota	R-193 2020-2021	30-Apr-2021
Oklahoma	2019-141	31-Aug-2020
Texas	T104704231-20-26	30-Apr-2021

Sample Receipt Checklist

Work Order ID: HS20080053

Date/Time Received: 03-Aug-2020 15:35

Client Name: PBW

Received by: Jared R. Makan

Completed By: <u>/S/ Niles D. Ranchod</u>	03-Aug-2020 18:31	Reviewed by: <u>/S/ Dane J. Wacasey</u>	04-Aug-2020 19:06
eSignature	Date/Time	eSignature	Date/Time

Matrices: **Water**

Carrier name: **Client**

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- VOA/TX1005/TX1006 Solids in hermetically sealed vials? Yes No Not Present
- Chain of custody present? Yes No 1 Page(s)
- Chain of custody signed when relinquished and received? Yes No COC IDs:226827
- Samplers name present on COC? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container/Temp Blank temperature in compliance? Yes No

Temperature(s)/Thermometer(s):	1.8°C UC/C	IR # 25
Cooler(s)/Kit(s):	45447	
Date/Time sample(s) sent to storage:	08/03/2020 19:00	

- Water - VOA vials have zero headspace? Yes No No VOA vials submitted
- Water - pH acceptable upon receipt? Yes No N/A
- pH adjusted? Yes No N/A

pH adjusted by:

Login Notes: MW-59D and DUP08 no metals container received . Metals selected for analysis on COC. created split from 1L amber into 120pHNO3 container for metals upon receipt.

Client Contacted: _____ Date Contacted: _____ Person Contacted: _____

Contacted By: _____ Regarding: _____

Comments:

Corrective Action:



Cincinnati, OH
+1 513 733 5336

Fort Collins, CO
+1 970 490 1511

Everett, WA
+1 425 356 2600

Holland, MI
+1 616 399 6070

Chain of Custody Form

HS20080053

ww

Page of

COC ID: 226827

Golder Associates Inc.
Houston TX-Wood Preserving Works



ALS Project Manager:

Customer Information		Project Information		ALS Project Manager:											
Purchase Order	UPRR/Kevin Peterburs	Project Name	Houston TX-Wood Preserving Works	A	8260_LL_W (5632528 Volatile Organics Site Specific)										
Work Order		Project Number	1620-07-Rev0 SR 92683	B	8260_LL_W (5632528 VOC Site Specific + V.C.)										
Company Name	Golder Associates	Bill To Company	Union Pacific Railroad- A/P	C	8270_LOW_W (5632532 SemiVolatiles Site specific)										
Send Report To	Eric Matzner	Invoice Attn	Accounts Payable	D	ICP_TW (5636002 5652646 Metals - As)										
Address	2201 Double Creek Drive Suite 4004	Address	1400 Douglas Street Stop 0750	E											
				F											
City/State/Zip	Round Rock, TX 78654	City/State/Zip	Omaha NE 681790750	G											
Phone	(512) 671-3434	Phone		H											
Fax	(512) 671-3446	Fax		I											
e-Mail Address	eric.matzner@pbwllc.com	e-Mail Address		J											


No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	WG-1620-TB09-20200803	8-3-20	1500	Water	1	2		X									
2	WG-1620/MW59020200803	8-3-20	1345	Groundwa	1,2,8	5	X		X	X							
3	WG-1620/MW66D20200803	8-3-20	945	w	1,2,8	6	X		X	X							
4	WG-1620/DUP0820200803	8-3-20	-	w	1,2,8	5	X		X	X							
5	WG-1620/FB0820200803	8-3-20	1500	w	1,2,8	6	X	X	X	X							
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign <i>[Signature]</i>		Shipment Method	Required Turnaround Time: (Check Box) <input checked="" type="checkbox"/> STD 10 Wk Days <input type="checkbox"/> 5 Wk Days <input type="checkbox"/> 2 Wk Days <input type="checkbox"/> 24 Hour			Results Due Date:
Relinquished by: <i>[Signature]</i>	Date: 8-3-20 Time: 15:35	Received by: <i>[Signature]</i>	Notes: UPRR Houston MWPW			
Relinquished by: <i>[Signature]</i>	Date: 8/3/20 Time: 15:35	Received by (Laboratory): J. MATZNER	Cooler ID 45447	Cooler Temp. 1.8°C	QC Package: (Check One Box Below)	
Logged by (Laboratory):	Date:	Checked by (Laboratory):		1225	<input type="checkbox"/> Level II Std QC	<input checked="" type="checkbox"/> TRRP Checklist
				CFO	<input type="checkbox"/> Level III Std QC/Raw Date	<input type="checkbox"/> TRRP Level IV
					<input type="checkbox"/> Level IV SW846/CLP	
					<input type="checkbox"/> Other	

Preservative Key: 1-HCl 2-HNO₃ 3-H₂SO₄ 4-NaOH 5-Na₂S₂O₃ 6-NaHSO₄ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
 2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
 3. The Chain of Custody is a legal document. All information must be completed accurately.

Copyright 2011 by ALS Environmental.

 <p>ALS 10450 Stancliff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5656 Fax. +1 281 530 5887</p>	<p>45447</p>	CUSTODY SEAL		Seal Broken By:
		Date: 8/31/08	Time: 1520	cm 08/03/20
		Name: [Signature]		
		Company: [Signature]		8220

45447 200 9 2 2008



10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887

September 09, 2020

Eric Matzner
Golder Associates Inc.
2201 Double Creek Drive
Suite 4004
Round Rock, TX 78664

Work Order: **HS20080775**

Laboratory Results for: **Houston TX-Wood Preserving Works**

Dear Eric Matzner,

ALS Environmental received 9 sample(s) on Aug 18, 2020 for the analysis presented in the following report.

This is a REVISED REPORT. Please see the Case Narrative for discussion concerning this revision.

Regards,

Generated By: DANE.WACASEY
Dane J. Wacasey

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
Work Order: HS20080775

CASE NARRATIVE

Work Order Comments

- This report was revised September 9, 2020 in order to report as a TRRP-13 compliant report.
-

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20080775

**TRRP Laboratory Data
Package Cover Page**

This data package consists of all or some of the following as applicable:

This signature page, the laboratory review checklist, and the following reportable data:

- R1 Field chain-of-custody documentation;
- R2 Sample identification cross-reference;
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
 - a) Items consistent with NELAC Chapter 5,
 - b) dilution factors,
 - c) preparation methods,
 - d) cleanup methods, and
 - e) if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate recovery data including:
 - a) Calculated recovery (%R), and
 - b) The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
 - a) LCS spiking amounts,
 - b) Calculated %R for each analyte, and
 - c) The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a) Samples associated with the MS/MSD clearly identified,
 - b) MS/MSD spiking amounts,
 - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d) Calculated %Rs and relative percent differences (RPDs), and
 - e) The laboratory's MS/MSD QC limits.
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
 - a) the amount of analyte measured in the duplicate,
 - b) the calculated RPD, and
 - c) the laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.
- R10 Other problems or anomalies.
The Exception Report for each "No" or "Not Reviewed (NR)" item in Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20080775

**TRRP Laboratory Data
Package Cover Page**

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory have been identified by the laboratory in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Check, if applicable: [NA] This laboratory meets an exception under 30 TAC §25.6 and was last inspected by TCEQ or _____ on (enter date of last inspection). Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.



Dane J. Wacasey

Laboratory Review Checklist: Reportable Data							
Laboratory Name: ALS Laboratory Group				LRC Date: 9/9/2020			
Project Name: Houston TX-Wood Preserving Works				Laboratory Job Number: HS20080775			
Reviewer Name: Dane Wacasey				Prep Batch Number(s): 156596, 156597, R367242, R367307			
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
R1	OI	Chain-of-custody (C-O-C)					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?	X				
R2	OI	Sample and quality control (QC) identification					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	Test reports					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?			X		
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW-846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	Surrogate recovery data					
		Were surrogates added prior to extraction?	X				
		Were surrogate percent recoveries in all samples within the laboratory QC limits?	X				
R5	OI	Test reports/summary forms for blank samples					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	Laboratory control samples (LCS):					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?		X			1
		Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?	X				
		Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	Analytical duplicate data					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	Method quantitation limits (MQLs):					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	Other problems/anomalies					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Were all necessary corrective actions performed for the reported data?	X				
		Was applicable and available technology used to lower the SDL and minimize the matrix interference affects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Program for the analytes, matrices and methods associated with this laboratory data package?	X				

Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

O = Organic Analyses; I = Inorganic Analyses (and general chemistry, when applicable);

NA = Not Applicable;

NR = Not Reviewed;

R# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Supporting Data							
Laboratory Name: ALS Laboratory Group				LRC Date: 9/9/2020			
Project Name: Houston TX-Wood Preserving Works				Laboratory Job Number: HS20080775			
Reviewer Name: Dane Wacasey				Prep Batch Number(s): 156596, 156597, R367242, R367307			
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S1	OI	Initial calibration (ICAL)					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB)					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	Mass spectral tuning:					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	Internal standards (IS):					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	Raw data (NELAC section 1 appendix A glossary, and section 5.12 or ISO/IEC 17025 section					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	Dual column confirmation					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	Tentatively identified compounds (TICs):					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	Interference Check Sample (ICS) results:					
		Were percent recoveries within method QC limits?	X				
S9	I	Serial dilutions, post digestion spikes, and method of standard additions					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	X				
S10	OI	Method detection limit (MDL) studies					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	Proficiency test reports:					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards documentation					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/analyte identification procedures					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of analyst competency (DOC)					
		Was DOC conducted consistent with NELAC Chapter 5C or ISO/IEC 4?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/validation documentation for methods (NELAC Chap 5 or ISO/IEC 17025 Section 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory standard operating procedures (SOPs):					
		Are laboratory SOPs current and on file for each method performed?	X				

Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

O = Organic Analyses; I = Inorganic Analyses (and general chemistry, when applicable);

NA = Not Applicable;

NR = Not Reviewed;

R# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Exception Data

Laboratory Name: ALS Laboratory Group	LRC Date: 9/9/2020
Project Name: Houston TX-Wood Preserving Works	Laboratory Job Number: HS20080775
Reviewer Name: Dane Wacasey	Prep Batch Number(s): 156596, 156597, R367242, R367307

ER#^s	Description
1	Batch 156596, semivolatile organics by method SW8270: 4,6-Dinitro-2-methylphenol recovered high in LCS/LCSD. The analyte was not detected in the associated samples.

Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
O = Organic Analyses; I = Inorganic Analyses (and general chemistry, when applicable);
NA = Not Applicable;
NR = Not Reviewed;
R# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
Work Order: HS20080775

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS20080775-01	WQ-1620-TB09-20200818	Water	CG 072920 -72	18-Aug-2020 14:35	18-Aug-2020 16:00	<input type="checkbox"/>
HS20080775-02	WG-1620-MW36A-20200818	Water		18-Aug-2020 09:20	18-Aug-2020 16:00	<input type="checkbox"/>
HS20080775-03	WG-1620-MW44C-20200818	Water		18-Aug-2020 10:10	18-Aug-2020 16:00	<input type="checkbox"/>
HS20080775-04	WG-1620-MW34CR-20200818	Water		18-Aug-2020 11:05	18-Aug-2020 16:00	<input type="checkbox"/>
HS20080775-05	WG-1620-MW33A-20200818	Water		18-Aug-2020 12:05	18-Aug-2020 16:00	<input type="checkbox"/>
HS20080775-06	WG-1620-MW70C-20200818	Water		18-Aug-2020 13:00	18-Aug-2020 16:00	<input type="checkbox"/>
HS20080775-07	WG-1620-MW27C-20200818	Water		18-Aug-2020 14:00	18-Aug-2020 16:00	<input type="checkbox"/>
HS20080775-08	WG-1620-DUP09-20200818	Water		18-Aug-2020 00:00	18-Aug-2020 16:00	<input type="checkbox"/>
HS20080775-09	WG-1620-FB13-20200818	Water		18-Aug-2020 14:30	18-Aug-2020 16:00	<input type="checkbox"/>

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WQ-1620-TB09-20200818
 Collection Date: 18-Aug-2020 14:35

ANALYTICAL REPORT
 WorkOrder:HS20080775
 Lab ID:HS20080775-01
 Matrix:Water

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	< 0.00020		0.00020	0.0010	mg/L	1	21-Aug-2020 19:05
Benzene	< 0.00020		0.00020	0.0010	mg/L	1	21-Aug-2020 19:05
Chlorobenzene	< 0.00030		0.00030	0.0010	mg/L	1	21-Aug-2020 19:05
Ethylbenzene	< 0.00030		0.00030	0.0010	mg/L	1	21-Aug-2020 19:05
Methylene chloride	< 0.0010		0.0010	0.0020	mg/L	1	21-Aug-2020 19:05
Toluene	< 0.00020		0.00020	0.0010	mg/L	1	21-Aug-2020 19:05
Xylenes, Total	< 0.00030		0.00030	0.0010	mg/L	1	21-Aug-2020 19:05
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>91.7</i>			<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>21-Aug-2020 19:05</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>97.6</i>			<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>21-Aug-2020 19:05</i>
<i>Surr: Dibromofluoromethane</i>	<i>97.0</i>			<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>21-Aug-2020 19:05</i>
<i>Surr: Toluene-d8</i>	<i>100</i>			<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>21-Aug-2020 19:05</i>

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW36A-20200818
 Collection Date: 18-Aug-2020 09:20

ANALYTICAL REPORT
 WorkOrder:HS20080775
 Lab ID:HS20080775-02
 Matrix:Water

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 21-Aug-2020		Analyst: GEY	
1,2-Diphenylhydrazine	< 0.000022		0.000022	0.00021	mg/L	1	24-Aug-2020 17:11
2,4-Dimethylphenol	< 0.000042		0.000042	0.00021	mg/L	1	24-Aug-2020 17:11
2,4-Dinitrotoluene	< 0.000060		0.000060	0.00021	mg/L	1	24-Aug-2020 17:11
2,6-Dinitrotoluene	< 0.000044		0.000044	0.00021	mg/L	1	24-Aug-2020 17:11
2-Chloronaphthalene	< 0.000022		0.000022	0.00021	mg/L	1	24-Aug-2020 17:11
2-Methylnaphthalene	< 0.000020		0.000020	0.00010	mg/L	1	24-Aug-2020 17:11
4,6-Dinitro-2-methylphenol	< 0.000021		0.000021	0.00021	mg/L	1	24-Aug-2020 17:11
4-Nitrophenol	< 0.000049		0.000049	0.0010	mg/L	1	24-Aug-2020 17:11
Acenaphthene	< 0.000028		0.000028	0.00010	mg/L	1	24-Aug-2020 17:11
Acenaphthylene	< 0.000016		0.000016	0.00010	mg/L	1	24-Aug-2020 17:11
Anthracene	< 0.000015		0.000015	0.00010	mg/L	1	24-Aug-2020 17:11
Benz(a)anthracene	< 0.000052		0.000052	0.00010	mg/L	1	24-Aug-2020 17:11
Benzo(a)pyrene	< 0.000021		0.000021	0.00010	mg/L	1	24-Aug-2020 17:11
Bis(2-chloroethoxy)methane	< 0.000031		0.000031	0.00021	mg/L	1	24-Aug-2020 17:11
Bis(2-ethylhexyl)phthalate	< 0.000039		0.000039	0.00021	mg/L	1	24-Aug-2020 17:11
Chrysene	< 0.000022		0.000022	0.00010	mg/L	1	24-Aug-2020 17:11
Dibenzofuran	< 0.000021		0.000021	0.00010	mg/L	1	24-Aug-2020 17:11
Di-n-butyl phthalate	0.000025	J	0.000021	0.00021	mg/L	1	24-Aug-2020 17:11
Fluoranthene	< 0.000010		0.000010	0.00010	mg/L	1	24-Aug-2020 17:11
Fluorene	< 0.000031		0.000031	0.00010	mg/L	1	24-Aug-2020 17:11
Naphthalene	< 0.000021		0.000021	0.00010	mg/L	1	24-Aug-2020 17:11
Nitrobenzene	< 0.000025		0.000025	0.00021	mg/L	1	24-Aug-2020 17:11
N-Nitrosodiphenylamine	< 0.000026		0.000026	0.00021	mg/L	1	24-Aug-2020 17:11
Pentachlorophenol	< 0.000082		0.000082	0.00021	mg/L	1	24-Aug-2020 17:11
Phenanthrene	< 0.000022		0.000022	0.00010	mg/L	1	24-Aug-2020 17:11
Phenol	< 0.000036		0.000036	0.00021	mg/L	1	24-Aug-2020 17:11
Pyrene	< 0.000020		0.000020	0.00010	mg/L	1	24-Aug-2020 17:11
<i>Surr: 2,4,6-Tribromophenol</i>	<i>57.3</i>			<i>34-129</i>	<i>%REC</i>	<i>1</i>	<i>24-Aug-2020 17:11</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>65.9</i>			<i>40-125</i>	<i>%REC</i>	<i>1</i>	<i>24-Aug-2020 17:11</i>
<i>Surr: 2-Fluorophenol</i>	<i>51.4</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>24-Aug-2020 17:11</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>89.4</i>			<i>40-135</i>	<i>%REC</i>	<i>1</i>	<i>24-Aug-2020 17:11</i>
<i>Surr: Nitrobenzene-d5</i>	<i>57.8</i>			<i>41-120</i>	<i>%REC</i>	<i>1</i>	<i>24-Aug-2020 17:11</i>
<i>Surr: Phenol-d6</i>	<i>57.1</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>24-Aug-2020 17:11</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW44C-20200818
 Collection Date: 18-Aug-2020 10:10

ANALYTICAL REPORT
 WorkOrder:HS20080775
 Lab ID:HS20080775-03
 Matrix:Water

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 21-Aug-2020		Analyst: GEY	
1,2-Diphenylhydrazine	< 0.000021		0.000021	0.00020	mg/L	1	24-Aug-2020 17:49
2,4-Dimethylphenol	< 0.000040		0.000040	0.00020	mg/L	1	24-Aug-2020 17:49
2,4-Dinitrotoluene	< 0.000059		0.000059	0.00020	mg/L	1	24-Aug-2020 17:49
2,6-Dinitrotoluene	< 0.000042		0.000042	0.00020	mg/L	1	24-Aug-2020 17:49
2-Chloronaphthalene	< 0.000021		0.000021	0.00020	mg/L	1	24-Aug-2020 17:49
2-Methylnaphthalene	0.000033	J	0.000019	0.00010	mg/L	1	24-Aug-2020 17:49
4,6-Dinitro-2-methylphenol	< 0.000020		0.000020	0.00020	mg/L	1	24-Aug-2020 17:49
4-Nitrophenol	< 0.000047		0.000047	0.0010	mg/L	1	24-Aug-2020 17:49
Acenaphthene	0.000052	J	0.000027	0.00010	mg/L	1	24-Aug-2020 17:49
Acenaphthylene	< 0.000015		0.000015	0.00010	mg/L	1	24-Aug-2020 17:49
Anthracene	0.00015		0.000014	0.00010	mg/L	1	24-Aug-2020 17:49
Benz(a)anthracene	0.00034		0.000051	0.00010	mg/L	1	24-Aug-2020 17:49
Benzo(a)pyrene	0.00029		0.000020	0.00010	mg/L	1	24-Aug-2020 17:49
Bis(2-chloroethoxy)methane	< 0.000030		0.000030	0.00020	mg/L	1	24-Aug-2020 17:49
Bis(2-ethylhexyl)phthalate	0.00020		0.000037	0.00020	mg/L	1	24-Aug-2020 17:49
Chrysene	0.00030		0.000021	0.00010	mg/L	1	24-Aug-2020 17:49
Dibenzofuran	0.000041	J	0.000020	0.00010	mg/L	1	24-Aug-2020 17:49
Di-n-butyl phthalate	< 0.000020		0.000020	0.00020	mg/L	1	24-Aug-2020 17:49
Fluoranthene	0.00077		0.000010	0.00010	mg/L	1	24-Aug-2020 17:49
Fluorene	0.000084	J	0.000030	0.00010	mg/L	1	24-Aug-2020 17:49
Naphthalene	0.000062	J	0.000020	0.00010	mg/L	1	24-Aug-2020 17:49
Nitrobenzene	< 0.000024		0.000024	0.00020	mg/L	1	24-Aug-2020 17:49
N-Nitrosodiphenylamine	< 0.000025		0.000025	0.00020	mg/L	1	24-Aug-2020 17:49
Pentachlorophenol	< 0.000080		0.000080	0.00020	mg/L	1	24-Aug-2020 17:49
Phenanthrene	0.00030		0.000021	0.00010	mg/L	1	24-Aug-2020 17:49
Phenol	< 0.000035		0.000035	0.00020	mg/L	1	24-Aug-2020 17:49
Pyrene	0.00057		0.000019	0.00010	mg/L	1	24-Aug-2020 17:49
<i>Surr: 2,4,6-Tribromophenol</i>	95.5			34-129	%REC	1	24-Aug-2020 17:49
<i>Surr: 2-Fluorobiphenyl</i>	68.2			40-125	%REC	1	24-Aug-2020 17:49
<i>Surr: 2-Fluorophenol</i>	68.6			20-120	%REC	1	24-Aug-2020 17:49
<i>Surr: 4-Terphenyl-d14</i>	90.9			40-135	%REC	1	24-Aug-2020 17:49
<i>Surr: Nitrobenzene-d5</i>	67.3			41-120	%REC	1	24-Aug-2020 17:49
<i>Surr: Phenol-d6</i>	70.9			20-120	%REC	1	24-Aug-2020 17:49

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision: 1

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW34CR-20200818
 Collection Date: 18-Aug-2020 11:05

ANALYTICAL REPORT

WorkOrder:HS20080775
 Lab ID:HS20080775-04
 Matrix:Water

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 21-Aug-2020		Analyst: GEY	
1,2-Diphenylhydrazine	< 0.000021		0.000021	0.00020	mg/L	1	24-Aug-2020 18:08
2,4-Dimethylphenol	< 0.000041		0.000041	0.00020	mg/L	1	24-Aug-2020 18:08
2,4-Dinitrotoluene	< 0.000059		0.000059	0.00020	mg/L	1	24-Aug-2020 18:08
2,6-Dinitrotoluene	< 0.000043		0.000043	0.00020	mg/L	1	24-Aug-2020 18:08
2-Chloronaphthalene	< 0.000021		0.000021	0.00020	mg/L	1	24-Aug-2020 18:08
2-Methylnaphthalene	< 0.000019		0.000019	0.00010	mg/L	1	24-Aug-2020 18:08
4,6-Dinitro-2-methylphenol	0.00015	J	0.000020	0.00020	mg/L	1	24-Aug-2020 18:08
4-Nitrophenol	< 0.000048		0.000048	0.0010	mg/L	1	24-Aug-2020 18:08
Acenaphthene	< 0.000028		0.000028	0.00010	mg/L	1	24-Aug-2020 18:08
Acenaphthylene	< 0.000015		0.000015	0.00010	mg/L	1	24-Aug-2020 18:08
Anthracene	< 0.000014		0.000014	0.00010	mg/L	1	24-Aug-2020 18:08
Benz(a)anthracene	< 0.000051		0.000051	0.00010	mg/L	1	24-Aug-2020 18:08
Benzo(a)pyrene	< 0.000020		0.000020	0.00010	mg/L	1	24-Aug-2020 18:08
Bis(2-chloroethoxy)methane	< 0.000031		0.000031	0.00020	mg/L	1	24-Aug-2020 18:08
Bis(2-ethylhexyl)phthalate	0.000064	J	0.000038	0.00020	mg/L	1	24-Aug-2020 18:08
Chrysene	< 0.000021		0.000021	0.00010	mg/L	1	24-Aug-2020 18:08
Dibenzofuran	< 0.000020		0.000020	0.00010	mg/L	1	24-Aug-2020 18:08
Di-n-butyl phthalate	0.00027		0.000020	0.00020	mg/L	1	24-Aug-2020 18:08
Fluoranthene	0.000026	J	0.000010	0.00010	mg/L	1	24-Aug-2020 18:08
Fluorene	< 0.000031		0.000031	0.00010	mg/L	1	24-Aug-2020 18:08
Naphthalene	< 0.000020		0.000020	0.00010	mg/L	1	24-Aug-2020 18:08
Nitrobenzene	< 0.000024		0.000024	0.00020	mg/L	1	24-Aug-2020 18:08
N-Nitrosodiphenylamine	< 0.000026		0.000026	0.00020	mg/L	1	24-Aug-2020 18:08
Pentachlorophenol	< 0.000081		0.000081	0.00020	mg/L	1	24-Aug-2020 18:08
Phenanthrene	< 0.000021		0.000021	0.00010	mg/L	1	24-Aug-2020 18:08
Phenol	< 0.000036		0.000036	0.00020	mg/L	1	24-Aug-2020 18:08
Pyrene	< 0.000019		0.000019	0.00010	mg/L	1	24-Aug-2020 18:08
<i>Surr: 2,4,6-Tribromophenol</i>	85.6			34-129	%REC	1	24-Aug-2020 18:08
<i>Surr: 2-Fluorobiphenyl</i>	67.1			40-125	%REC	1	24-Aug-2020 18:08
<i>Surr: 2-Fluorophenol</i>	64.6			20-120	%REC	1	24-Aug-2020 18:08
<i>Surr: 4-Terphenyl-d14</i>	84.5			40-135	%REC	1	24-Aug-2020 18:08
<i>Surr: Nitrobenzene-d5</i>	60.7			41-120	%REC	1	24-Aug-2020 18:08
<i>Surr: Phenol-d6</i>	60.7			20-120	%REC	1	24-Aug-2020 18:08

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision: 1

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW33A-20200818
 Collection Date: 18-Aug-2020 12:05

ANALYTICAL REPORT
 WorkOrder:HS20080775
 Lab ID:HS20080775-05
 Matrix:Water

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 21-Aug-2020		Analyst: GEY	
1,2-Diphenylhydrazine	< 0.000021		0.000021	0.00020	mg/L	1	24-Aug-2020 18:27
2,4-Dimethylphenol	< 0.000040		0.000040	0.00020	mg/L	1	24-Aug-2020 18:27
2,4-Dinitrotoluene	< 0.000058		0.000058	0.00020	mg/L	1	24-Aug-2020 18:27
2,6-Dinitrotoluene	< 0.000042		0.000042	0.00020	mg/L	1	24-Aug-2020 18:27
2-Chloronaphthalene	< 0.000021		0.000021	0.00020	mg/L	1	24-Aug-2020 18:27
2-Methylnaphthalene	< 0.000019		0.000019	0.00010	mg/L	1	24-Aug-2020 18:27
4,6-Dinitro-2-methylphenol	< 0.000020		0.000020	0.00020	mg/L	1	24-Aug-2020 18:27
4-Nitrophenol	< 0.000047		0.000047	0.0010	mg/L	1	24-Aug-2020 18:27
Acenaphthene	< 0.000027		0.000027	0.00010	mg/L	1	24-Aug-2020 18:27
Acenaphthylene	< 0.000015		0.000015	0.00010	mg/L	1	24-Aug-2020 18:27
Anthracene	< 0.000014		0.000014	0.00010	mg/L	1	24-Aug-2020 18:27
Benz(a)anthracene	0.00011		0.000050	0.00010	mg/L	1	24-Aug-2020 18:27
Benzo(a)pyrene	< 0.000020		0.000020	0.00010	mg/L	1	24-Aug-2020 18:27
Bis(2-chloroethoxy)methane	< 0.000030		0.000030	0.00020	mg/L	1	24-Aug-2020 18:27
Bis(2-ethylhexyl)phthalate	0.000051	J	0.000037	0.00020	mg/L	1	24-Aug-2020 18:27
Chrysene	0.000069	J	0.000021	0.00010	mg/L	1	24-Aug-2020 18:27
Dibenzofuran	< 0.000020		0.000020	0.00010	mg/L	1	24-Aug-2020 18:27
Di-n-butyl phthalate	< 0.000020		0.000020	0.00020	mg/L	1	24-Aug-2020 18:27
Fluoranthene	0.00067		0.000010	0.00010	mg/L	1	24-Aug-2020 18:27
Fluorene	< 0.000030		0.000030	0.00010	mg/L	1	24-Aug-2020 18:27
Naphthalene	0.000033	J	0.000020	0.00010	mg/L	1	24-Aug-2020 18:27
Nitrobenzene	< 0.000024		0.000024	0.00020	mg/L	1	24-Aug-2020 18:27
N-Nitrosodiphenylamine	< 0.000025		0.000025	0.00020	mg/L	1	24-Aug-2020 18:27
Pentachlorophenol	< 0.000079		0.000079	0.00020	mg/L	1	24-Aug-2020 18:27
Phenanthrene	0.000023	J	0.000021	0.00010	mg/L	1	24-Aug-2020 18:27
Phenol	< 0.000035		0.000035	0.00020	mg/L	1	24-Aug-2020 18:27
Pyrene	0.0011		0.000019	0.00010	mg/L	1	24-Aug-2020 18:27
<i>Surr: 2,4,6-Tribromophenol</i>	74.9			34-129	%REC	1	24-Aug-2020 18:27
<i>Surr: 2-Fluorobiphenyl</i>	74.9			40-125	%REC	1	24-Aug-2020 18:27
<i>Surr: 2-Fluorophenol</i>	67.4			20-120	%REC	1	24-Aug-2020 18:27
<i>Surr: 4-Terphenyl-d14</i>	95.9			40-135	%REC	1	24-Aug-2020 18:27
<i>Surr: Nitrobenzene-d5</i>	66.5			41-120	%REC	1	24-Aug-2020 18:27
<i>Surr: Phenol-d6</i>	64.7			20-120	%REC	1	24-Aug-2020 18:27

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision: 1

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW70C-20200818
 Collection Date: 18-Aug-2020 13:00

ANALYTICAL REPORT
 WorkOrder:HS20080775
 Lab ID:HS20080775-06
 Matrix:Water

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 21-Aug-2020		Analyst: GEY	
1,2-Diphenylhydrazine	< 0.000021		0.000021	0.00020	mg/L	1	25-Aug-2020 14:56
2,4-Dimethylphenol	0.00013	J	0.000040	0.00020	mg/L	1	25-Aug-2020 14:56
2,4-Dinitrotoluene	< 0.000058		0.000058	0.00020	mg/L	1	25-Aug-2020 14:56
2,6-Dinitrotoluene	< 0.000042		0.000042	0.00020	mg/L	1	25-Aug-2020 14:56
2-Chloronaphthalene	< 0.000021		0.000021	0.00020	mg/L	1	25-Aug-2020 14:56
2-Methylnaphthalene	< 0.000019		0.000019	0.00010	mg/L	1	25-Aug-2020 14:56
4,6-Dinitro-2-methylphenol	< 0.000020		0.000020	0.00020	mg/L	1	25-Aug-2020 14:56
4-Nitrophenol	< 0.000047		0.000047	0.0010	mg/L	1	25-Aug-2020 14:56
Acenaphthene	0.00023		0.000027	0.00010	mg/L	1	25-Aug-2020 14:56
Acenaphthylene	< 0.000015		0.000015	0.00010	mg/L	1	25-Aug-2020 14:56
Anthracene	0.000049	J	0.000014	0.00010	mg/L	1	25-Aug-2020 14:56
Benz(a)anthracene	< 0.000050		0.000050	0.00010	mg/L	1	25-Aug-2020 14:56
Benzo(a)pyrene	< 0.000020		0.000020	0.00010	mg/L	1	25-Aug-2020 14:56
Bis(2-chloroethoxy)methane	< 0.000030		0.000030	0.00020	mg/L	1	25-Aug-2020 14:56
Bis(2-ethylhexyl)phthalate	0.000092	J	0.000037	0.00020	mg/L	1	25-Aug-2020 14:56
Chrysene	< 0.000021		0.000021	0.00010	mg/L	1	25-Aug-2020 14:56
Dibenzofuran	0.000087	J	0.000020	0.00010	mg/L	1	25-Aug-2020 14:56
Di-n-butyl phthalate	0.000060	J	0.000020	0.00020	mg/L	1	25-Aug-2020 14:56
Fluoranthene	0.000053	J	0.000010	0.00010	mg/L	1	25-Aug-2020 14:56
Fluorene	0.00013		0.000030	0.00010	mg/L	1	25-Aug-2020 14:56
Naphthalene	0.000023	J	0.000020	0.00010	mg/L	1	25-Aug-2020 14:56
Nitrobenzene	< 0.000024		0.000024	0.00020	mg/L	1	25-Aug-2020 14:56
N-Nitrosodiphenylamine	< 0.000025		0.000025	0.00020	mg/L	1	25-Aug-2020 14:56
Pentachlorophenol	< 0.000079		0.000079	0.00020	mg/L	1	25-Aug-2020 14:56
Phenanthrene	0.00012		0.000021	0.00010	mg/L	1	25-Aug-2020 14:56
Phenol	< 0.000035		0.000035	0.00020	mg/L	1	25-Aug-2020 14:56
Pyrene	0.000032	J	0.000019	0.00010	mg/L	1	25-Aug-2020 14:56
<i>Surr: 2,4,6-Tribromophenol</i>	<i>88.0</i>			<i>34-129</i>	<i>%REC</i>	<i>1</i>	<i>25-Aug-2020 14:56</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>58.5</i>			<i>40-125</i>	<i>%REC</i>	<i>1</i>	<i>25-Aug-2020 14:56</i>
<i>Surr: 2-Fluorophenol</i>	<i>61.4</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>25-Aug-2020 14:56</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>91.9</i>			<i>40-135</i>	<i>%REC</i>	<i>1</i>	<i>25-Aug-2020 14:56</i>
<i>Surr: Nitrobenzene-d5</i>	<i>59.1</i>			<i>41-120</i>	<i>%REC</i>	<i>1</i>	<i>25-Aug-2020 14:56</i>
<i>Surr: Phenol-d6</i>	<i>59.6</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>25-Aug-2020 14:56</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision: 1

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW27C-20200818
 Collection Date: 18-Aug-2020 14:00

ANALYTICAL REPORT
 WorkOrder:HS20080775
 Lab ID:HS20080775-07
 Matrix:Water

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		Method:SW8260		Analyst: AKP			
1,2-Dichloroethane	< 0.00020		0.00020	0.0010	mg/L	1	21-Aug-2020 19:24
Benzene	< 0.00020		0.00020	0.0010	mg/L	1	21-Aug-2020 19:24
Chlorobenzene	< 0.00030		0.00030	0.0010	mg/L	1	21-Aug-2020 19:24
Ethylbenzene	< 0.00030		0.00030	0.0010	mg/L	1	21-Aug-2020 19:24
Methylene chloride	< 0.0010		0.0010	0.0020	mg/L	1	21-Aug-2020 19:24
Toluene	< 0.00020		0.00020	0.0010	mg/L	1	21-Aug-2020 19:24
Xylenes, Total	< 0.00030		0.00030	0.0010	mg/L	1	21-Aug-2020 19:24
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>105</i>			<i>70-126</i>	<i>%REC</i>	<i>1</i>	<i>21-Aug-2020 19:24</i>
<i>Surr: 4-Bromofluorobenzene</i>	<i>95.8</i>			<i>81-113</i>	<i>%REC</i>	<i>1</i>	<i>21-Aug-2020 19:24</i>
<i>Surr: Dibromofluoromethane</i>	<i>105</i>			<i>77-123</i>	<i>%REC</i>	<i>1</i>	<i>21-Aug-2020 19:24</i>
<i>Surr: Toluene-d8</i>	<i>98.4</i>			<i>82-127</i>	<i>%REC</i>	<i>1</i>	<i>21-Aug-2020 19:24</i>

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-MW27C-20200818
 Collection Date: 18-Aug-2020 14:00

ANALYTICAL REPORT
 WorkOrder:HS20080775
 Lab ID:HS20080775-07
 Matrix:Water

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 21-Aug-2020		Analyst: GEY	
1,2-Diphenylhydrazine	< 0.000021		0.000021	0.00020	mg/L	1	24-Aug-2020 19:05
2,4-Dimethylphenol	< 0.000040		0.000040	0.00020	mg/L	1	24-Aug-2020 19:05
2,4-Dinitrotoluene	< 0.000059		0.000059	0.00020	mg/L	1	24-Aug-2020 19:05
2,6-Dinitrotoluene	< 0.000042		0.000042	0.00020	mg/L	1	24-Aug-2020 19:05
2-Chloronaphthalene	< 0.000021		0.000021	0.00020	mg/L	1	24-Aug-2020 19:05
2-Methylnaphthalene	0.000019	J	0.000019	0.00010	mg/L	1	24-Aug-2020 19:05
4,6-Dinitro-2-methylphenol	< 0.000020		0.000020	0.00020	mg/L	1	24-Aug-2020 19:05
4-Nitrophenol	< 0.000047		0.000047	0.0010	mg/L	1	24-Aug-2020 19:05
Acenaphthene	< 0.000027		0.000027	0.00010	mg/L	1	24-Aug-2020 19:05
Acenaphthylene	< 0.000015		0.000015	0.00010	mg/L	1	24-Aug-2020 19:05
Anthracene	< 0.000014		0.000014	0.00010	mg/L	1	24-Aug-2020 19:05
Benz(a)anthracene	< 0.000051		0.000051	0.00010	mg/L	1	24-Aug-2020 19:05
Benzo(a)pyrene	0.000067	J	0.000020	0.00010	mg/L	1	24-Aug-2020 19:05
Bis(2-chloroethoxy)methane	< 0.000030		0.000030	0.00020	mg/L	1	24-Aug-2020 19:05
Bis(2-ethylhexyl)phthalate	0.00012	J	0.000037	0.00020	mg/L	1	24-Aug-2020 19:05
Chrysene	0.000040	J	0.000021	0.00010	mg/L	1	24-Aug-2020 19:05
Dibenzofuran	< 0.000020		0.000020	0.00010	mg/L	1	24-Aug-2020 19:05
Di-n-butyl phthalate	0.000028	J	0.000020	0.00020	mg/L	1	24-Aug-2020 19:05
Fluoranthene	0.000043	J	0.000010	0.00010	mg/L	1	24-Aug-2020 19:05
Fluorene	< 0.000030		0.000030	0.00010	mg/L	1	24-Aug-2020 19:05
Naphthalene	< 0.000020		0.000020	0.00010	mg/L	1	24-Aug-2020 19:05
Nitrobenzene	< 0.000024		0.000024	0.00020	mg/L	1	24-Aug-2020 19:05
N-Nitrosodiphenylamine	< 0.000025		0.000025	0.00020	mg/L	1	24-Aug-2020 19:05
Pentachlorophenol	< 0.000080		0.000080	0.00020	mg/L	1	24-Aug-2020 19:05
Phenanthrene	0.000025	J	0.000021	0.00010	mg/L	1	24-Aug-2020 19:05
Phenol	< 0.000035		0.000035	0.00020	mg/L	1	24-Aug-2020 19:05
Pyrene	0.000042	J	0.000019	0.00010	mg/L	1	24-Aug-2020 19:05
Surr: 2,4,6-Tribromophenol	94.0			34-129	%REC	1	24-Aug-2020 19:05
Surr: 2-Fluorobiphenyl	83.3			40-125	%REC	1	24-Aug-2020 19:05
Surr: 2-Fluorophenol	76.5			20-120	%REC	1	24-Aug-2020 19:05
Surr: 4-Terphenyl-d14	93.2			40-135	%REC	1	24-Aug-2020 19:05
Surr: Nitrobenzene-d5	74.6			41-120	%REC	1	24-Aug-2020 19:05
Surr: Phenol-d6	73.1			20-120	%REC	1	24-Aug-2020 19:05
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 21-Aug-2020		Analyst: JHD	
Arsenic	0.00264		0.000400	0.00200	mg/L	1	21-Aug-2020 21:42

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision: 1

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-DUP09-20200818
 Collection Date: 18-Aug-2020 00:00

ANALYTICAL REPORT
 WorkOrder:HS20080775
 Lab ID:HS20080775-08
 Matrix:Water

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 21-Aug-2020		Analyst: GEY	
1,2-Diphenylhydrazine	< 0.000022		0.000022	0.00021	mg/L	1	24-Aug-2020 19:24
2,4-Dimethylphenol	< 0.000041		0.000041	0.00021	mg/L	1	24-Aug-2020 19:24
2,4-Dinitrotoluene	< 0.000060		0.000060	0.00021	mg/L	1	24-Aug-2020 19:24
2,6-Dinitrotoluene	< 0.000043		0.000043	0.00021	mg/L	1	24-Aug-2020 19:24
2-Chloronaphthalene	< 0.000022		0.000022	0.00021	mg/L	1	24-Aug-2020 19:24
2-Methylnaphthalene	< 0.000020		0.000020	0.00010	mg/L	1	24-Aug-2020 19:24
4,6-Dinitro-2-methylphenol	< 0.000021		0.000021	0.00021	mg/L	1	24-Aug-2020 19:24
4-Nitrophenol	< 0.000048		0.000048	0.0010	mg/L	1	24-Aug-2020 19:24
Acenaphthene	< 0.000028		0.000028	0.00010	mg/L	1	24-Aug-2020 19:24
Acenaphthylene	< 0.000015		0.000015	0.00010	mg/L	1	24-Aug-2020 19:24
Anthracene	< 0.000014		0.000014	0.00010	mg/L	1	24-Aug-2020 19:24
Benz(a)anthracene	0.00014		0.000052	0.00010	mg/L	1	24-Aug-2020 19:24
Benzo(a)pyrene	< 0.000021		0.000021	0.00010	mg/L	1	24-Aug-2020 19:24
Bis(2-chloroethoxy)methane	< 0.000031		0.000031	0.00021	mg/L	1	24-Aug-2020 19:24
Bis(2-ethylhexyl)phthalate	< 0.000038		0.000038	0.00021	mg/L	1	24-Aug-2020 19:24
Chrysene	0.000098	J	0.000022	0.00010	mg/L	1	24-Aug-2020 19:24
Dibenzofuran	< 0.000021		0.000021	0.00010	mg/L	1	24-Aug-2020 19:24
Di-n-butyl phthalate	< 0.000021		0.000021	0.00021	mg/L	1	24-Aug-2020 19:24
Fluoranthene	0.00097		0.000010	0.00010	mg/L	1	24-Aug-2020 19:24
Fluorene	< 0.000031		0.000031	0.00010	mg/L	1	24-Aug-2020 19:24
Naphthalene	0.000027	J	0.000021	0.00010	mg/L	1	24-Aug-2020 19:24
Nitrobenzene	< 0.000025		0.000025	0.00021	mg/L	1	24-Aug-2020 19:24
N-Nitrosodiphenylamine	< 0.000026		0.000026	0.00021	mg/L	1	24-Aug-2020 19:24
Pentachlorophenol	< 0.000081		0.000081	0.00021	mg/L	1	24-Aug-2020 19:24
Phenanthrene	< 0.000022		0.000022	0.00010	mg/L	1	24-Aug-2020 19:24
Phenol	< 0.000036		0.000036	0.00021	mg/L	1	24-Aug-2020 19:24
Pyrene	0.0015		0.000020	0.00010	mg/L	1	24-Aug-2020 19:24
<i>Surr: 2,4,6-Tribromophenol</i>	<i>84.1</i>			<i>34-129</i>	<i>%REC</i>	<i>1</i>	<i>24-Aug-2020 19:24</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>82.3</i>			<i>40-125</i>	<i>%REC</i>	<i>1</i>	<i>24-Aug-2020 19:24</i>
<i>Surr: 2-Fluorophenol</i>	<i>69.3</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>24-Aug-2020 19:24</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>92.6</i>			<i>40-135</i>	<i>%REC</i>	<i>1</i>	<i>24-Aug-2020 19:24</i>
<i>Surr: Nitrobenzene-d5</i>	<i>75.1</i>			<i>41-120</i>	<i>%REC</i>	<i>1</i>	<i>24-Aug-2020 19:24</i>
<i>Surr: Phenol-d6</i>	<i>69.9</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>24-Aug-2020 19:24</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision: 1

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: WG-1620-FB13-20200818
 Collection Date: 18-Aug-2020 14:30

ANALYTICAL REPORT

WorkOrder:HS20080775
 Lab ID:HS20080775-09
 Matrix:Water

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D		Method:SW8270		Prep:SW3510 / 21-Aug-2020		Analyst: GEY	
1,2-Diphenylhydrazine	< 0.000021		0.000021	0.00020	mg/L	1	24-Aug-2020 19:43
2,4-Dimethylphenol	< 0.000040		0.000040	0.00020	mg/L	1	24-Aug-2020 19:43
2,4-Dinitrotoluene	< 0.000059		0.000059	0.00020	mg/L	1	24-Aug-2020 19:43
2,6-Dinitrotoluene	< 0.000042		0.000042	0.00020	mg/L	1	24-Aug-2020 19:43
2-Chloronaphthalene	< 0.000021		0.000021	0.00020	mg/L	1	24-Aug-2020 19:43
2-Methylnaphthalene	< 0.000019		0.000019	0.00010	mg/L	1	24-Aug-2020 19:43
4,6-Dinitro-2-methylphenol	< 0.000020		0.000020	0.00020	mg/L	1	24-Aug-2020 19:43
4-Nitrophenol	< 0.000047		0.000047	0.0010	mg/L	1	24-Aug-2020 19:43
Acenaphthene	< 0.000027		0.000027	0.00010	mg/L	1	24-Aug-2020 19:43
Acenaphthylene	< 0.000015		0.000015	0.00010	mg/L	1	24-Aug-2020 19:43
Anthracene	< 0.000014		0.000014	0.00010	mg/L	1	24-Aug-2020 19:43
Benz(a)anthracene	< 0.000051		0.000051	0.00010	mg/L	1	24-Aug-2020 19:43
Benzo(a)pyrene	< 0.000020		0.000020	0.00010	mg/L	1	24-Aug-2020 19:43
Bis(2-chloroethoxy)methane	< 0.000030		0.000030	0.00020	mg/L	1	24-Aug-2020 19:43
Bis(2-ethylhexyl)phthalate	0.000038	J	0.000037	0.00020	mg/L	1	24-Aug-2020 19:43
Chrysene	< 0.000021		0.000021	0.00010	mg/L	1	24-Aug-2020 19:43
Dibenzofuran	< 0.000020		0.000020	0.00010	mg/L	1	24-Aug-2020 19:43
Di-n-butyl phthalate	< 0.000020		0.000020	0.00020	mg/L	1	24-Aug-2020 19:43
Fluoranthene	< 0.000010		0.000010	0.00010	mg/L	1	24-Aug-2020 19:43
Fluorene	< 0.000030		0.000030	0.00010	mg/L	1	24-Aug-2020 19:43
Naphthalene	0.000022	J	0.000020	0.00010	mg/L	1	24-Aug-2020 19:43
Nitrobenzene	< 0.000024		0.000024	0.00020	mg/L	1	24-Aug-2020 19:43
N-Nitrosodiphenylamine	< 0.000025		0.000025	0.00020	mg/L	1	24-Aug-2020 19:43
Pentachlorophenol	< 0.000080		0.000080	0.00020	mg/L	1	24-Aug-2020 19:43
Phenanthrene	< 0.000021		0.000021	0.00010	mg/L	1	24-Aug-2020 19:43
Phenol	< 0.000035		0.000035	0.00020	mg/L	1	24-Aug-2020 19:43
Pyrene	< 0.000019		0.000019	0.00010	mg/L	1	24-Aug-2020 19:43
<i>Surr: 2,4,6-Tribromophenol</i>	<i>89.4</i>			<i>34-129</i>	<i>%REC</i>	<i>1</i>	<i>24-Aug-2020 19:43</i>
<i>Surr: 2-Fluorobiphenyl</i>	<i>94.4</i>			<i>40-125</i>	<i>%REC</i>	<i>1</i>	<i>24-Aug-2020 19:43</i>
<i>Surr: 2-Fluorophenol</i>	<i>84.9</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>24-Aug-2020 19:43</i>
<i>Surr: 4-Terphenyl-d14</i>	<i>95.4</i>			<i>40-135</i>	<i>%REC</i>	<i>1</i>	<i>24-Aug-2020 19:43</i>
<i>Surr: Nitrobenzene-d5</i>	<i>83.0</i>			<i>41-120</i>	<i>%REC</i>	<i>1</i>	<i>24-Aug-2020 19:43</i>
<i>Surr: Phenol-d6</i>	<i>81.7</i>			<i>20-120</i>	<i>%REC</i>	<i>1</i>	<i>24-Aug-2020 19:43</i>

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Revision: 1

Weight / Prep Log

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20080775

Batch ID: 156596 **Start Date:** 21 Aug 2020 08:02 **End Date:** 21 Aug 2020 14:00
Method: SV AQ SEP FUN EXTRACT-LOWLEV - 3510C **Prep Code:** 3510_B_LOW

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS20080775-02	1	960 (mL)	1 (mL)	0.001042
HS20080775-03	1	990 (mL)	1 (mL)	0.00101
HS20080775-04	1	980 (mL)	1 (mL)	0.00102
HS20080775-05	1	1000 (mL)	1 (mL)	0.001
HS20080775-06	1	1000 (mL)	1 (mL)	0.001
HS20080775-07	1	990 (mL)	1 (mL)	0.00101
HS20080775-08	1	970 (mL)	1 (mL)	0.001031
HS20080775-09	1	990 (mL)	1 (mL)	0.00101

Batch ID: 156597 **Start Date:** 21 Aug 2020 08:00 **End Date:** 21 Aug 2020 12:00
Method: WATER - SW3010A **Prep Code:** 3010A

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS20080775-07		10 (mL)	10 (mL)	1

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20080775

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 156596 (0)		Test Name : LOW-LEVEL SEMIVOLATILES BY 8270D			Matrix: Water	
HS20080775-02	WG-1620-MW36A-20200818	18 Aug 2020 09:20		21 Aug 2020 08:02	24 Aug 2020 17:11	1
HS20080775-03	WG-1620-MW44C-20200818	18 Aug 2020 10:10		21 Aug 2020 08:02	24 Aug 2020 17:49	1
HS20080775-04	WG-1620-MW34CR-20200818	18 Aug 2020 11:05		21 Aug 2020 08:02	24 Aug 2020 18:08	1
HS20080775-05	WG-1620-MW33A-20200818	18 Aug 2020 12:05		21 Aug 2020 08:02	24 Aug 2020 18:27	1
HS20080775-06	WG-1620-MW70C-20200818	18 Aug 2020 13:00		21 Aug 2020 08:02	25 Aug 2020 14:56	1
HS20080775-07	WG-1620-MW27C-20200818	18 Aug 2020 14:00		21 Aug 2020 08:02	24 Aug 2020 19:05	1
HS20080775-08	WG-1620-DUP09-20200818	18 Aug 2020 00:00		21 Aug 2020 08:02	24 Aug 2020 19:24	1
HS20080775-09	WG-1620-FB13-20200818	18 Aug 2020 14:30		21 Aug 2020 08:02	24 Aug 2020 19:43	1
Batch ID: 156597 (0)		Test Name : ICP-MS METALS BY SW6020A			Matrix: Water	
HS20080775-07	WG-1620-MW27C-20200818	18 Aug 2020 14:00		21 Aug 2020 12:00	21 Aug 2020 21:42	1
Batch ID: R367242 (0)		Test Name : LOW LEVEL VOLATILES BY SW8260C			Matrix: Water	
HS20080775-01	WQ-1620-TB09-20200818	18 Aug 2020 14:35			21 Aug 2020 19:05	1
Batch ID: R367307 (0)		Test Name : LOW LEVEL VOLATILES BY SW8260C			Matrix: Water	
HS20080775-07	WG-1620-MW27C-20200818	18 Aug 2020 14:00			21 Aug 2020 19:24	1

WorkOrder: HS20080775
InstrumentID: ICPMS04
Test Code: ICP_TW
Test Number: SW6020
Test Name: ICP-MS Metals by SW6020A

**METHOD DETECTION /
REPORTING LIMITS**

Matrix: Aqueous **Units:** mg/L

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	Arsenic	7440-38-2	0.00100	0.00110	0.000400	0.00200

WorkOrder: HS20080775
 InstrumentID: SV-7
 Test Code: 8270_LOW_W
 Test Number: SW8270
 Test Name: Low-Level Semivolatiles by 8270D

**METHOD DETECTION /
 REPORTING LIMITS**

Matrix: Aqueous

Units: mg/L

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	1,2-Diphenylhydrazine	122-66-7	0.00010	0.000073	0.000021	0.00020
A	2,4-Dimethylphenol	105-67-9	0.00010	0.000085	0.000040	0.00020
A	2,4-Dinitrotoluene	121-14-2	0.00010	0.000088	0.000058	0.00020
A	2,6-Dinitrotoluene	606-20-2	0.00010	0.000082	0.000042	0.00020
A	2-Chloronaphthalene	91-58-7	0.00010	0.000084	0.000021	0.00020
A	2-Methylnaphthalene	91-57-6	0.000050	0.000040	0.000019	0.00010
A	4,6-Dinitro-2-methylphenol	534-52-1	0.00010	0.000056	0.000020	0.00020
A	4-Nitrophenol	100-02-7	0.00010	0.000075	0.000047	0.0010
A	Acenaphthene	83-32-9	0.000050	0.000045	0.000027	0.00010
A	Acenaphthylene	208-96-8	0.000050	0.000039	0.000015	0.00010
A	Anthracene	120-12-7	0.000050	0.000040	0.000014	0.00010
A	Benz(a)anthracene	56-55-3	0.000050	0.000036	0.000050	0.00010
A	Benzo(a)pyrene	50-32-8	0.000050	0.000029	0.000020	0.00010
A	Bis(2-chloroethoxy)methane	111-91-1	0.00010	0.000085	0.000030	0.00020
A	Bis(2-ethylhexyl)phthalate	117-81-7	0.00010	0.000072	0.000037	0.00020
A	Chrysene	218-01-9	0.000050	0.000040	0.000021	0.00010
A	Dibenzofuran	132-64-9	0.000050	0.000045	0.000020	0.00010
A	Di-n-butyl phthalate	84-74-2	0.00010	0.000073	0.000020	0.00020
A	Fluoranthene	206-44-0	0.000050	0.000033	0.000010	0.00010
A	Fluorene	86-73-7	0.000050	0.000045	0.000030	0.00010
A	Naphthalene	91-20-3	0.000050	0.000066	0.000020	0.00010
A	Nitrobenzene	98-95-3	0.00010	0.000098	0.000024	0.00020
A	N-Nitrosodiphenylamine	86-30-6	0.00010	0.000079	0.000025	0.00020
A	Pentachlorophenol	87-86-5	0.00010	0.000060	0.000079	0.00020
A	Phenanthrene	85-01-8	0.000050	0.000042	0.000021	0.00010
A	Phenol	108-95-2	0.00010	0.000090	0.000035	0.00020
A	Pyrene	129-00-0	0.000050	0.000044	0.000019	0.00010
S	2,4,6-Tribromophenol	118-79-6	0	0	0	0.00020
S	2-Fluorobiphenyl	321-60-8	0	0	0	0.00020
S	2-Fluorophenol	367-12-4	0	0	0	0.00020
S	4-Terphenyl-d14	1718-51-0	0	0	0	0.00020
S	Nitrobenzene-d5	4165-60-0	0	0	0	0.00020
S	Phenol-d6	13127-88-3	0	0	0	0.00020

WorkOrder: HS20080775
 InstrumentID: VOA2
 Test Code: 8260_LL_W
 Test Number: SW8260
 Test Name: Low Level Volatiles by SW8260C

**METHOD DETECTION /
 REPORTING LIMITS**

Matrix: Aqueous

Units: mg/L

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	1,2-Dichloroethane	107-06-2	0.00050	0.00063	0.00020	0.0010
A	Benzene	71-43-2	0.00050	0.00052	0.00020	0.0010
A	Chlorobenzene	108-90-7	0.0010	0.0011	0.00030	0.0010
A	Ethylbenzene	100-41-4	0.0010	0.0011	0.00030	0.0010
A	Methylene chloride	75-09-2	0.0020	0.00081	0.0010	0.0020
A	Toluene	108-88-3	0.00050	0.00056	0.00020	0.0010
A	Xylenes, Total	1330-20-7	0.0010	0.0032	0.00030	0.0010
S	1,2-Dichloroethane-d4	17060-07-0	0	0	0	0.0010
S	4-Bromofluorobenzene	460-00-4	0	0	0	0.0010
S	Dibromofluoromethane	1868-53-7	0	0	0	0.0010
S	Toluene-d8	2037-26-5	0	0	0	0.0010

WorkOrder: HS20080775
 InstrumentID: VOA4
 Test Code: 8260_LL_W
 Test Number: SW8260
 Test Name: Low Level Volatiles by SW8260C

**METHOD DETECTION /
 REPORTING LIMITS**

Matrix: Aqueous

Units: mg/L

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	1,2-Dichloroethane	107-06-2	0.00050	0.00056	0.00020	0.0010
A	Benzene	71-43-2	0.00050	0.00052	0.00020	0.0010
A	Chlorobenzene	108-90-7	0.0010	0.00097	0.00030	0.0010
A	Ethylbenzene	100-41-4	0.0010	0.00070	0.00030	0.0010
A	Methylene chloride	75-09-2	0.0020	0.00062	0.0010	0.0020
A	Toluene	108-88-3	0.00050	0.00060	0.00020	0.0010
A	Xylenes, Total	1330-20-7	0.0010	0.0024	0.00030	0.0010
S	1,2-Dichloroethane-d4	17060-07-0	0	0	0	0.0010
S	4-Bromofluorobenzene	460-00-4	0	0	0	0.0010
S	Dibromofluoromethane	1868-53-7	0	0	0	0.0010
S	Toluene-d8	2037-26-5	0	0	0	0.0010

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20080775

QC BATCH REPORT

Batch ID: 156597 (0)		Instrument: ICPMS04		Method: ICP-MS METALS BY SW6020A						
MBLK	Sample ID: MBLK-156597	Units: mg/L		Analysis Date: 21-Aug-2020 21:38						
Client ID:		Run ID: ICPMS04_367198	SeqNo: 5710721	PrepDate: 21-Aug-2020	DF: 1					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Arsenic	< 0.000400	0.00200								
LCS	Sample ID: LCS-156597	Units: mg/L		Analysis Date: 21-Aug-2020 21:40						
Client ID:		Run ID: ICPMS04_367198	SeqNo: 5710722	PrepDate: 21-Aug-2020	DF: 1					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Arsenic	0.04745	0.00200	0.05	0	94.9	80 - 120				
MS	Sample ID: HS20080775-07MS	Units: mg/L		Analysis Date: 21-Aug-2020 21:47						
Client ID: WG-1620-MW27C-20200818		Run ID: ICPMS04_367198	SeqNo: 5710725	PrepDate: 21-Aug-2020	DF: 1					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Arsenic	0.0509	0.00200	0.05	0.00264	96.5	80 - 120				
MSD	Sample ID: HS20080775-07MSD	Units: mg/L		Analysis Date: 21-Aug-2020 21:49						
Client ID: WG-1620-MW27C-20200818		Run ID: ICPMS04_367198	SeqNo: 5710726	PrepDate: 21-Aug-2020	DF: 1					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Arsenic	0.05314	0.00200	0.05	0.00264	101	80 - 120	0.0509	4.29	20	
PDS	Sample ID: HS20080775-07PDS	Units: mg/L		Analysis Date: 21-Aug-2020 21:51						
Client ID: WG-1620-MW27C-20200818		Run ID: ICPMS04_367198	SeqNo: 5710727	PrepDate: 21-Aug-2020	DF: 1					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
Arsenic	0.1054	0.00200	0.1	0.00264	103	75 - 125				
SD	Sample ID: HS20080775-07SD	Units: mg/L		Analysis Date: 21-Aug-2020 21:45						
Client ID: WG-1620-MW27C-20200818		Run ID: ICPMS04_367198	SeqNo: 5710724	PrepDate: 21-Aug-2020	DF: 5					
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	RPD Limit	Qual
Arsenic	0.002624	0.0100					0.00264	0	10	J

The following samples were analyzed in this batch: HS20080775-07

Revision: 1

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20080775

QC BATCH REPORT

Batch ID: 156596 (0)		Instrument: SV-7		Method: LOW-LEVEL SEMIVOLATILES BY 8270D						
MBLK	Sample ID: MBLK-156596	Units: ug/L			Analysis Date: 24-Aug-2020 11:10					
Client ID:	Run ID: SV-7_367312	SeqNo: 5714492	PrepDate: 21-Aug-2020	DF: 1						
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Diphenylhydrazine	< 0.021	0.20								
2,4-Dimethylphenol	< 0.040	0.20								
2,4-Dinitrotoluene	< 0.058	0.20								
2,6-Dinitrotoluene	< 0.042	0.20								
2-Chloronaphthalene	< 0.021	0.20								
2-Methylnaphthalene	< 0.019	0.10								
4,6-Dinitro-2-methylphenol	< 0.020	0.20								
4-Nitrophenol	< 0.047	1.0								
Acenaphthene	< 0.027	0.10								
Acenaphthylene	< 0.015	0.10								
Anthracene	< 0.014	0.10								
Benz(a)anthracene	< 0.050	0.10								
Benzo(a)pyrene	< 0.020	0.10								
Bis(2-chloroethoxy)methane	< 0.030	0.20								
Bis(2-ethylhexyl)phthalate	< 0.037	0.20								
Chrysene	< 0.021	0.10								
Dibenzofuran	< 0.020	0.10								
Di-n-butyl phthalate	< 0.020	0.20								
Fluoranthene	< 0.010	0.10								
Fluorene	< 0.030	0.10								
Naphthalene	< 0.020	0.10								
Nitrobenzene	< 0.024	0.20								
N-Nitrosodiphenylamine	< 0.025	0.20								
Pentachlorophenol	< 0.079	0.20								
Phenanthrene	< 0.021	0.10								
Phenol	< 0.035	0.20								
Pyrene	< 0.019	0.10								
<i>Surr: 2,4,6-Tribromophenol</i>	5.051	0.20	5	0	101	34 - 129				
<i>Surr: 2-Fluorobiphenyl</i>	4.574	0.20	5	0	91.5	40 - 125				
<i>Surr: 2-Fluorophenol</i>	4.478	0.20	5	0	89.6	20 - 120				
<i>Surr: 4-Terphenyl-d14</i>	4.923	0.20	5	0	98.5	40 - 135				
<i>Surr: Nitrobenzene-d5</i>	4.39	0.20	5	0	87.8	41 - 120				
<i>Surr: Phenol-d6</i>	4.483	0.20	5	0	89.7	20 - 120				

Revision: 1

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20080775

QC BATCH REPORT

Batch ID: 156596 (0)		Instrument: SV-7		Method: LOW-LEVEL SEMIVOLATILES BY 8270D						
LCS	Sample ID: LCS-156596	Units: ug/L			Analysis Date: 25-Aug-2020 12:02					
Client ID:	Run ID: SV-7_367420	SeqNo: 5714523		PrepDate: 21-Aug-2020		DF: 1				
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
1,2-Diphenylhydrazine	4.88	0.20	5	0	97.6	39 - 127				
2,4-Dimethylphenol	4.929	0.20	5	0	98.6	35 - 120				
2,4-Dinitrotoluene	5.663	0.20	5	0	113	50 - 122				
2,6-Dinitrotoluene	5.643	0.20	5	0	113	50 - 120				
2-Chloronaphthalene	5.823	0.20	5	0	116	50 - 120				
2-Methylnaphthalene	5.123	0.10	5	0	102	50 - 120				
4,6-Dinitro-2-methylphenol	6.379	0.20	5	0	128	25 - 121			S	
4-Nitrophenol	6.335	1.0	5	0	127	30 - 130				
Acenaphthene	5.176	0.10	5	0	104	45 - 120				
Acenaphthylene	5.264	0.10	5	0	105	47 - 120				
Anthracene	5.331	0.10	5	0	107	45 - 120				
Benz(a)anthracene	5.357	0.10	5	0	107	40 - 120				
Benzo(a)pyrene	5.639	0.10	5	0	113	45 - 120				
Bis(2-chloroethoxy)methane	5.162	0.20	5	0	103	45 - 120				
Bis(2-ethylhexyl)phthalate	5.089	0.20	5	0	102	40 - 139				
Chrysene	5.353	0.10	5	0	107	43 - 120				
Dibenzofuran	5.269	0.10	5	0	105	50 - 120				
Di-n-butyl phthalate	5.408	0.20	5	0	108	45 - 123				
Fluoranthene	5.574	0.10	5	0	111	45 - 125				
Fluorene	5.332	0.10	5	0	107	49 - 120				
Naphthalene	5.065	0.10	5	0	101	45 - 120				
Nitrobenzene	4.97	0.20	5	0	99.4	44 - 120				
N-Nitrosodiphenylamine	5.4	0.20	5	0	108	40 - 125				
Pentachlorophenol	4.999	0.20	5	0	100.0	19 - 121				
Phenanthrene	5.267	0.10	5	0	105	45 - 121				
Phenol	5.595	0.20	5	0	112	20 - 124				
Pyrene	5.279	0.10	5	0	106	40 - 130				
Surr: 2,4,6-Tribromophenol	5.803	0.20	5	0	116	34 - 129				
Surr: 2-Fluorobiphenyl	5.352	0.20	5	0	107	40 - 125				
Surr: 2-Fluorophenol	5.272	0.20	5	0	105	20 - 120				
Surr: 4-Terphenyl-d14	5.45	0.20	5	0	109	40 - 135				
Surr: Nitrobenzene-d5	5.066	0.20	5	0	101	41 - 120				
Surr: Phenol-d6	5.312	0.20	5	0	106	20 - 120				

Revision: 1

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20080775

QC BATCH REPORT

Batch ID: 156596 (0)		Instrument: SV-7		Method: LOW-LEVEL SEMIVOLATILES BY 8270D						
LCSD		Sample ID: LCSD-156596		Units: ug/L		Analysis Date: 25-Aug-2020 12:21				
Client ID:		Run ID: SV-7_367420		SeqNo: 5714524		PrepDate: 21-Aug-2020		DF: 1		
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual	
1,2-Diphenylhydrazine	5.11	0.20	5	0	102	39 - 127	4.88	4.6	20	
2,4-Dimethylphenol	5.02	0.20	5	0	100	35 - 120	4.929	1.82	20	
2,4-Dinitrotoluene	5.821	0.20	5	0	116	50 - 122	5.663	2.75	20	
2,6-Dinitrotoluene	5.797	0.20	5	0	116	50 - 120	5.643	2.7	20	
2-Chloronaphthalene	5.233	0.20	5	0	105	50 - 120	5.823	10.7	20	
2-Methylnaphthalene	5.322	0.10	5	0	106	50 - 120	5.123	3.82	20	
4,6-Dinitro-2-methylphenol	6.442	0.20	5	0	129	25 - 121	6.379	0.982	30 S	
4-Nitrophenol	6.493	1.0	5	0	130	30 - 130	6.335	2.46	20	
Acenaphthene	5.252	0.10	5	0	105	45 - 120	5.176	1.45	20	
Acenaphthylene	5.42	0.10	5	0	108	47 - 120	5.264	2.93	20	
Anthracene	5.492	0.10	5	0	110	45 - 120	5.331	2.98	20	
Benz(a)anthracene	5.648	0.10	5	0	113	40 - 120	5.357	5.29	20	
Benzo(a)pyrene	5.812	0.10	5	0	116	45 - 120	5.639	3.03	20	
Bis(2-chloroethoxy)methane	5.349	0.20	5	0	107	45 - 120	5.162	3.56	20	
Bis(2-ethylhexyl)phthalate	5.374	0.20	5	0	107	40 - 139	5.089	5.46	20	
Chrysene	5.644	0.10	5	0	113	43 - 120	5.353	5.29	20	
Dibenzofuran	5.384	0.10	5	0	108	50 - 120	5.269	2.16	20	
Di-n-butyl phthalate	5.677	0.20	5	0	114	45 - 123	5.408	4.84	20	
Fluoranthene	5.78	0.10	5	0	116	45 - 125	5.574	3.63	20	
Fluorene	5.484	0.10	5	0	110	49 - 120	5.332	2.81	20	
Naphthalene	5.282	0.10	5	0	106	45 - 120	5.065	4.21	20	
Nitrobenzene	5.17	0.20	5	0	103	44 - 120	4.97	3.95	20	
N-Nitrosodiphenylamine	5.495	0.20	5	0	110	40 - 125	5.4	1.74	20	
Pentachlorophenol	5.148	0.20	5	0	103	19 - 121	4.999	2.95	20	
Phenanthrene	5.456	0.10	5	0	109	45 - 121	5.267	3.53	20	
Phenol	5.668	0.20	5	0	113	20 - 124	5.595	1.3	20	
Pyrene	5.459	0.10	5	0	109	40 - 130	5.279	3.35	20	
Surr: 2,4,6-Tribromophenol	5.961	0.20	5	0	119	34 - 129	5.803	2.69	20	
Surr: 2-Fluorobiphenyl	5.475	0.20	5	0	109	40 - 125	5.352	2.26	20	
Surr: 2-Fluorophenol	5.387	0.20	5	0	108	20 - 120	5.272	2.17	20	
Surr: 4-Terphenyl-d14	5.617	0.20	5	0	112	40 - 135	5.45	3.02	20	
Surr: Nitrobenzene-d5	5.258	0.20	5	0	105	41 - 120	5.066	3.71	20	
Surr: Phenol-d6	5.39	0.20	5	0	108	20 - 120	5.312	1.46	20	

The following samples were analyzed in this batch: HS20080775-02 HS20080775-03 HS20080775-04 HS20080775-05
 HS20080775-06 HS20080775-07 HS20080775-08 HS20080775-09

Revision: 1

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20080775

QC BATCH REPORT

Batch ID: R367242 (0) **Instrument:** VOA2 **Method:** LOW LEVEL VOLATILES BY SW8260C

MBLK		Sample ID: VBLKW-200821		Units: ug/L		Analysis Date: 21-Aug-2020 15:28			
Client ID:		Run ID: VOA2_367242		SeqNo: 5710513		PrepDate:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
1,2-Dichloroethane	< 0.20	1.0							
Benzene	< 0.20	1.0							
Chlorobenzene	< 0.30	1.0							
Ethylbenzene	< 0.30	1.0							
Methylene chloride	< 1.0	2.0							
Toluene	< 0.20	1.0							
Xylenes, Total	< 0.30	1.0							
<i>Surr: 1,2-Dichloroethane-d4</i>	46.6	1.0	50	0	93.2	70 - 123			
<i>Surr: 4-Bromofluorobenzene</i>	48.46	1.0	50	0	96.9	82 - 115			
<i>Surr: Dibromofluoromethane</i>	48.65	1.0	50	0	97.3	73 - 126			
<i>Surr: Toluene-d8</i>	50.11	1.0	50	0	100	81 - 120			

LCS		Sample ID: VLCSW-200821		Units: ug/L		Analysis Date: 21-Aug-2020 14:38			
Client ID:		Run ID: VOA2_367242		SeqNo: 5710512		PrepDate:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
1,2-Dichloroethane	19.66	1.0	20	0	98.3	70 - 124			
Benzene	20.89	1.0	20	0	104	74 - 120			
Chlorobenzene	20.21	1.0	20	0	101	76 - 113			
Ethylbenzene	19.78	1.0	20	0	98.9	77 - 117			
Methylene chloride	18.49	2.0	20	0	92.5	70 - 127			
Toluene	20.3	1.0	20	0	101	77 - 118			
Xylenes, Total	61.83	1.0	60	0	103	75 - 122			
<i>Surr: 1,2-Dichloroethane-d4</i>	48.36	1.0	50	0	96.7	70 - 130			
<i>Surr: 4-Bromofluorobenzene</i>	48	1.0	50	0	96.0	82 - 115			
<i>Surr: Dibromofluoromethane</i>	48.65	1.0	50	0	97.3	73 - 126			
<i>Surr: Toluene-d8</i>	49.52	1.0	50	0	99.0	81 - 120			

Revision: 1

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20080775

QC BATCH REPORT

Batch ID: R367242 (0) **Instrument:** VOA2 **Method:** LOW LEVEL VOLATILES BY SW8260C

MS		Sample ID: HS20080631-71MS			Units: ug/L		Analysis Date: 21-Aug-2020 16:16			
Client ID:		Run ID: VOA2_367242			SeqNo: 5710515		PrepDate:		DF: 5000	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Dichloroethane	384700	5000	100000	302300	82.3	70 - 127				
Benzene	97660	5000	100000	0	97.7	70 - 127				
Chlorobenzene	91860	5000	100000	0	91.9	70 - 114				
Ethylbenzene	88950	5000	100000	0	88.9	70 - 124				
Methylene chloride	86140	10000	100000	0	86.1	70 - 128				
Toluene	92670	5000	100000	0	92.7	70 - 123				
Xylenes, Total	283600	5000	300000	0	94.5	70 - 130				
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>231400</i>	<i>5000</i>	<i>250000</i>	<i>0</i>	<i>92.6</i>	<i>70 - 126</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>239400</i>	<i>5000</i>	<i>250000</i>	<i>0</i>	<i>95.8</i>	<i>81 - 113</i>				
<i>Surr: Dibromofluoromethane</i>	<i>240400</i>	<i>5000</i>	<i>250000</i>	<i>0</i>	<i>96.1</i>	<i>77 - 123</i>				
<i>Surr: Toluene-d8</i>	<i>247300</i>	<i>5000</i>	<i>250000</i>	<i>0</i>	<i>98.9</i>	<i>82 - 127</i>				

MSD		Sample ID: HS20080631-71MSD			Units: ug/L		Analysis Date: 21-Aug-2020 16:40			
Client ID:		Run ID: VOA2_367242			SeqNo: 5710516		PrepDate:		DF: 5000	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Dichloroethane	382200	5000	100000	302300	79.9	70 - 127	384700	0.642	20	
Benzene	95570	5000	100000	0	95.6	70 - 127	97660	2.16	20	
Chlorobenzene	90590	5000	100000	0	90.6	70 - 114	91860	1.4	20	
Ethylbenzene	90560	5000	100000	0	90.6	70 - 124	88950	1.79	20	
Methylene chloride	85140	10000	100000	0	85.1	70 - 128	86140	1.17	20	
Toluene	92540	5000	100000	0	92.5	70 - 123	92670	0.136	20	
Xylenes, Total	278600	5000	300000	0	92.9	70 - 130	283600	1.78	20	
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>224600</i>	<i>5000</i>	<i>250000</i>	<i>0</i>	<i>89.9</i>	<i>70 - 126</i>	<i>231400</i>	<i>2.97</i>	<i>20</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>243000</i>	<i>5000</i>	<i>250000</i>	<i>0</i>	<i>97.2</i>	<i>81 - 113</i>	<i>239400</i>	<i>1.49</i>	<i>20</i>	
<i>Surr: Dibromofluoromethane</i>	<i>236800</i>	<i>5000</i>	<i>250000</i>	<i>0</i>	<i>94.7</i>	<i>77 - 123</i>	<i>240400</i>	<i>1.51</i>	<i>20</i>	
<i>Surr: Toluene-d8</i>	<i>244600</i>	<i>5000</i>	<i>250000</i>	<i>0</i>	<i>97.8</i>	<i>82 - 127</i>	<i>247300</i>	<i>1.1</i>	<i>20</i>	

The following samples were analyzed in this batch: HS20080775-01

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20080775

QC BATCH REPORT

Batch ID: R367307 (0) **Instrument:** VOA4 **Method:** LOW LEVEL VOLATILES BY SW8260C

MBLK		Sample ID: VBLKW-200819			Units: ug/L		Analysis Date: 21-Aug-2020 19:02			
Client ID:		Run ID: VOA4_367307			SeqNo: 5711911		PrepDate:		DF: 1	
Analyte	Result	MLQ	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Dichloroethane	< 0.20	1.0								
Benzene	< 0.20	1.0								
Chlorobenzene	< 0.30	1.0								
Ethylbenzene	< 0.30	1.0								
Methylene chloride	< 1.0	2.0								
Toluene	< 0.20	1.0								
Xylenes, Total	< 0.30	1.0								
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>50.8</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>102</i>	<i>70 - 123</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>48.71</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>97.4</i>	<i>82 - 115</i>				
<i>Surr: Dibromofluoromethane</i>	<i>49.83</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>99.7</i>	<i>73 - 126</i>				
<i>Surr: Toluene-d8</i>	<i>49.3</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>98.6</i>	<i>81 - 120</i>				

LCS		Sample ID: VLCSW-200819			Units: ug/L		Analysis Date: 21-Aug-2020 18:18			
Client ID:		Run ID: VOA4_367307			SeqNo: 5711910		PrepDate:		DF: 1	
Analyte	Result	MLQ	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Dichloroethane	20.23	1.0	20	0	101	70 - 124				
Benzene	19.47	1.0	20	0	97.4	74 - 120				
Chlorobenzene	20.33	1.0	20	0	102	76 - 113				
Ethylbenzene	21.1	1.0	20	0	106	77 - 117				
Methylene chloride	21.41	2.0	20	0	107	70 - 127				
Toluene	20.42	1.0	20	0	102	77 - 118				
Xylenes, Total	63.89	1.0	60	0	106	75 - 122				
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>48.51</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>97.0</i>	<i>70 - 130</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>50.13</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>100</i>	<i>82 - 115</i>				
<i>Surr: Dibromofluoromethane</i>	<i>49.55</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>99.1</i>	<i>73 - 126</i>				
<i>Surr: Toluene-d8</i>	<i>49.42</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>98.8</i>	<i>81 - 120</i>				

Revision: 1

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20080775

QC BATCH REPORT

Batch ID: R367307 (0) **Instrument:** VOA4 **Method:** LOW LEVEL VOLATILES BY SW8260C

MS		Sample ID: HS20080830-01MS			Units: ug/L		Analysis Date: 21-Aug-2020 20:08			
Client ID:		Run ID: VOA4_367307			SeqNo: 5711914		PrepDate:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Dichloroethane	19.6	1.0	20	0	98.0	70 - 127				
Benzene	18.2	1.0	20	0	91.0	70 - 127				
Chlorobenzene	17.31	1.0	20	0	86.6	70 - 114				
Ethylbenzene	19.87	1.0	20	0	99.3	70 - 124				
Methylene chloride	19.32	2.0	20	0	96.6	70 - 128				
Toluene	18.7	1.0	20	0	93.5	70 - 123				
Xylenes, Total	58.77	1.0	60	0	98.0	70 - 130				
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>50.45</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>101</i>	<i>70 - 126</i>				
<i>Surr: 4-Bromofluorobenzene</i>	<i>50.43</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>101</i>	<i>81 - 113</i>				
<i>Surr: Dibromofluoromethane</i>	<i>50.17</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>100</i>	<i>77 - 123</i>				
<i>Surr: Toluene-d8</i>	<i>49.44</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>98.9</i>	<i>82 - 127</i>				

MSD		Sample ID: HS20080830-01MSD			Units: ug/L		Analysis Date: 21-Aug-2020 20:30			
Client ID:		Run ID: VOA4_367307			SeqNo: 5711915		PrepDate:		DF: 1	
Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2-Dichloroethane	17.17	1.0	20	0	85.9	70 - 127	19.6	13.2	20	
Benzene	17.51	1.0	20	0	87.5	70 - 127	18.2	3.89	20	
Chlorobenzene	17.71	1.0	20	0	88.5	70 - 114	17.31	2.27	20	
Ethylbenzene	20.36	1.0	20	0	102	70 - 124	19.87	2.45	20	
Methylene chloride	18.98	2.0	20	0	94.9	70 - 128	19.32	1.76	20	
Toluene	18.45	1.0	20	0	92.2	70 - 123	18.7	1.35	20	
Xylenes, Total	56.59	1.0	60	0	94.3	70 - 130	58.77	3.78	20	
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>51.62</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>103</i>	<i>70 - 126</i>	<i>50.45</i>	<i>2.29</i>	<i>20</i>	
<i>Surr: 4-Bromofluorobenzene</i>	<i>49.82</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>99.6</i>	<i>81 - 113</i>	<i>50.43</i>	<i>1.2</i>	<i>20</i>	
<i>Surr: Dibromofluoromethane</i>	<i>52.73</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>105</i>	<i>77 - 123</i>	<i>50.17</i>	<i>4.96</i>	<i>20</i>	
<i>Surr: Toluene-d8</i>	<i>50.12</i>	<i>1.0</i>	<i>50</i>	<i>0</i>	<i>100</i>	<i>82 - 127</i>	<i>49.44</i>	<i>1.36</i>	<i>20</i>	

The following samples were analyzed in this batch: HS20080775-07

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20080775

**QUALIFIERS,
ACRONYMS, UNITS**

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
mg/L	Milligrams per Liter

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	20-030-0	26-Mar-2021
California	2919, 2020-2021	30-Apr-2021
Dept of Defense	PJLA L20-507	22-Dec-2021
Florida	E87611-30-07/01/2020	30-Jun-2021
Illinois	2000322020-4	09-May-2021
Kansas	E-10352 2020-2021	31-Jul-2021
Kentucky	123043, 2020-2021	30-Apr-2021
Louisiana	03087, 2020-2021	30-Jun-2021
Maryland	343, 2019-2020	30-Sep-2020
North Carolina	624-2020	31-Dec-2020
North Dakota	R-193 2020-2021	30-Apr-2021
Texas	T104704231-20-26	30-Apr-2021

Sample Receipt Checklist

Work Order ID: HS20080775

Date/Time Received: 18-Aug-2020 16:00

Client Name: PBW

Received by: Donald Gilmore

Completed By: /S/ Jared R. Makan 19-Aug-2020 09:10 eSignature Date/Time
Reviewed by: /S/ Dane J. Wacasey 21-Aug-2020 17:57 eSignature Date/Time

Matrices: Water

Carrier name: ALS Courier

- Shipping container/cooler in good condition? Yes [checked] No [] Not Present []
Custody seals intact on shipping container/cooler? Yes [checked] No [] Not Present []
Custody seals intact on sample bottles? Yes [] No [] Not Present [checked]
VOA/TX1005/TX1006 Solids in hermetically sealed vials? Yes [] No [] Not Present [checked]
Chain of custody present? Yes [checked] No []
Chain of custody signed when relinquished and received? Yes [checked] No []
Samplers name present on COC? Yes [checked] No []
Chain of custody agrees with sample labels? Yes [checked] No []
Samples in proper container/bottle? Yes [checked] No []
Sample containers intact? Yes [checked] No []
Sufficient sample volume for indicated test? Yes [checked] No []
All samples received within holding time? Yes [checked] No []
Container/Temp Blank temperature in compliance? Yes [checked] No []

1 Page(s)
COC IDs:226334

Temperature(s)/Thermometer(s): 1.6°C/1.6°C UC/C IR31
Cooler(s)/Kit(s): 43355
Date/Time sample(s) sent to storage: 08/19/2020 10:30
Water - VOA vials have zero headspace? Yes [checked] No [] No VOA vials submitted []
Water - pH acceptable upon receipt? Yes [checked] No [] N/A []
pH adjusted? Yes [] No [checked] N/A []
pH adjusted by:

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:



Cincinnati, OH
+1 513 733 5336

Fort Collins, CO
+1 970 490 1511

Everett, WA
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Holland, MI
+1 616 399 6070

Chain of Custody Form

Page ____ of ____

COC ID: 226334

HS20080775

Golder Associates Inc.
Houston TX-Wood Preserving Works



ALS Project Manager:

Customer Information		Project Information	
Purchase Order	UPRR/Kevin Peterburs	Project Name	Houston TX-Wood Preserving Works
Work Order		Project Number	1620-17-Rev0 SR 92688
Company Name	Golder Associates Inc.	Bill To Company	Union Pacific Railroad- A/P
Send Report To	Eric Matzner	Invoice Attn	Accounts Payable
Address	2201 Double Creek Drive	Address	1400 Douglas Street
	Suite 4004		Stop 0750
City/State/Zip	Round Rock, TX 78664	City/State/Zip	Omaha NE 681790750
Phone	(512) 671-3434	Phone	
Fax	(512) 671-3446	Fax	
e-Mail Address	Eric_Matzner@golder.com	e-Mail Address	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	W-TB-17-2020080818	8-18-20	14:35	Water	1.8	2	X	X	X								
2	W-TB-17-2020080818 W-G-1670 MW 31A 20200818	8-18-20	9:20	Water	1.8 0	2 2	X	(X)	X								
3	W-G-1670 MW 44C 20200818	8-18-20	10:10	W	0	2		X									
4	W-G-1670 MW 34 CR 20200818	8-18-20	11:05	W	0	2		X									
5	W-G-1670 MW 33A 20200818	8-18-20	12:05	W	0	2		X									
6	W-G-1670 MW 70C 20200818	8-18-20	13:00	W	0	2		X									
7	W-G-1670 MW 27C 20200818	8-18-20	14:00	W	1, 2, 3	6	X	X	X								
8	W-G-1670 DUP OR 20200818	8-18-20	-	W	0	2		X									
9	W-G-1670 FB 13 20200818	8-18-20	14:30	W	0	2		X									
10																	

Sampler(s) Please Print & Sign <i>Tim McSpadden</i>		Shipment Method		Required Turnaround Time: (Check Box)			Results Due Date:		
Relinquished by: <i>T. McSpadden</i>		Date: 8/18/20		Time: 13:45		<input checked="" type="checkbox"/> STD 10 Wk Days		<input type="checkbox"/> 5 Wk Days	
Relinquished by: <i>D. S.</i>		Date: 8/19/20		Time: 0730		<input type="checkbox"/> 2 Wk Days		<input type="checkbox"/> 24 Hour	
Logged by (Laboratory):		Date:		Time:		Checked by (Laboratory):		Notes: UPRR Houston MWPW	
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035		Cooler ID: 45355		Cooler Temp: 1.6°C		QC Package: (Check One Box Below)			
				1231		<input type="checkbox"/> Level II Std OC			
				CFO		<input checked="" type="checkbox"/> TRRP Checklist			
						<input type="checkbox"/> Level III Std: QC/Raw Data			
						<input type="checkbox"/> TRRP Level IV			
						<input type="checkbox"/> Level IV SW/43/CLP			
						<input type="checkbox"/> Other			

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
 2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
 3. The Chain of Custody is a legal document. All information must be completed accurately.

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 **ALS**
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5850
Fax. : 1 281 530 5887

CUSTODY SEAL		Seal Broken By:
18	TR: 19/15	JM
19	TR: 4/11	Date:
20	TR: 6/10	8/19/20



10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887

October 22, 2020

Eric Matzner
Golder Associates Inc.
2201 Double Creek Drive
Suite 4004
Round Rock, TX 78664

Work Order: **HS20100432**

Laboratory Results for: **Houston TX-Wood Preserving Works**

Dear Eric Matzner,

ALS Environmental received 3 sample(s) on Oct 08, 2020 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: DANE.WACASEY
Dane J. Wacasey

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20100432

**TRRP Laboratory Data
Package Cover Page**

This data package consists of all or some of the following as applicable:

This signature page, the laboratory review checklist, and the following reportable data:

- R1 Field chain-of-custody documentation;
- R2 Sample identification cross-reference;
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
 - a) Items consistent with NELAC Chapter 5,
 - b) dilution factors,
 - c) preparation methods,
 - d) cleanup methods, and
 - e) if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate recovery data including:
 - a) Calculated recovery (%R), and
 - b) The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
 - a) LCS spiking amounts,
 - b) Calculated %R for each analyte, and
 - c) The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a) Samples associated with the MS/MSD clearly identified,
 - b) MS/MSD spiking amounts,
 - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d) Calculated %Rs and relative percent differences (RPDs), and
 - e) The laboratory's MS/MSD QC limits.
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
 - a) the amount of analyte measured in the duplicate,
 - b) the calculated RPD, and
 - c) the laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) and detectability check sample results for each analyte for each method and matrix.
- R10 Other problems or anomalies.
The Exception Report for each "No" or "Not Reviewed (NR)" item in Laboratory Review Checklist and for each analyte, matrix, and method for which the laboratory does not hold NELAC accreditation under the Texas Laboratory Accreditation Program.

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20100432

**TRRP Laboratory Data
Package Cover Page**

Release Statement: I am responsible for the release of this laboratory data package. This laboratory is NELAC accredited under the Texas Laboratory Accreditation Program for all the methods, analytes and matrices reported in this data package except as noted in the Exception Reports. The data have been reviewed and are technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory have been identified by the laboratory in the Laboratory Review Checklist, and no information affecting the quality of the data has been knowingly withheld.

Check, if applicable: [NA] This laboratory meets an exception under 30 TAC §25.6 and was last inspected by TCEQ or _____ on (enter date of last inspection). Any findings affecting the data in this laboratory data package are noted in the Exception Reports herein. The official signing the cover page of the report in which these data are used is responsible for releasing this data package and is by signature affirming the above release statement is true.



Dane J. Wacasey

Laboratory Review Checklist: Reportable Data							
Laboratory Name: ALS Laboratory Group				LRC Date: 10/22/2020			
Project Name: Houston TX-Wood Preserving Works				Laboratory Job Number: HS20100432			
Reviewer Name: Dane Wacasey				Prep Batch Number(s): 158685			
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
R1	OI	Chain-of-custody (C-O-C)					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?	X				
R2	OI	Sample and quality control (QC) identification					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	Test reports					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?	X				
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW-846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	Surrogate recovery data					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	Test reports/summary forms for blank samples					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	Laboratory control samples (LCS):					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SDLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	OI	Matrix spike (MS) and matrix spike duplicate (MSD) data					
		Were the project/method specified analytes included in the MS and MSD?	X				
		Were MS/MSD analyzed at the appropriate frequency?	X				
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?	X				
		Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	Analytical duplicate data					
		Were appropriate analytical duplicates analyzed for each matrix?	X				
		Were analytical duplicates analyzed at the appropriate frequency?	X				
		Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	OI	Method quantitation limits (MQLs):					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?	X				
R10	OI	Other problems/anomalies					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		Were all necessary corrective actions performed for the reported data?	X				
		Was applicable and available technology used to lower the SDL and minimize the matrix interference affects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Program for the analytes, matrices and methods associated with this laboratory data package?	X				

Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

O = Organic Analyses; I = Inorganic Analyses (and general chemistry, when applicable);

NA = Not Applicable;

NR = Not Reviewed;

R# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Supporting Data							
Laboratory Name: ALS Laboratory Group				LRC Date: 10/22/2020			
Project Name: Houston TX-Wood Preserving Works				Laboratory Job Number: HS20100432			
Reviewer Name: Dane Wacasey				Prep Batch Number(s): 158685			
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S1	OI	Initial calibration (ICAL)					
		Were response factors and/or relative response factors for each analyte within QC limits?	X				
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB)					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	Mass spectral tuning:					
		Was the appropriate compound for the method used for tuning?	X				
		Were ion abundance data within the method-required QC limits?	X				
S4	O	Internal standards (IS):					
		Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	Raw data (NELAC section 1 appendix A glossary, and section 5.12 or ISO/IEC 17025 section					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?	X				
S6	O	Dual column confirmation					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	Tentatively identified compounds (TICs):					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	Interference Check Sample (ICS) results:					
		Were percent recoveries within method QC limits?	X				
S9	I	Serial dilutions, post digestion spikes, and method of standard additions					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	X				
S10	OI	Method detection limit (MDL) studies					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	Proficiency test reports:					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards documentation					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/analyte identification procedures					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of analyst competency (DOC)					
		Was DOC conducted consistent with NELAC Chapter 5C or ISO/IEC 4?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/validation documentation for methods (NELAC Chap 5 or ISO/IEC 17025 Section 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory standard operating procedures (SOPs):					
		Are laboratory SOPs current and on file for each method performed?	X				

Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

O = Organic Analyses; I = Inorganic Analyses (and general chemistry, when applicable);

NA = Not Applicable;

NR = Not Reviewed;

R# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Exception Data

Laboratory Name: ALS Laboratory Group	LRC Date: 10/22/2020
Project Name: Houston TX-Wood Preserving Works	Laboratory Job Number: HS20100432
Reviewer Name: Dane Wacasey	Prep Batch Number(s): 158685

ER#^s	Description
	No Exceptions

Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
O = Organic Analyses; I = Inorganic Analyses (and general chemistry, when applicable);
NA = Not Applicable;
NR = Not Reviewed;
R# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
Work Order: HS20100432

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS20100432-01	GW-1620-MW66D-20201008	Groundwater		08-Oct-2020 13:30	08-Oct-2020 14:35	<input type="checkbox"/>
HS20100432-02	GW-1620-MW85C-20201008	Groundwater		08-Oct-2020 12:10	08-Oct-2020 14:35	<input type="checkbox"/>
HS20100432-03	GW-1620-DUP01-20201008	Groundwater		08-Oct-2020 00:00	08-Oct-2020 14:35	<input type="checkbox"/>

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: GW-1620-MW66D-20201008
 Collection Date: 08-Oct-2020 13:30

ANALYTICAL REPORT

WorkOrder:HS20100432
 Lab ID:HS20100432-01
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 21-Oct-2020		Analyst: JHD
Arsenic	0.0163		0.00200	mg/L	1	21-Oct-2020 23:27

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: GW-1620-MW85C-20201008
 Collection Date: 08-Oct-2020 12:10

ANALYTICAL REPORT

WorkOrder:HS20100432
 Lab ID:HS20100432-02
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 21-Oct-2020		Analyst: JHD
Arsenic	0.0659		0.00400	mg/L	2	21-Oct-2020 23:29

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: Golder Associates Inc.
 Project: Houston TX-Wood Preserving Works
 Sample ID: GW-1620-DUP01-20201008
 Collection Date: 08-Oct-2020 00:00

ANALYTICAL REPORT

WorkOrder:HS20100432
 Lab ID:HS20100432-03
 Matrix:Groundwater

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ICP-MS METALS BY SW6020A		Method:SW6020		Prep:SW3010A / 21-Oct-2020		Analyst: JHD
Arsenic	0.0237		0.00200	mg/L	1	21-Oct-2020 23:31

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Weight / Prep Log

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20100432

Batch ID: 158685	Start Date: 21 Oct 2020 08:00	End Date: 21 Oct 2020 12:00
Method: WATER - SW3010A	Prep Code: 3010A	

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS20100432-01		10 (mL)	10 (mL)	1
HS20100432-02		10 (mL)	10 (mL)	1
HS20100432-03		10 (mL)	10 (mL)	1

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20100432

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 158685 (0)		Test Name : ICP-MS METALS BY SW6020A			Matrix: Groundwater	
HS20100432-01	GW-1620-MW66D-20201008	08 Oct 2020 13:30		21 Oct 2020 12:00	21 Oct 2020 23:27	1
HS20100432-02	GW-1620-MW85C-20201008	08 Oct 2020 12:10		21 Oct 2020 12:00	21 Oct 2020 23:29	2
HS20100432-03	GW-1620-DUP01-20201008	08 Oct 2020 00:00		21 Oct 2020 12:00	21 Oct 2020 23:31	1

WorkOrder: HS20100432
 InstrumentID: ICPMS06
 Test Code: ICP_TW
 Test Number: SW6020
 Test Name: ICP-MS Metals by SW6020A

**METHOD DETECTION /
 REPORTING LIMITS**

Matrix: Aqueous **Units:** mg/L

Type	Analyte	CAS	DCS Spike	DCS	MDL	PQL
A	Arsenic	7440-38-2	0.00100	0.00102	0.000400	0.00200

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20100432

QC BATCH REPORT

Batch ID: 158685 (0)	Instrument: ICPMS06	Method: ICP-MS METALS BY SW6020A
-------------------------------	----------------------------	---

MBLK	Sample ID: MBLK-158685	Units: mg/L	Analysis Date: 21-Oct-2020 22:22							
Client ID:	Run ID: ICPMS06_370962	SeqNo: 5793467	PrepDate: 21-Oct-2020 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Arsenic < 0.00200 0.00200

LCS	Sample ID: LCS-158685	Units: mg/L	Analysis Date: 21-Oct-2020 22:24							
Client ID:	Run ID: ICPMS06_370962	SeqNo: 5793468	PrepDate: 21-Oct-2020 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Arsenic 0.04836 0.00200 0.05 0 96.7 80 - 120

MS	Sample ID: HS20100523-02MS	Units: mg/L	Analysis Date: 21-Oct-2020 22:30							
Client ID:	Run ID: ICPMS06_370962	SeqNo: 5793471	PrepDate: 21-Oct-2020 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Arsenic 0.04813 0.00200 0.05 0.001175 93.9 80 - 120

MSD	Sample ID: HS20100523-02MSD	Units: mg/L	Analysis Date: 21-Oct-2020 22:32							
Client ID:	Run ID: ICPMS06_370962	SeqNo: 5793472	PrepDate: 21-Oct-2020 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Arsenic 0.04739 0.00200 0.05 0.001175 92.4 80 - 120 0.04813 1.55 20

PDS	Sample ID: HS20100523-02PDS	Units: mg/L	Analysis Date: 21-Oct-2020 22:34							
Client ID:	Run ID: ICPMS06_370962	SeqNo: 5793473	PrepDate: 21-Oct-2020 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	RPD Qual

Arsenic 0.1018 0.00200 0.1 0.001175 101 75 - 125

SD	Sample ID: HS20100523-02SD	Units: mg/L	Analysis Date: 21-Oct-2020 22:28							
Client ID:	Run ID: ICPMS06_370962	SeqNo: 5793470	PrepDate: 21-Oct-2020 DF: 5							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	RPD Limit	RPD Qual

Arsenic < 0.0100 0.0100 0.001175 0 10

The following samples were analyzed in this batch: HS20100432-01 HS20100432-02 HS20100432-03

Client: Golder Associates Inc.
Project: Houston TX-Wood Preserving Works
WorkOrder: HS20100432

**QUALIFIERS,
ACRONYMS, UNITS**

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	20-030-0	26-Mar-2021
California	2919, 2020-2021	30-Apr-2021
Dept of Defense	PJLA L20-507	22-Dec-2021
Florida	E87611-30-07/01/2020	30-Jun-2021
Illinois	2000322020-4	09-May-2021
Kansas	E-10352 2020-2021	31-Jul-2021
Kentucky	123043, 2020-2021	30-Apr-2021
Louisiana	03087, 2020-2021	30-Jun-2021
North Carolina	624-2020	31-Dec-2020
North Dakota	R-193 2020-2021	30-Apr-2021
Texas	T104704231-20-26	30-Apr-2021

Sample Receipt Checklist

Work Order ID: HS20100432

Date/Time Received: 08-Oct-2020 14:35

Client Name: PBW

Received by: Jared R. Makan

Completed By: /S/ Bernadette A. Fini	09-Oct-2020 10:03	Reviewed by: /S/ Dane J. Wacasey	12-Oct-2020 20:07
eSignature	Date/Time	eSignature	Date/Time

Matrices: **water**

Carrier name: **Client**

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- VOA/TX1005/TX1006 Solids in hermetically sealed vials? Yes No Not Present
- Chain of custody present? Yes No 1 Page(s)
- Chain of custody signed when relinquished and received? Yes No COC IDs:228985
- Samplers name present on COC? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container/Temp Blank temperature in compliance? Yes No

Temperature(s)/Thermometer(s):	2.4°C/2.4°C uc/c	IR 31
Cooler(s)/Kit(s):	44785	
Date/Time sample(s) sent to storage:	10-9-20 10:15	
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/> No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	N/A <input type="checkbox"/>
pH adjusted?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	N/A <input type="checkbox"/>
pH adjusted by:	Si Ma	

Login Notes: GW-1620-MW 85C 20201008 metals pH>2 (7) preserved w/1ml HNO3 on 10-9-20 @ 7:20am by Si Ma LOT# 313107008 after preservation pH (1)

Client Contacted:	Date Contacted:	Person Contacted:
Contacted By:	Regarding:	
Comments:		
Corrective Action:		



Cincinnati, OH
+1 513 733 5336

Fort Collins, CO
+1 970 490 1511

Everett, WA
+1 425 356 2600

Holland, MI
+1 616 399 6070

Chain of Custody Form

Houston, TX
+1 281 530 5656

Spring City, PA
+1 610 948 4903

South Charleston, WV
+1 304 356 3168

Middletown, PA
+1 717 944 5541

Salt Lake City, UT
+1 801 266 7700

York, PA
+1 717 505 5280

Page ____ of ____

COC ID: 228985

ALS Project Manager:		ALS Work Order #:	
Customer Information		Project Information	
Purchase Order	UPRR/Kevin Peterburs	Project Name	Houston TX-Wood Preserving Works
Work Order		Project Number	1620-20-Rev1 SR 92683
Company Name	Golder Associates Inc.	Bill To Company	Union Pacific Railroad- A/P
Send Report To	Eric Matzner	Invoice Attn	Accounts Payable
Address	2201 Double Creek Drive Suite 4004	Address	1400 Douglas Street Stop 0750
City/State/Zip	Round Rock, TX 78664	City/State/Zip	Omaha NE 681790750
Phone	(512) 671-3434	Phone	
Fax	(512) 671-3446	Fax	
e-Mail Address	Eric_Matzner@golder.com	e-Mail Address	

Parameter/Method Request for Analysis

A ICP_TW (5636002 Metals - As)

B

C

HS20100432


Golder Associates Inc.
Houston TX-Wood Preserving Works

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	GW-1620-MW 660 20201008	10-8-2020	13:30	Groundwa	2	1	X										
2	GW 1620 MW 856 20201008	10-8-2020	12:10	GW	2	1	X										
3	GW 1620 Dupol 20201008	10-8-2020	X	GW	2	1	X										
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign <i>J. Matzner</i>		Shipment Method		Required Turnaround Time: (Check Box)			Results Due Date:	
				<input checked="" type="checkbox"/> STD 10 Wk Days <input type="checkbox"/> 5 Wk Days <input type="checkbox"/> 2 Wk Days <input type="checkbox"/> 24 Hour				
Relinquished by:	Date: 10-8-20	Time: 14:35	Received by:	Notes: UPRR Houston FWPW 1620				
Relinquished by:	Date: 10/8/20	Time: 14:35	Received by (Laboratory):	Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)		
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	44785	2-4°C	<input checked="" type="checkbox"/> Level I Std QC	<input type="checkbox"/> TRRP Checklist	
Preservative Key: 1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-Na ₂ S ₂ O ₃ 6-NaHSO ₄ 7-Other 8-4°C 9-5035						<input type="checkbox"/> Level III Std QC/Row Data	<input type="checkbox"/> TRRP Level IV	
						<input type="checkbox"/> Level I / S/N/AG/CLP		
						<input type="checkbox"/> Other		

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
 2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
 3. The Chain of Custody is a legal document. All information must be completed accurately.

Copyright 2011 by ALS Environmental.

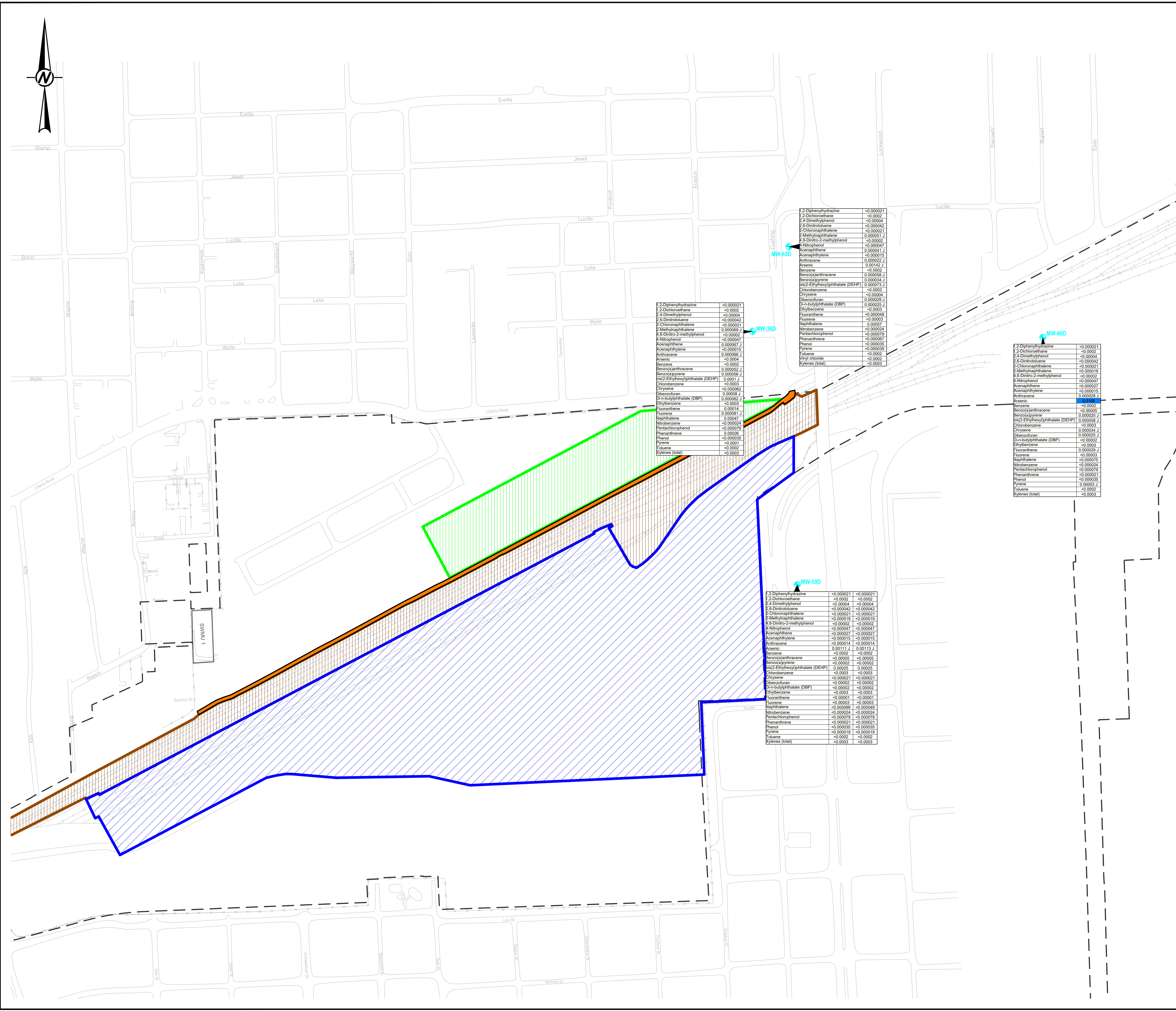
 ALS 10450 Standiff Rd., Suite 210 Houston, Texas 77099 Tel. +1 281 530 5856 Fax. +1 281 530 5887	CUSTODY SEAL		Seal Broken By: <i>sm</i>
	Date: <i>10-8-21</i>	Title: <i>IS</i>	Date:
	Name: <i>T. N. Smith</i>	Company: <i>Field</i>	<i>10-8-21</i>

44785

101

ATTACHMENT C

**July 2020 Sampling Event COC
Concentration Maps**



LEGEND

- - - UPRR PROPERTY
- ROAD, PARKING LOT, SIDEWALK
- FENCE
- RAILROAD
- D-TZ MONITORING WELL LOCATION
- INFERRED GROUNDWATER FLOW DIRECTION
- RAILROAD BALLAST CAP AREA
- ASPHALT CAP AREA
- SOIL CAP
- CONCRETE CAP AREA

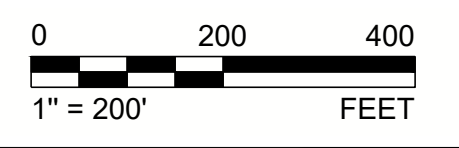
- NOTE(S)**
1. ALL CONCENTRATIONS ARE IN mg/L.
 2. J - ESTIMATED VALUE BETWEEN SQL AND MDL.
 3. < - NOT DETECTED (RL/SQL REPORTED).
 4. NA - NOT ANALYZED.
 5. NS - NOT SAMPLED.
 6. BLUE HIGHLIGHTED CONCENTRATIONS EXCEED COMMERCIAL INDUSTRIAL PCLs (FOR ON-SITE WELLS ONLY).
 7. YELLOW HIGHLIGHTED CONCENTRATIONS EXCEED RESIDENTIAL ASSESSMENT LEVEL (RALs).
 8. DNAPL - DENSE NON-AQUEOUS PHASE LIQUIDS DETECTED IN MONITORING WELL (JULY 2020).

SWMU AREA

NO.	DESCRIPTION
SWMU 1	CLOSED SURFACE IMPOUNDMENT

PROTECTIVE CONCENTRATION LEVELS (PCLs)

PARAMETER	RAL (mg/L)	CIL PCL (mg/L)
1,2-Diphenylhydrazine	0.0011	0.0026
1,2-Dichloroethane	0.005	0.005
2,4-Dimethylphenol	0.49	1.5
2,6-Dinitrotoluene	0.013	0.003
2-Chloronaphthalene	2	5.8
2-Methylnaphthalene	0.068	0.29
4,8-Dinitro-2-methylphenol	0.004	0.013
4-Nitrophenol	0.049	0.15
Acenaphthene	1.5	4.4
Acenaphthylene	1.5	4.4
Anthracene	7.3	22
Arsenic	0.01	0.01
Benzene	0.005	0.005
Benzofuran	0.0091	0.02
Benzofluorene	0.002	0.002
Benzopyrene	0.006	0.006
Butylbenzene	0.1	0.1
Chrysene	0.01	0.01
Dibenzofuran	0.0068	0.29
Dibenzofluorene	2.4	7.3
Ethylbenzene	0.7	0.7
Fluorene	0.68	2.9
Fluoranthene	0.88	2.9
Naphthalene	0.49	1.5
Nitrobenzene	0.049	0.15
Perfluorobiphenyl	0.001	0.001
Phenanthrene	0.73	2.2
Phenol	7.3	22
Pyrene	0.73	2.2
Toluene	1	1
Vinyl chloride	0.002	0.002
Xylenes (total)	10	10



CLIENT
UNION PACIFIC RAILROAD CO.

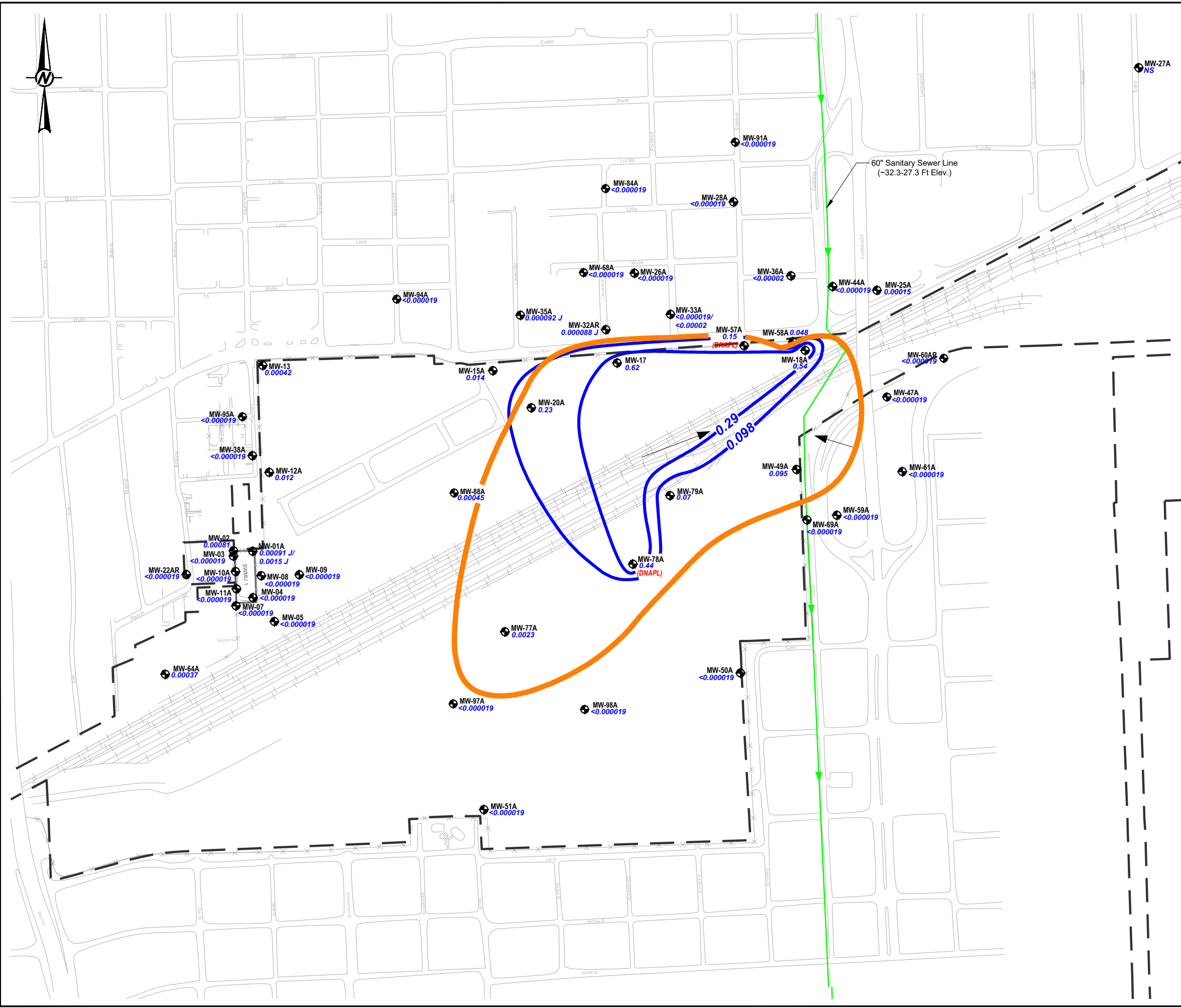
PROJECT
HOUSTON WOOD PRESERVING WORKS

TITLE
GROUNDWATER COC CONCENTRATION MAP - D-TZ
JULY 2020

CONSULTANT	DATE
<p>GOLDER MEMBER OF WSP TEXAS GEOSCIENCE FIRM NO. 50389 TEXAS ENGINEERING FIRM NO. 2578</p>	YYYY-MM-DD 2021-04-30
	DESIGNED
	PREPARED RS
	REVIEWED MH
	APPROVED ECM

PROJECT NO. 19119232 REV. 0 FIGURE 5B-4

Path: \\golder\gfs\completestates\offices\houston\projects - round rock\19119232 - hwy2020\9_spl\GWRM-Annual Report\1. File Name: BE-5 - BE-9 Groundwater COC Concentration Map A-TZ - July 2020.dwg | Last Edited By: adamsand | Date: 2021-04-30 Time: 4:45:19 PM | Printed By: RStewart | Date: 2021-04-30 Time: 6:02:19 PM



LEGEND

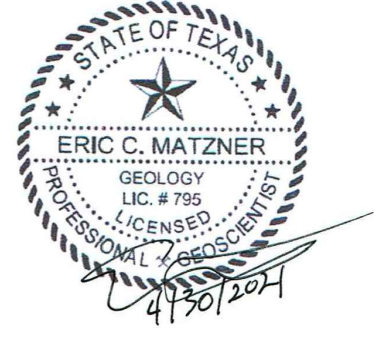
- UPRR PROPERTY BOUNDARY
- ROAD, PARKING LOT, SIDEWALK
- FENCE
- RAILROAD
- A-TZ MONITORING WELL LOCATION
- 0.07 2-METHYLNAPHTHALENE CONCENTRATION (mg/L)
- 0.098 2-METHYLNAPHTHALENE CONCENTRATION CONTOUR (mg/L)
- INFERRED GROUNDWATER FLOW DIRECTION
- CUMULATIVE GW PCLE ZONE

NOTE(S)

- DNAPL - DENSE NON-AQUEOUS PHASE LIQUIDS DETECTED IN MONITORING WELL (JULY 2020).
- NS - NOT SAMPLED
- CONTOURS ARE AT THE RAL AND C/I PCL (0.098 mg/L AND 0.29 mg/L)

REFERENCE(S)

BASE MAP FROM ERM-SOUTHWEST, INC APAR ADDENDUM, FIG 3-1, DATED JUNE 2004.



CLIENT
UNION PACIFIC RAILROAD CO.

PROJECT
HOUSTON WOOD PRESERVING WORKS

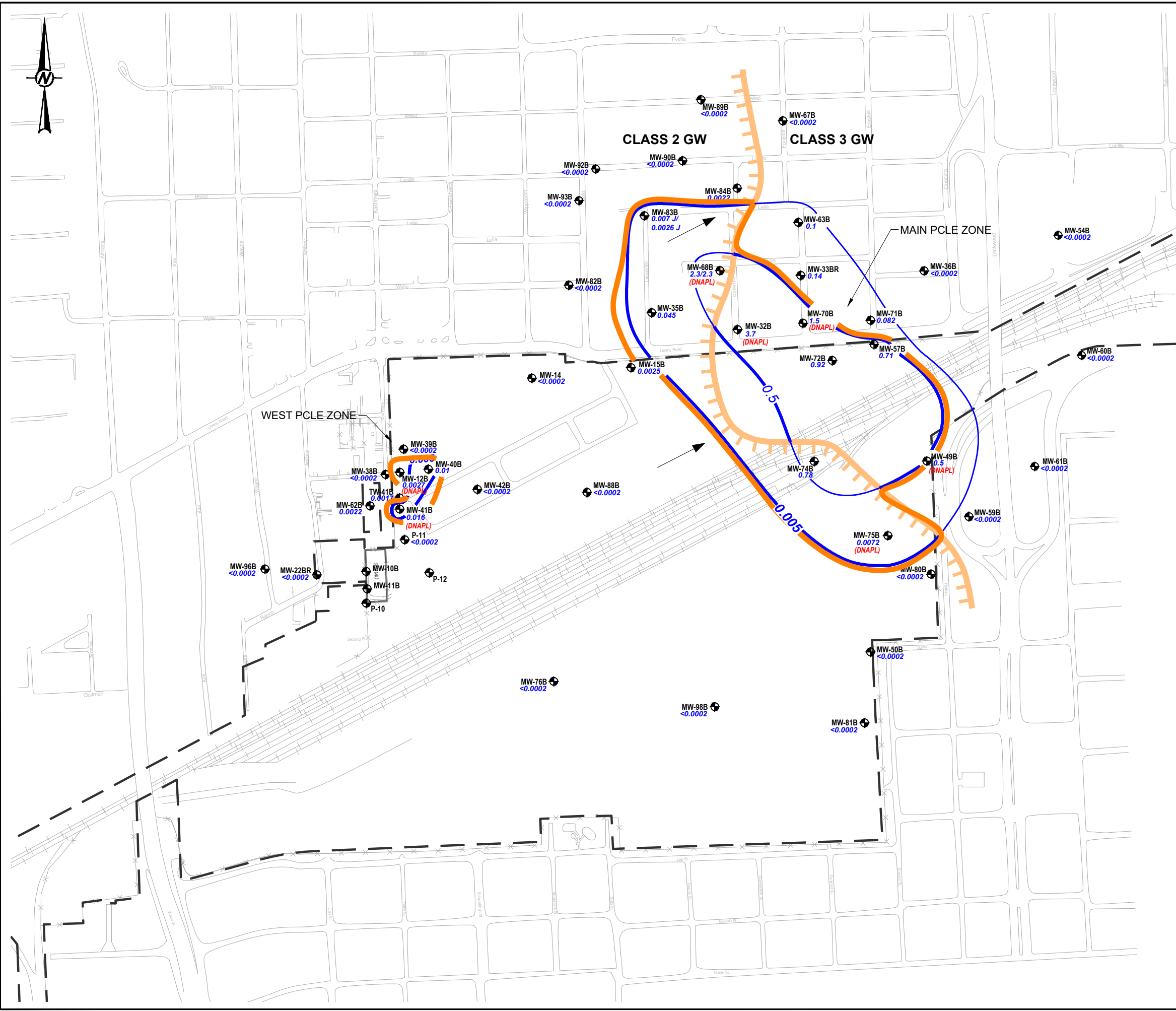
TITLE
**GROUNDWATER COC CONCENTRATION MAP - A-TZ
2-METHYLNAPHTHALENE - JULY 2020**

CONSULTANT	YYYY-MM-DD	2021-03-01
 GOLDER MEMBER OF WSP TEXAS GEOSCIENCE FIRM NO. 50369 TEXAS ENGINEERING FIRM NO. 2578	DESIGNED	
	PREPARED	RS
	REVIEWED	MH
	APPROVED	ECM

PROJECT NO. 19119232
REV. 0
FIGURE 5B-7

1 in IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B

Path: \\golder-gbl.com\projects\houston\houston\projects - round rock\19119232 - hwy2020-9\sp1\semi-annual-reports\1 - File Name: BE10 - BE14 Groundwater COC Concentration Map - B-CZ/B-TZ - July 2020.dwg | Last Edited By: addendum | Date: 2021-04-30 | Time: 4:55:18 PM | Printed By: RSalazar | Date: 2021-04-30 | Time: 5:03:17 PM



LEGEND

- UPRR PROPERTY BOUNDARY
- ROAD, PARKING LOT, SIDEWALK
- FENCE
- RAILROAD
- B-TZ MONITORING WELL LOCATION
- B-CZ (CLASS 3 GW)
- B-TZ (CLASS 2 GW)
- BENZENE CONCENTRATION (mg/L)
- BENZENE CONCENTRATION CONTOUR (mg/L)
- INFERRED GROUNDWATER FLOW DIRECTION
- CUMULATIVE GW PCLE ZONE

NOTE(S)

1. DNAPL - DENSE NON-AQUEOUS PHASE LIQUIDS DETECTED IN MONITORING WELL (JULY 2020).
2. NS - NOT SAMPLED
3. CONTOURS ARE BOLDED AT THE RAL AND C/I PCL:
 CLASS 2 GW PCL: 0.005 mg/L
 CLASS 3 GW PCL: 0.5 mg/L

REFERENCE(S)
 BASE MAP FROM ERM-SOUTHWEST, INC APAR ADDENDUM, FIG 3-1, DATED JUNE 2004.



CLIENT
 UNION PACIFIC RAILROAD CO.

PROJECT
 HOUSTON WOOD PRESERVING WORKS

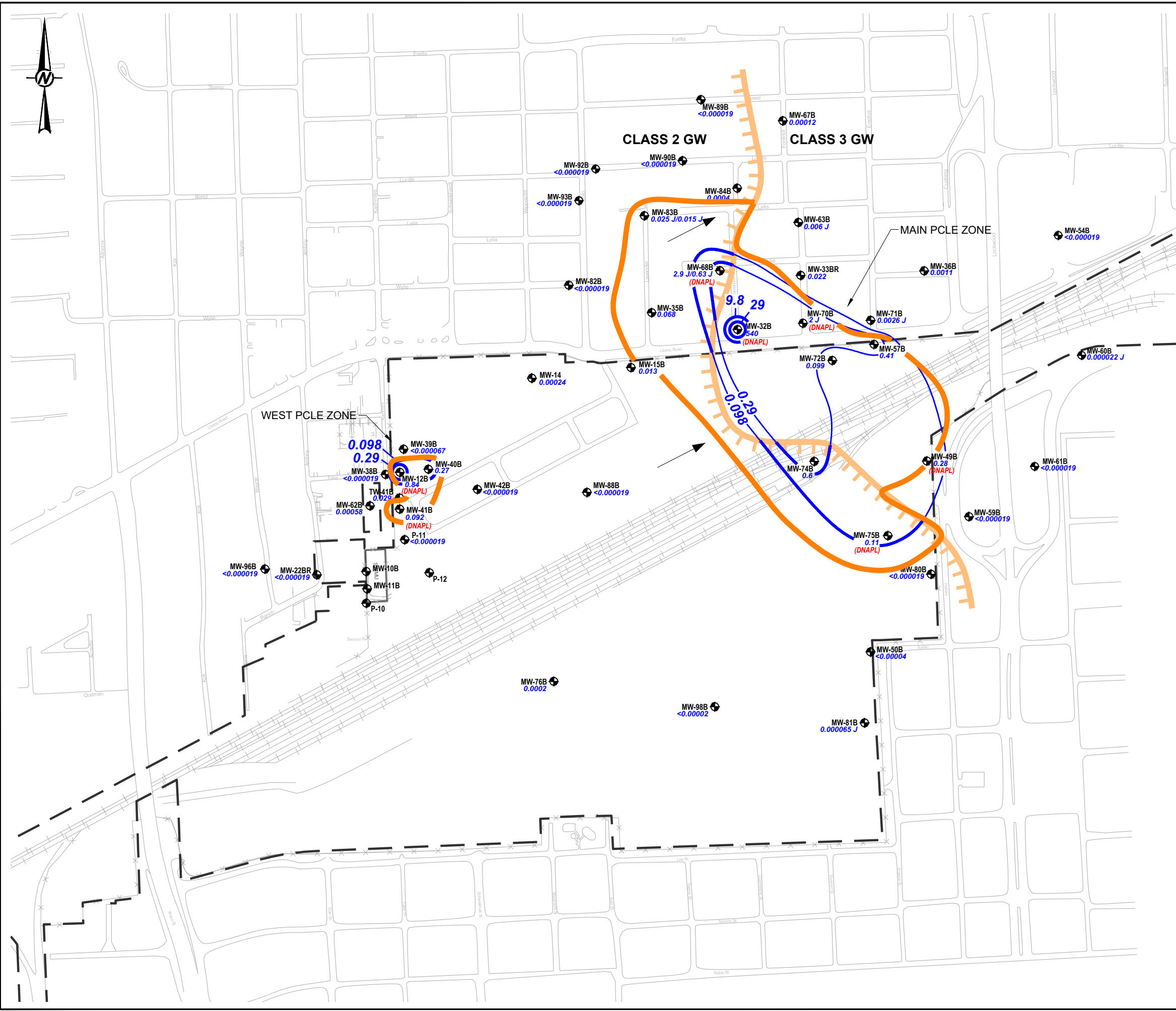
TITLE
**GROUNDWATER COC CONCENTRATION MAP - B-CZ/B-TZ
 BENZENE - JULY 2020**

CONSULTANT	YYYY-MM-DD	2021-04-30
GOLDER MEMBER OF WSP	DESIGNED	
TEXAS GEOSCIENCE FIRM NO. 50369 TEXAS ENGINEERING FIRM NO. 2578	PREPARED	RS
	REVIEWED	MH
	APPROVED	ECM

PROJECT NO. 19119232 REV. 0 FIGURE 5B-10

1 in IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B

Path: \\golder-gbl.com\projects\houston\houston\projects - round\work_201910110232 - houston\2020-9\sp1\semi-Annual Report - 1 File Name: BE10 - BE14 Groundwater COC Concentration Map B-TZ-B-CZ - July 2020.dwg | Last Edited By: radman | Date: 2021-04-30 Time: 4:55:19 PM | Printed By: radman | Date: 2021-04-30 Time: 5:03:45 PM

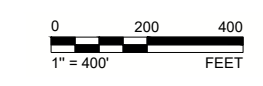


LEGEND

- UPRR PROPERTY BOUNDARY
- ROAD, PARKING LOT, SIDEWALK
- FENCE
- RAILROAD
- B-TZ MONITORING WELL LOCATION
- B-CZ (CLASS 3 GW) B-TZ/B-CZ BOUNDARY
- B-TZ (CLASS 2 GW) 0.28 2-METHYLNAPHTHALENE CONCENTRATION (mg/L)
- 0.098 2-METHYLNAPHTHALENE CONCENTRATION CONTOUR (mg/L)
- INFERRED GROUNDWATER FLOW DIRECTION
- CUMULATIVE GW PCLE ZONE

- NOTE(S)**
1. DNAPL - DENSE NON-AQUEOUS PHASE LIQUIDS DETECTED IN MONITORING WELL (JANUARY 2020).
 2. NS - NOT SAMPLED
 3. CONTOURS ARE BOLDED AT THE RAL AND C/I PCL:
 CLASS 2 GW PCL: 0.098 mg/L (Res.) & 0.29 mg/L (C/I)
 CLASS 3 GW PCL: 9.8 mg/L (Res.) & 29 mg/L (C/I)

REFERENCE(S)
 BASE MAP FROM ERM-SOUTHWEST, INC APAR ADDENDUM, FIG 3-1, DATED JUNE 2004.



CLIENT
 UNION PACIFIC RAILROAD CO.

PROJECT
 HOUSTON WOOD PRESERVING WORKS

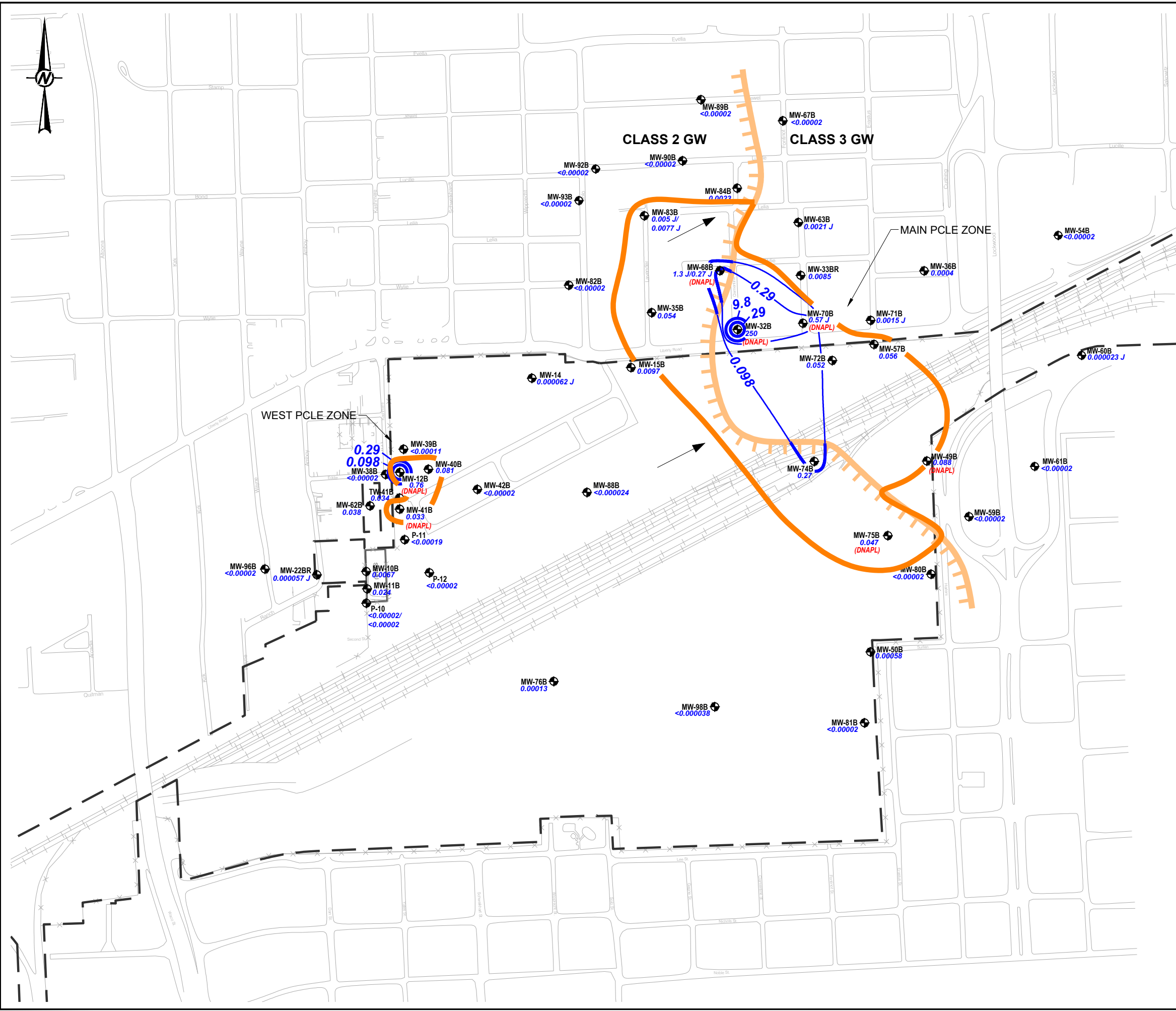
TITLE
**GROUNDWATER COC CONCENTRATION MAP - B-CZ/B-TZ
 2-METHYLNAPHTHALENE - JULY 2020**

CONSULTANT	DATE
GOLDER MEMBER OF WSP <small>TEXAS GEOSCIENCE FIRM NO. 50369 TEXAS ENGINEERING FIRM NO. 2578</small>	YYYY-MM-DD
	DESIGNED
	PREPARED
	REVIEWED
APPROVED	ECM

PROJECT NO. 19119232 REV. 0 FIGURE 5B-12

1 in IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B

Path: \\golder-gbl.com\projects\houston\houston\projects - round rock\19119232 - hwy2020-9\sp1\semi-annual-reports\1 - File Name: BE10 - BE14 Groundwater COC Concentration Map B-TZ-B-CZ - July 2020.dwg | Last Edited By: adammc | Date: 2021-04-30 Time: 4:55:15 PM | Printed By: RSalazar | Date: 2021-04-30 Time: 5:03:59 PM



LEGEND

- UPRR PROPERTY BOUNDARY
- ROAD, PARKING LOT, SIDEWALK
- FENCE
- RAILROAD
- B-TZ MONITORING WELL LOCATION
- B-CZ (CLASS 3 GW) B-TZ/B-CZ BOUNDARY
- B-TZ (CLASS 2 GW)
- 0.0004 DIBENZOFURAN CONCENTRATION (mg/L)
- 0.098** DIBENZOFURAN CONCENTRATION CONTOUR (mg/L)
- INFERRED GROUNDWATER FLOW DIRECTION
- CUMULATIVE GW PCLE ZONE

NOTE(S)

1. DNAPL - DENSE NON-AQUEOUS PHASE LIQUIDS DETECTED IN MONITORING WELL (JULY 2020).
2. NS - NOT SAMPLED
3. CONTOURS ARE BOLDED AT THE RAL AND C/I PCL:
 CLASS 2 GW PCL: 0.098 mg/L (Res.) & 0.29 mg/L (C/I)
 CLASS 3 GW PCL: 9.8 mg/L (Res.) & 29 mg/L (C/I)

REFERENCE(S)
 BASE MAP FROM ERM-SOUTHWEST, INC APAR ADDENDUM, FIG 3-1, DATED JUNE 2004.



CLIENT
 UNION PACIFIC RAILROAD CO.

PROJECT
 HOUSTON WOOD PRESERVING WORKS

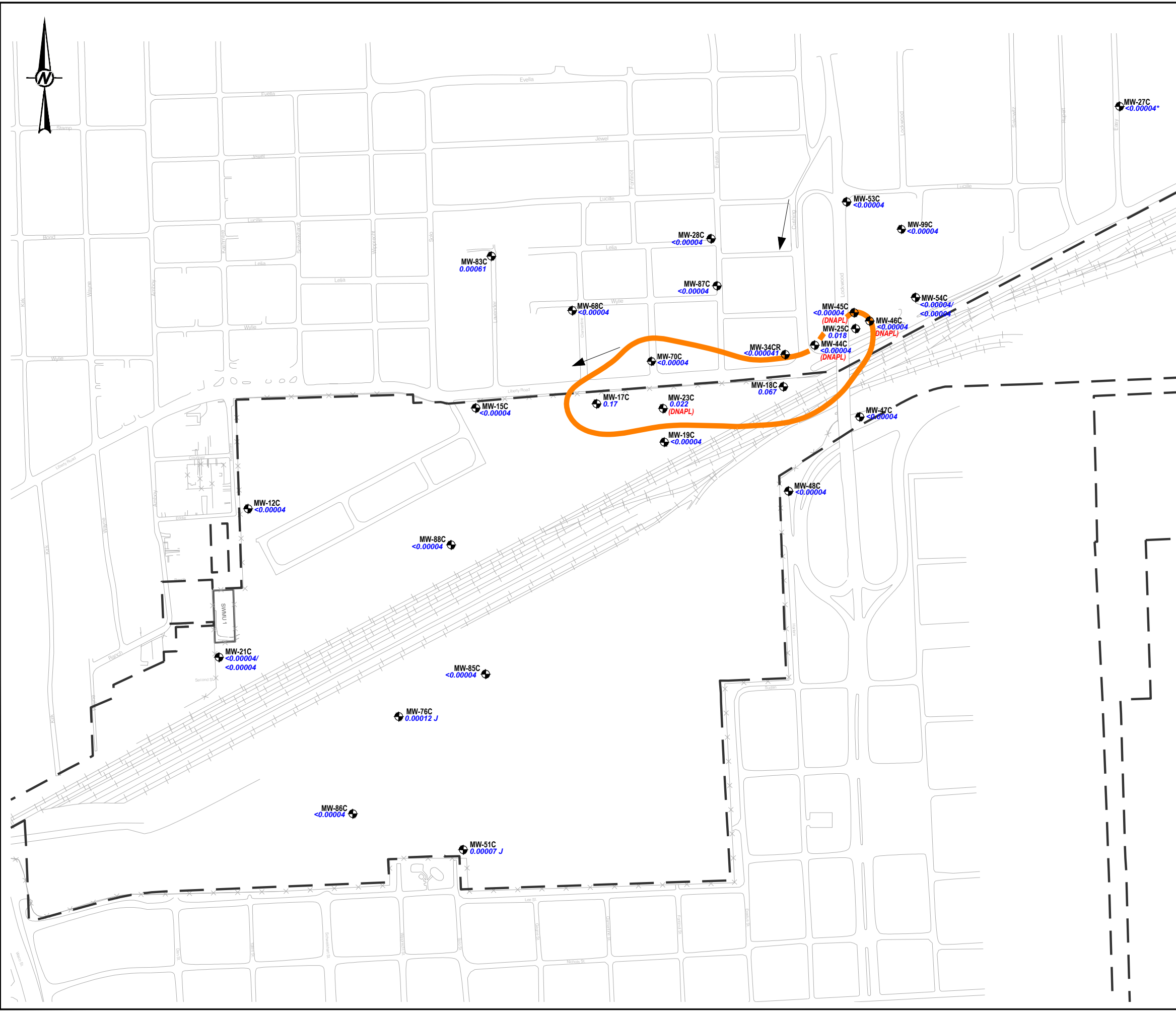
TITLE
 GROUNDWATER COC CONCENTRATION MAP - B-CZ/B-TZ
 DIBENZOFURAN - JULY 2020

CONSULTANT	DATE
GOLDER MEMBER OF WSP <small>TEXAS GEOSCIENCE FIRM NO. 50369 TEXAS ENGINEERING FIRM NO. 2578</small>	YYYY-MM-DD 2021-04-30
	DESIGNED
	PREPARED RS
	REVIEWED MH
	APPROVED ECM

PROJECT NO. 19119232 **REV.** 0 **FIGURE** 5B-13

1 in IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B

Path: \\golder\gfs\completest\offices\houston\projects - round rock\2019\19119232 - hwy2020\9 - sept2020\Annual Report - 19119232.dwg | Last Edited By: adamand | Date: 2021-04-30 | Time: 5:00:07 PM | Printed By: RScholar | Date: 2021-04-30 | Time: 5:07:11 PM



LEGEND

- UPRR PROPERTY BOUNDARY
- ROAD, PARKING LOT, SIDEWALK
- × × × FENCE
- RAILROAD
- ⊕ C-TZ MONITORING WELL LOCATION
- 0.022 2,4-DIMETHYLPHENOL CONCENTRATION (mg/L)
- 0.49 2,4-DIMETHYLPHENOL CONCENTRATION CONTOUR (mg/L)
- ↖ INFERRED GROUNDWATER FLOW DIRECTION
- ◻ CUMULATIVE GW PCLE ZONE

- NOTE(S)**
1. DNAPL - DENSE NON-AQUEOUS PHASE LIQUIDS DETECTED IN MONITORING WELL (JULY 2020).
 2. NS - NOT SAMPLED
 3. CONTOURS ARE AT THE RAL AND C/I PCL (0.49 mg/L AND 1.5 mg/L)
 4. * - SAMPLE COLLECTED IN AUGUST 18, 2020.

REFERENCE(S)
 BASE MAP FROM ERM-SOUTHWEST, INC APAR ADDENDUM, FIG 3-1, DATED JUNE 2004.



CLIENT
 UNION PACIFIC RAILROAD CO.

PROJECT
 HOUSTON WOOD PRESERVING WORKS

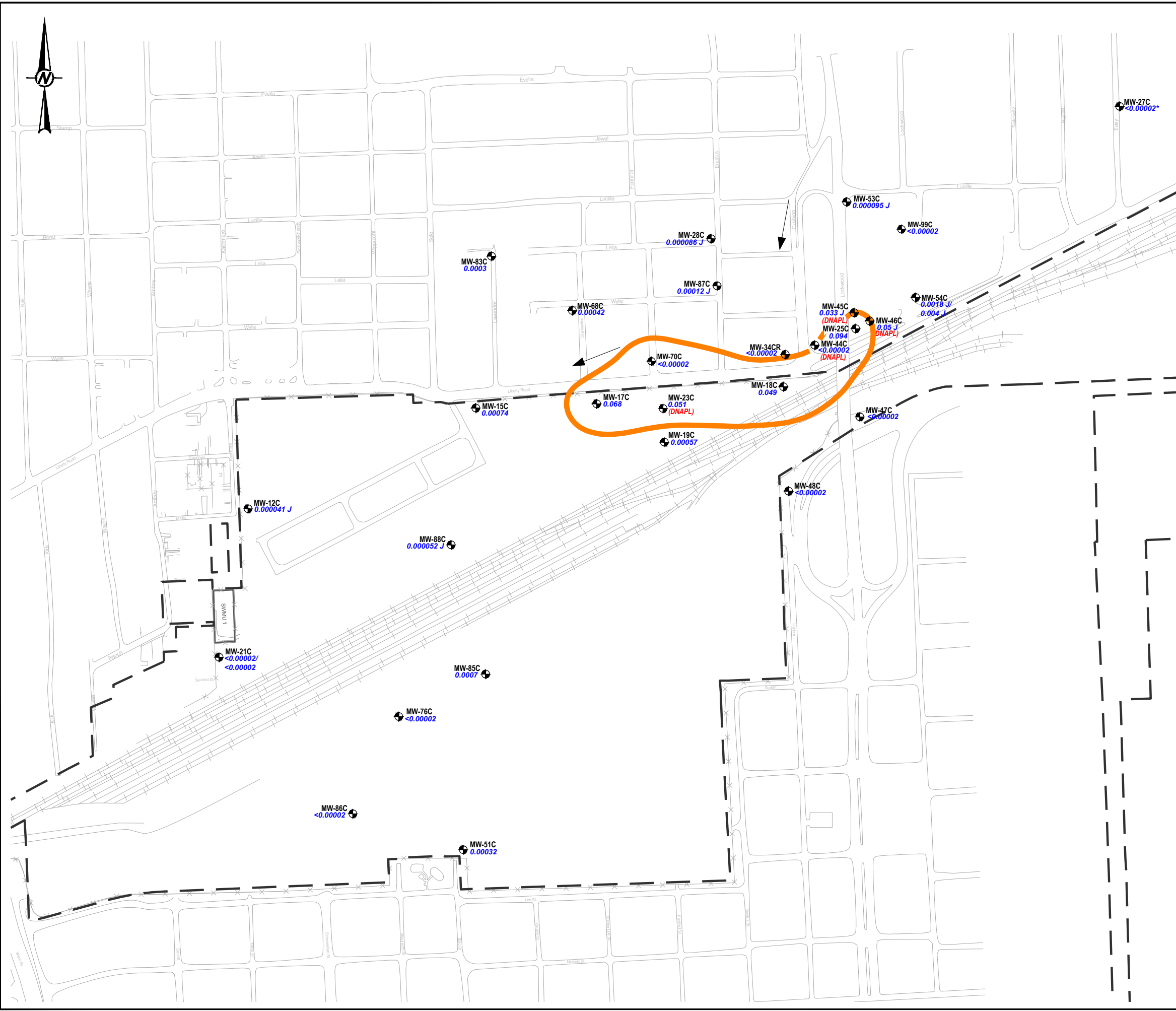
TITLE
 GROUNDWATER COC CONCENTRATION MAP - CTZ
 2,4-DIMETHYLPHENOL - JULY 2020

CONSULTANT	DATE	BY
YYYY-MM-DD	2021-04-30	
DESIGNED		
PREPARED		RS
REVIEWED		MH
APPROVED		ECM

PROJECT NO. 19119232
REV. 0
FIGURE 5B-16

1 in IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B

Path: \\golder-gbl.com\projects\houston\houston\projects - round rock_201910110232 - hwy2020-9 - sep18-Annual Report - File Name: BE15 - BE19 Groundwater COC Concentration Map C-TZ - July 2020.dwg | Last Edited By: adamand | Date: 2021-04-30 | Time: 5:00:07 PM | Printed By: RScholar | Date: 2021-04-30 | Time: 6:07:41 PM



LEGEND

- UPRR PROPERTY BOUNDARY
- ROAD, PARKING LOT, SIDEWALK
- × × × FENCE
- RAILROAD
- ⊕ C-TZ MONITORING WELL LOCATION
- 0.051 DIBENZOFURAN CONCENTRATION (mg/L)
- 0.098 — DIBENZOFURAN CONCENTRATION CONTOUR (mg/L)
- ↖ INFERRED GROUNDWATER FLOW DIRECTION
- ◻ CUMULATIVE GW PCLE ZONE

- NOTE(S)**
1. DNAPL - DENSE NON-AQUEOUS PHASE LIQUIDS DETECTED IN MONITORING WELL (JULY 2020).
 2. NS - NOT SAMPLED
 3. CONTOURS ARE AT THE RAL AND C/I PCL (0.098 mg/L AND 0.29 mg/L)
 4. * - SAMPLE COLLECTED IN AUGUST 18, 2020.

REFERENCE(S)
 BASE MAP FROM ERM-SOUTHWEST, INC APAR ADDENDUM, FIG 3-1, DATED JUNE 2004.



CLIENT
 UNION PACIFIC RAILROAD CO.

PROJECT
 HOUSTON WOOD PRESERVING WORKS

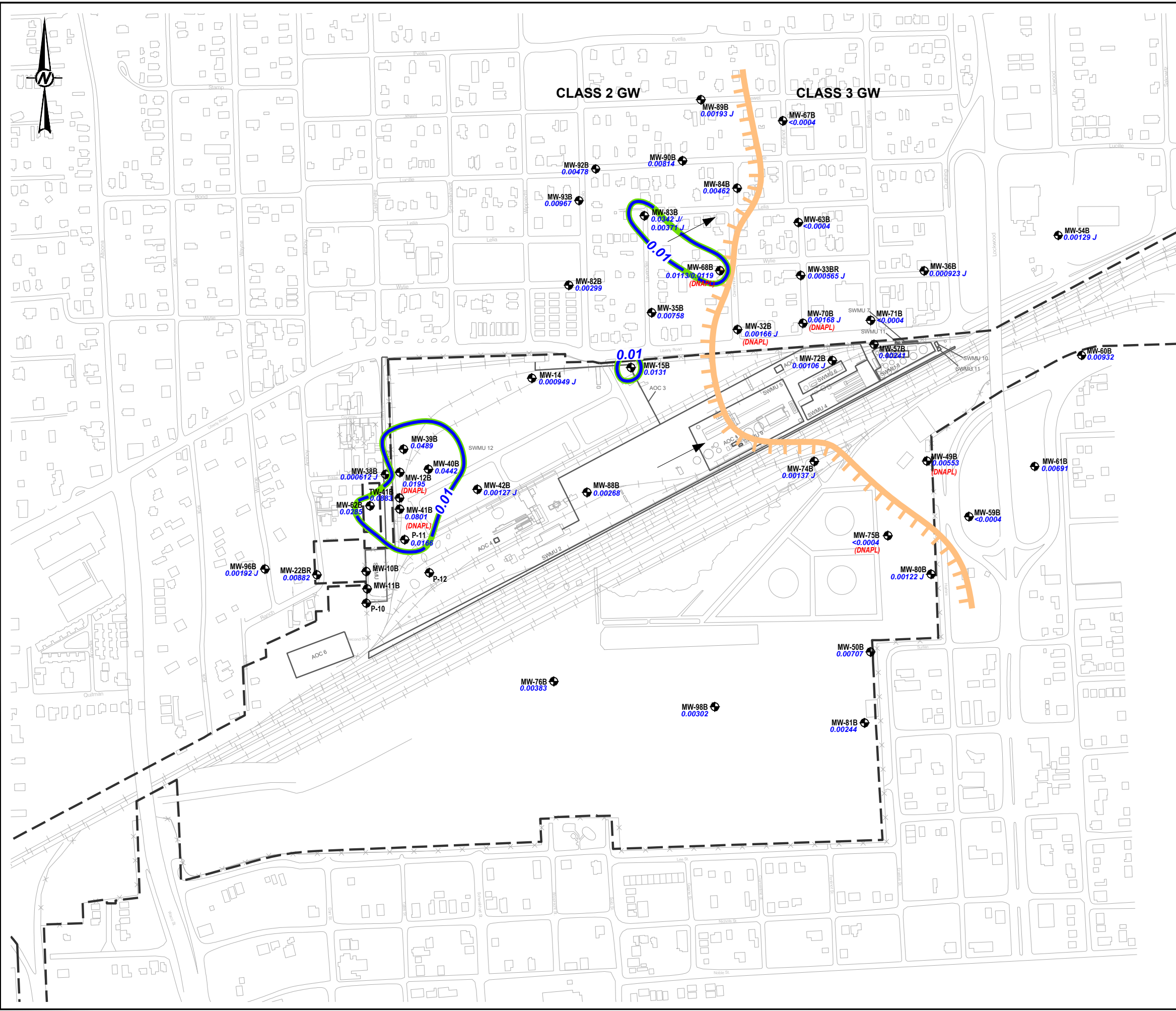
TITLE
 GROUNDWATER COC CONCENTRATION MAP - CTZ
 DIBENZOFURAN - JULY 2020

CONSULTANT	YYYY-MM-DD	2021-04-30
GOLDER MEMBER OF WSP TEXAS GEOSCIENCE FIRM NO. 50369 TEXAS ENGINEERING FIRM NO. 2578	DESIGNED	2021-04-30
	PREPARED	RS
	REVIEWED	MH
	APPROVED	ECM

PROJECT NO. 19119232 **REV.** 0 **FIGURE** 5B-18

1 in IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B

Path: \\golder-gds.com\projects\houston\houston\projects - round\houston_2019101910232 - houston\2020\0 - final\Annual Report\1 - File Name: B01 - Arsenic COC Concentration Map B-TZ B-CZ - July 2020.dwg | Last Edited By: radmand Date: 2021-04-30 Time: 5:21:27 PM | Printed By: RBehar Date: 2021-04-30 Time: 5:21:21 PM



LEGEND

- UPRR PROPERTY BOUNDARY
- ROAD, PARKING LOT, SIDEWALK
- FENCE
- RAILROAD
- B-TZ MONITORING WELL LOCATION
- B-CZ (CLASS 3 GW)
- B-TZ/B-CZ BOUNDARY
- B-TZ (CLASS 2 GW)
- 0.001J ARSENIC CONCENTRATION (mg/L)
- 0.01 ARSENIC CONCENTRATION CONTOUR (mg/L)
- INFERRED GROUNDWATER FLOW DIRECTION
- ARSENIC PCLE ZONE

NOTE(S)

1. DNAPL - DENSE NON-AQUEOUS PHASE LIQUIDS DETECTED IN MONITORING WELL (JULY 2020).
2. NS - NOT SAMPLED
3. CONTOURS ARE AT THE RAL AND C/I PCL:
 CLASS 2 GW PCL: 0.01 mg/L
 CLASS 3 GW PCL: 1 mg/L

REFERENCE(S)

BASE MAP FROM ERM-SOUTHWEST, INC APAR ADDENDUM, FIG 3-1, DATED JUNE 2004.



CLIENT
UNION PACIFIC RAILROAD CO.

PROJECT
HOUSTON WOOD PRESERVING WORKS

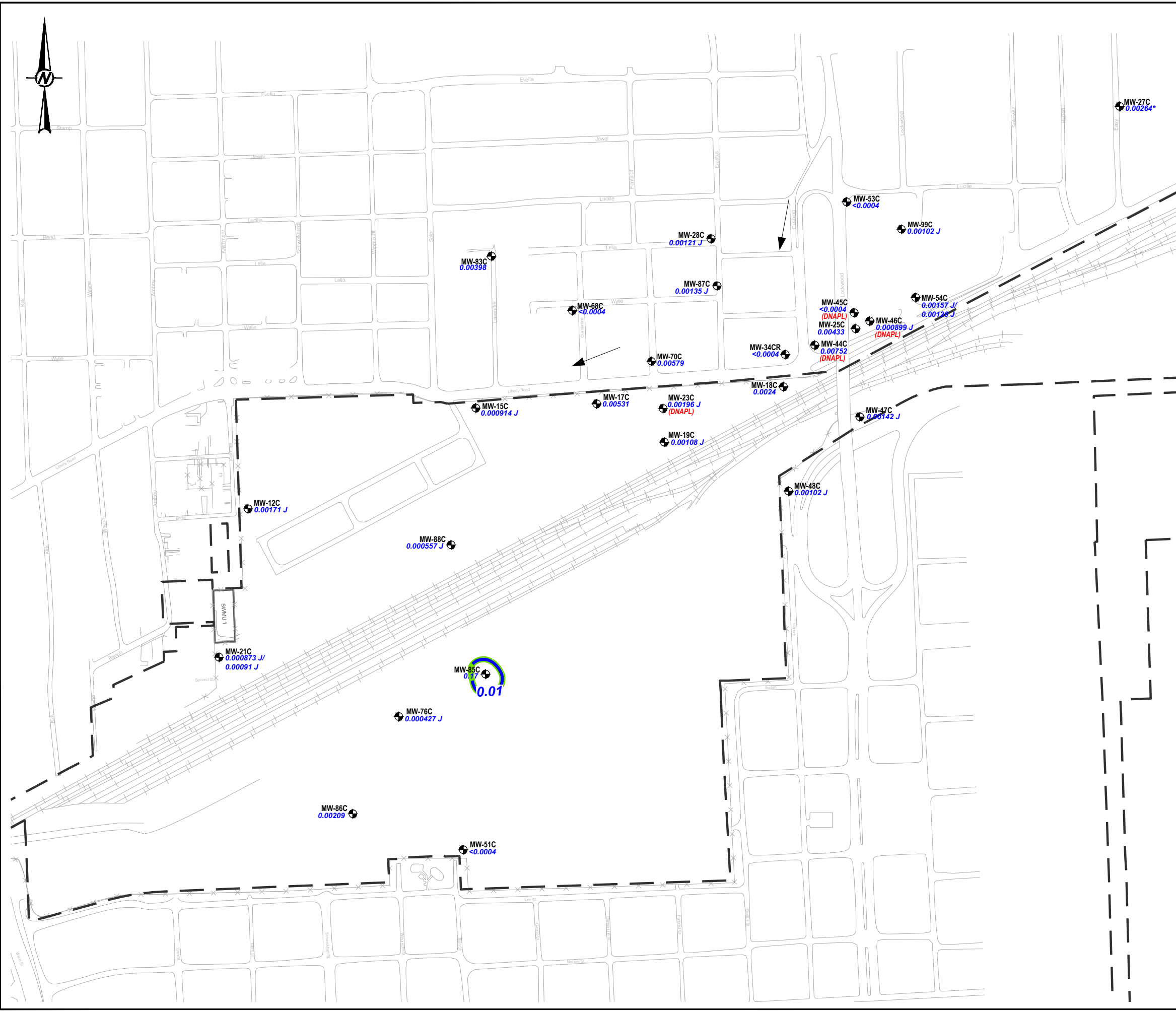
TITLE
**GROUNDWATER COC CONCENTRATION MAP - B-TZ/B-CZ
ARSENIC - JULY 2020**

CONSULTANT	DATE	BY
YYYY-MM-DD	2021-04-30	
DESIGNED		
PREPARED		RS
REVIEWED		MH
APPROVED		ECM

PROJECT NO. 19119232 REV. 0 FIGURE 5B-21

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B

Path: \\golder-gbl.com\projects\houstonwood\ermsouthwest\projects - round rock_201910110232 - houstonwood_2020_9_spl\GIS\Annual Report - C-TZ - July 2020.dwg | Last Edited By: adrianand | Date: 2021-04-30 Time: 5:17:41 PM | Printed By: RScholar | Date: 2021-04-30 Time: 6:25:48 PM

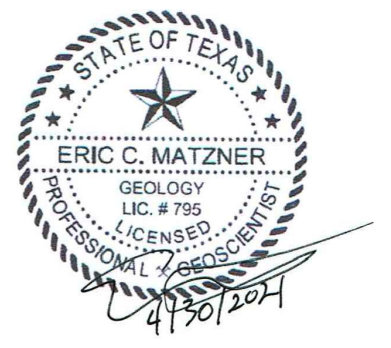


LEGEND

- UPRR PROPERTY BOUNDARY
- ROAD, PARKING LOT, SIDEWALK
- × × × FENCE
- RAILROAD
- ⊕ C-TZ MONITORING WELL LOCATION
- 0.00531 ARSENIC CONCENTRATION (mg/L)
- 0.01 ARSENIC CONCENTRATION CONTOUR (mg/L)
- ← INFERRED GROUNDWATER FLOW DIRECTION
- ▭ ARSENIC PCLE ZONE

- NOTE(S)**
1. DNAPL - DENSE NON-AQUEOUS PHASE LIQUIDS DETECTED IN MONITORING WELL (JULY 2020).
 2. NS - NOT SAMPLED
 3. CONTOURS ARE AT THE RAL AND C/I PCL (0.01 mg/L)
 4. * - SAMPLE COLLECTED IN AUGUST 18, 2020.

REFERENCE(S)
 BASE MAP FROM ERM-SOUTHWEST, INC APAR ADDENDUM, FIG 3-1, DATED JUNE 2004.



CLIENT
 UNION PACIFIC RAILROAD CO.

PROJECT
 HOUSTON WOOD PRESERVING WORKS

TITLE
 GROUNDWATER COC CONCENTRATION MAP - C-TZ
 ARSENIC - JULY 2020

CONSULTANT	YYYY-MM-DD	2021-04-30
DESIGNED		
PREPARED		RS
REVIEWED		MH
APPROVED		ECM

PROJECT NO. 19119232 **REV.** 0 **FIGURE** 5B-22

1 in IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B

ATTACHMENT D

Mann-Kendall Trend Test Results

Table D-1

Summary of Mann-Kendall Trend Tests
Houston Wood Preserving Works

Date Range		Well	2-Methylnaphthalene	2,4-Dimethylphenol	Benzene	Dibenzofuran	Naphthalene	COMMENT
1/23/2018	7/15/2020	MW-03	NT	ND	ND	NT	NT	
1/23/2018	7/15/2020	MW-04	NT	ND	ND	NT	NT	
7/12/2011	7/15/2020	MW-05	NT	ND	ND	PD	D	
7/12/2011	7/15/2020	MW-09	S	ND	ND	S	NT	
1/22/2009	7/17/2020	MW-12A	D	NT	NT	S	D	
1/22/2009	7/15/2020	MW-13	NT	PI	ND	NT	NT	
1/22/2009	7/14/2020	MW-15A	NT	NT	D	D	PD	
1/22/2009	7/14/2020	MW-17	S	NT	S	PD	PD	
1/22/2009	7/14/2020	MW-18A	S	PD	S	S	NT	
7/12/2011	7/14/2020	MW-20A	S	D	D	S	NT	
1/23/2018	7/20/2020	MW-22AR	ND	ND	ND	NT	NT	
1/22/2009	7/22/2020	MW-25A	NT	ND	ND	NT	NT	
1/22/2009	7/27/2020	MW-26A	PD	NT	NT	D	D	
1/23/2018	1/7/2020	MW-27A	NT	ND	ND	NT	NT	
1/22/2009	7/23/2020	MW-28A	NT	NT	ND	NT	NT	
1/30/2012	7/23/2020	MW-32AR	NT	PD	NT	D	NT	
1/22/2009	8/18/2020	MW-33A	PD	NT	D	PD	D	
1/22/2009	7/22/2020	MW-35A	NT	NT	NT	NT	NT	
1/22/2009	8/18/2020	MW-36A	PD	ND	ND	NT	D	
1/22/2009	7/20/2020	MW-38A	NT	ND	ND	NT	NT	
1/22/2009	7/22/2020	MW-44A	PD	NT	PD	D	D	
1/22/2009	7/16/2020	MW-49A	D	D	D	D	D	
1/22/2009	7/20/2020	MW-50A	NT	NT	ND	PD	NT	
1/22/2009	7/16/2020	MW-51A	NT	ND	ND	NT	NT	
1/22/2009	7/15/2020	MW-57A	PD	D	D	PD	PD	
1/22/2009	7/15/2020	MW-58A	NT	PD	PD	S	NT	
1/22/2009	7/21/2020	MW-59A	NT	NT	ND	NT	NT	
1/22/2009	7/1/2019	MW-60A	NT	NT	ND	NT	NT	
1/22/2009	7/20/2020	MW-61A	PD	ND	ND	ND	PD	
1/22/2009	7/15/2020	MW-64A	NT	ND	NT	NT	NT	
5/29/2019	7/27/2020	MW-68A	S	NT	ND	NT	S	
6/22/2010	7/21/2020	MW-69A	D	NT	ND	D	NT	
7/2/2014	7/20/2020	MW-77A	NT	NT	NT	S	S	
7/2/2014	7/20/2020	MW-78A	NT	S	NT	NT	S	
8/28/2014	7/21/2020	MW-79A	PD	S	NT	D	S	
1/22/2009	7/15/2020	MW-14	D	NT	ND	D	D	
1/30/2012	7/14/2020	MW-15B	NT	ND	S	D	D	
1/23/2018	7/20/2020	MW-22BR	D	ND	ND	D	D	
1/30/2012	7/27/2020	MW-32B	NT	NT	NT	NT	PI	
1/9/2013	7/27/2020	MW-33BR	PD	PI	NT	NT	NT	
1/22/2009	7/22/2020	MW-35B	D	PI	S	D	PD	
6/22/2010	7/28/2020	MW-36B	I	NT	D	NT	PI	
1/22/2009	7/20/2020	MW-38B	NT	NT	ND	I	NT	
1/22/2009	7/16/2020	MW-39B	NT	ND	ND	NT	NT	
1/22/2009	7/16/2020	MW-40B	D	D	D	PD	D	
1/13/2010	7/16/2020	MW-42B	NT	NT	ND	D	PD	
1/22/2009	7/21/2020	MW-49B	I	I	I	I	I	
1/30/2012	7/15/2020	MW-57B	PD	S	D	S	PD	
6/22/2010	7/21/2020	MW-59B	ND	NT	S	ND	S	

NOTES:
 NT - No trend
 ND - all Non-detects
 D - Decreasing (green)
 PD - Probably decreasing (yellow)
 S - Stable (blue)
 PI - Probably increasing (pink)
 I - Increasing (red)

Table D-1

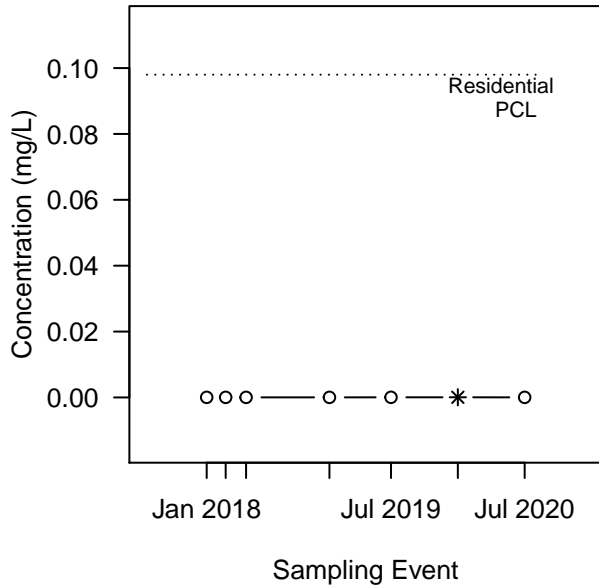
Summary of Mann-Kendall Trend Tests
Houston Wood Preserving Works

Date Range		Well	2-Methylnaphthalene	2,4-Dimethylphenol	Benzene	Dibenzofuran	Naphthalene	COMMENT	
1/22/2009	7/16/2020	MW-62B	NT	ND	NT	NT	NT	DNAPL observed in well	
1/13/2010	7/23/2020	MW-63B	D	NT	NT	D	NT		
6/22/2010	7/22/2020	MW-67B	NT	NT	ND	S	NT		
1/30/2012	7/27/2020	MW-68B	NT	PD	D	NT	S		
7/10/2012	7/23/2020	MW-70B	I	NT	NT	NT	NT		
1/30/2012	7/23/2020	MW-71B	NT	NT	NT	NT	NT		
7/10/2012	7/14/2020	MW-72B	D	NT	D	D	D		
1/30/2012	7/21/2020	MW-74B	NT	D	NT	NT	NT		
1/30/2012	7/21/2020	MW-75B	NT	NT	D	NT	NT		
8/28/2014	7/20/2020	MW-80B	PD	NT	PD	NT	NT		
7/2/2014	7/20/2020	MW-81B	PI	PI	NT	ND	PI		
1/23/2018	7/20/2020	MW-82B	NT	ND	ND	NT	NT		
1/23/2018	7/22/2020	MW-83B	D	I	NT	D	D		
1/23/2018	7/27/2020	MW-84B	D	NT	S	D	D		
7/18/2018	7/22/2020	MW-89B	S	ND	ND	ND	NT		
7/18/2018	7/22/2020	MW-90B	NT	NT	ND	NT	NT		
1/22/2009	7/16/2020	P-11	NT	ND	NT	NT	NT		
1/13/2010	7/17/2020	TW-41B	I	NT	I	I	I		DNAPL observed in wells nearby
1/22/2009	7/17/2020	MW-12C	S	NT	ND	NT	D		DNAPL observed in well
1/22/2009	7/14/2020	MW-15C	PD	NT	D	D	NT		
1/22/2009	7/14/2020	MW-17C	NT	NT	D	PD	NT		
1/22/2009	7/14/2020	MW-18C	S	NT	PD	S	S		
1/22/2009	7/14/2020	MW-19C	D	NT	PI	NT	D		
1/22/2009	7/16/2020	MW-21C	NT	NT	ND	PI	NT		
1/22/2009	7/14/2020	MW-23C	NT	NT	PD	NT	NT		
1/13/2010	7/22/2020	MW-25C	D	I	D	D	D		
1/22/2009	8/18/2020	MW-27C	NT	ND	ND	NT	PD		
1/22/2009	7/28/2020	MW-28C	D	D	ND	S	D		
7/2/2014	8/18/2020	MW-34CR	NT	ND	NT	NT	NT		
7/12/2011	8/18/2020	MW-44C	NT	NT	NT	NT	NT		
1/22/2009	7/16/2020	MW-47C	NT	NT	ND	NT	NT		
1/22/2009	7/16/2020	MW-48C	NT	NT	ND	D	PD		
7/2/2014	7/16/2020	MW-51C	ND	PI	PD	PI	S		
1/22/2009	7/23/2020	MW-53C	NT	ND	ND	PI	NT		
1/22/2009	7/22/2020	MW-54C	PD	S	ND	S	D		
6/22/2010	7/27/2020	MW-68C	NT	NT	D	NT	D		
7/2/2014	7/20/2020	MW-76C	D	NT	S	D	NT		
1/23/2018	7/22/2020	MW-83C	NT	NT	ND	S	NT		
1/23/2018	7/16/2020	MW-85C	D	ND	NT	NT	NT		
1/23/2018	7/16/2020	MW-86C	NT	NT	ND	ND	NT		
1/23/2018	7/23/2020	MW-87C	NT	ND	ND	NT	NT		
1/23/2018	7/15/2020	MW-88C	NT	ND	ND	S	NT		
6/22/2010	7/29/2020	MW-36D	NT	ND	S	NT	NT		
1/22/2009	8/3/2020	MW-59D	NT	ND	NT	NT	NT		
1/22/2009	7/29/2020	MW-65D	NT	ND	S	S	NT		
1/22/2009	8/3/2020	MW-66D	PD	ND	ND	NT	NT		

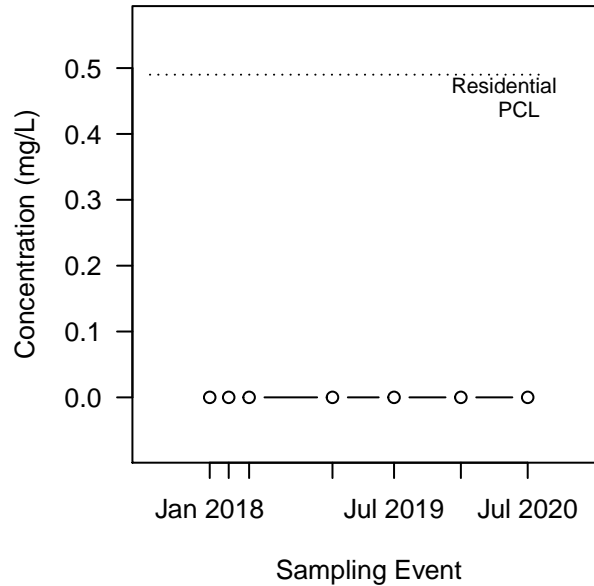
NOTES:
 NT - No trend
 ND - all Non-detects
 D - Decreasing (green)
 PD - Probably decreasing (yellow)
 S - Stable (blue)
 PI - Probably increasing (pink)
 I - Increasing (red)

Mann-Kendall Trend Tests for MW-03

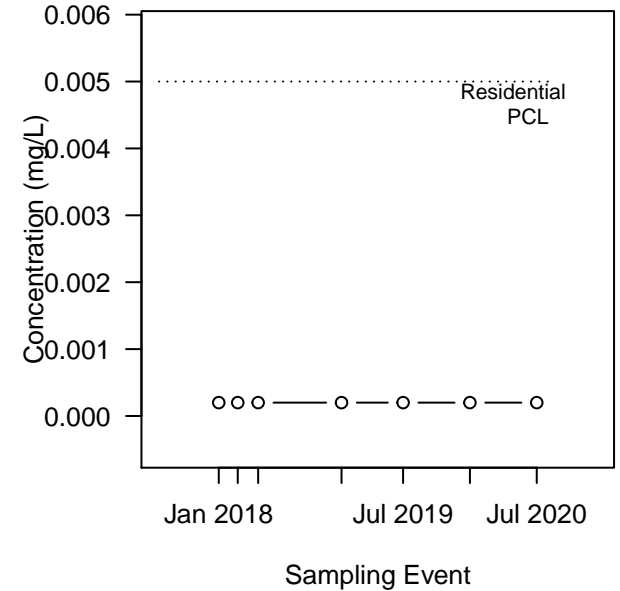
2-Methylnaphthalene (Det/N = 1/7)
No Trend
(p-value=0.227 and CV=0.43)



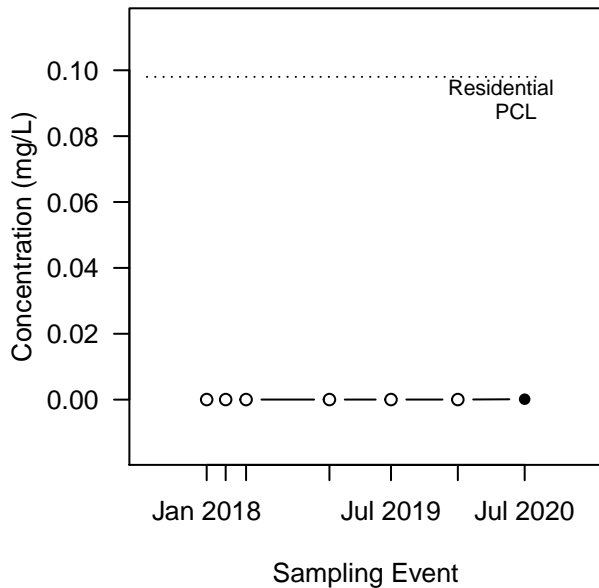
2,4-Dimethylphenol (Det/N = 0/7)
Not evaluated (all concentrations are identical)



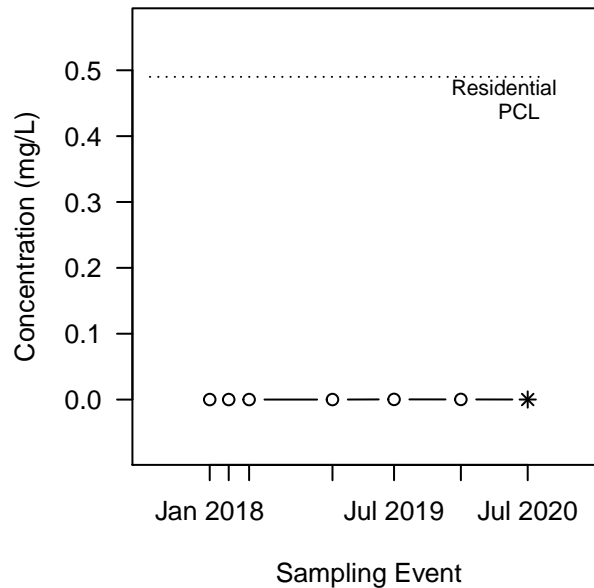
Benzene (Det/N = 0/7)
Not evaluated (all concentrations are identical)



Dibenzofuran (Det/N = 1/7)
No Trend
(p-value=0.106 and CV=1.2)



Naphthalene (Det/N = 1/7)
No Trend
(p-value=0.106 and CV=1.2)

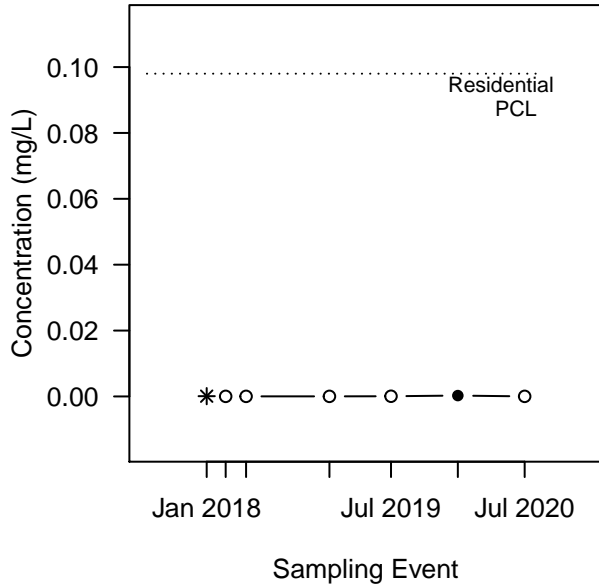


LEGEND:
 Concentration
 ● DET
 * DET, J-flagged
 ○ ND (DL plotted)

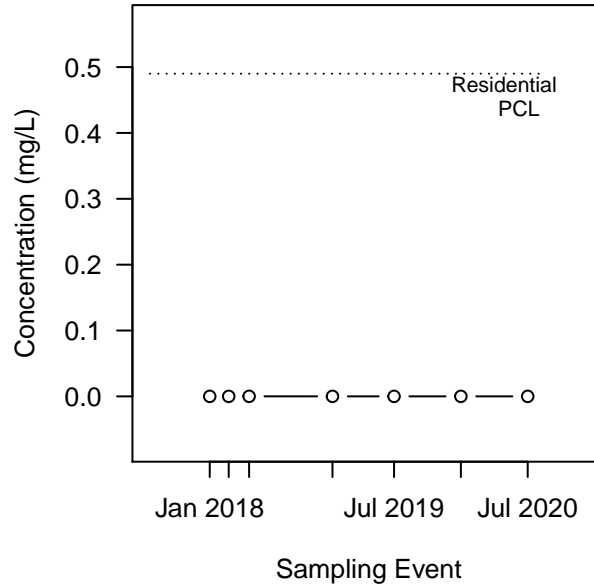
NOTE: A p-value<0.05 indicates a statistically significant trend.
 A p-value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann-Kendall Trend Tests for MW-04

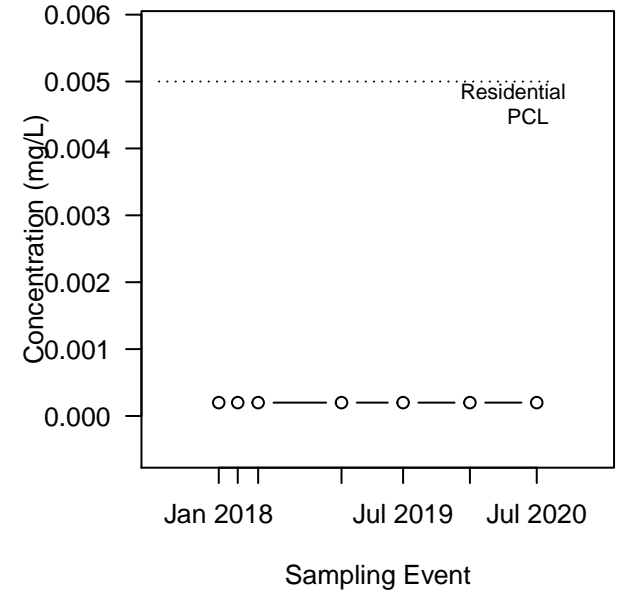
2-Methylnaphthalene (Det/N = 2/7)
No Trend
(p-value=0.5 and CV=1.3)



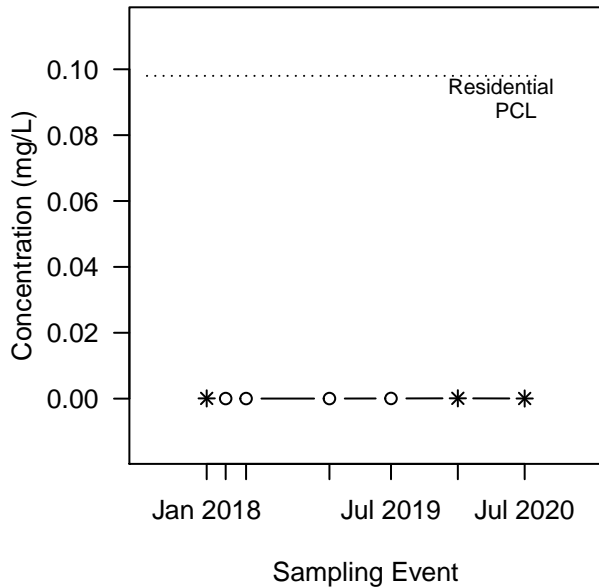
2,4-Dimethylphenol (Det/N = 0/7)
Not evaluated - All NDs



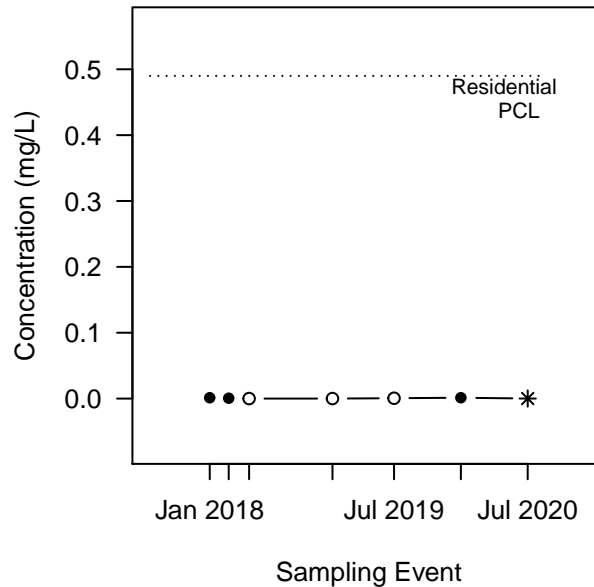
Benzene (Det/N = 0/7)
Not evaluated (all concentrations are identical)



Dibenzofuran (Det/N = 3/7)
No Trend
(p-value=0.369 and CV=0.65)



Naphthalene (Det/N = 4/7)
No Trend
(p-value=0.375 and CV=1)

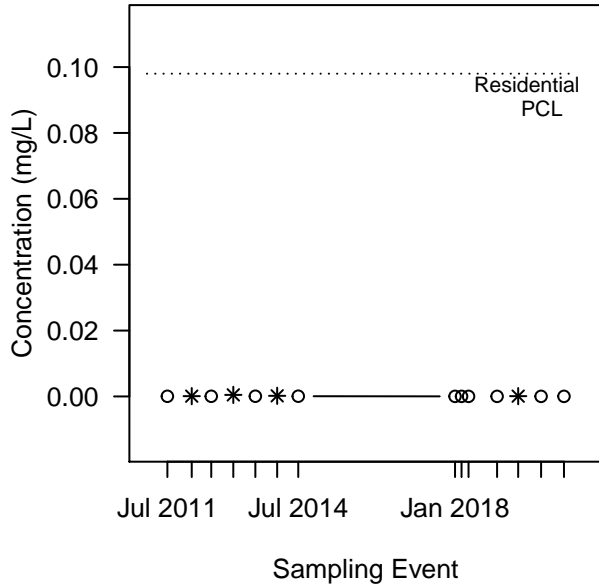


LEGEND:
 Concentration
 ● DET
 * DET, J-flagged
 ○ ND (DL plotted)

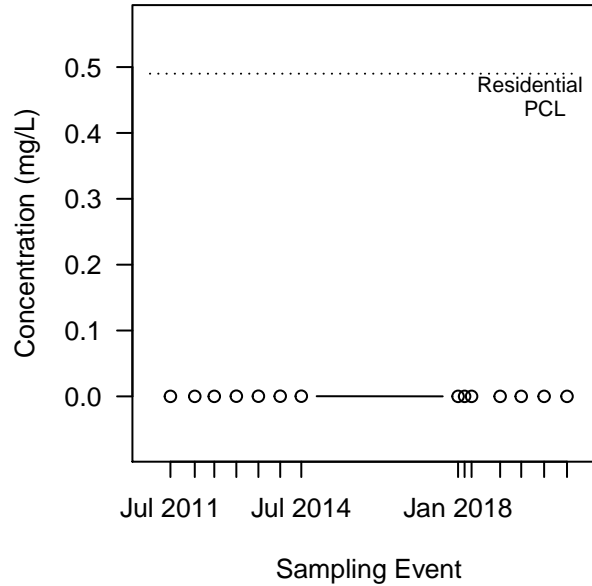
NOTE: A p-value < 0.05 indicates a statistically significant trend.
 A p-value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann-Kendall Trend Tests for MW-05

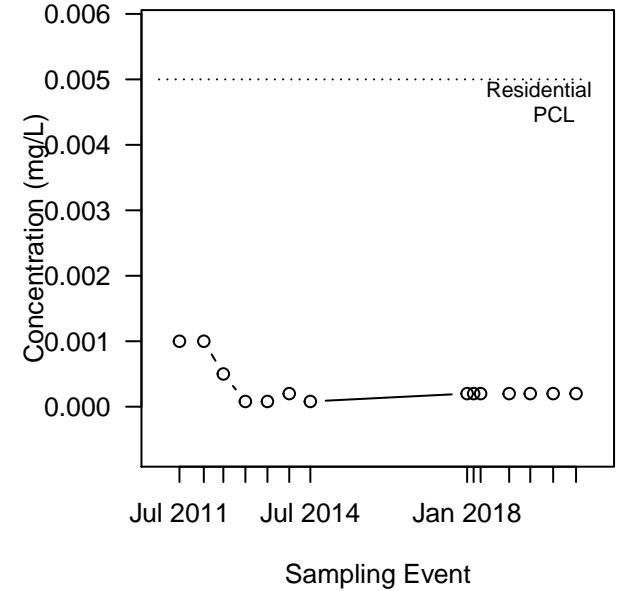
2-Methylnaphthalene (Det/N = 4/14)
No Trend
(p-value=0.223 and CV=1.4)



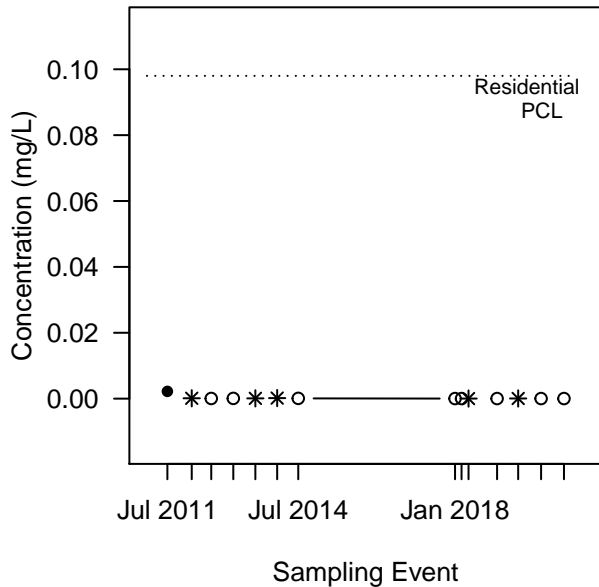
2,4-Dimethylphenol (Det/N = 0/14)
Not evaluated – All NDs



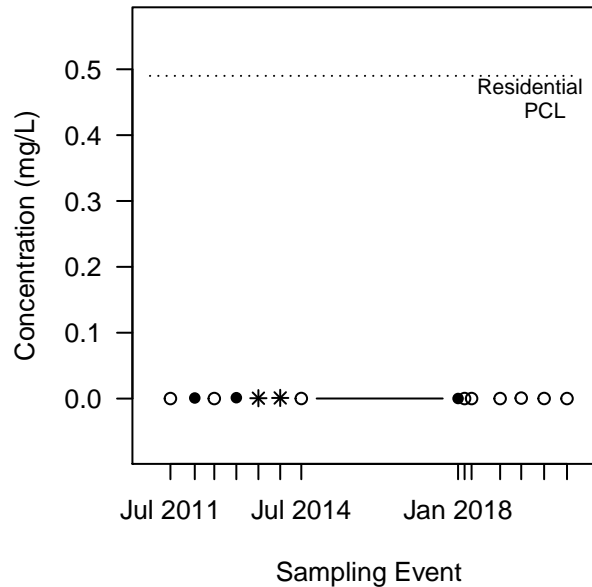
Benzene (Det/N = 0/14)
Not evaluated – All NDs



Dibenzofuran (Det/N = 6/14)
Probably Decreasing
(p-value=0.0562 and CV=2.7)



Naphthalene (Det/N = 5/14)
Decreasing
(p-value=0.0358 and CV=1.2)

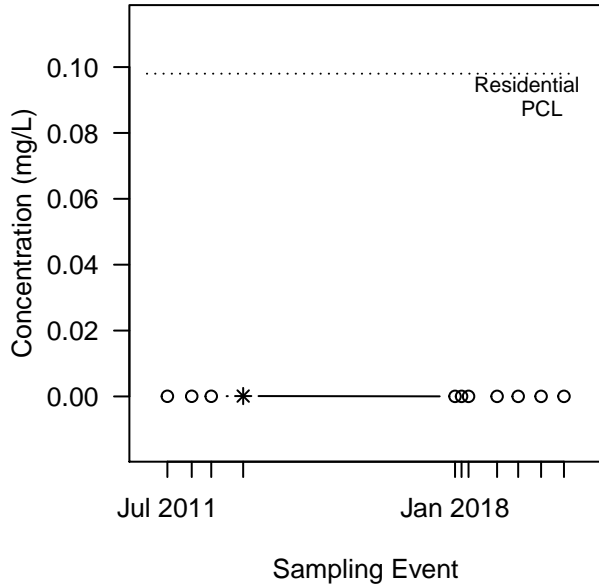


LEGEND:
 Concentration
 ● DET
 * DET, J-flagged
 ○ ND (DL plotted)

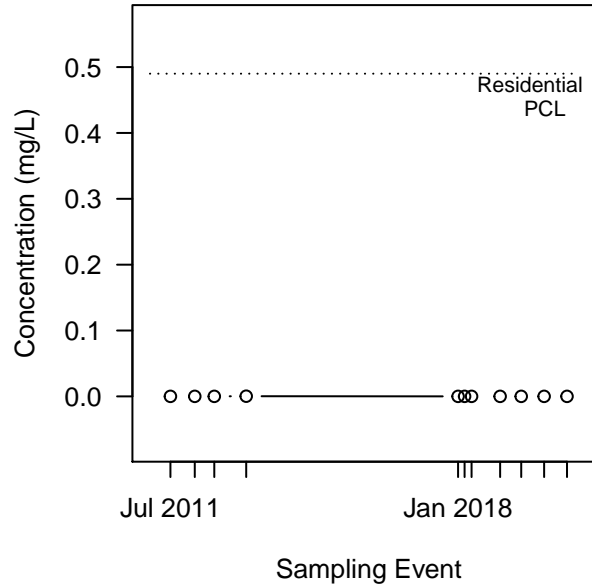
NOTE: A p-value < 0.05 indicates a statistically significant trend.
 A p-value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann-Kendall Trend Tests for MW-09

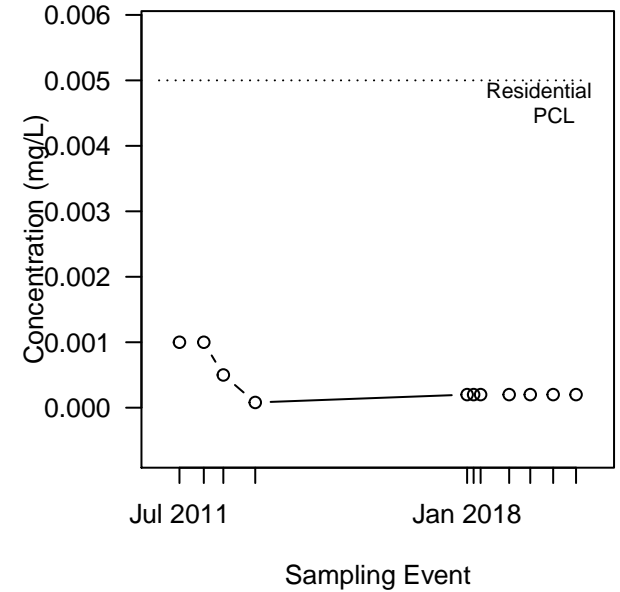
2-Methylnaphthalene (Det/N = 1/11)
Stable
(p-value=0.318 and CV=0.82)



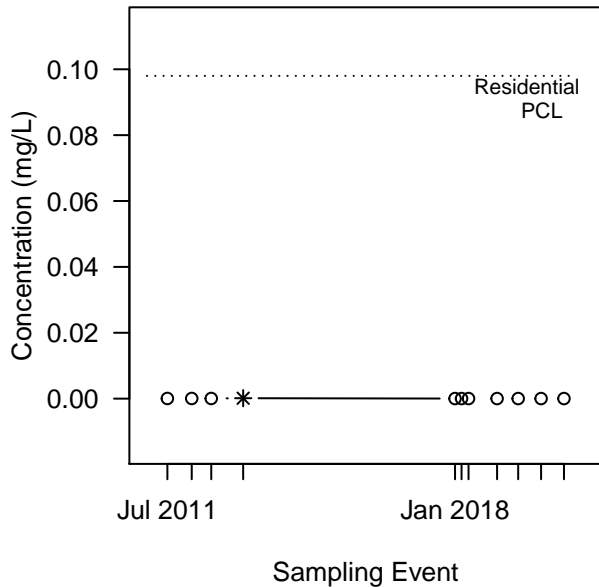
2,4-Dimethylphenol (Det/N = 0/11)
Not evaluated – All NDs



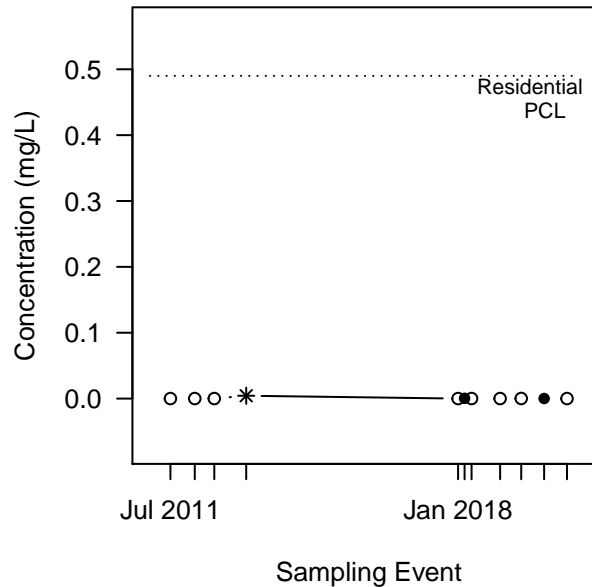
Benzene (Det/N = 0/11)
Not evaluated – All NDs



Dibenzofuran (Det/N = 1/11)
Stable
(p-value=0.318 and CV=0.85)



Naphthalene (Det/N = 3/11)
No Trend
(p-value=0.5 and CV=2.7)

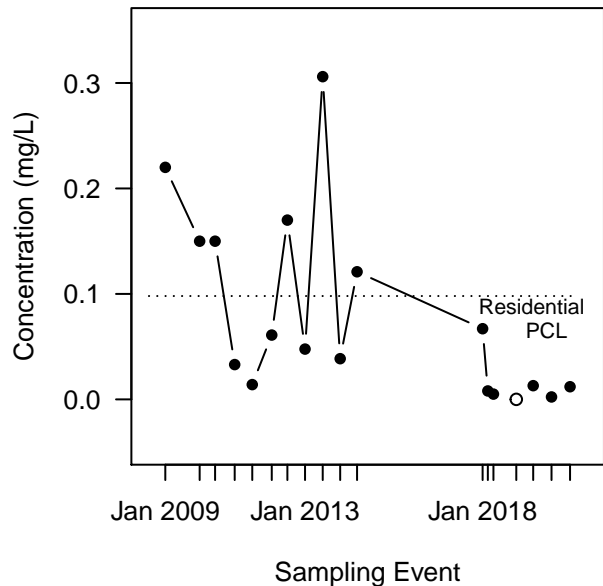


LEGEND:
 Concentration
 ● DET
 * DET, J-flagged
 ○ ND (DL plotted)

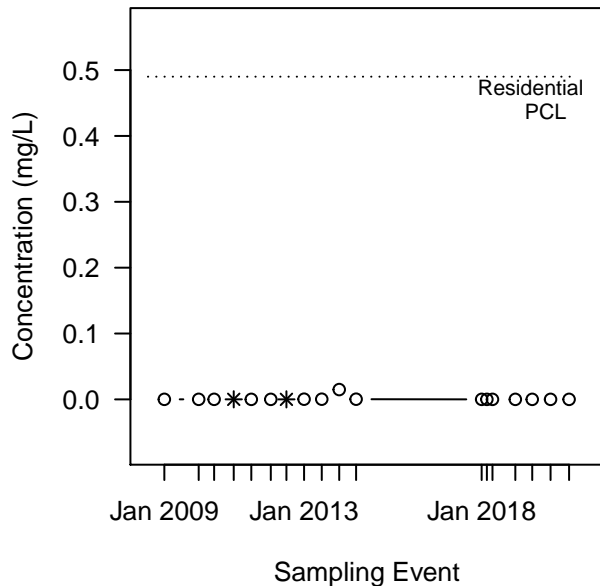
NOTE: A p-value < 0.05 indicates a statistically significant trend.
 A p-value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann–Kendall Trend Tests for MW–12A

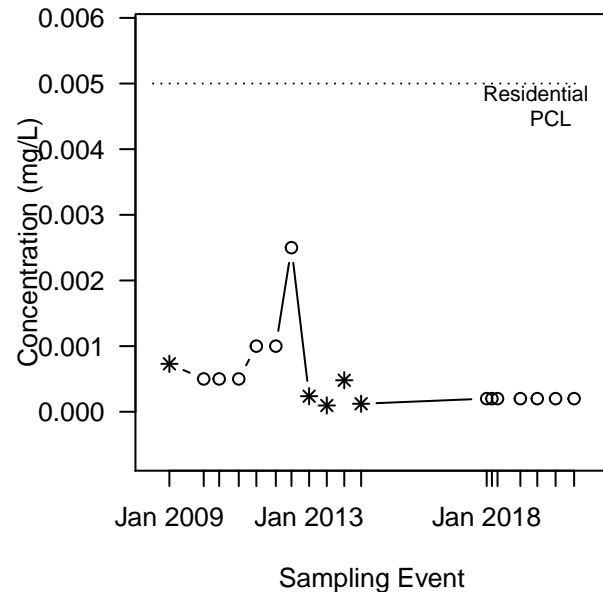
2–Methylnaphthalene (Det/N = 17/18)
Decreasing
 (p–value=0.00176 and CV=1.1)



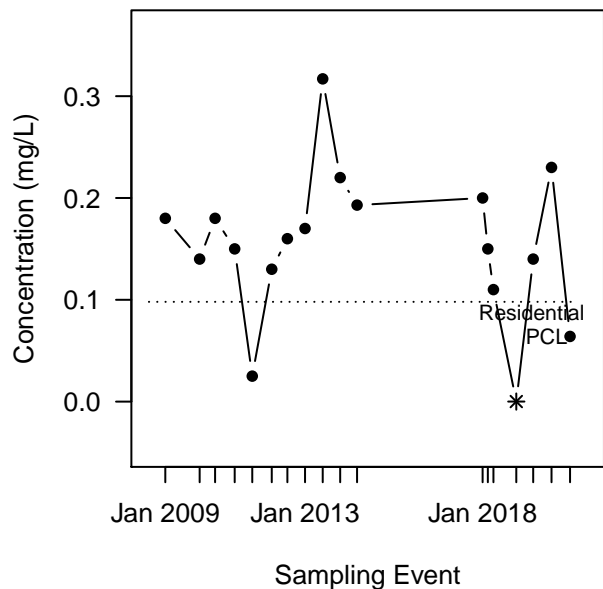
2,4–Dimethylphenol (Det/N = 2/18)
No Trend
 (p–value=0.131 and CV=3.8)



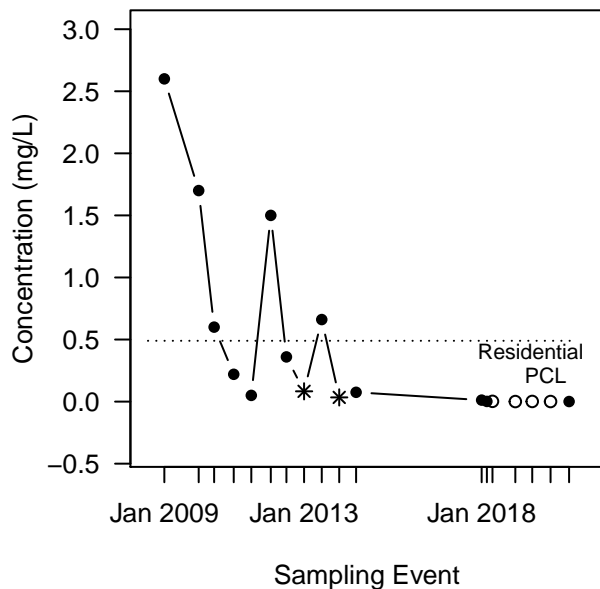
Benzene (Det/N = 5/18)
No Trend
 (p–value=0.167 and CV=1.1)



Dibenzofuran (Det/N = 18/18)
Stable
 (p–value=0.366 and CV=0.48)



Naphthalene (Det/N = 14/18)
Decreasing
 (p–value=9.82e–06 and CV=1.7)

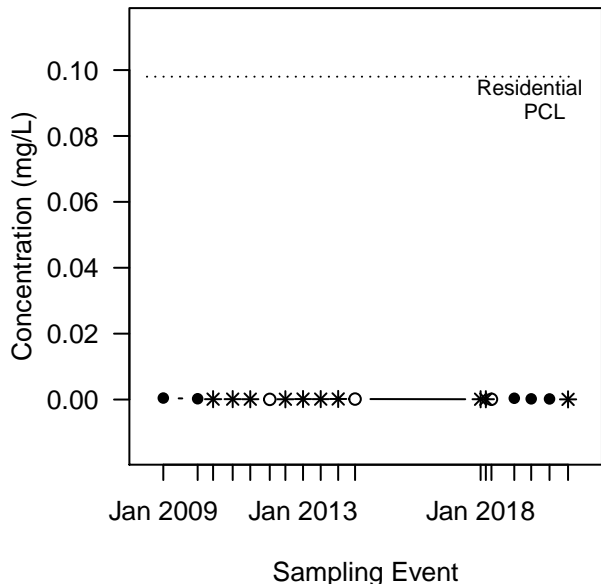


- LEGEND:**
 Concentration
 ● DET
 * DET, J–flagged
 ○ ND (DL plotted)

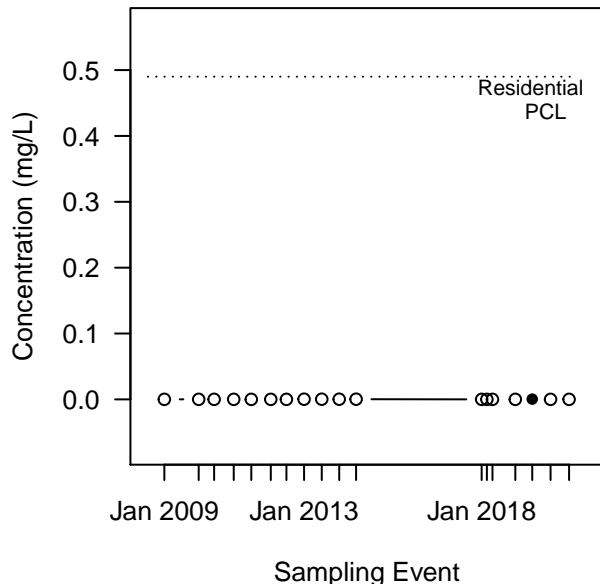
NOTE: A p–value<0.05 indicates a statistically significant trend.
 A p–value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann-Kendall Trend Tests for MW-12C

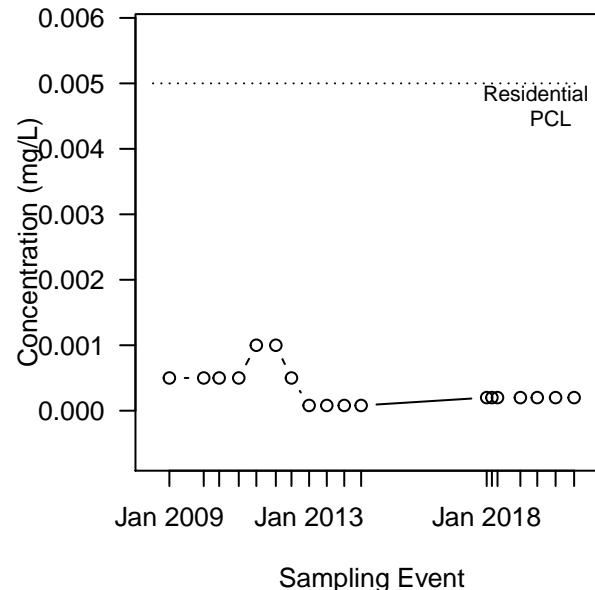
2-Methylnaphthalene (Det/N = 15/18)
Stable
(p-value=0.259 and CV=0.69)



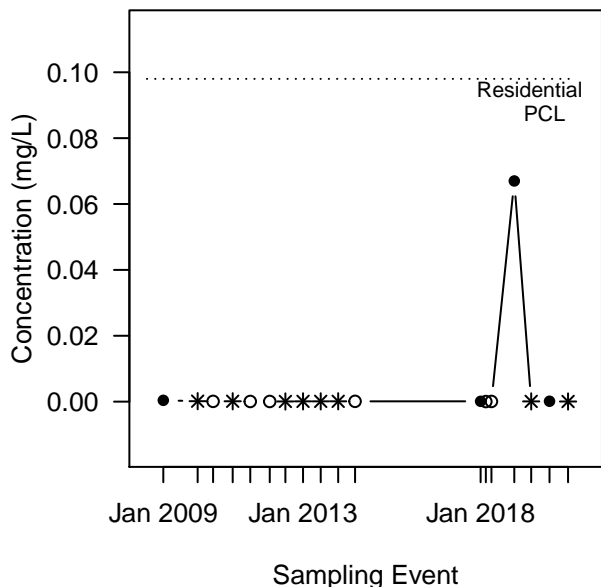
2,4-Dimethylphenol (Det/N = 1/18)
No Trend
(p-value=0.124 and CV=0.99)



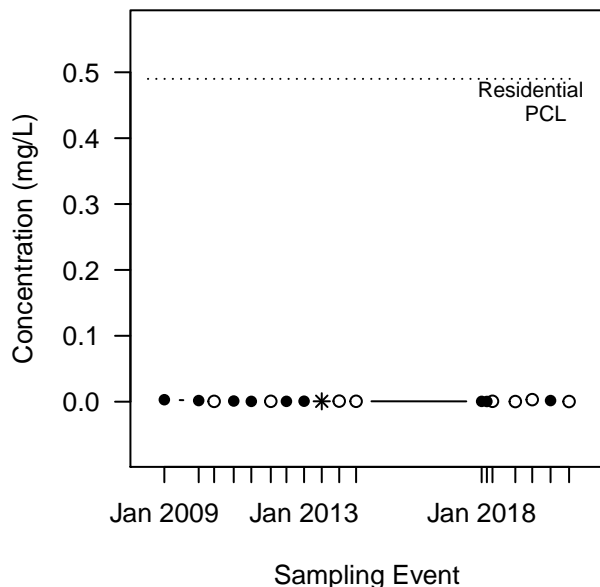
Benzene (Det/N = 0/18)
Not evaluated - All NDs



Dibenzofuran (Det/N = 12/18)
No Trend
(p-value=0.423 and CV=4.1)



Naphthalene (Det/N = 10/18)
Decreasing
(p-value=0.0174 and CV=0.92)

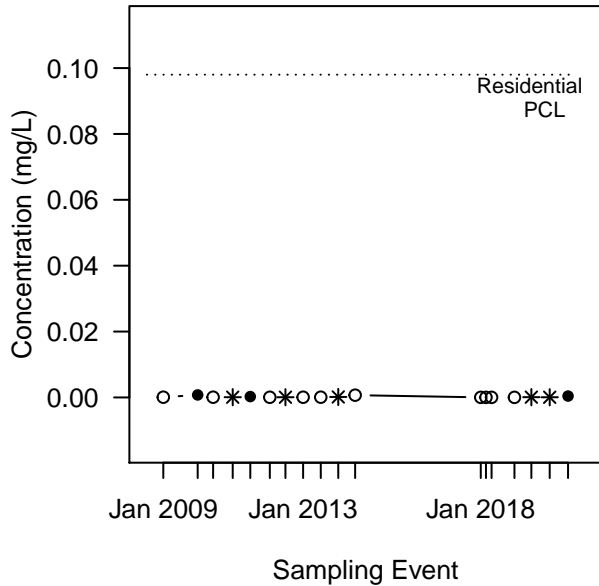


LEGEND:
 Concentration
 ● DET
 * DET, J-flagged
 ○ ND (DL plotted)

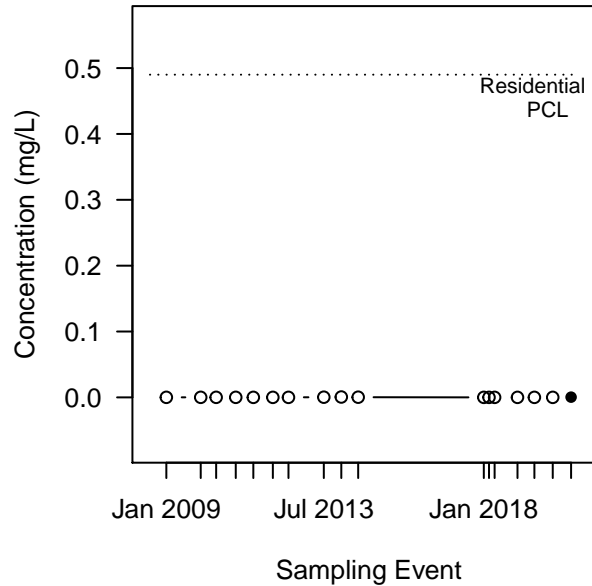
NOTE: A p-value < 0.05 indicates a statistically significant trend.
 A p-value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann-Kendall Trend Tests for MW-13

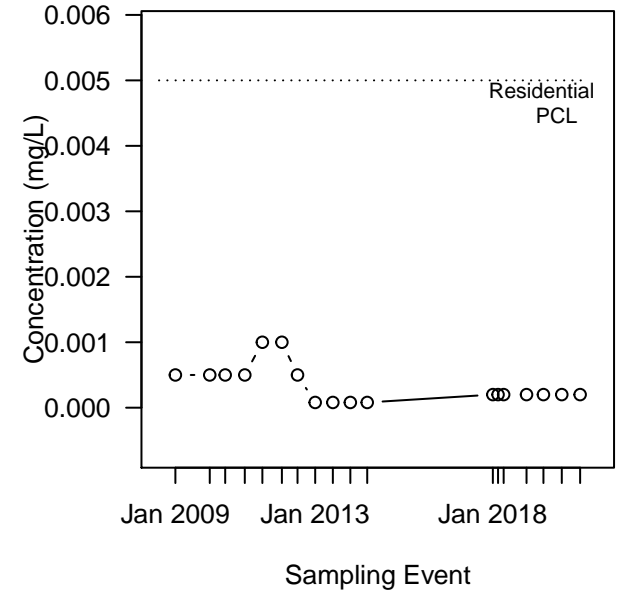
2-Methylnaphthalene (Det/N = 8/18)
No Trend
(p-value=0.5 and CV=1.4)



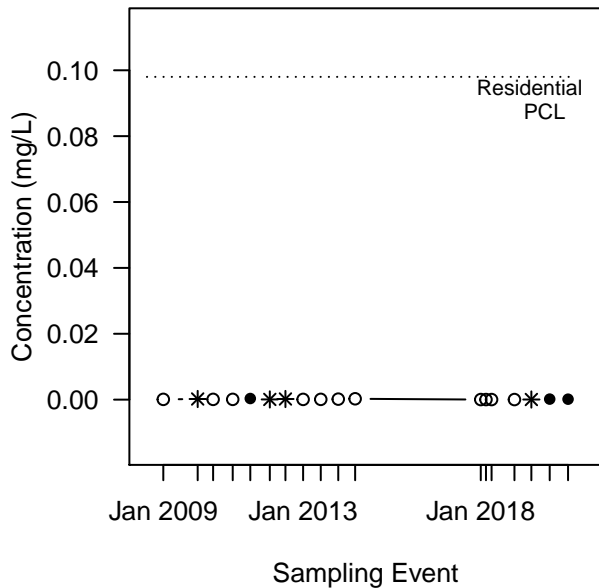
2,4-Dimethylphenol (Det/N = 1/17)
Probably Increasing
(p-value=0.0629 and CV=1.2)



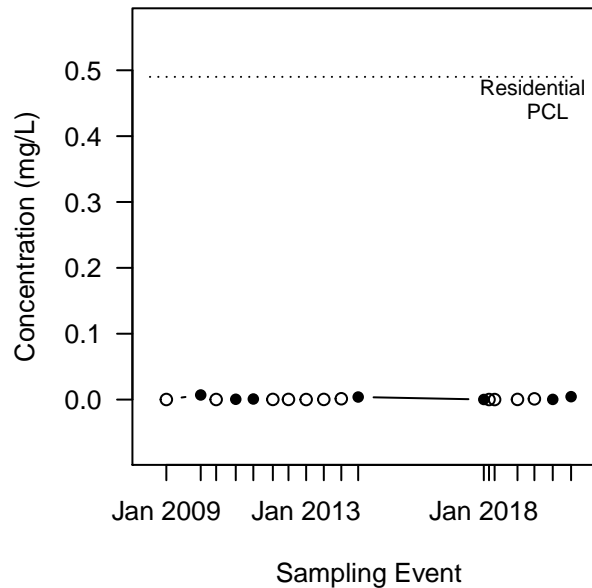
Benzene (Det/N = 0/18)
Not evaluated - All NDs



Dibenzofuran (Det/N = 7/18)
No Trend
(p-value=0.5 and CV=0.81)



Naphthalene (Det/N = 7/18)
No Trend
(p-value=0.483 and CV=1.7)

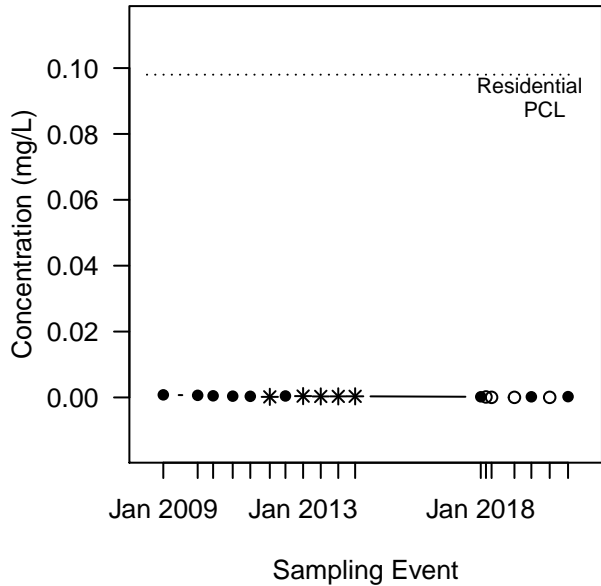


LEGEND:
 Concentration
 ● DET
 * DET, J-flagged
 ○ ND (DL plotted)

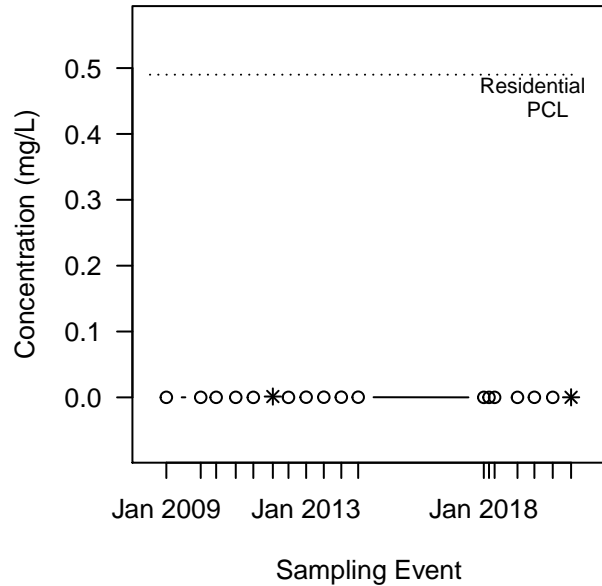
NOTE: A p-value < 0.05 indicates a statistically significant trend.
 A p-value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann-Kendall Trend Tests for MW-14

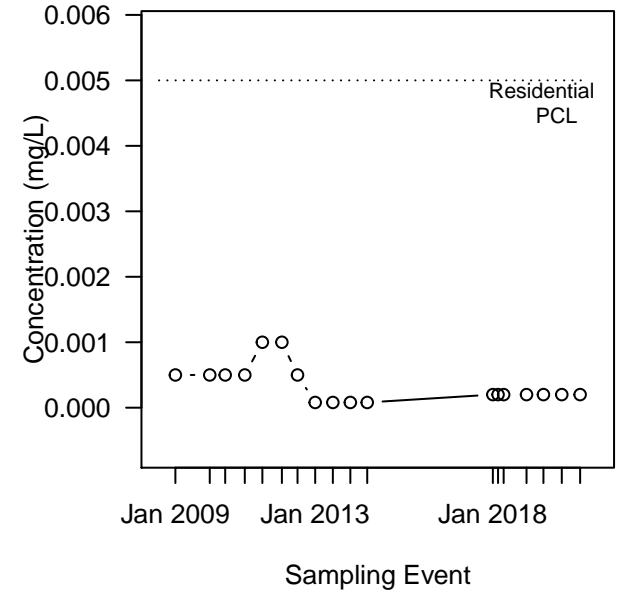
2-Methylnaphthalene (Det/N = 14/18)
Decreasing
(p-value=0.000108 and CV=0.69)



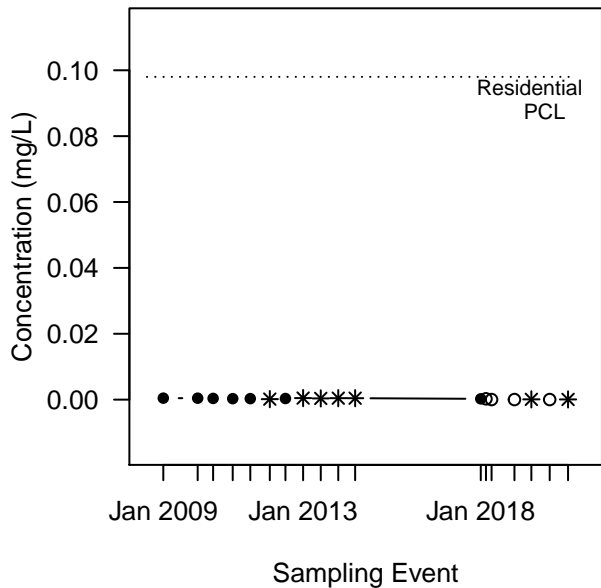
2,4-Dimethylphenol (Det/N = 2/18)
No Trend
(p-value=0.288 and CV=1.6)



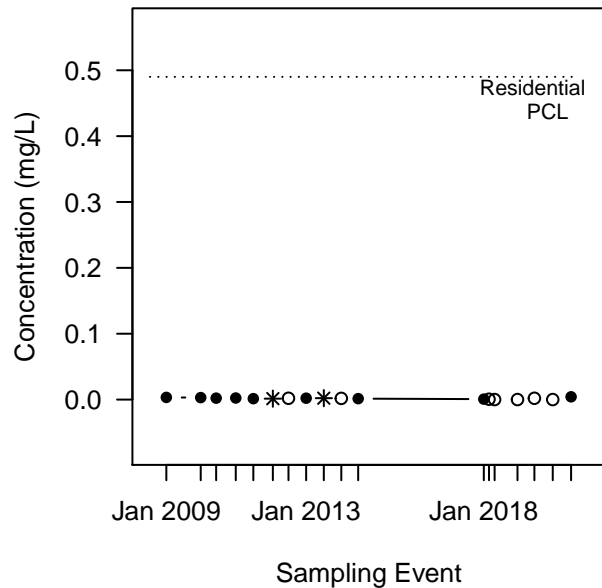
Benzene (Det/N = 0/18)
Not evaluated - All NDs



Dibenzofuran (Det/N = 14/18)
Decreasing
(p-value=0.00303 and CV=0.62)



Naphthalene (Det/N = 11/18)
Decreasing
(p-value=0.00386 and CV=0.68)

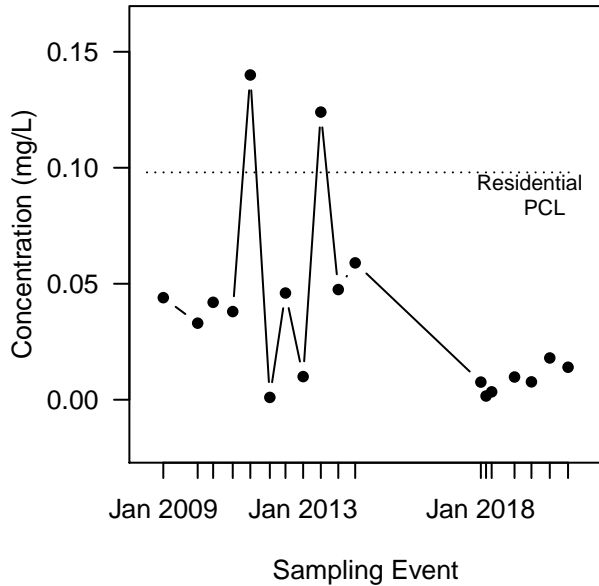


LEGEND:
 Concentration
 ● DET
 * DET, J-flagged
 ○ ND (DL plotted)

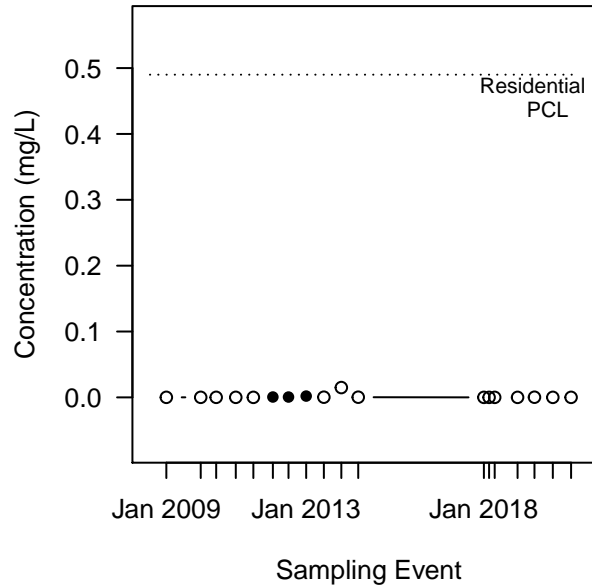
NOTE: A p-value < 0.05 indicates a statistically significant trend.
 A p-value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann-Kendall Trend Tests for MW-15A

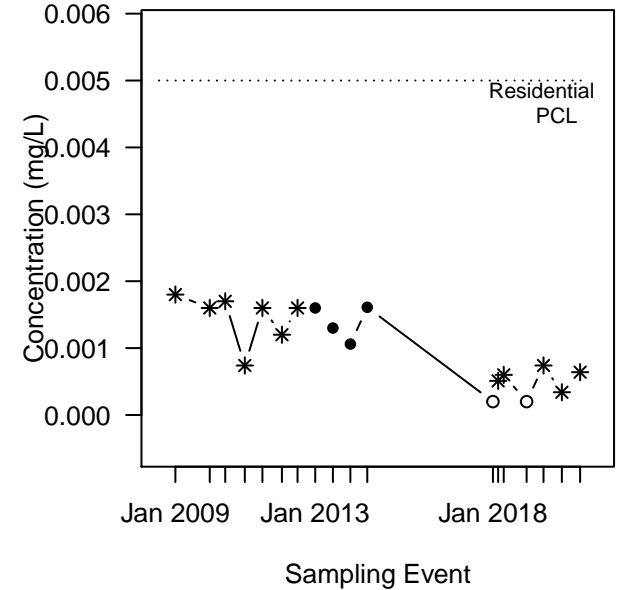
2-Methylnaphthalene (Det/N = 18/18)
No Trend
 (p-value=0.113 and CV=1.1)



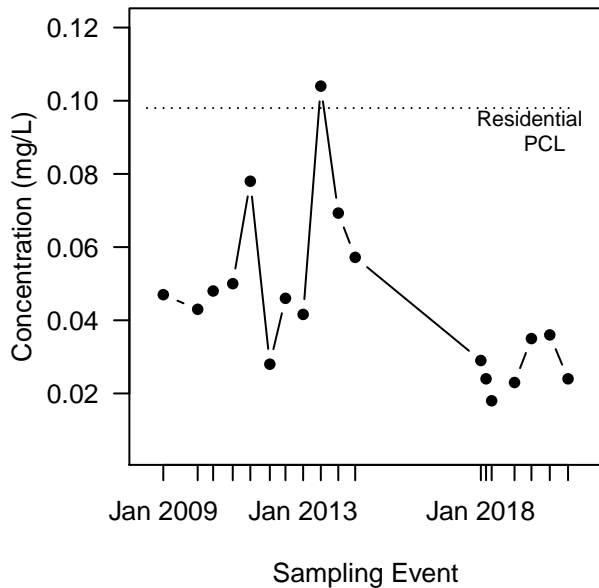
2,4-Dimethylphenol (Det/N = 3/18)
No Trend
 (p-value=0.222 and CV=3.2)



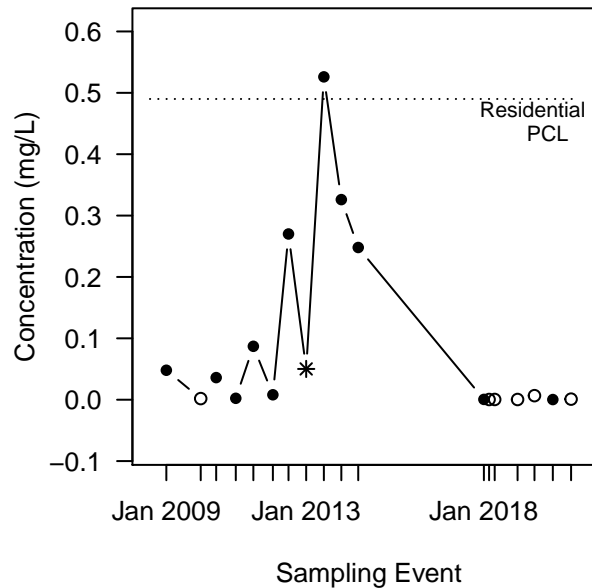
Benzene (Det/N = 16/18)
Decreasing
 (p-value=0.00113 and CV=0.53)



Dibenzofuran (Det/N = 18/18)
Decreasing
 (p-value=0.0223 and CV=0.49)



Naphthalene (Det/N = 12/18)
Probably Decreasing
 (p-value=0.0564 and CV=1.7)

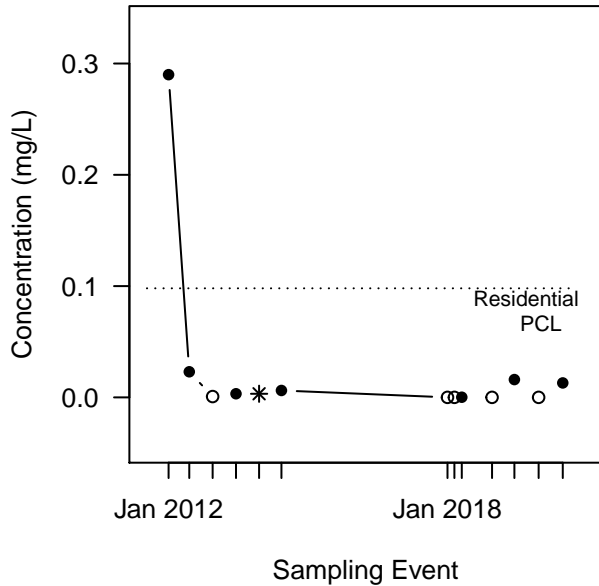


LEGEND:
 Concentration
 ● DET
 * DET, J-flagged
 ○ ND (DL plotted)

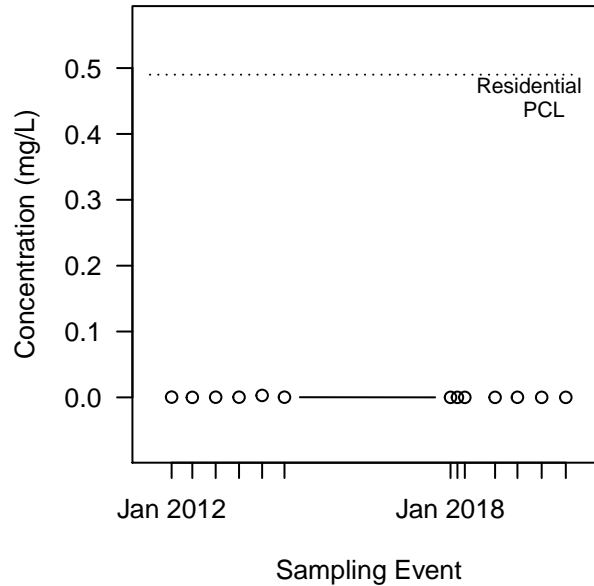
NOTE: A p-value<0.05 indicates a statistically significant trend.
 A p-value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann-Kendall Trend Tests for MW-15B

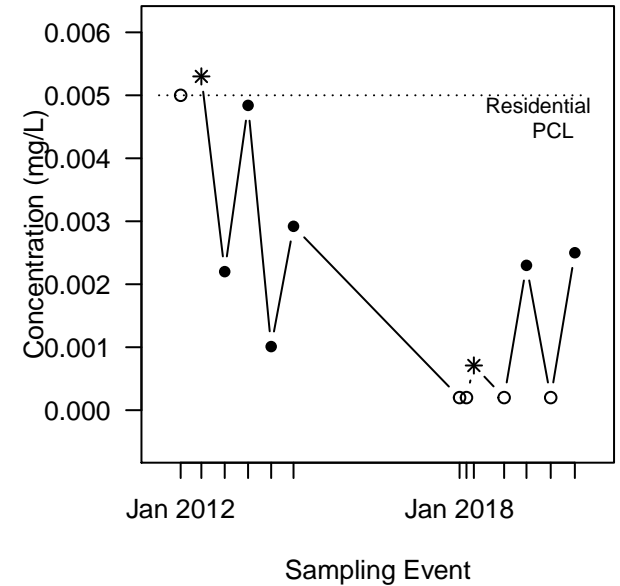
2-Methylnaphthalene (Det/N = 8/13)
No Trend
 (p-value=0.142 and CV=2.9)



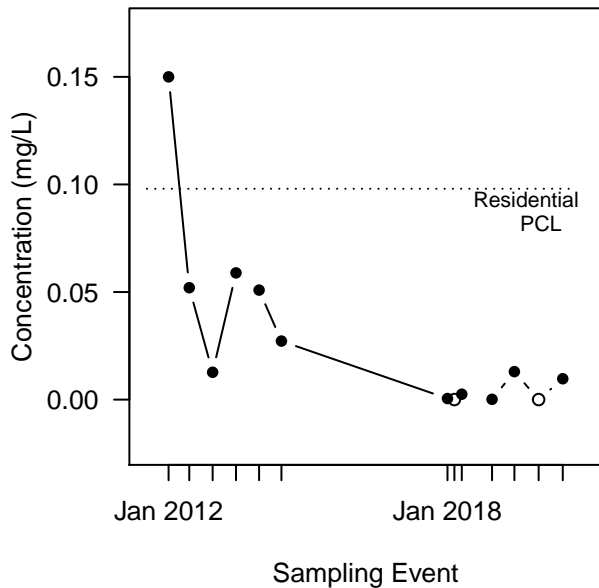
2,4-Dimethylphenol (Det/N = 0/13)
Not evaluated - All NDs



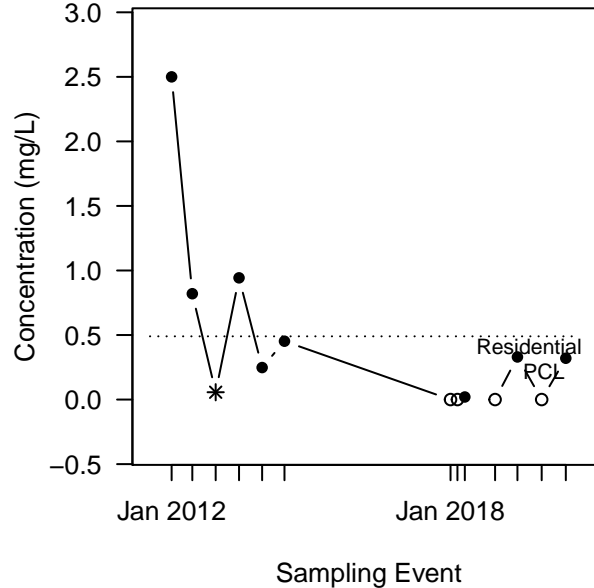
Benzene (Det/N = 8/13)
Stable
 (p-value=0.206 and CV=0.91)



Dibenzofuran (Det/N = 11/13)
Decreasing
 (p-value=0.00513 and CV=1.5)



Naphthalene (Det/N = 9/13)
Decreasing
 (p-value=0.0273 and CV=1.6)

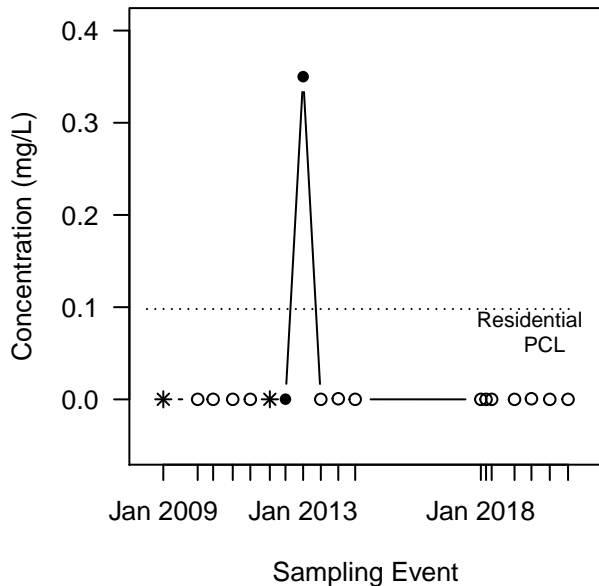


LEGEND:
 Concentration
 ● DET
 * DET, J-flagged
 ○ ND (DL plotted)

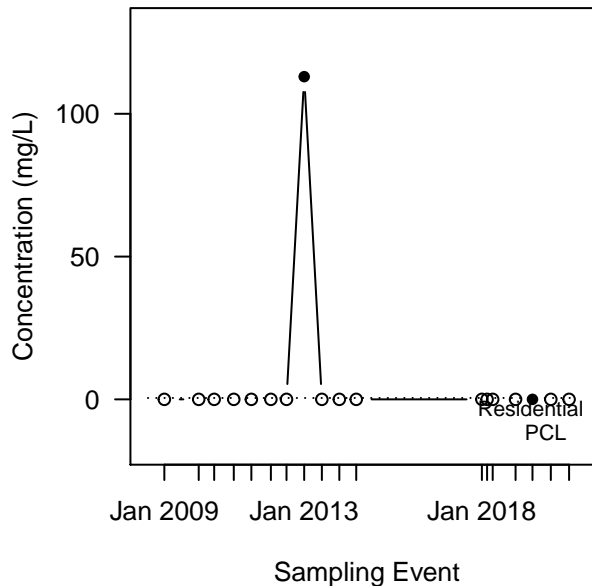
NOTE: A p-value < 0.05 indicates a statistically significant trend.
 A p-value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann-Kendall Trend Tests for MW-15C

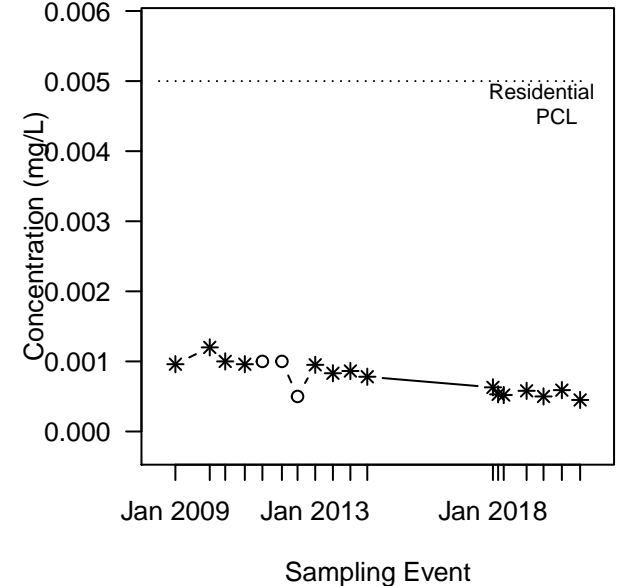
2-Methylnaphthalene (Det/N = 4/18)
Probably Decreasing
 (p-value=0.0948 and CV=4.2)



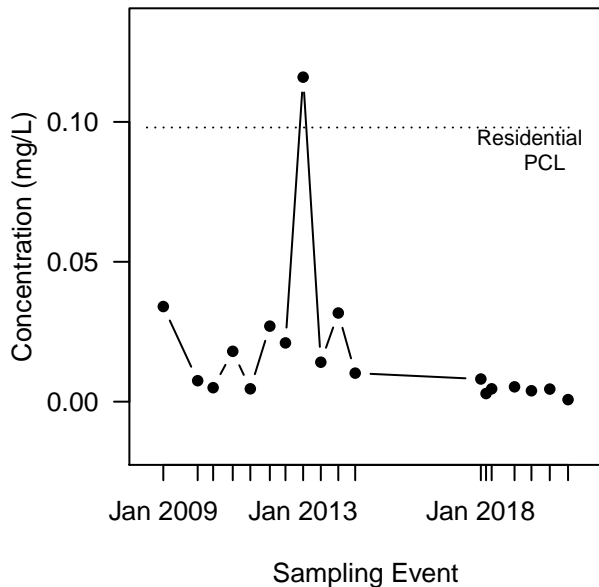
2,4-Dimethylphenol (Det/N = 2/18)
No Trend
 (p-value=0.288 and CV=4.2)



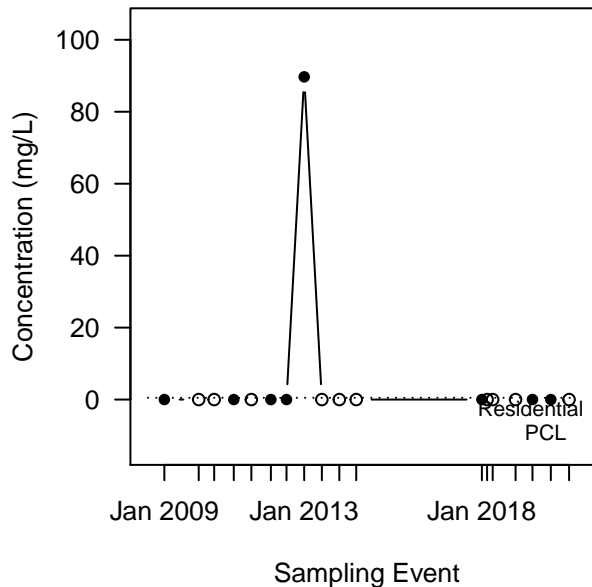
Benzene (Det/N = 15/18)
Decreasing
 (p-value=0.0075 and CV=0.3)



Dibenzofuran (Det/N = 18/18)
Decreasing
 (p-value=0.00446 and CV=1.5)



Naphthalene (Det/N = 8/18)
No Trend
 (p-value=0.323 and CV=4.2)

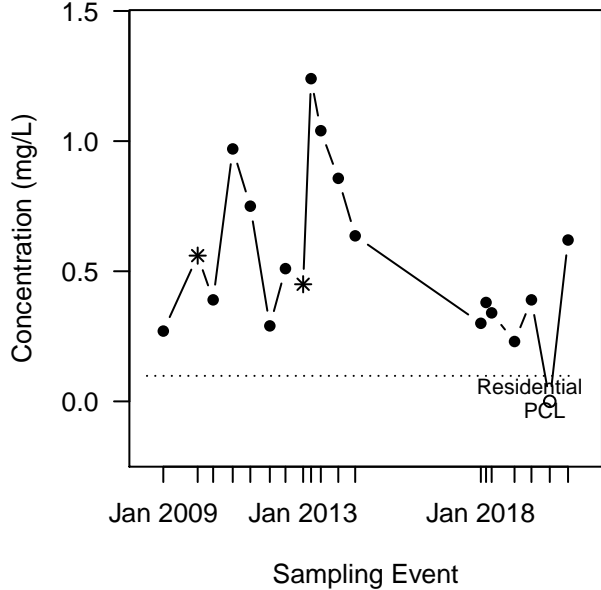


LEGEND:
 Concentration
 ● DET
 * DET, J-flagged
 ○ ND (DL plotted)

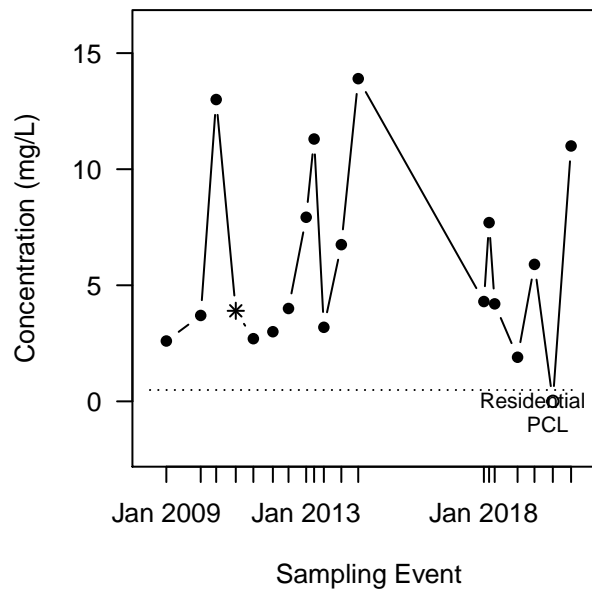
NOTE: A p-value < 0.05 indicates a statistically significant trend.
 A p-value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann-Kendall Trend Tests for MW-17

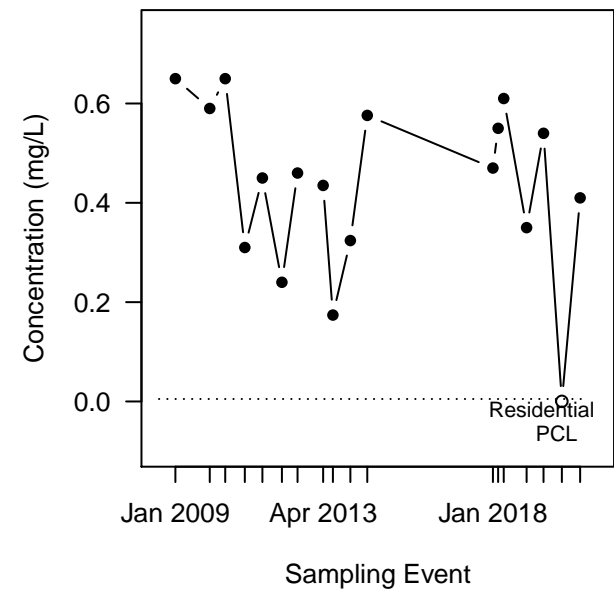
2-Methylnaphthalene (Det/N = 18/19)
Stable
 (p-value=0.155 and CV=0.59)



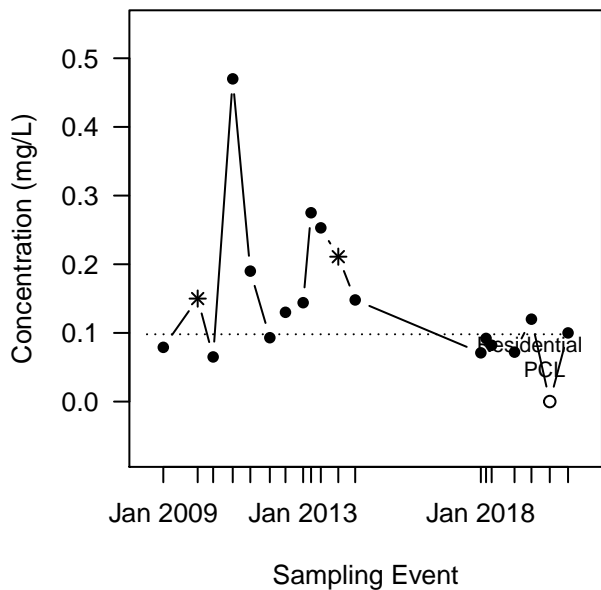
2,4-Dimethylphenol (Det/N = 18/19)
No Trend
 (p-value=0.264 and CV=0.68)



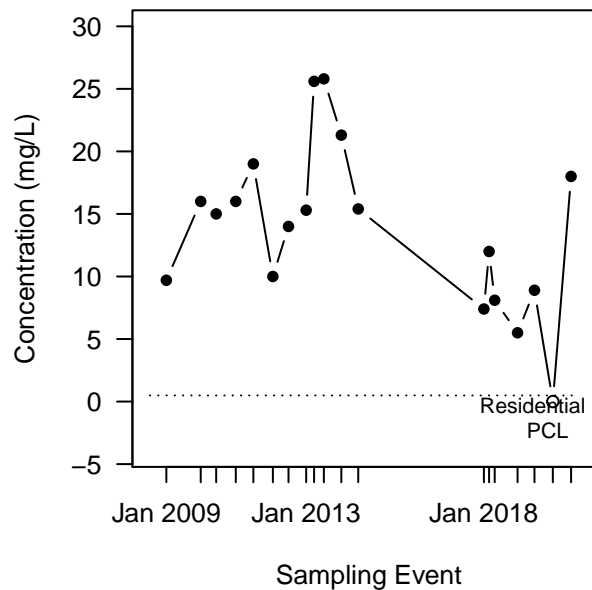
Benzene (Det/N = 17/18)
Stable
 (p-value=0.153 and CV=0.41)



Dibenzofuran (Det/N = 18/19)
Probably Decreasing
 (p-value=0.0918 and CV=0.72)



Naphthalene (Det/N = 18/19)
Probably Decreasing
 (p-value=0.0976 and CV=0.48)

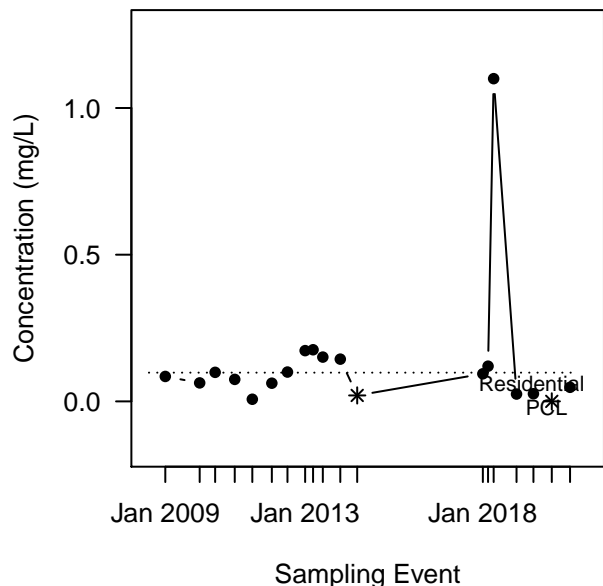


LEGEND:
 Concentration
 ● DET
 * DET, J-flagged
 ○ ND (DL plotted)

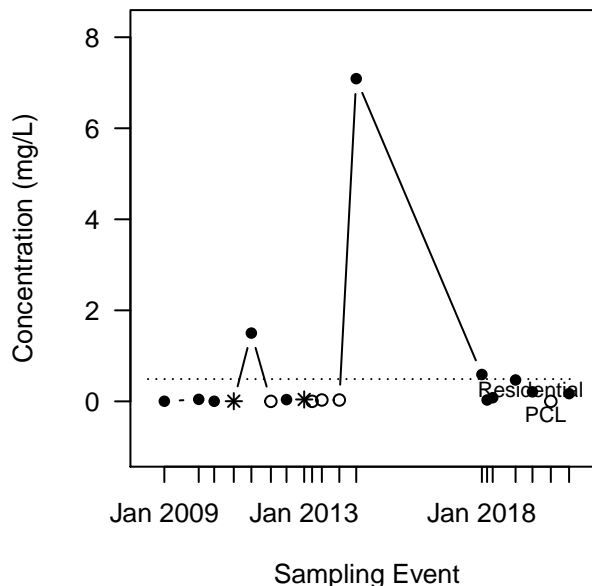
NOTE: A p-value<0.05 indicates a statistically significant trend.
 A p-value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann-Kendall Trend Tests for MW-17C

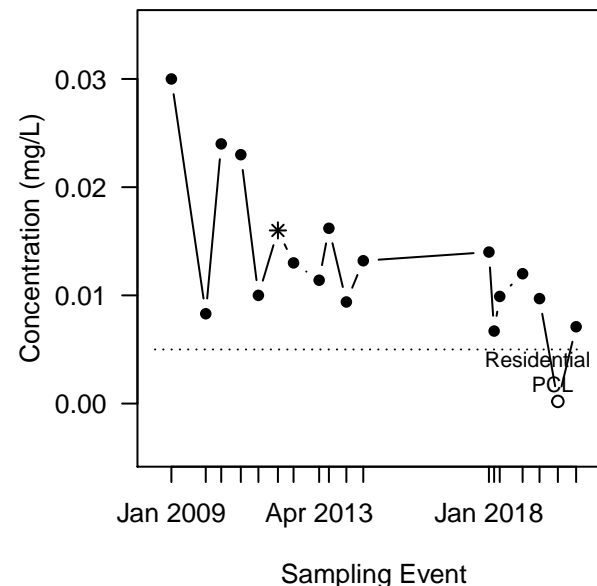
2-Methylnaphthalene (Det/N = 19/19)
No Trend
 (p-value=0.337 and CV=1.8)



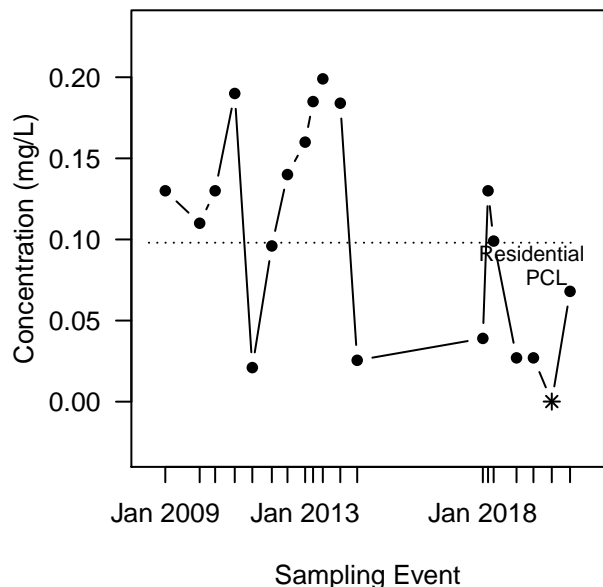
2,4-Dimethylphenol (Det/N = 14/19)
No Trend
 (p-value=0.218 and CV=3)



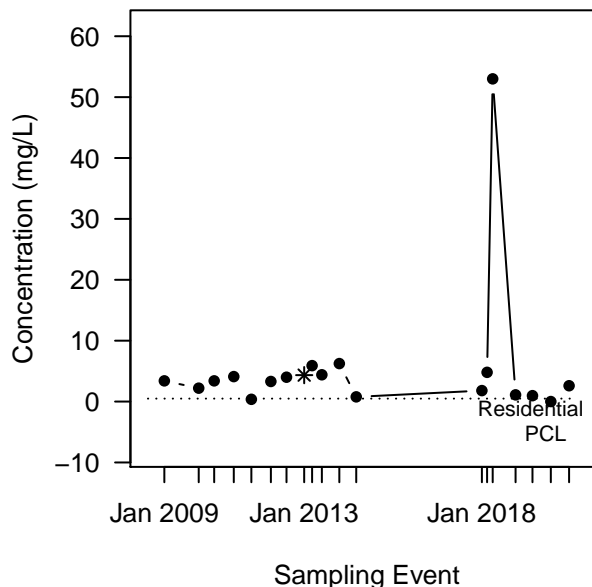
Benzene (Det/N = 17/18)
Decreasing
 (p-value=0.00319 and CV=0.54)



Dibenzofuran (Det/N = 19/19)
Probably Decreasing
 (p-value=0.0613 and CV=0.63)



Naphthalene (Det/N = 19/19)
No Trend
 (p-value=0.458 and CV=2.1)

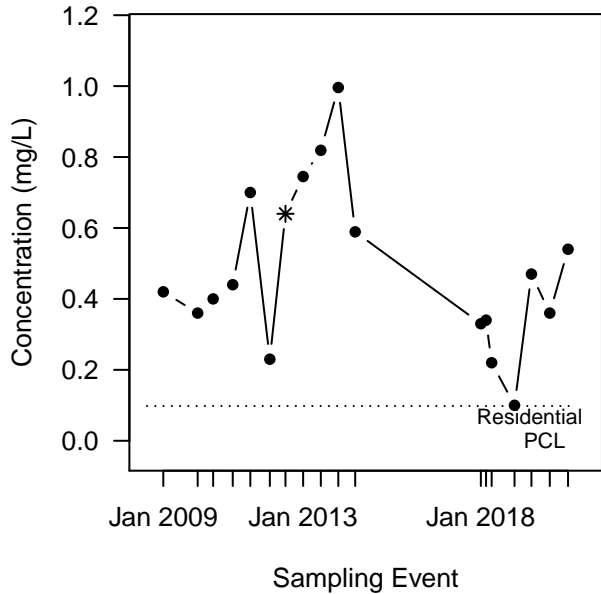


LEGEND:
 Concentration
 ● DET
 * DET, J-flagged
 ○ ND (DL plotted)

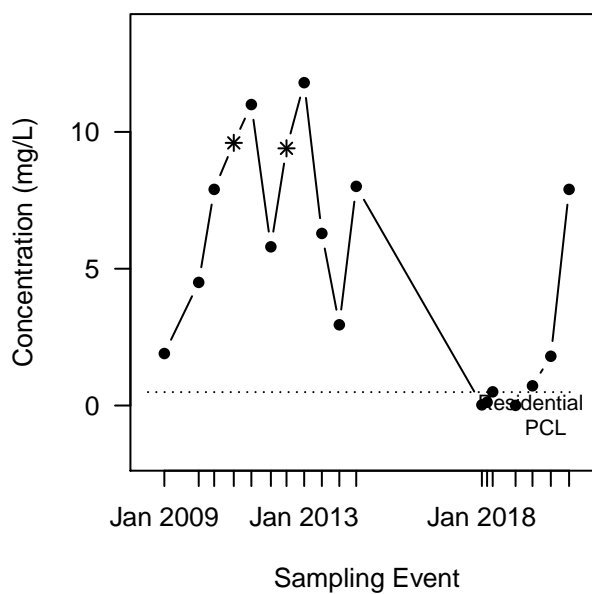
NOTE: A p-value < 0.05 indicates a statistically significant trend.
 A p-value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann-Kendall Trend Tests for MW-18A

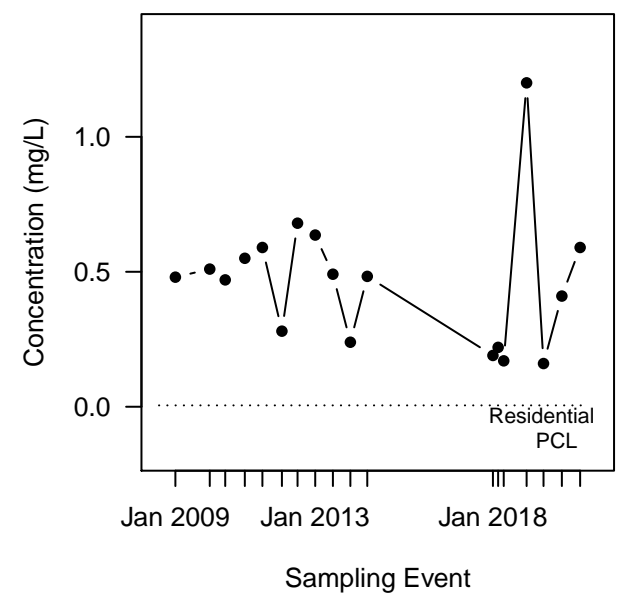
2-Methylnaphthalene (Det/N = 18/18)
Stable
 (p-value=0.338 and CV=0.48)



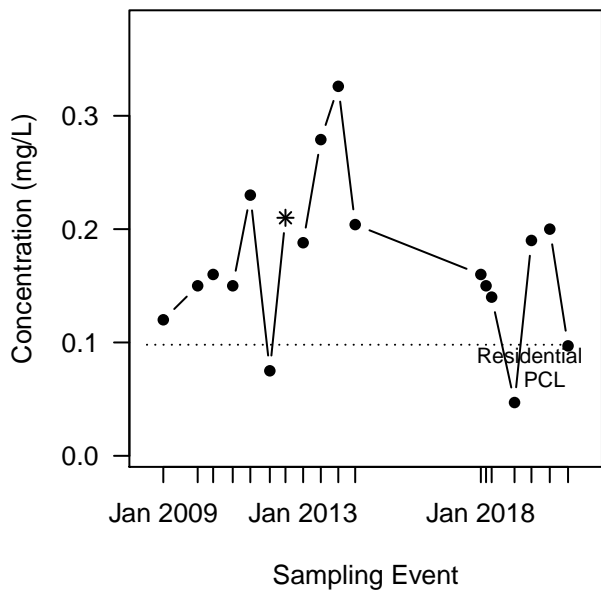
2,4-Dimethylphenol (Det/N = 18/18)
Probably Decreasing
 (p-value=0.0697 and CV=0.82)



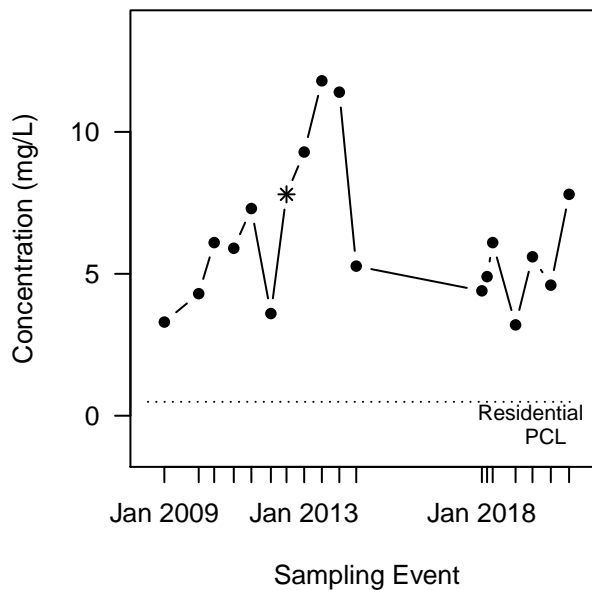
Benzene (Det/N = 18/18)
Stable
 (p-value=0.136 and CV=0.54)



Dibenzofuran (Det/N = 18/18)
Stable
 (p-value=0.44 and CV=0.4)



Naphthalene (Det/N = 18/18)
No Trend
 (p-value=0.352 and CV=0.41)

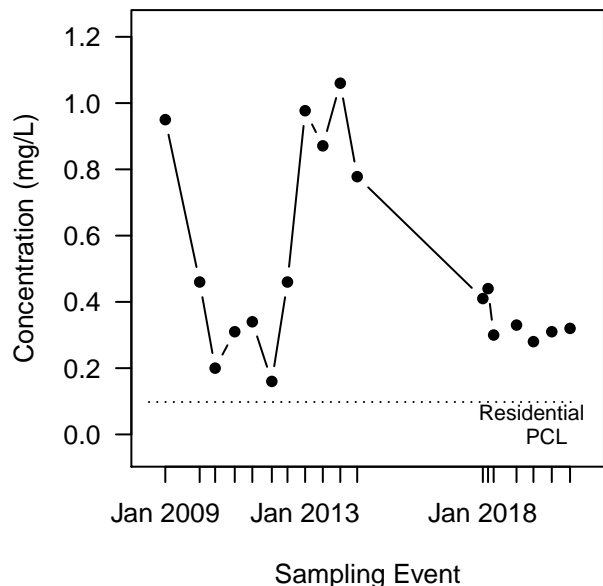


LEGEND:
 Concentration
 ● DET
 * DET, J-flagged
 ○ ND (DL plotted)

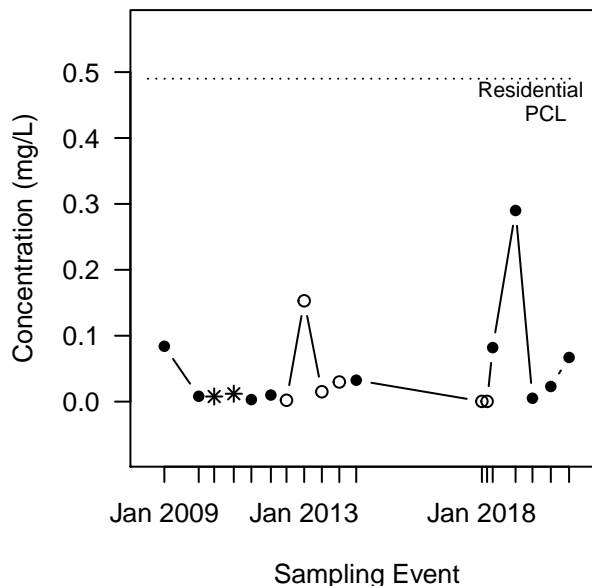
NOTE: A p-value < 0.05 indicates a statistically significant trend.
 A p-value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann-Kendall Trend Tests for MW-18C

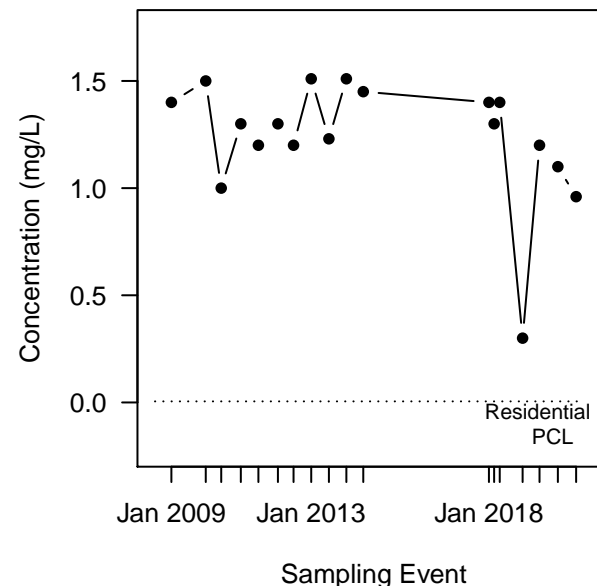
2-Methylnaphthalene (Det/N = 18/18)
Stable
 (p-value=0.162 and CV=0.58)



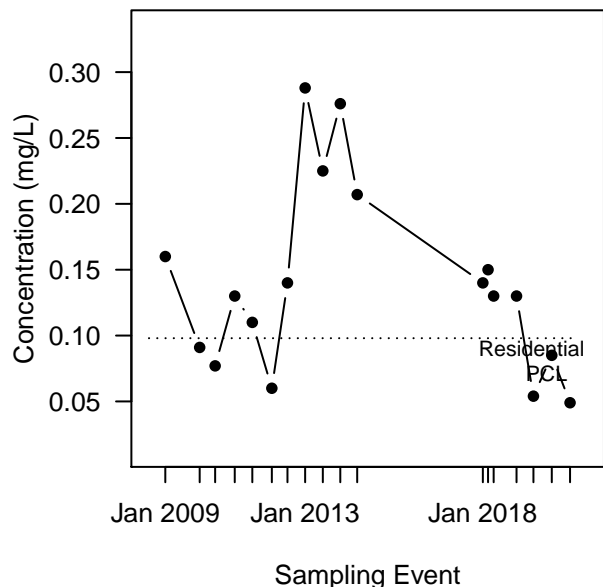
2,4-Dimethylphenol (Det/N = 12/18)
No Trend
 (p-value=0.393 and CV=1.6)



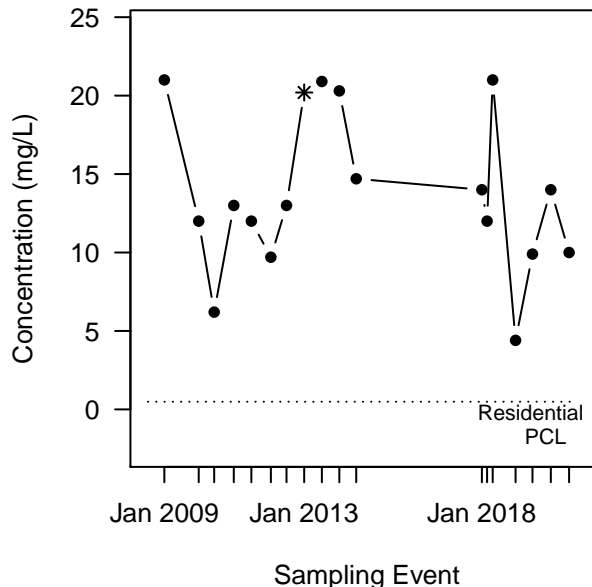
Benzene (Det/N = 18/18)
Probably Decreasing
 (p-value=0.0845 and CV=0.23)



Dibenzofuran (Det/N = 18/18)
Stable
 (p-value=0.162 and CV=0.51)



Naphthalene (Det/N = 18/18)
Stable
 (p-value=0.41 and CV=0.37)

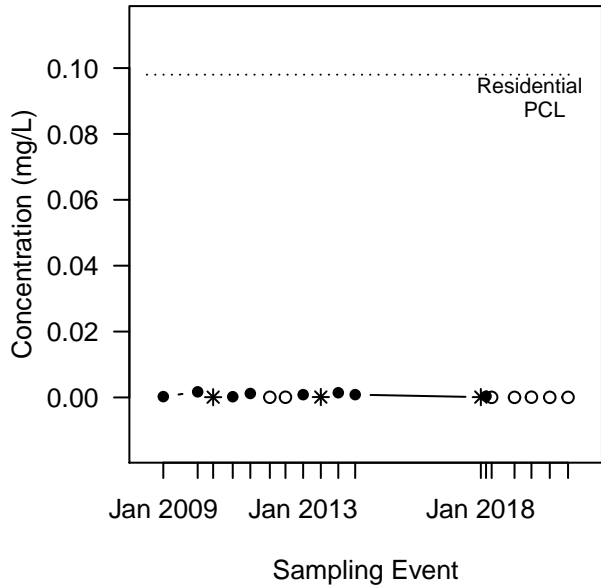


LEGEND:
 Concentration
 ● DET
 * DET, J-flagged
 ○ ND (DL plotted)

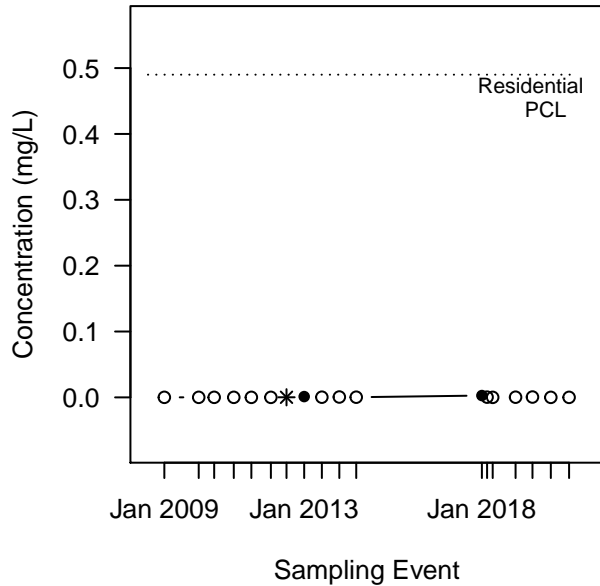
NOTE: A p-value < 0.05 indicates a statistically significant trend.
 A p-value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann-Kendall Trend Tests for MW-19C

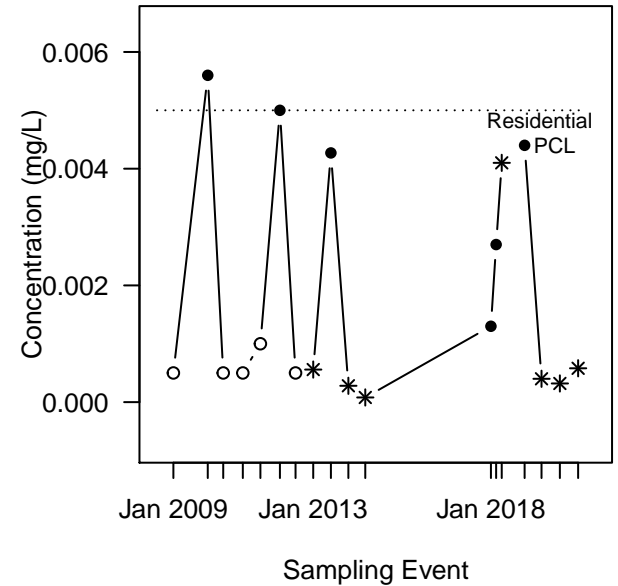
2-Methylnaphthalene (Det/N = 11/18)
Decreasing
 (p-value=0.0157 and CV=1.3)



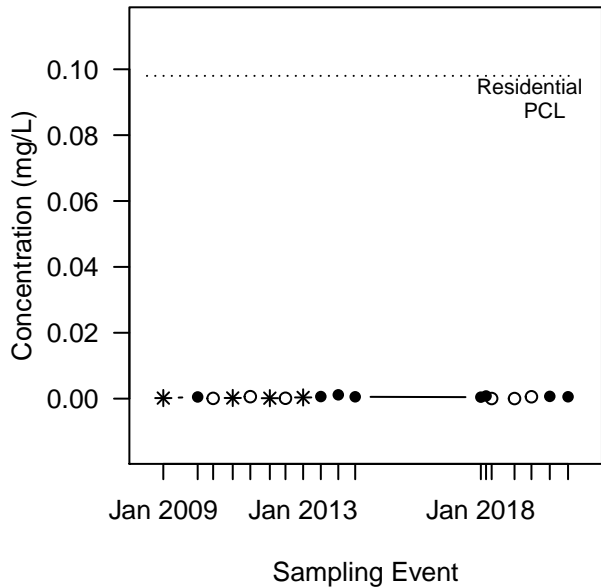
2,4-Dimethylphenol (Det/N = 3/18)
No Trend
 (p-value=0.5 and CV=1.7)



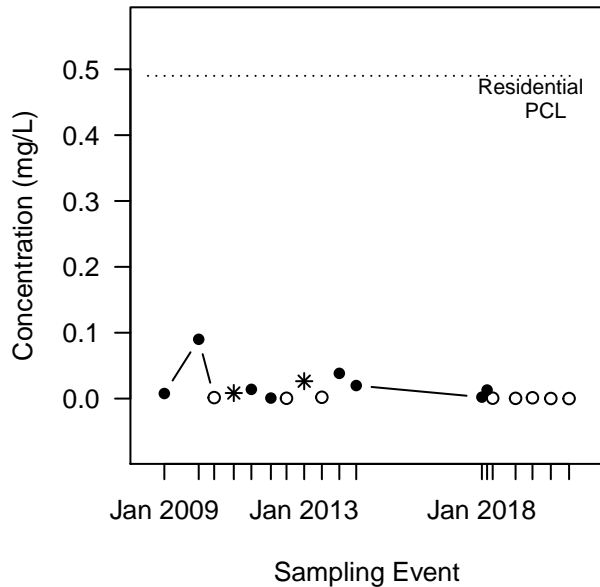
Benzene (Det/N = 13/18)
Probably Increasing
 (p-value=0.0962 and CV=1.1)



Dibenzofuran (Det/N = 12/18)
No Trend
 (p-value=0.187 and CV=0.73)



Naphthalene (Det/N = 10/18)
Decreasing
 (p-value=0.0336 and CV=1.8)

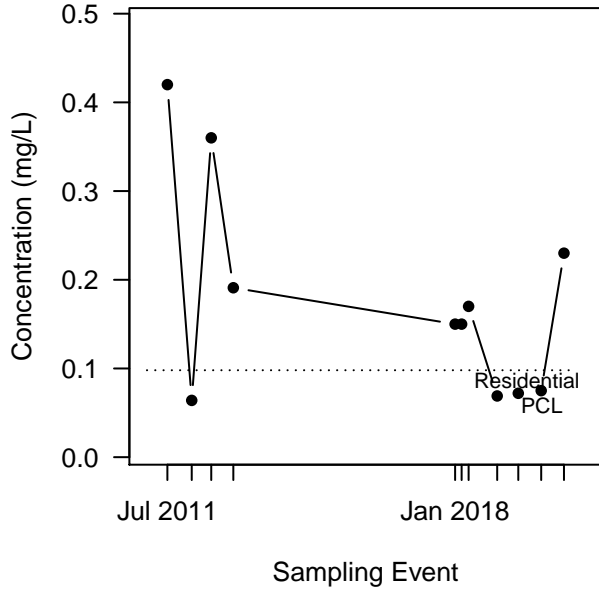


LEGEND:
 Concentration
 ● DET
 * DET, J-flagged
 ○ ND (DL plotted)

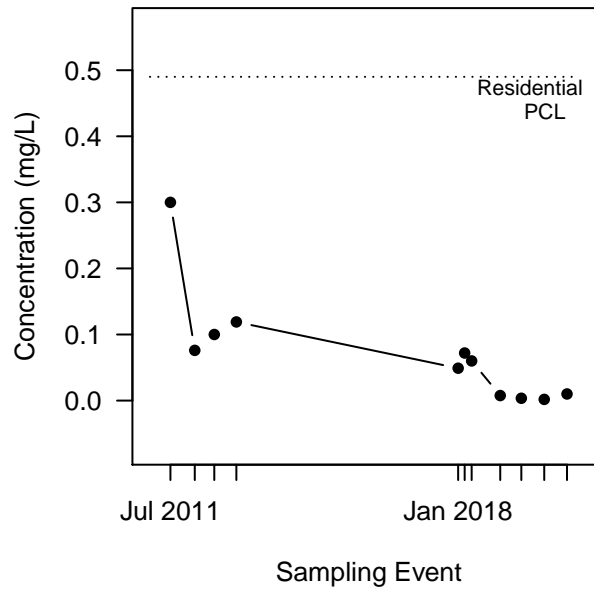
NOTE: A p-value<0.05 indicates a statistically significant trend.
 A p-value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann-Kendall Trend Tests for MW-20A

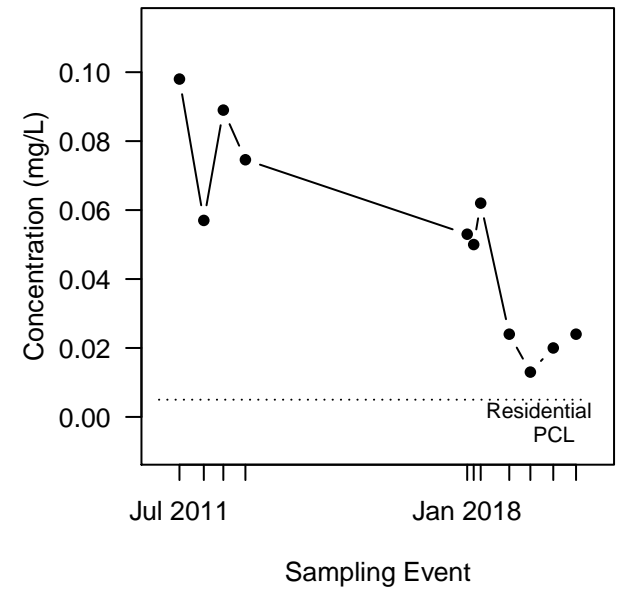
2-Methylnaphthalene (Det/N = 11/11)
Stable
 (p-value=0.195 and CV=0.67)



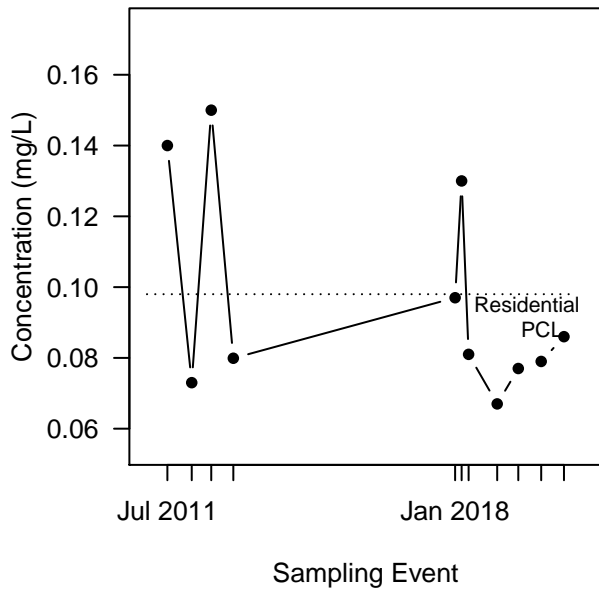
2,4-Dimethylphenol (Det/N = 11/11)
Decreasing
 (p-value=0.00155 and CV=1.2)



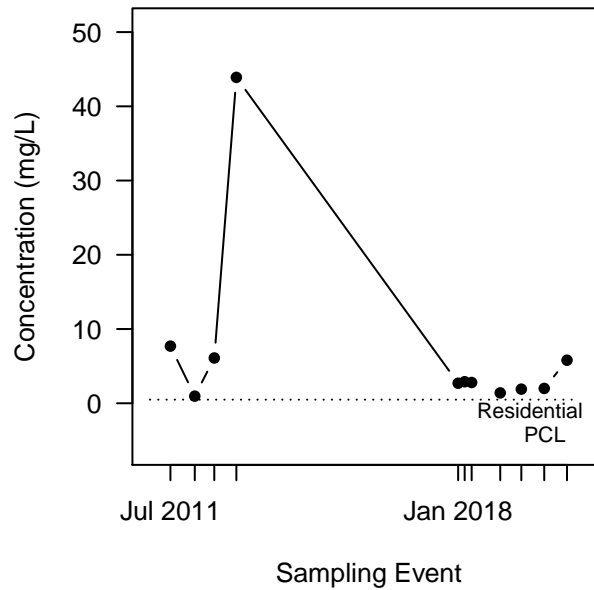
Benzene (Det/N = 11/11)
Decreasing
 (p-value=0.00193 and CV=0.56)



Dibenzofuran (Det/N = 11/11)
Stable
 (p-value=0.175 and CV=0.3)



Naphthalene (Det/N = 11/11)
No Trend
 (p-value=0.218 and CV=1.7)

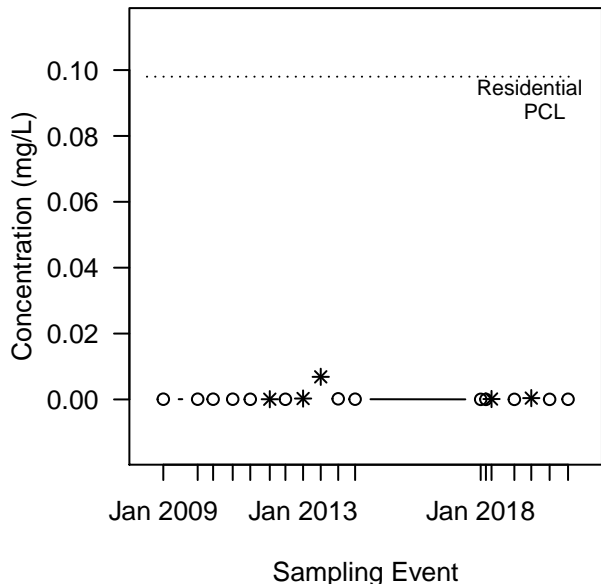


LEGEND:
 Concentration
 ● DET
 ○ ND (DL plotted)

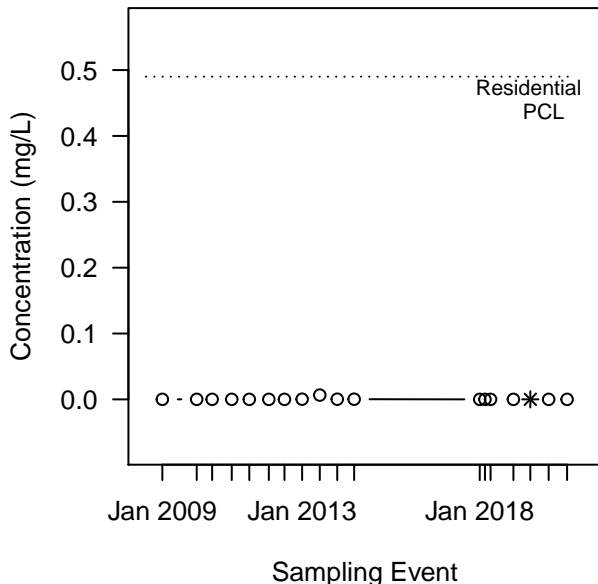
NOTE: A p-value < 0.05 indicates a statistically significant trend.
 A p-value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann-Kendall Trend Tests for MW-21C

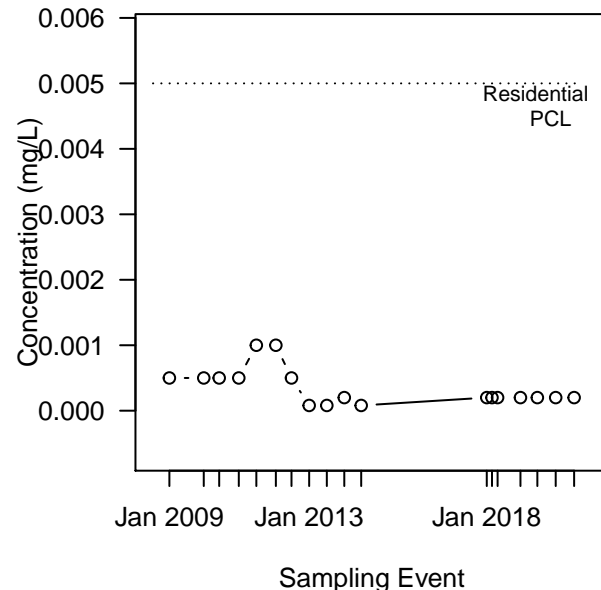
2-Methylnaphthalene (Det/N = 5/18)
No Trend
(p-value=0.249 and CV=3.4)



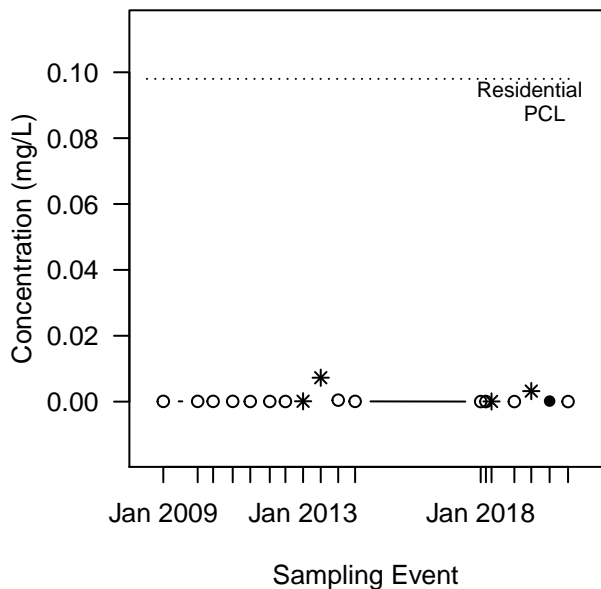
2,4-Dimethylphenol (Det/N = 1/18)
No Trend
(p-value=0.124 and CV=3.3)



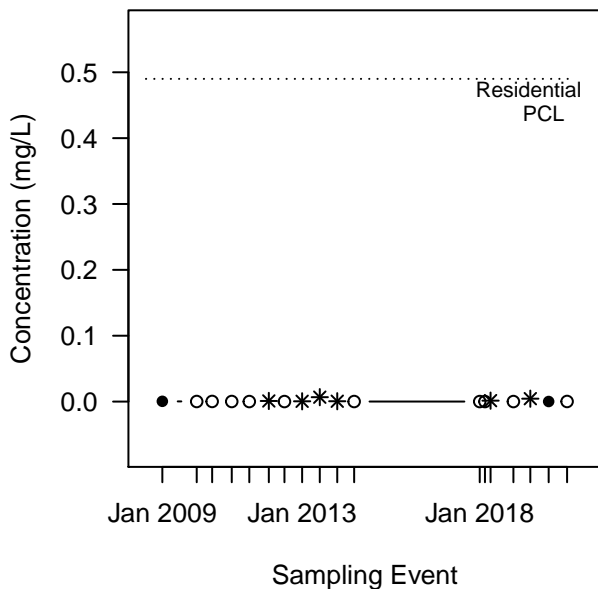
Benzene (Det/N = 0/18)
Not evaluated - All NDs



Dibenzofuran (Det/N = 5/18)
Probably Increasing
(p-value=0.061 and CV=2.7)



Naphthalene (Det/N = 8/18)
No Trend
(p-value=0.293 and CV=2)

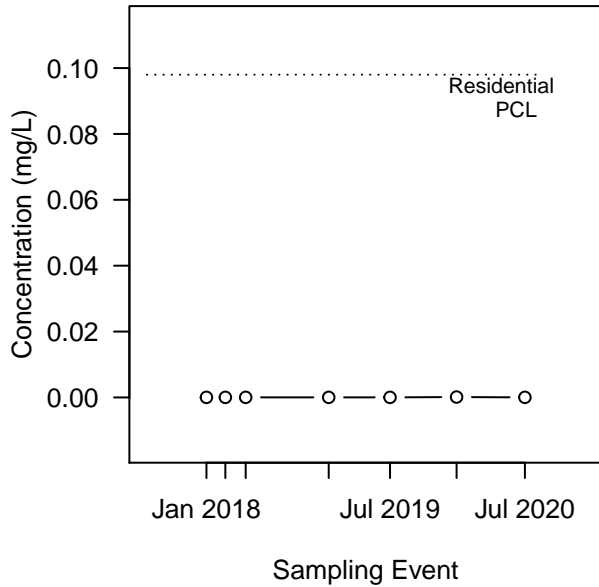


LEGEND:
 Concentration
 ● DET
 * DET, J-flagged
 ○ ND (DL plotted)

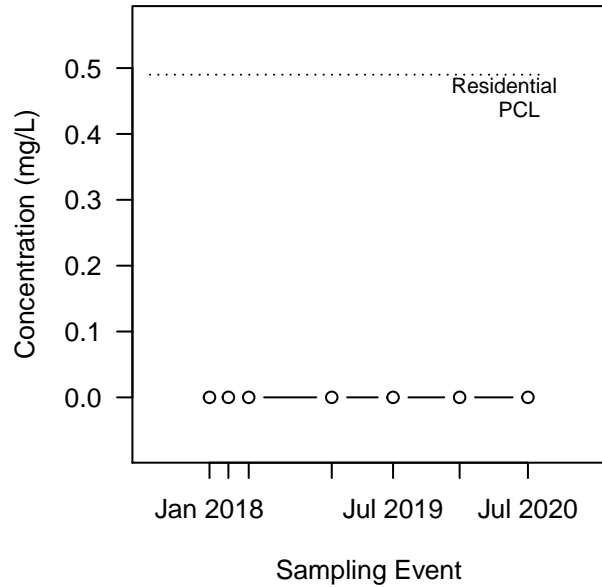
NOTE: A p-value < 0.05 indicates a statistically significant trend.
 A p-value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann-Kendall Trend Tests for MW-22AR

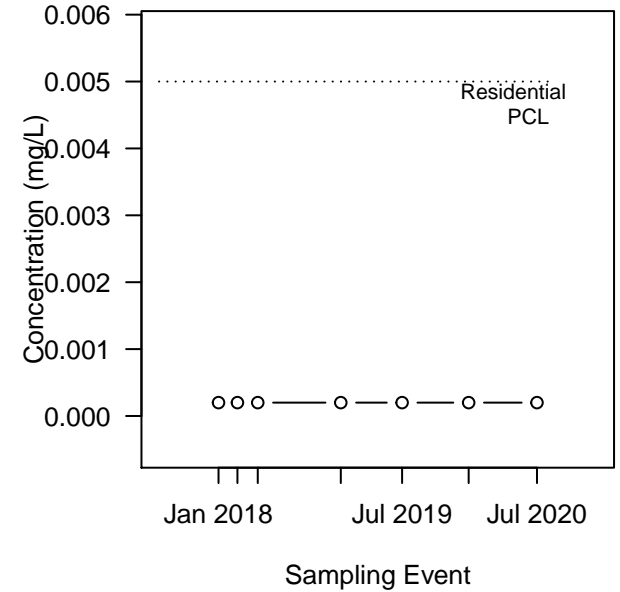
2-Methylnaphthalene (Det/N = 0/7)
Not evaluated – All NDs



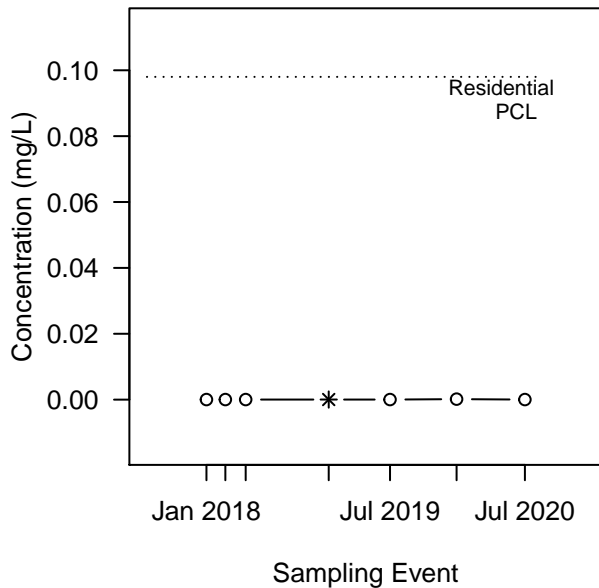
2,4-Dimethylphenol (Det/N = 0/7)
Not evaluated – All NDs



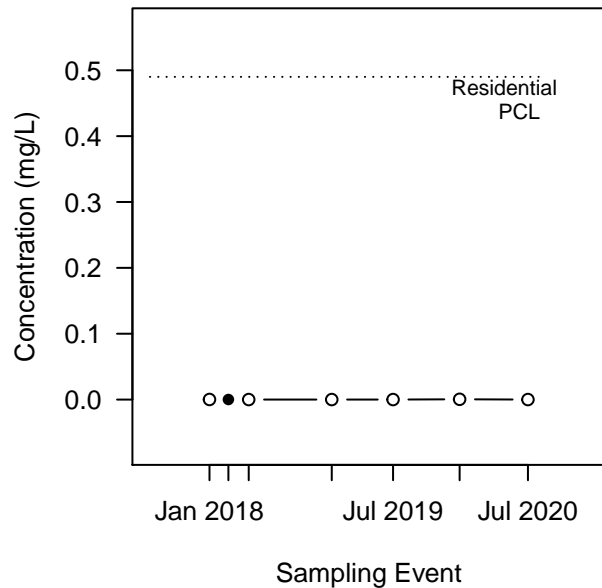
Benzene (Det/N = 0/7)
Not evaluated (all concentrations are identical)



Dibenzofuran (Det/N = 1/7)
No Trend
(p-value=0.5 and CV=1.2)



Naphthalene (Det/N = 1/7)
No Trend
(p-value=0.227 and CV=1.3)

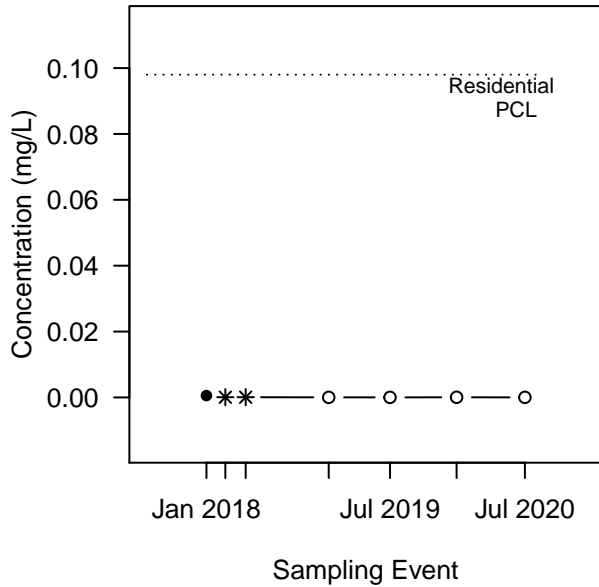


LEGEND:
 Concentration
 ● DET
 * DET, J-flagged
 ○ ND (DL plotted)

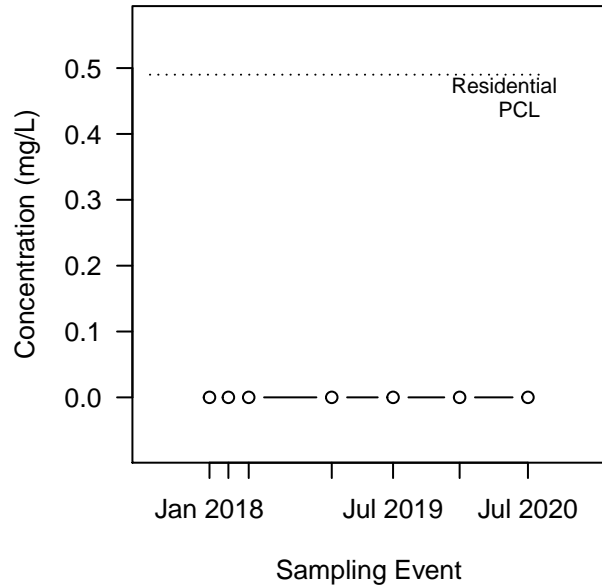
NOTE: A p-value < 0.05 indicates a statistically significant trend.
 A p-value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann–Kendall Trend Tests for MW-22BR

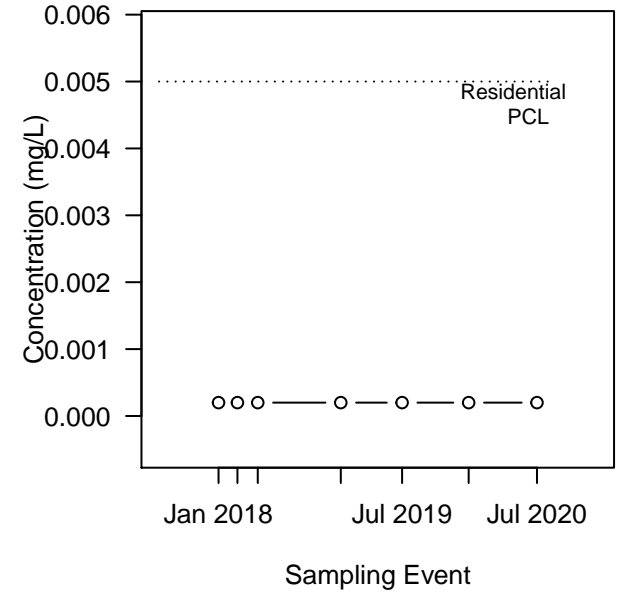
2-Methylnaphthalene (Det/N = 3/7)
Decreasing
(p-value=0.0223 and CV=1.7)



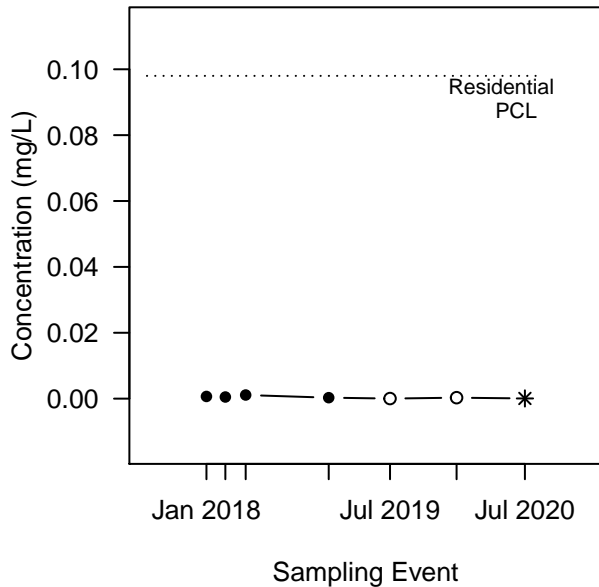
2,4-Dimethylphenol (Det/N = 0/7)
Not evaluated – All NDs



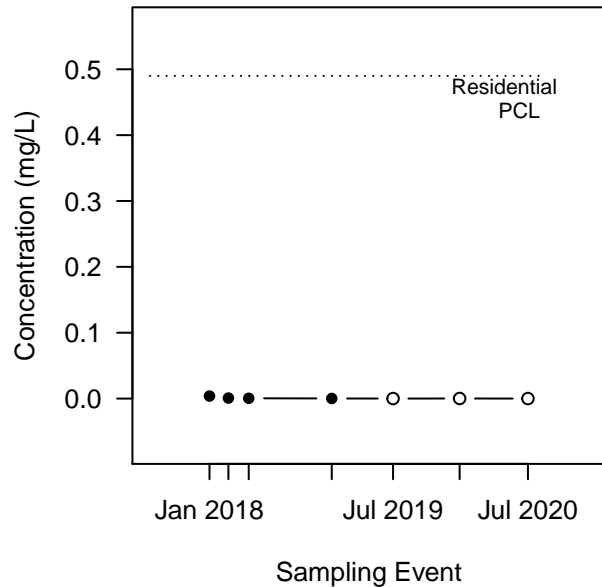
Benzene (Det/N = 0/7)
Not evaluated (all concentrations are identical)



Dibenzofuran (Det/N = 5/7)
Decreasing
(p-value=0.0474 and CV=0.91)



Naphthalene (Det/N = 4/7)
Decreasing
(p-value=0.00384 and CV=1.8)

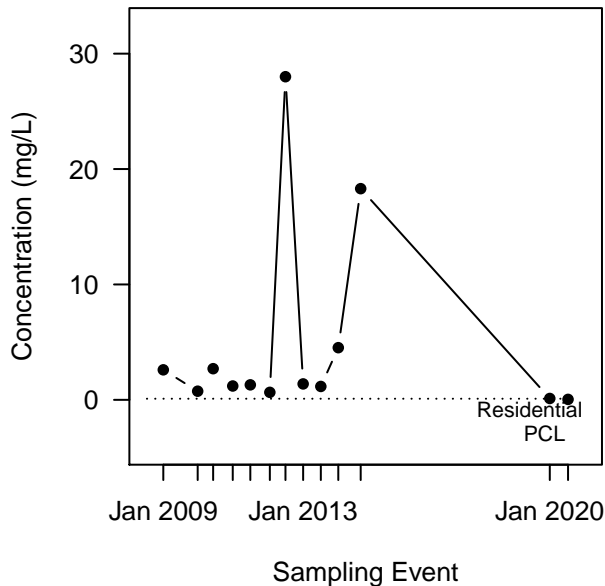


LEGEND:
 Concentration
 ● DET
 * DET, J-flagged
 ○ ND (DL plotted)

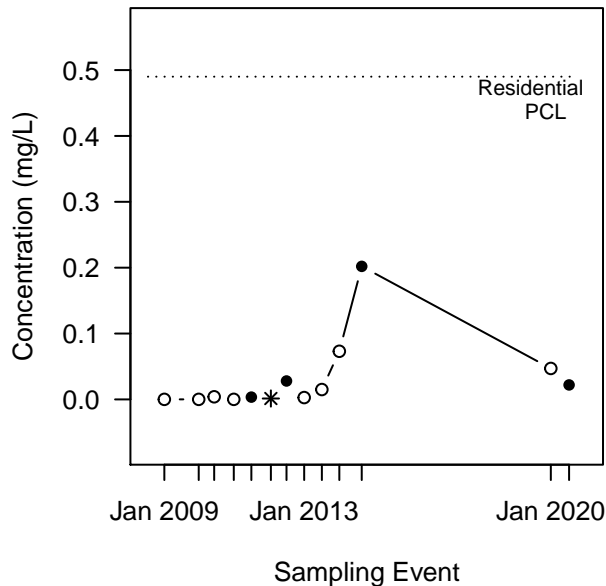
NOTE: A p-value<0.05 indicates a statistically significant trend.
 A p-value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann-Kendall Trend Tests for MW-23C

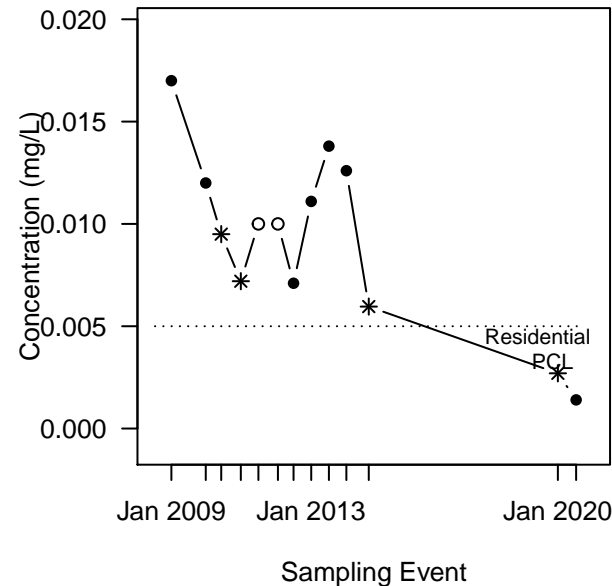
2-Methylnaphthalene (Det/N = 13/13)
No Trend
 (p-value=0.291 and CV=1.8)



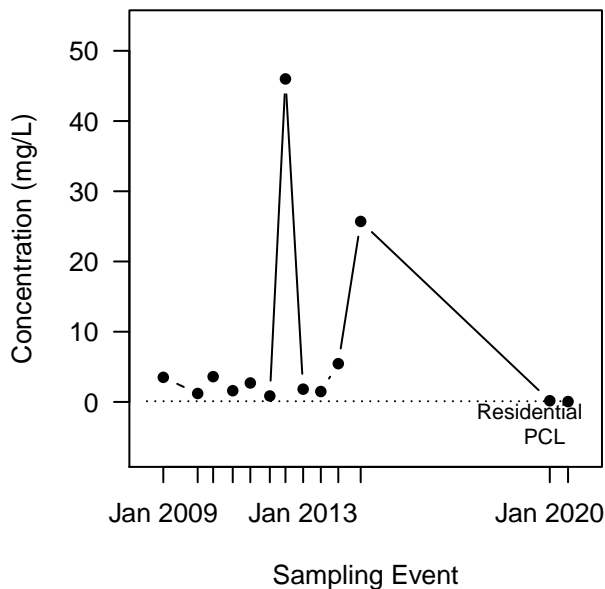
2,4-Dimethylphenol (Det/N = 5/13)
No Trend
 (p-value=0.117 and CV=1.8)



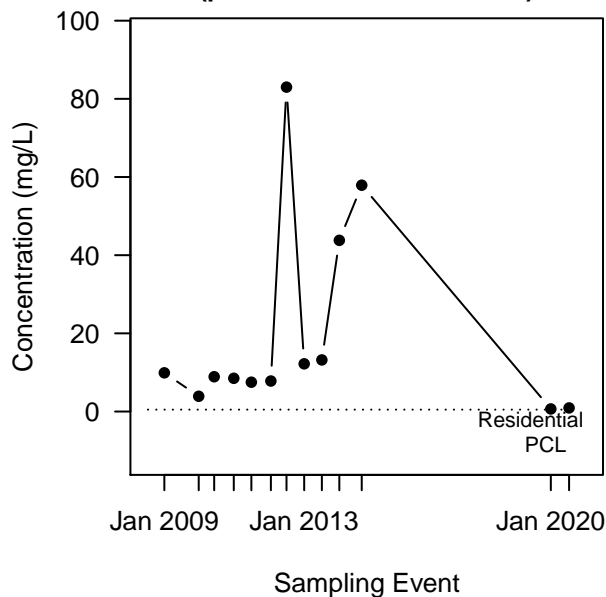
Benzene (Det/N = 11/13)
Probably Decreasing
 (p-value=0.0894 and CV=0.47)



Dibenzofuran (Det/N = 13/13)
No Trend
 (p-value=0.251 and CV=1.9)



Naphthalene (Det/N = 13/13)
No Trend
 (p-value=0.38 and CV=1.3)

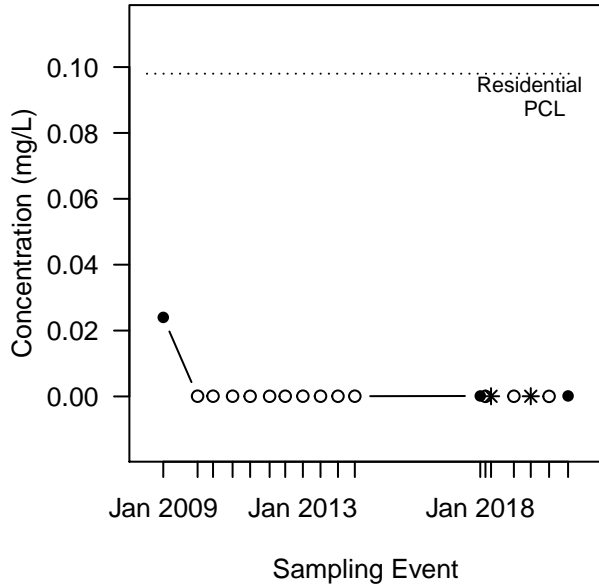


LEGEND:
 Concentration
 ● DET
 * DET, J-flagged
 ○ ND (DL plotted)

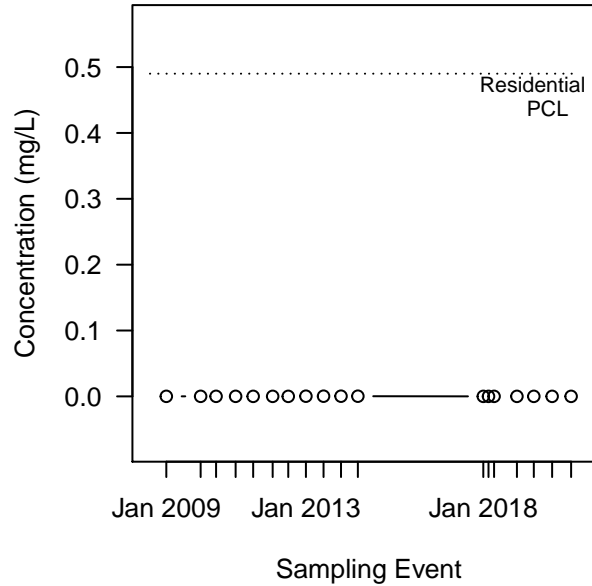
NOTE: A p-value < 0.05 indicates a statistically significant trend.
 A p-value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann-Kendall Trend Tests for MW-25A

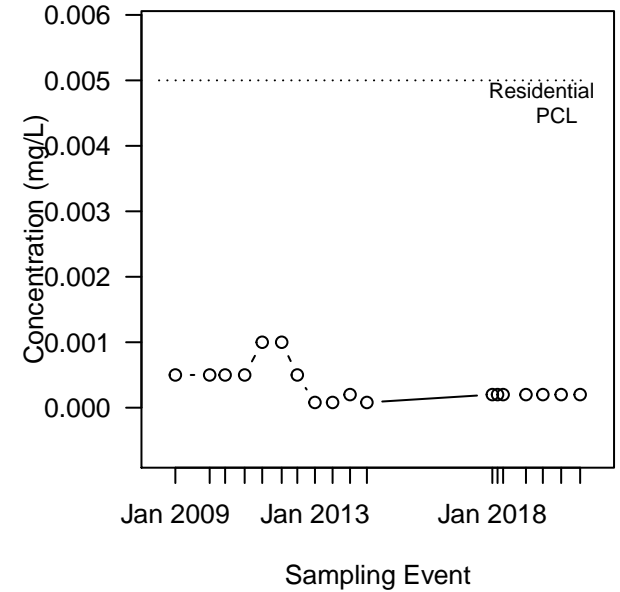
2-Methylnaphthalene (Det/N = 5/18)
No Trend
(p-value=0.123 and CV=4)



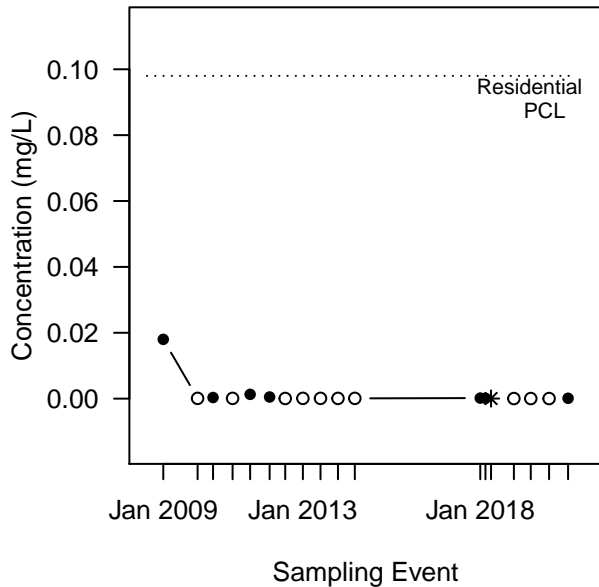
2,4-Dimethylphenol (Det/N = 0/18)
Not evaluated – All NDs



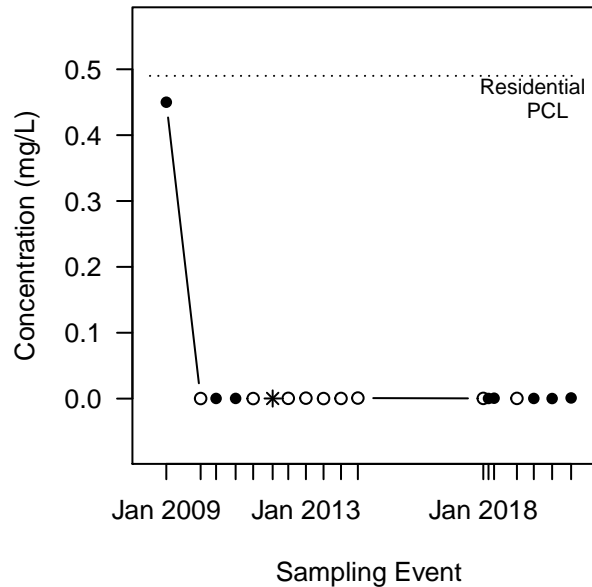
Benzene (Det/N = 0/18)
Not evaluated – All NDs



Dibenzofuran (Det/N = 8/18)
No Trend
(p-value=0.121 and CV=3.6)



Naphthalene (Det/N = 9/18)
No Trend
(p-value=0.404 and CV=4.2)

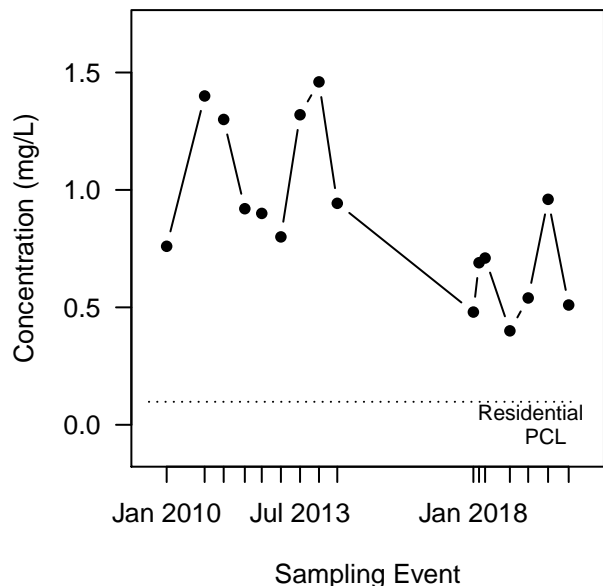


LEGEND:
 Concentration
 ● DET
 * DET, J-flagged
 ○ ND (DL plotted)

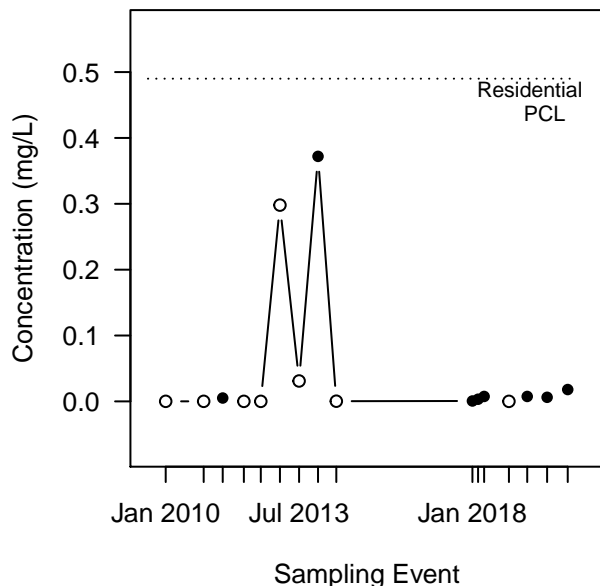
NOTE: A p-value < 0.05 indicates a statistically significant trend.
 A p-value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann-Kendall Trend Tests for MW-25C

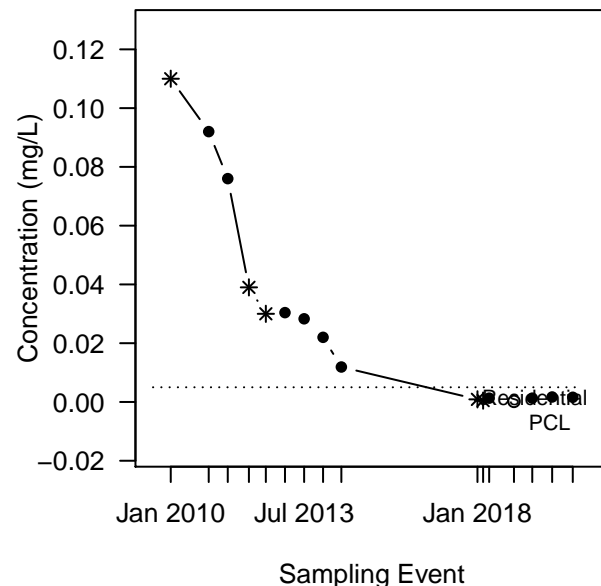
2-Methylnaphthalene (Det/N = 16/16)
Decreasing
 (p-value=0.0264 and CV=0.38)



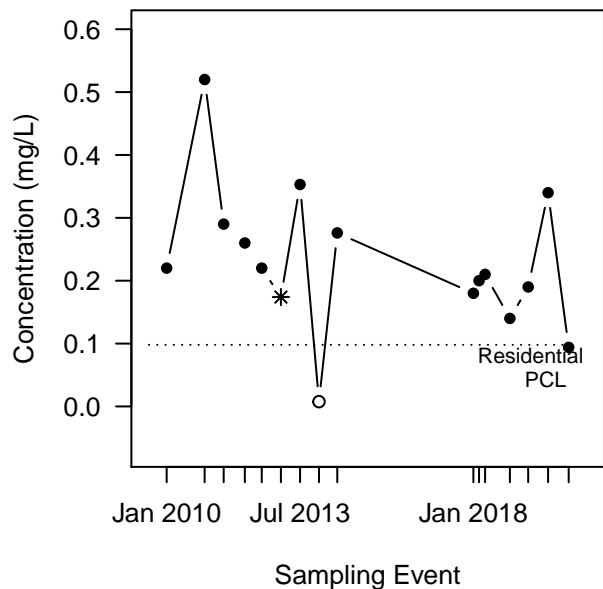
2,4-Dimethylphenol (Det/N = 8/16)
Increasing
 (p-value=0.0101 and CV=2.4)



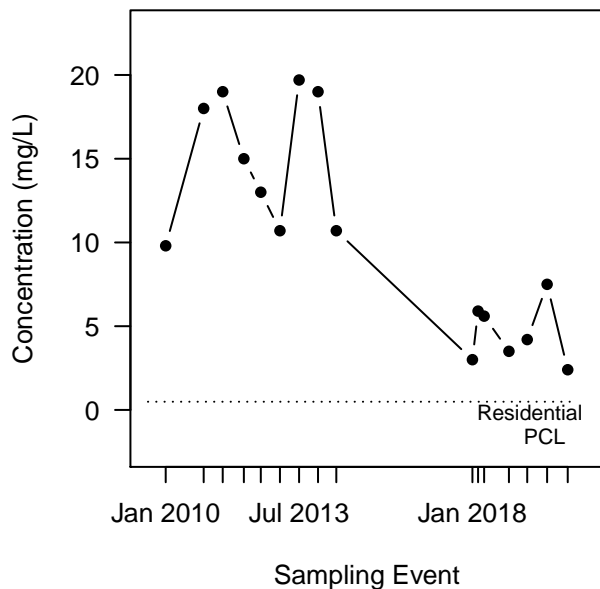
Benzene (Det/N = 15/16)
Decreasing
 (p-value=5.31e-05 and CV=1.3)



Dibenzofuran (Det/N = 15/16)
Decreasing
 (p-value=0.0434 and CV=0.51)



Naphthalene (Det/N = 16/16)
Decreasing
 (p-value=0.00296 and CV=0.59)

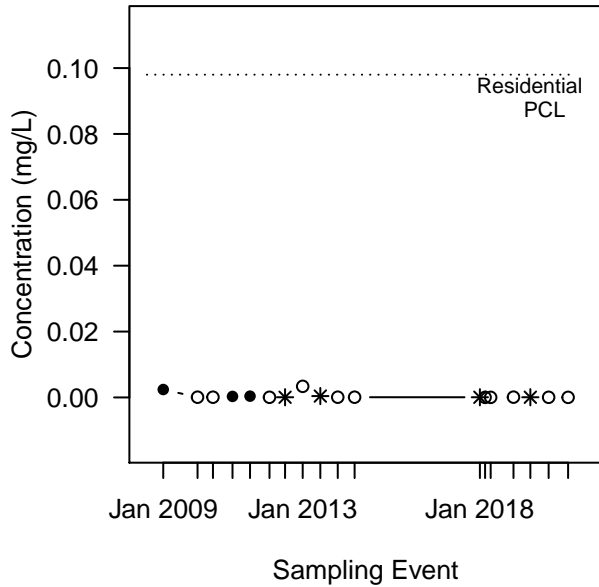


LEGEND:
 Concentration
 ● DET
 * DET, J-flagged
 ○ ND (DL plotted)

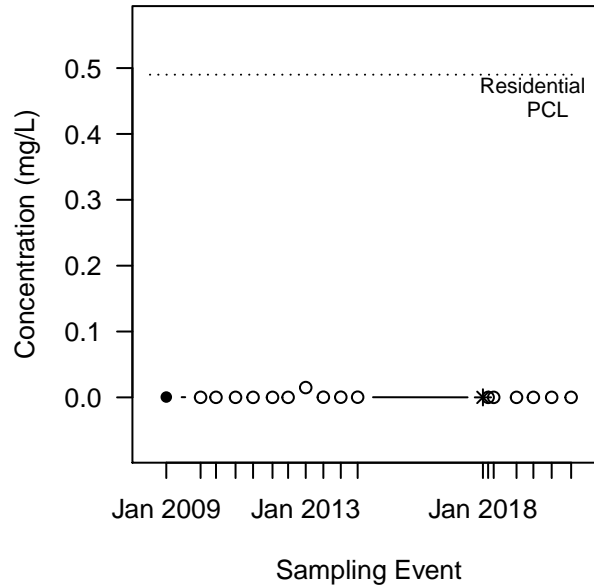
NOTE: A p-value<0.05 indicates a statistically significant trend.
 A p-value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann-Kendall Trend Tests for MW-26A

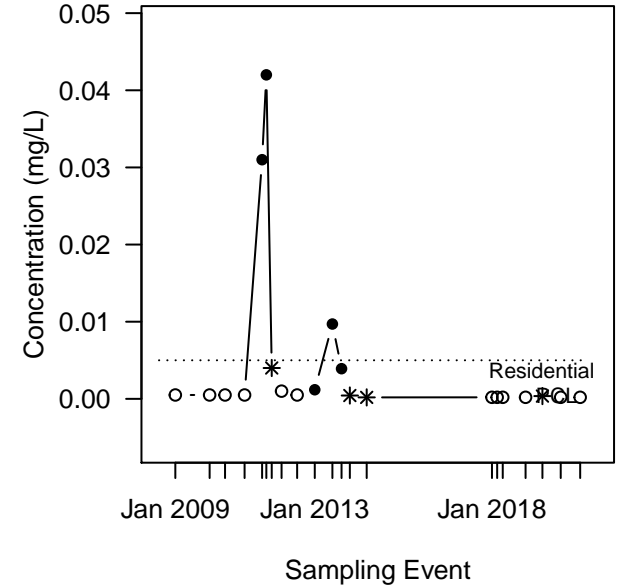
2-Methylnaphthalene (Det/N = 7/18)
Probably Decreasing
 (p-value=0.0763 and CV=2.2)



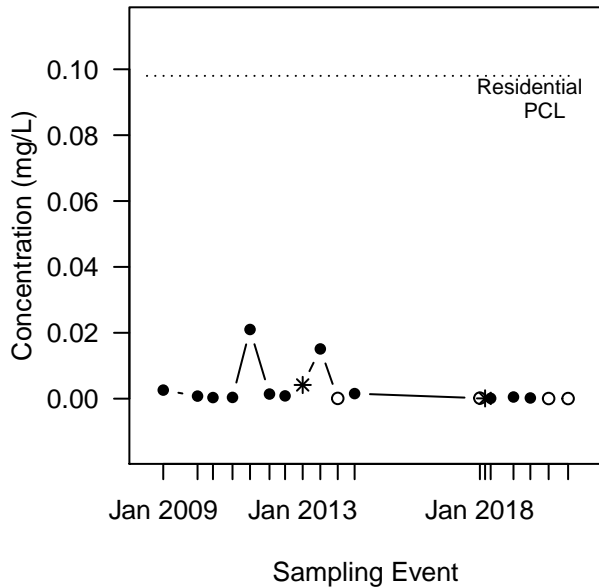
2,4-Dimethylphenol (Det/N = 2/18)
No Trend
 (p-value=0.2 and CV=3.7)



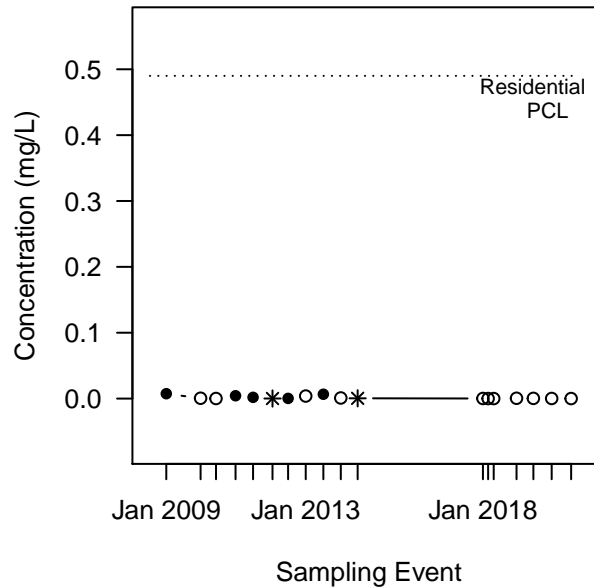
Benzene (Det/N = 9/21)
No Trend
 (p-value=0.165 and CV=2.4)



Dibenzofuran (Det/N = 14/18)
Decreasing
 (p-value=0.0164 and CV=2.1)



Naphthalene (Det/N = 7/18)
Decreasing
 (p-value=0.0108 and CV=1.5)

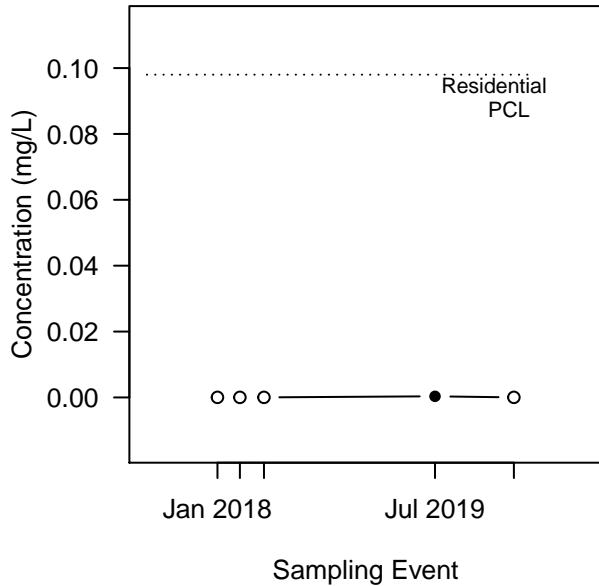


LEGEND:
 Concentration
 ● DET
 * DET, J-flagged
 ○ ND (DL plotted)

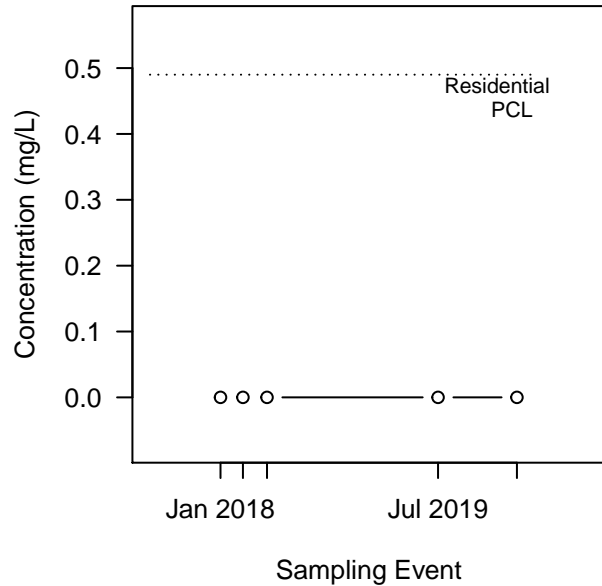
NOTE: A p-value < 0.05 indicates a statistically significant trend.
 A p-value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann–Kendall Trend Tests for MW–27A

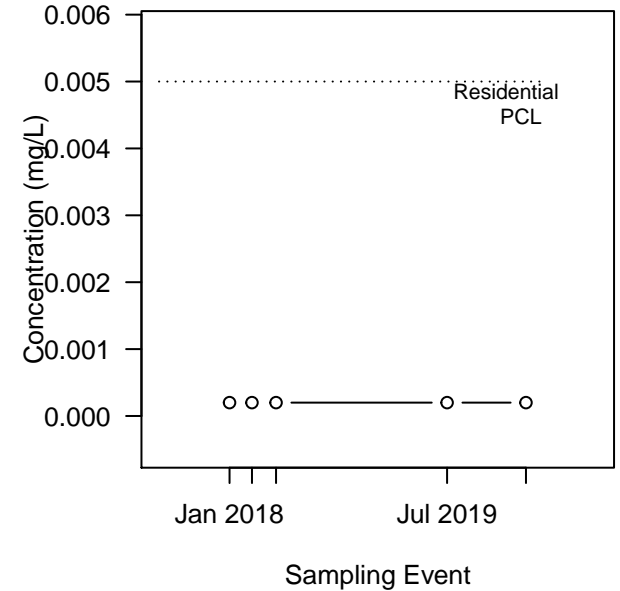
2–Methylnaphthalene (Det/N = 1/5)
No Trend
(p–value=0.362 and CV=1.7)



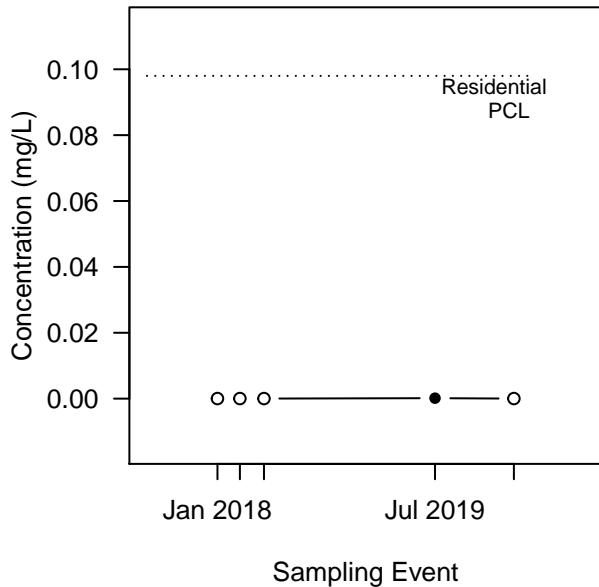
2,4–Dimethylphenol (Det/N = 0/5)
Not evaluated (all concentrations are identical)



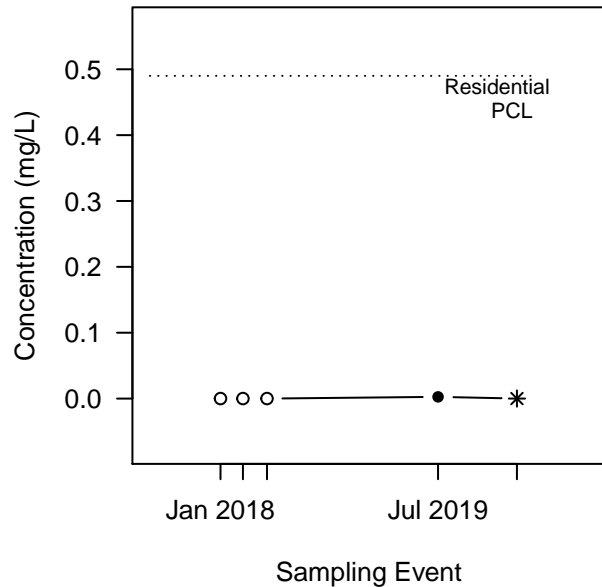
Benzene (Det/N = 0/5)
Not evaluated (all concentrations are identical)



Dibenzofuran (Det/N = 1/5)
No Trend
(p–value=0.362 and CV=1.2)



Naphthalene (Det/N = 2/5)
No Trend
(p–value=0.134 and CV=2.1)

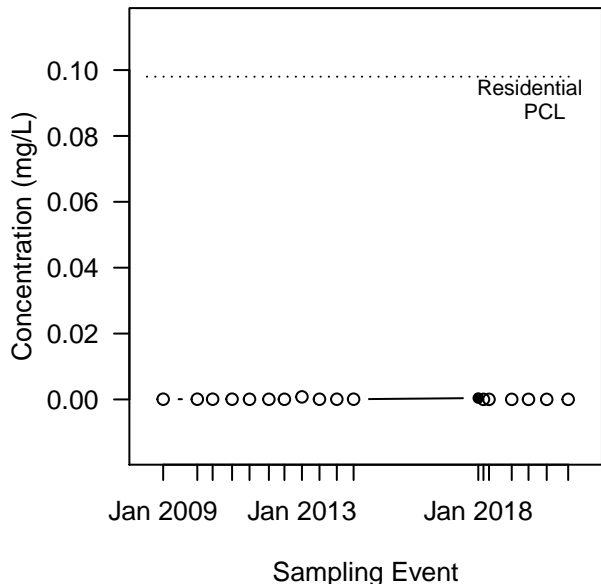


LEGEND:
 Concentration
 ● DET
 * DET, J–flagged
 ○ ND (DL plotted)

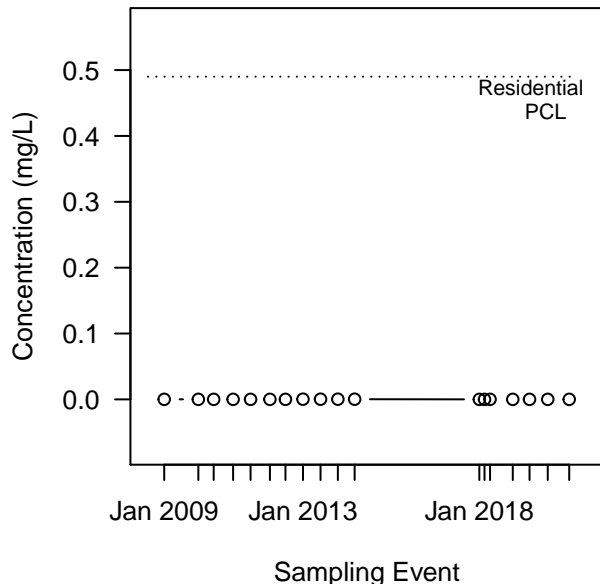
NOTE: A p–value<0.05 indicates a statistically significant trend.
 A p–value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann-Kendall Trend Tests for MW-27C

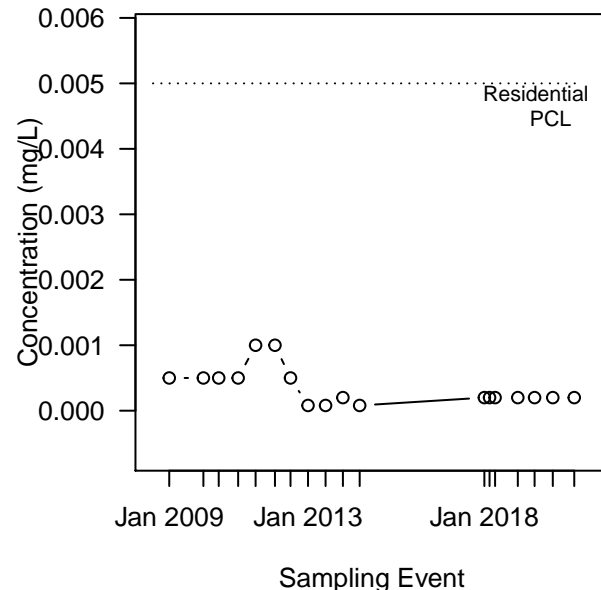
2-Methylnaphthalene (Det/N = 1/18)
No Trend
 (p-value=0.35 and CV=1.8)



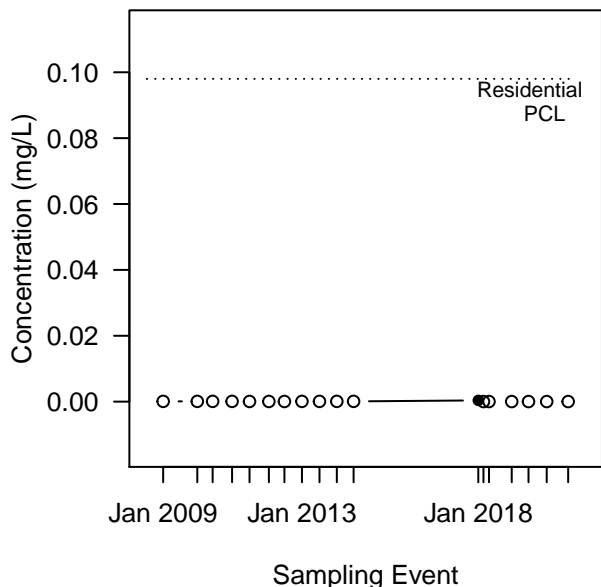
2,4-Dimethylphenol (Det/N = 0/18)
Not evaluated - All NDs



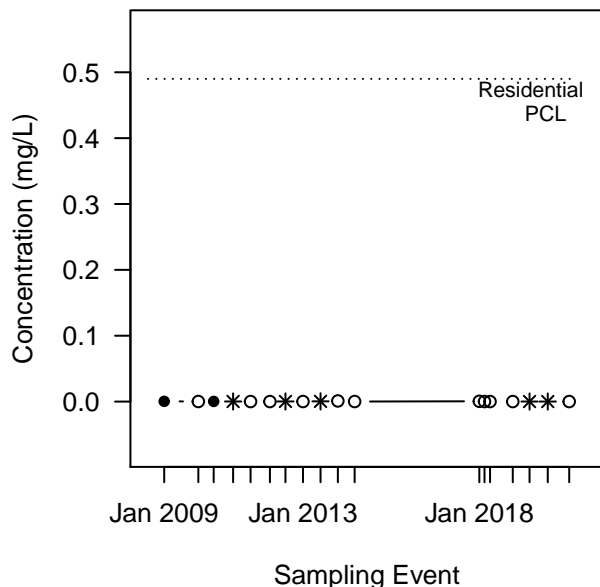
Benzene (Det/N = 0/18)
Not evaluated - All NDs



Dibenzofuran (Det/N = 1/18)
No Trend
 (p-value=0.35 and CV=1.1)



Naphthalene (Det/N = 7/18)
Probably Decreasing
 (p-value=0.0895 and CV=1.3)

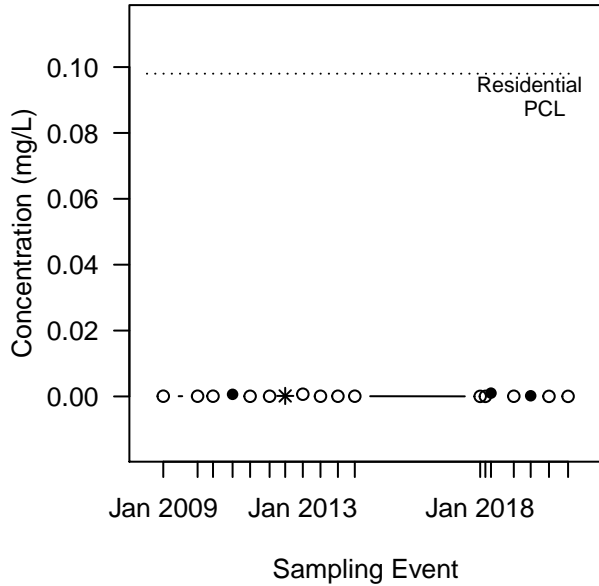


LEGEND:
 Concentration
 ● DET
 * DET, J-flagged
 ○ ND (DL plotted)

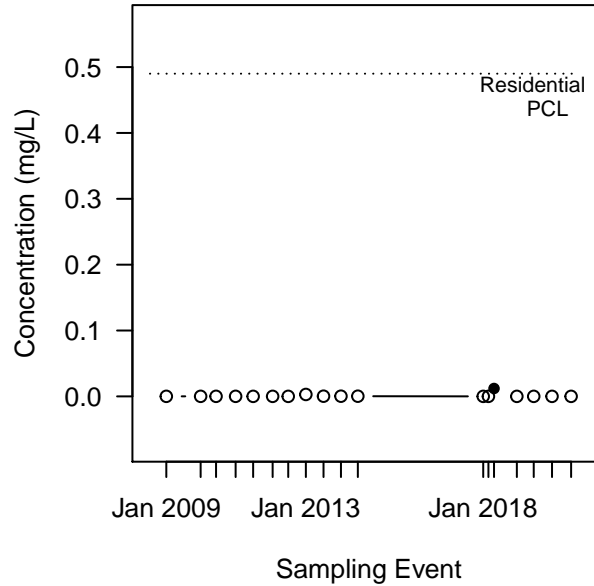
NOTE: A p-value < 0.05 indicates a statistically significant trend.
 A p-value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann-Kendall Trend Tests for MW-28A

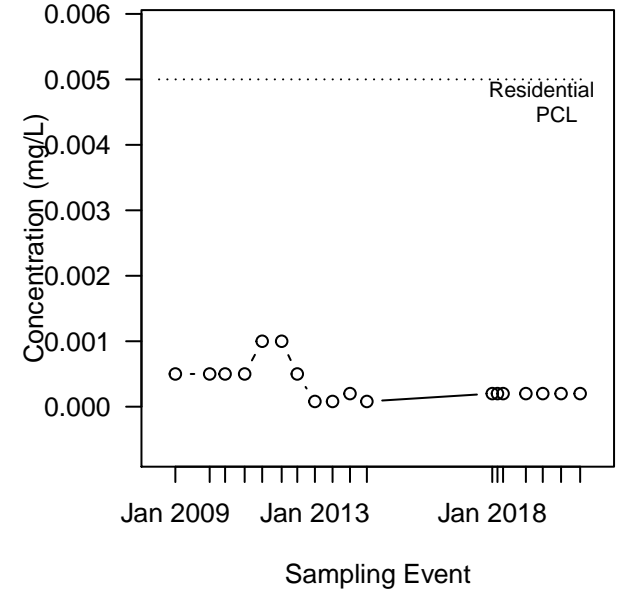
2-Methylnaphthalene (Det/N = 4/18)
No Trend
(p-value=0.397 and CV=1.5)



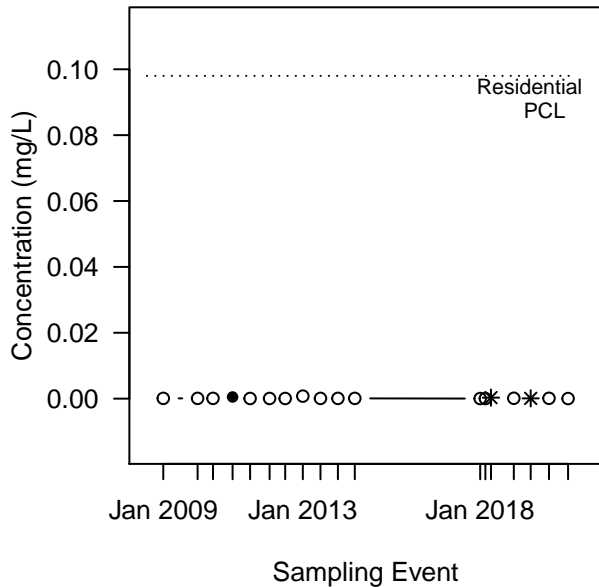
2,4-Dimethylphenol (Det/N = 1/18)
No Trend
(p-value=0.22 and CV=3.1)



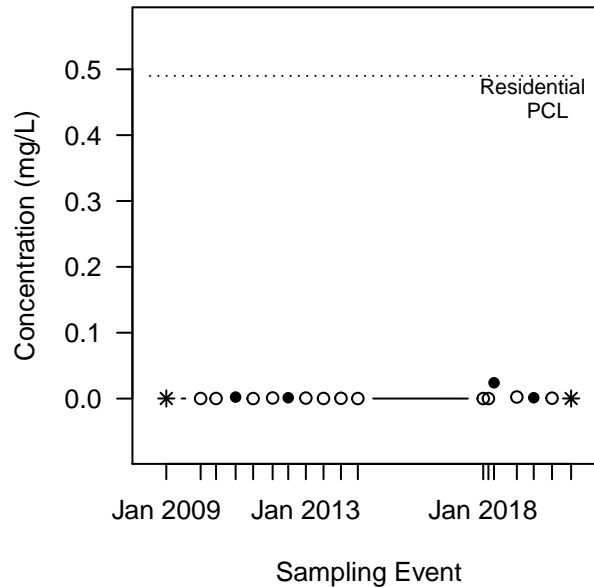
Benzene (Det/N = 0/18)
Not evaluated - All NDs



Dibenzofuran (Det/N = 3/18)
No Trend
(p-value=0.34 and CV=1.4)



Naphthalene (Det/N = 6/18)
No Trend
(p-value=0.446 and CV=2.9)

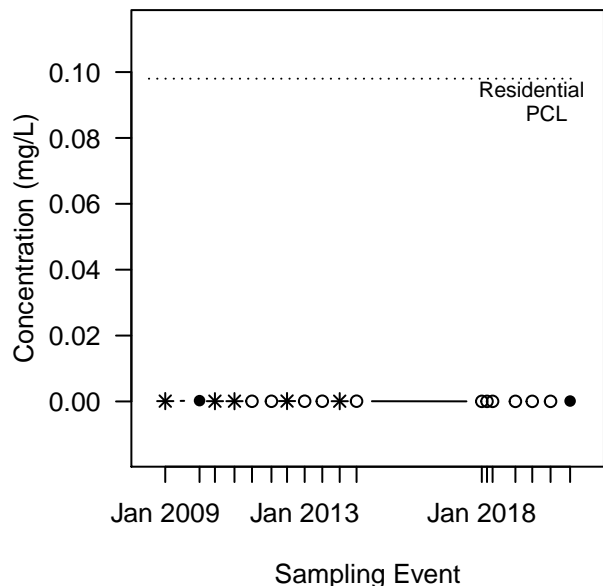


LEGEND:
 Concentration
 ● DET
 * DET, J-flagged
 ○ ND (DL plotted)

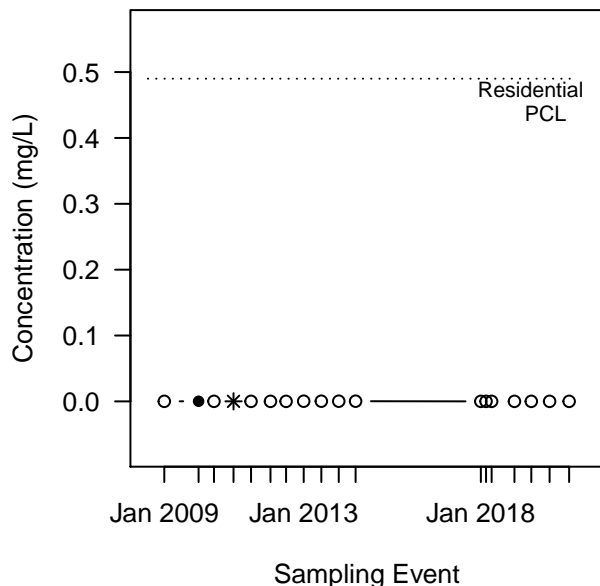
NOTE: A p-value < 0.05 indicates a statistically significant trend.
 A p-value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann-Kendall Trend Tests for MW-28C

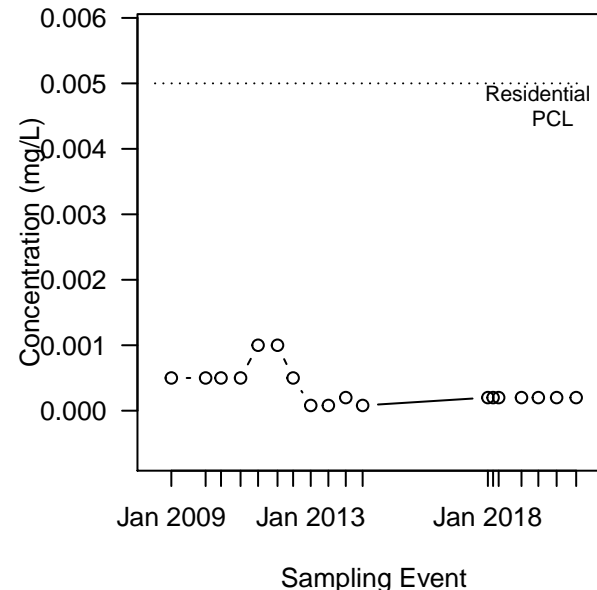
2-Methylnaphthalene (Det/N = 7/18)
Decreasing
(p-value=0.0311 and CV=0.81)



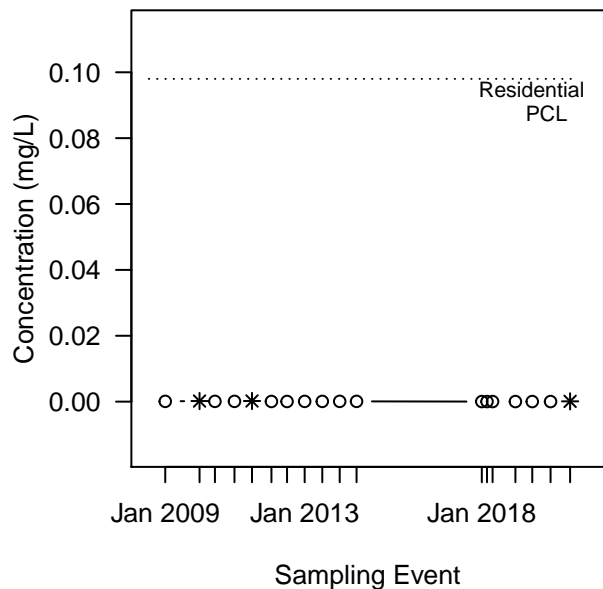
2,4-Dimethylphenol (Det/N = 2/18)
Decreasing
(p-value=0.0342 and CV=0.93)



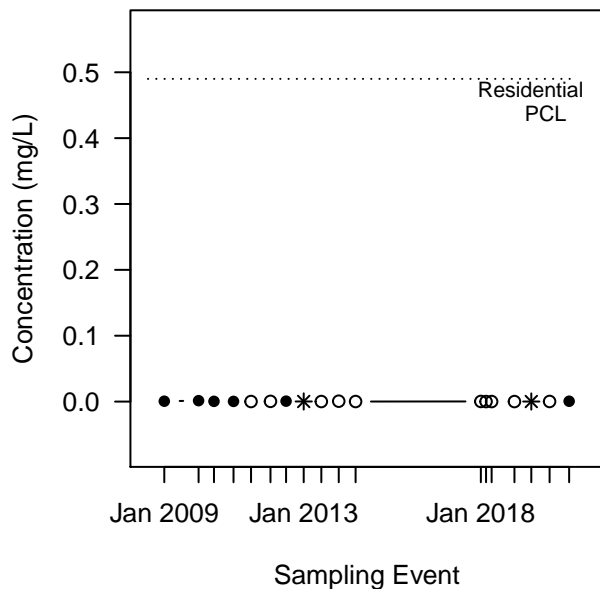
Benzene (Det/N = 0/18)
Not evaluated - All NDs



Dibenzofuran (Det/N = 3/18)
Stable
(p-value=0.34 and CV=0.74)



Naphthalene (Det/N = 8/18)
Decreasing
(p-value=0.0299 and CV=1.1)

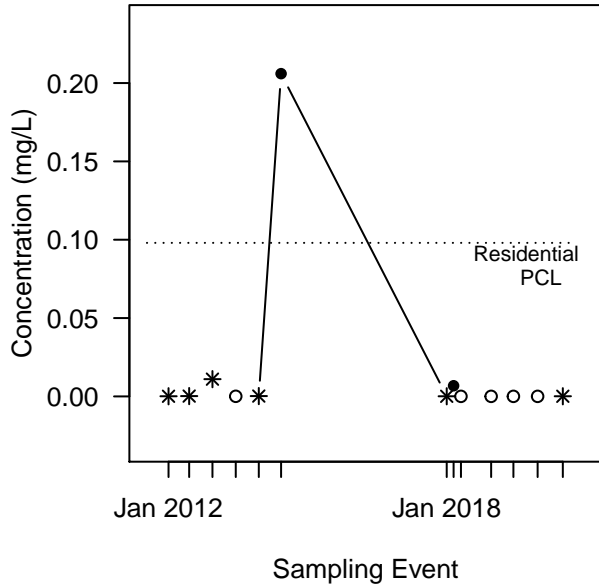


LEGEND:
 Concentration
 ● DET
 * DET, J-flagged
 ○ ND (DL plotted)

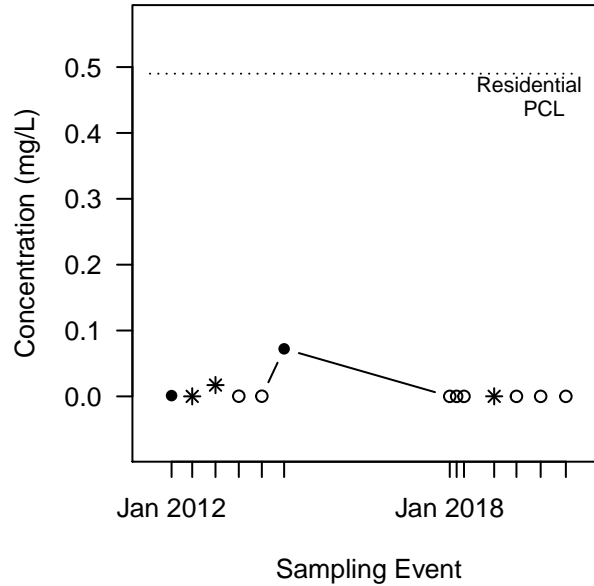
NOTE: A p-value < 0.05 indicates a statistically significant trend.
 A p-value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann-Kendall Trend Tests for MW-32AR

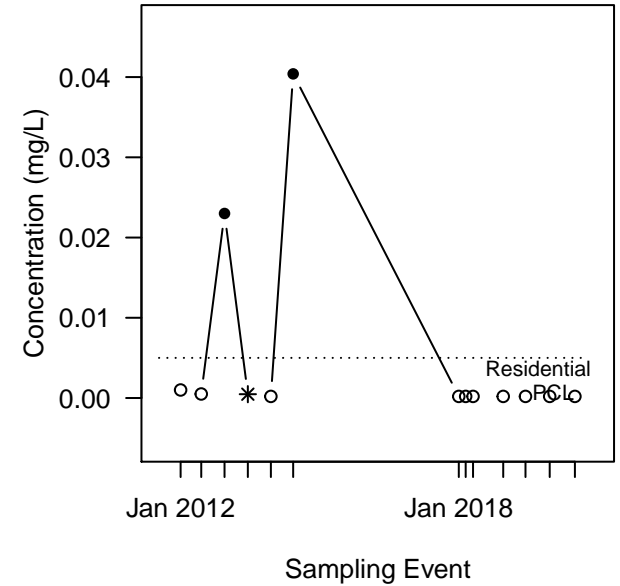
2-Methylnaphthalene (Det/N = 8/13)
No Trend
(p-value=0.103 and CV=3.3)



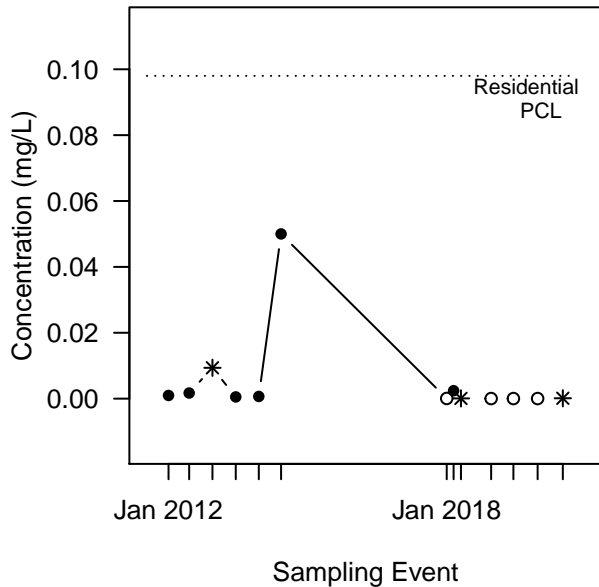
2,4-Dimethylphenol (Det/N = 5/13)
Probably Decreasing
(p-value=0.0534 and CV=2.9)



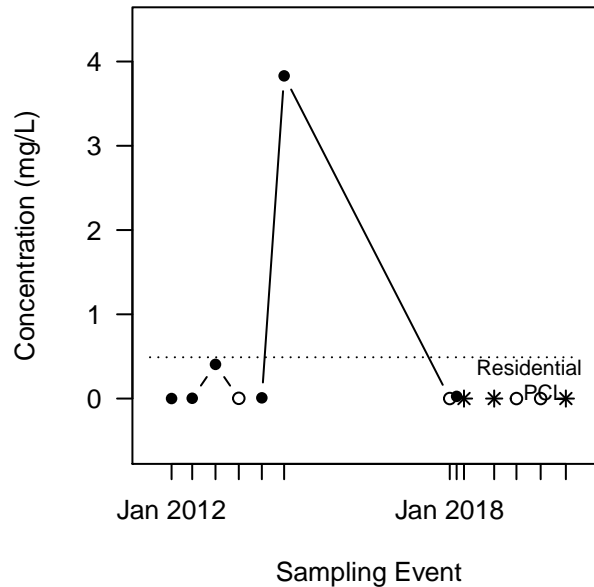
Benzene (Det/N = 3/13)
No Trend
(p-value=0.121 and CV=2.4)



Dibenzofuran (Det/N = 9/13)
Decreasing
(p-value=0.0273 and CV=2.7)



Naphthalene (Det/N = 9/13)
No Trend
(p-value=0.146 and CV=3.2)

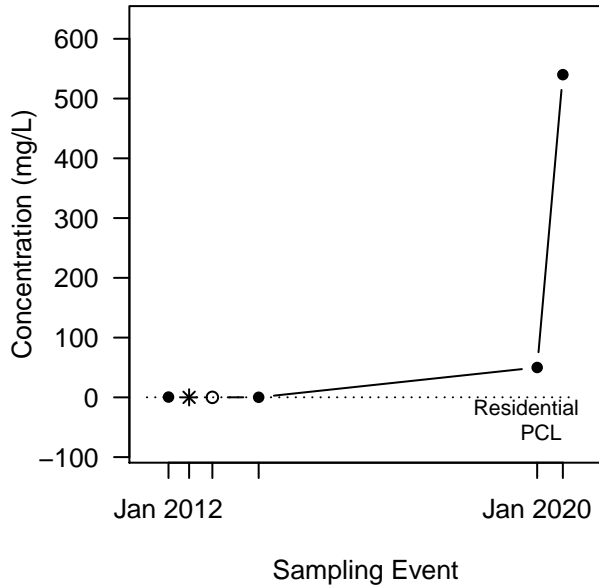


LEGEND:
 Concentration
 ● DET
 * DET, J-flagged
 ○ ND (DL plotted)

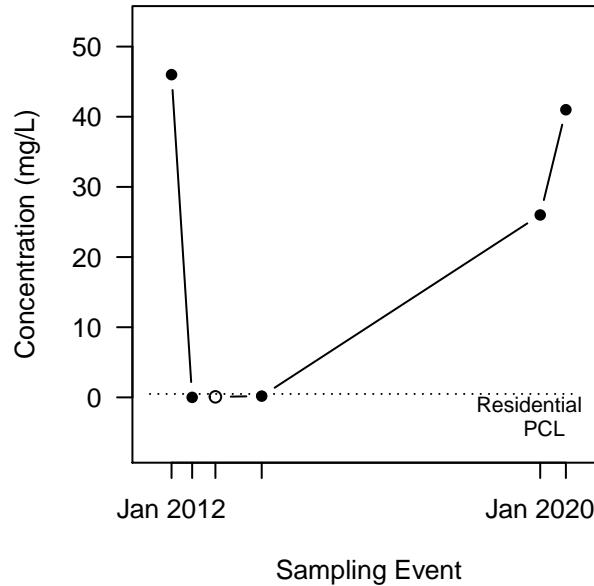
NOTE: A p-value < 0.05 indicates a statistically significant trend.
 A p-value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann–Kendall Trend Tests for MW–32B

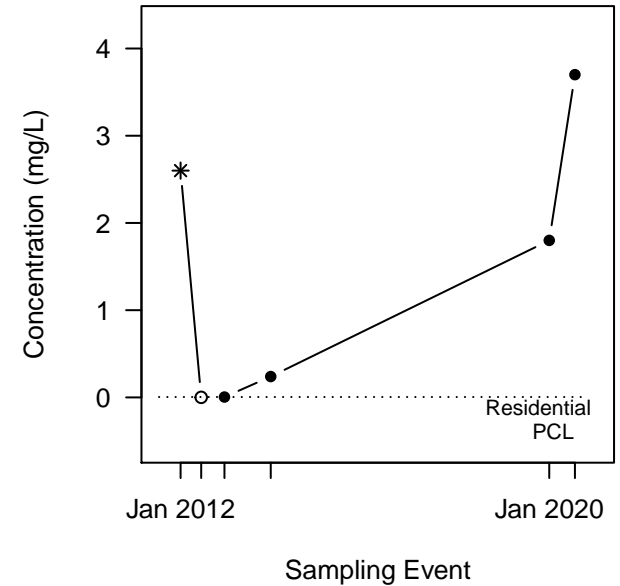
2–Methylnaphthalene (Det/N = 5/6)
No Trend
 (p–value=0.13 and CV=2.2)



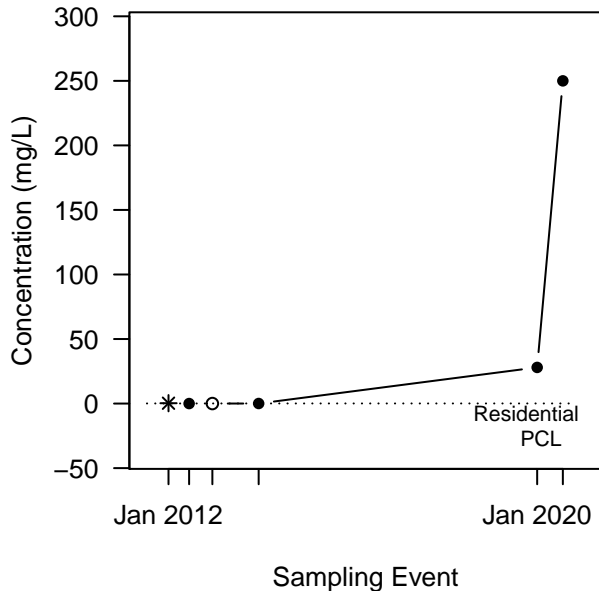
2,4–Dimethylphenol (Det/N = 5/6)
No Trend
 (p–value=0.354 and CV=1.1)



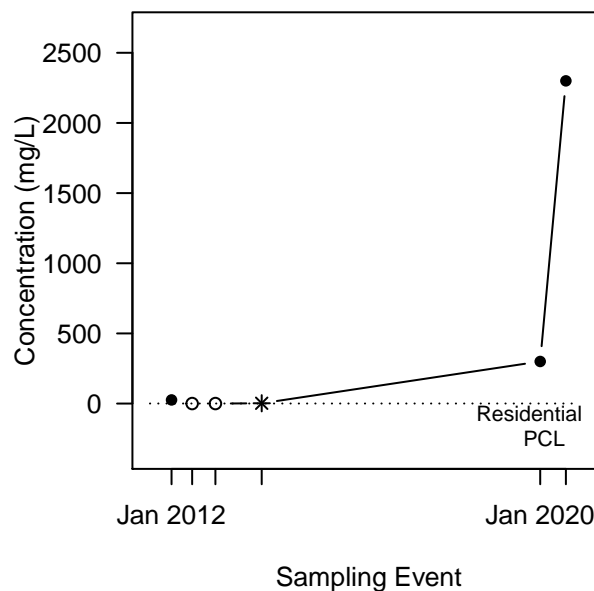
Benzene (Det/N = 5/6)
No Trend
 (p–value=0.13 and CV=1.1)



Dibenzofuran (Det/N = 5/6)
No Trend
 (p–value=0.13 and CV=2.2)



Naphthalene (Det/N = 4/6)
Probably Increasing
 (p–value=0.0903 and CV=2.1)

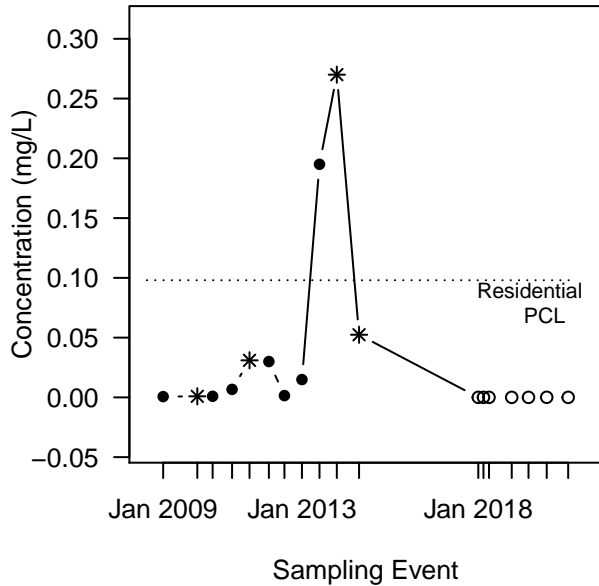


LEGEND:
 Concentration
 ● DET
 * DET, J–flagged
 ○ ND (DL plotted)

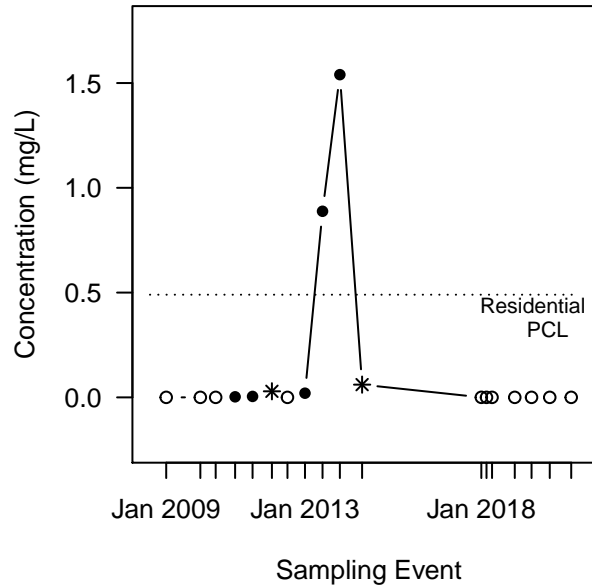
NOTE: A p–value<0.05 indicates a statistically significant trend.
 A p–value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann–Kendall Trend Tests for MW–33A

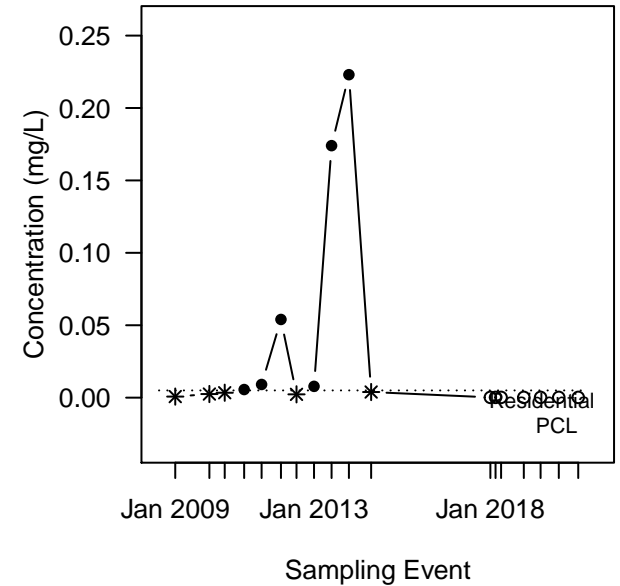
2-Methylnaphthalene (Det/N = 11/18)
Probably Decreasing
 (p-value=0.0738 and CV=2.2)



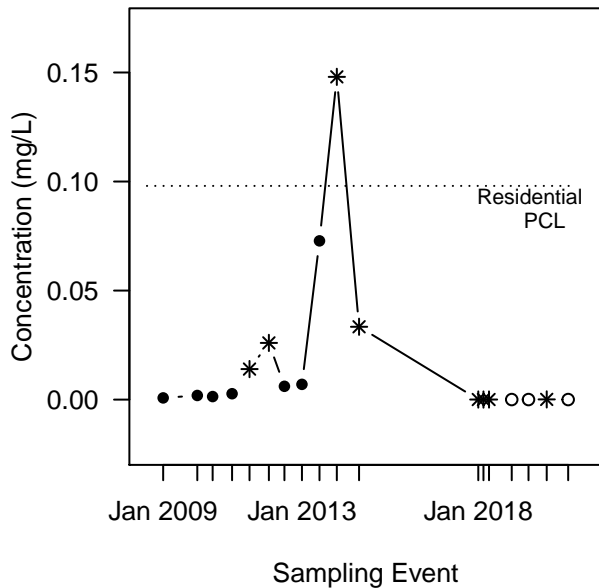
2,4-Dimethylphenol (Det/N = 7/18)
No Trend
 (p-value=0.317 and CV=2.9)



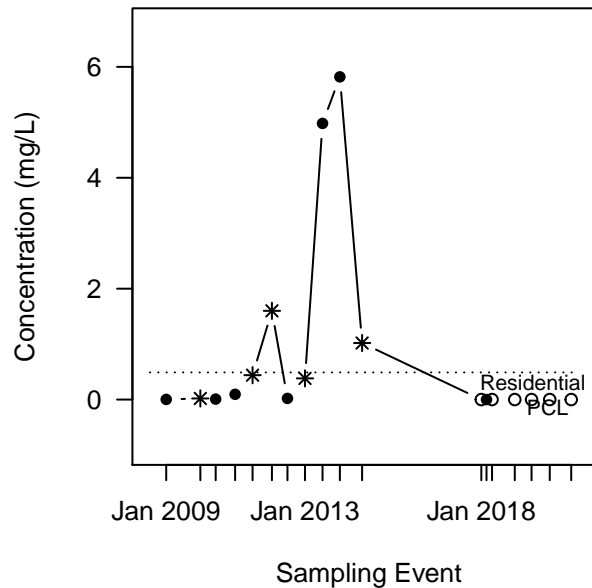
Benzene (Det/N = 11/18)
Decreasing
 (p-value=0.0329 and CV=2.4)



Dibenzofuran (Det/N = 15/18)
Probably Decreasing
 (p-value=0.0597 and CV=2.1)



Naphthalene (Det/N = 12/18)
Decreasing
 (p-value=0.0482 and CV=2.2)

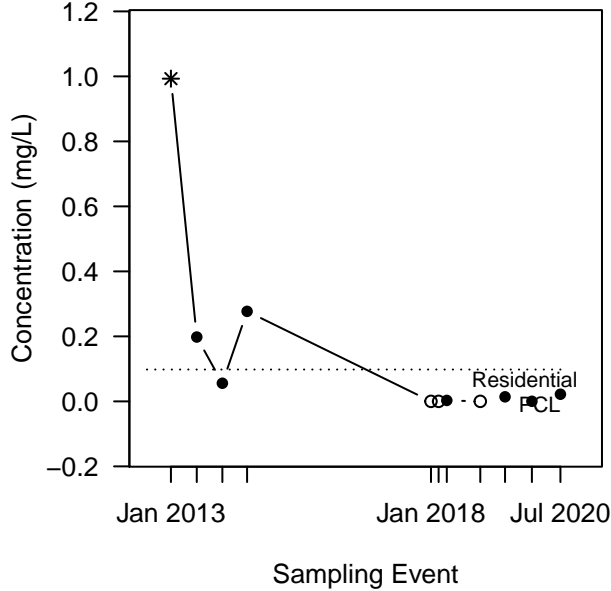


LEGEND:
 Concentration
 ● DET
 * DET, J-flagged
 ○ ND (DL plotted)

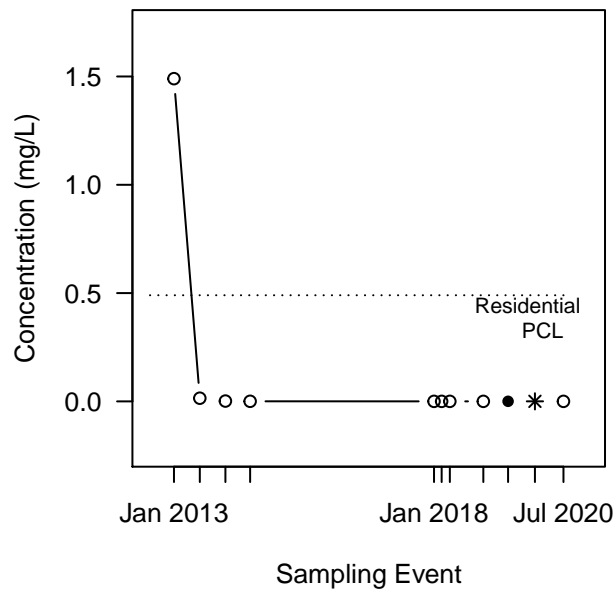
NOTE: A p-value<0.05 indicates a statistically significant trend.
 A p-value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann-Kendall Trend Tests for MW-33BR

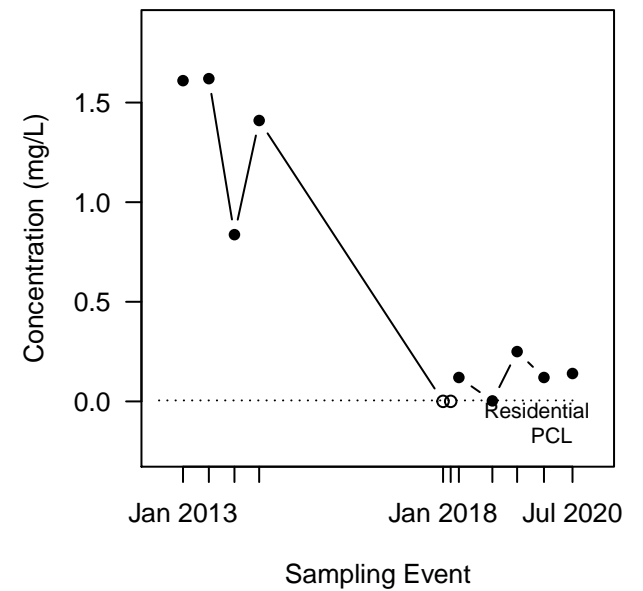
2-Methylnaphthalene (Det/N = 8/11)
Probably Decreasing
 (p-value=0.0904 and CV=2.1)



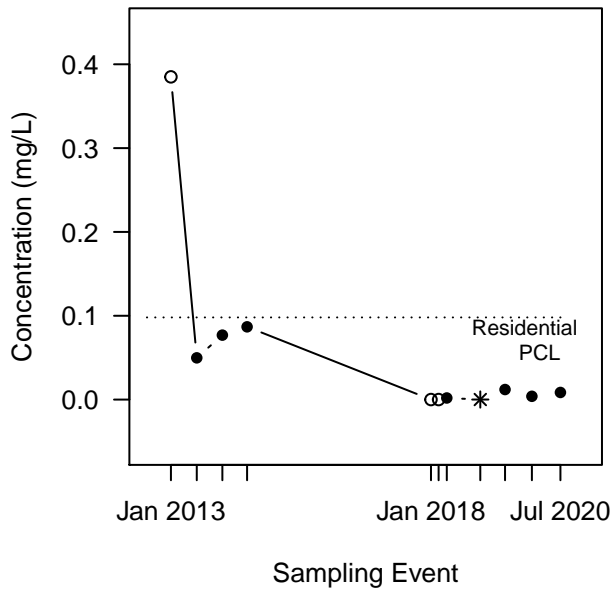
2,4-Dimethylphenol (Det/N = 2/11)
Probably Increasing
 (p-value=0.0801 and CV=3.3)



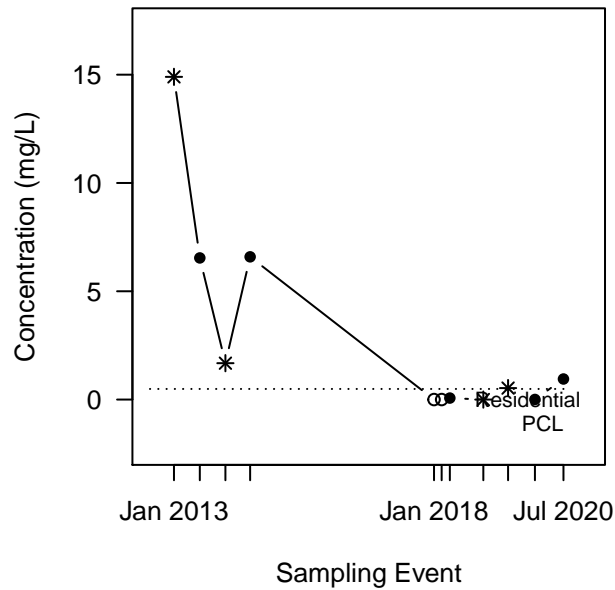
Benzene (Det/N = 9/11)
No Trend
 (p-value=0.105 and CV=1.2)



Dibenzofuran (Det/N = 8/11)
No Trend
 (p-value=0.407 and CV=2)



Naphthalene (Det/N = 9/11)
No Trend
 (p-value=0.121 and CV=1.7)

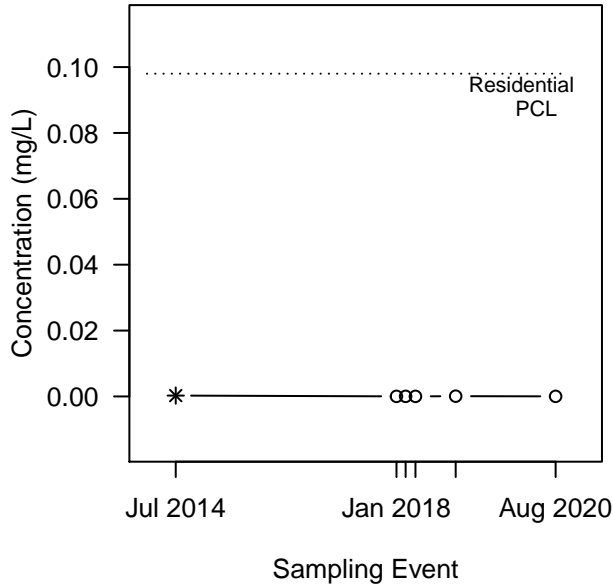


LEGEND:
 Concentration
 ● DET
 * DET, J-flagged
 ○ ND (DL plotted)

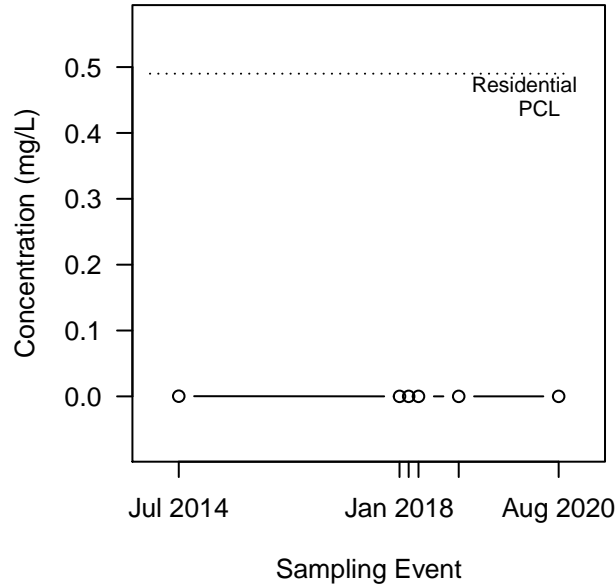
NOTE: A p-value<0.05 indicates a statistically significant trend.
 A p-value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann-Kendall Trend Tests for MW-34CR

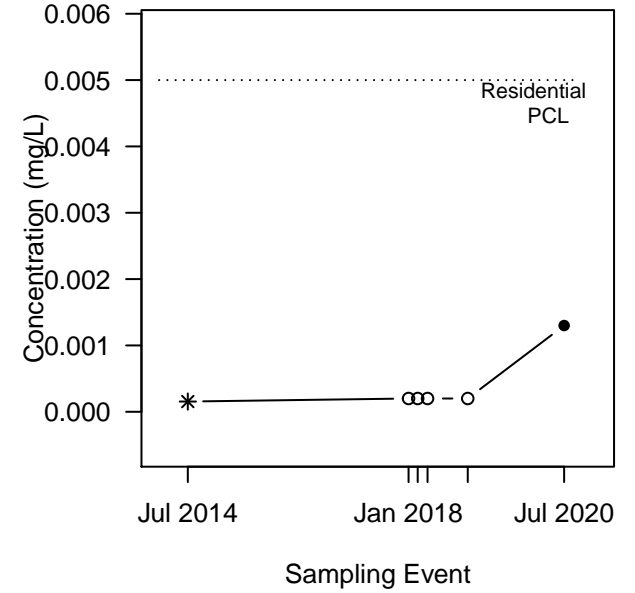
2-Methylnaphthalene (Det/N = 1/6)
No Trend
 (p-value=0.121 and CV=1.4)



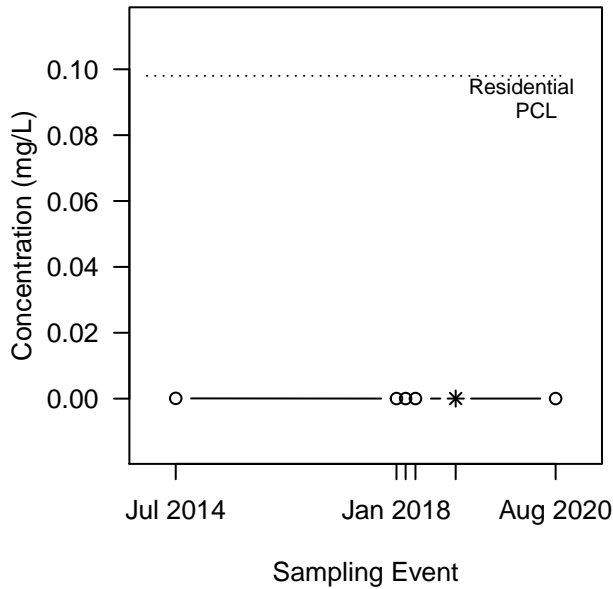
2,4-Dimethylphenol (Det/N = 0/6)
Not evaluated - All NDs



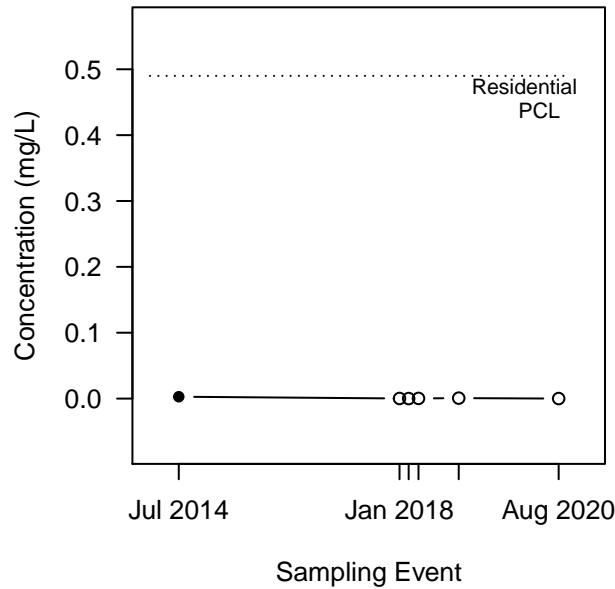
Benzene (Det/N = 2/6)
No Trend
 (p-value=0.5 and CV=1.2)



Dibenzofuran (Det/N = 1/6)
No Trend
 (p-value=0.279 and CV=0.76)



Naphthalene (Det/N = 1/6)
No Trend
 (p-value=0.121 and CV=1.7)

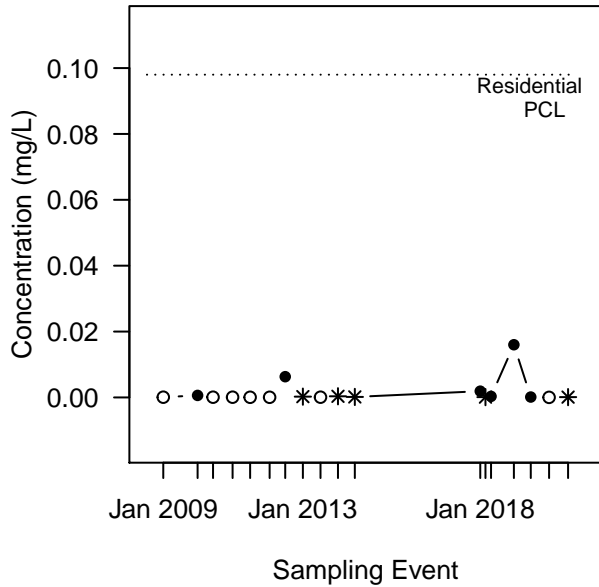


LEGEND:
 Concentration
 ● DET
 * DET, J-flagged
 ○ ND (DL plotted)

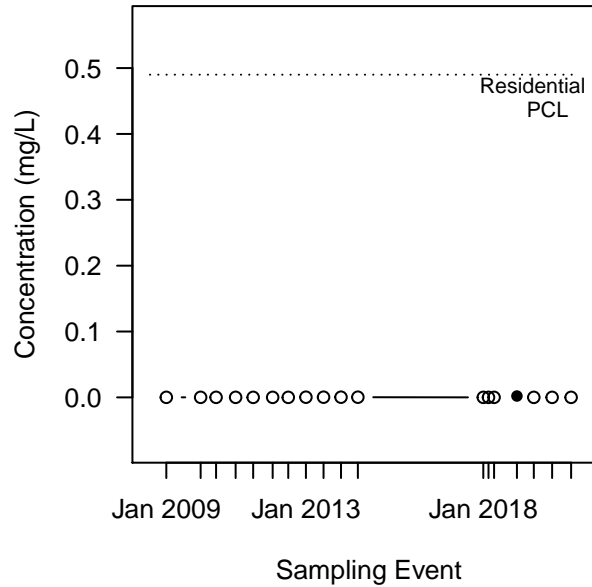
NOTE: A p-value < 0.05 indicates a statistically significant trend.
 A p-value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann-Kendall Trend Tests for MW-35A

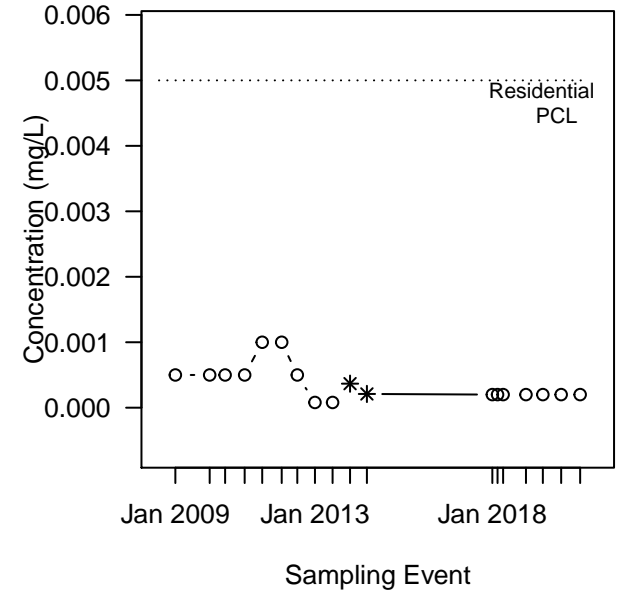
2-Methylnaphthalene (Det/N = 11/18)
No Trend
(p-value=0.174 and CV=2.7)



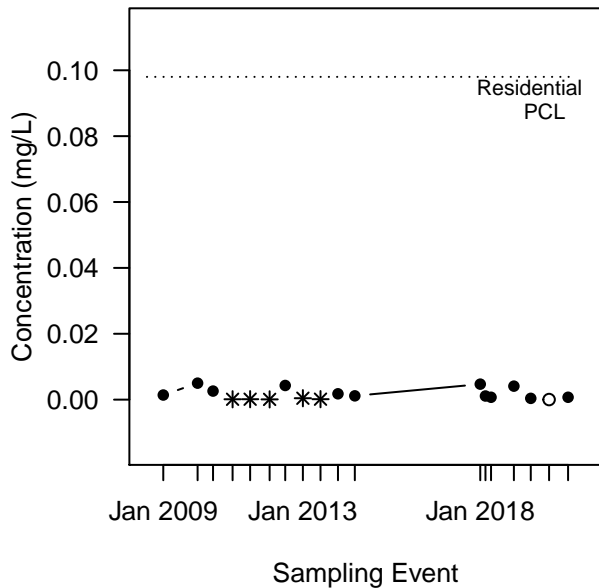
2,4-Dimethylphenol (Det/N = 1/18)
No Trend
(p-value=0.168 and CV=2.2)



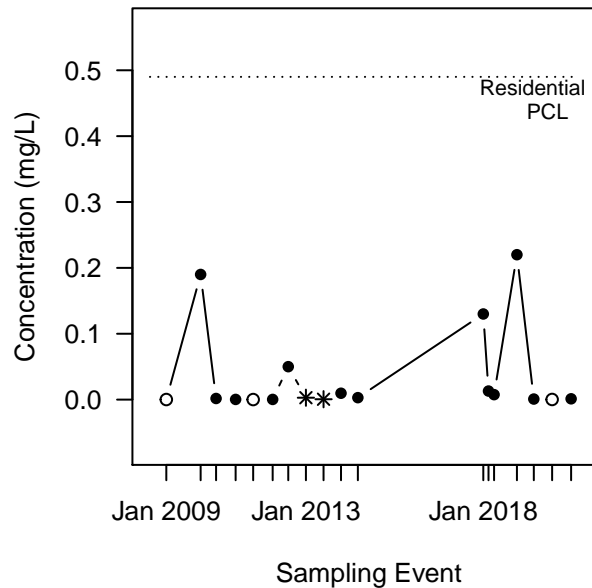
Benzene (Det/N = 2/18)
No Trend
(p-value=0.444 and CV=0.74)



Dibenzofuran (Det/N = 17/18)
No Trend
(p-value=0.26 and CV=1.1)



Naphthalene (Det/N = 15/18)
No Trend
(p-value=0.213 and CV=2)

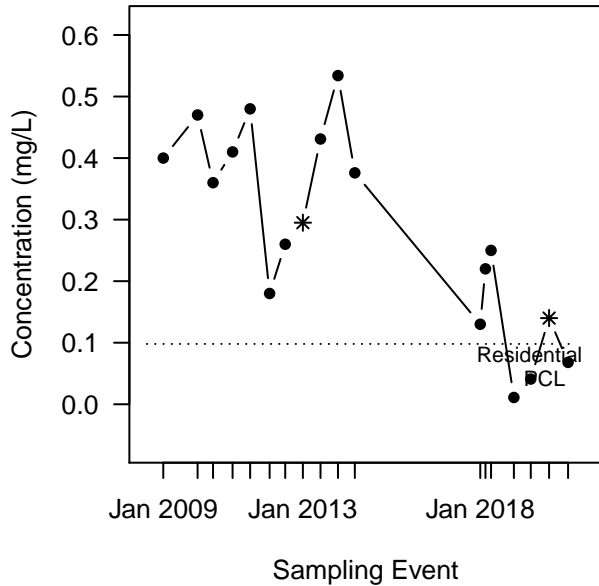


LEGEND:
 Concentration
 ● DET
 * DET, J-flagged
 ○ ND (DL plotted)

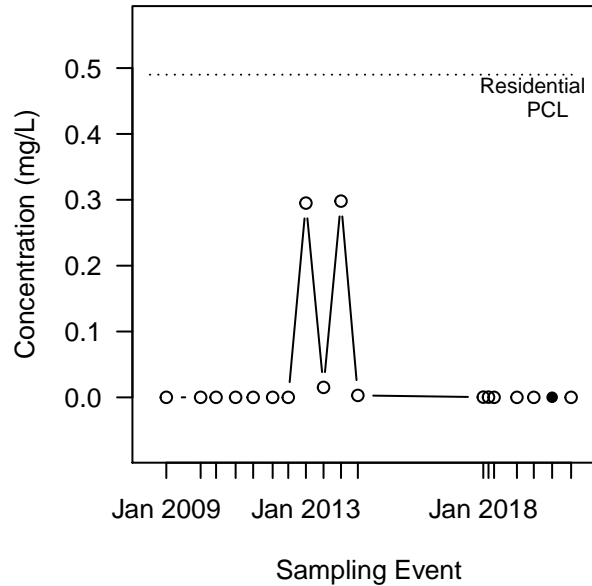
NOTE: A p-value < 0.05 indicates a statistically significant trend.
 A p-value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann-Kendall Trend Tests for MW-35B

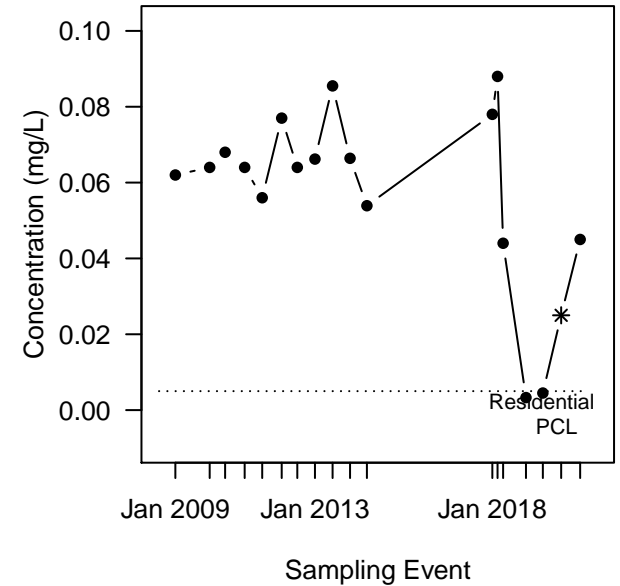
2-Methylnaphthalene (Det/N = 18/18)
Decreasing
 (p-value=0.00319 and CV=0.57)



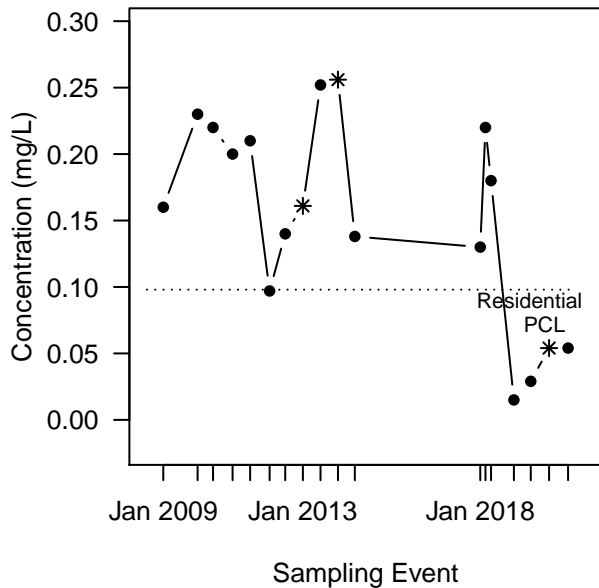
2,4-Dimethylphenol (Det/N = 1/18)
Probably Increasing
 (p-value=0.0886 and CV=2.8)



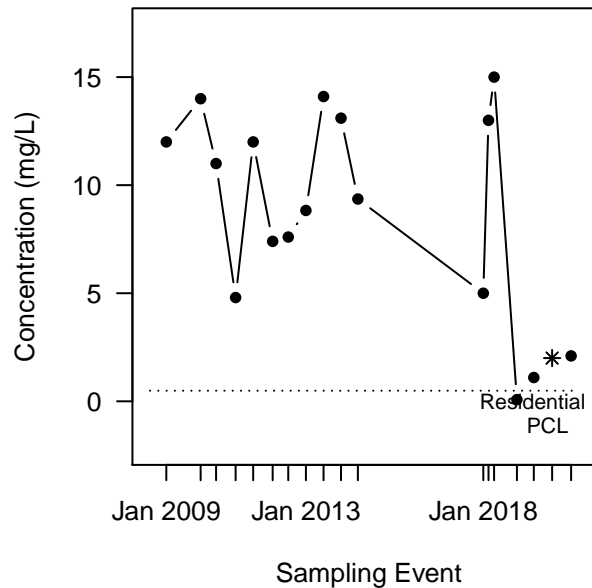
Benzene (Det/N = 18/18)
Stable
 (p-value=0.12 and CV=0.43)



Dibenzofuran (Det/N = 18/18)
Decreasing
 (p-value=0.0168 and CV=0.5)



Naphthalene (Det/N = 18/18)
Probably Decreasing
 (p-value=0.0804 and CV=0.58)

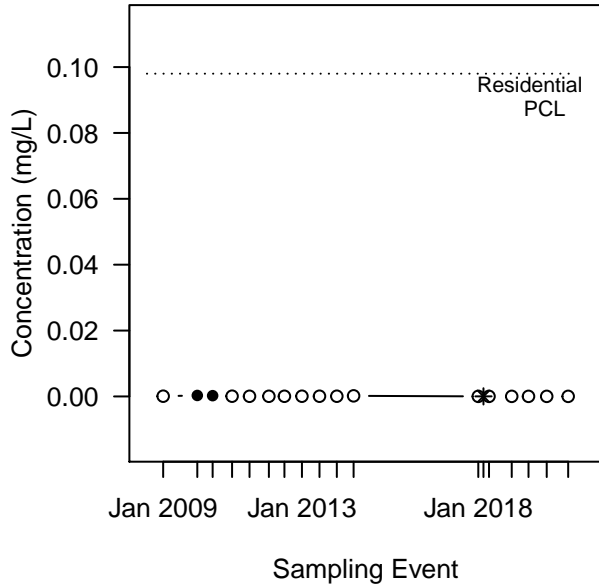


LEGEND:
 Concentration
 ● DET
 * DET, J-flagged
 ○ ND (DL plotted)

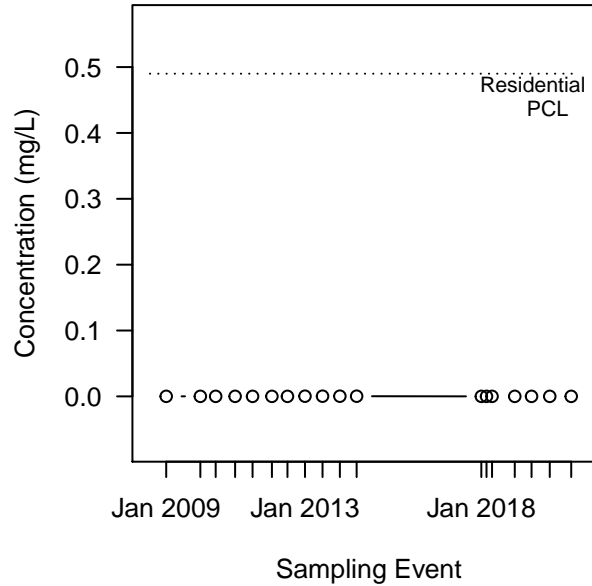
NOTE: A p-value < 0.05 indicates a statistically significant trend.
 A p-value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann-Kendall Trend Tests for MW-36A

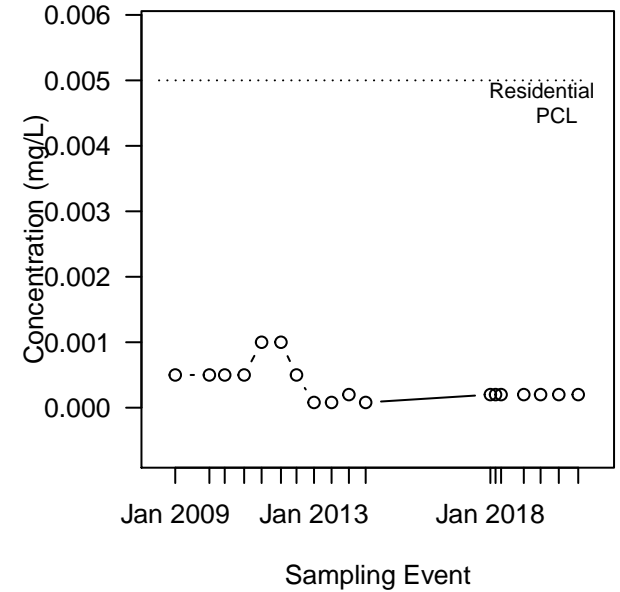
2-Methylnaphthalene (Det/N = 3/18)
Probably Decreasing
(p-value=0.0879 and CV=1.1)



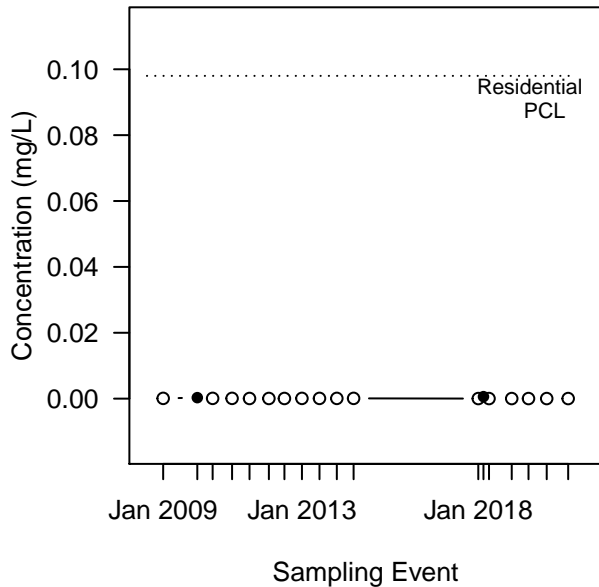
2,4-Dimethylphenol (Det/N = 0/18)
Not evaluated – All NDs



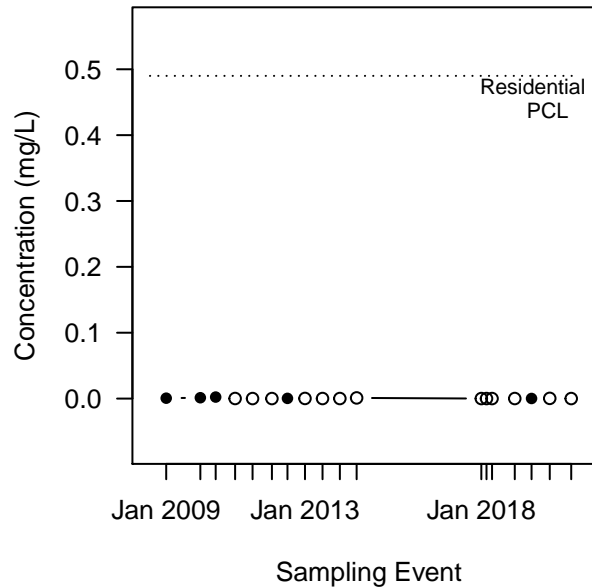
Benzene (Det/N = 0/18)
Not evaluated – All NDs



Dibenzofuran (Det/N = 2/18)
No Trend
(p-value=0.337 and CV=1.5)



Naphthalene (Det/N = 5/18)
Decreasing
(p-value=0.0266 and CV=1.6)

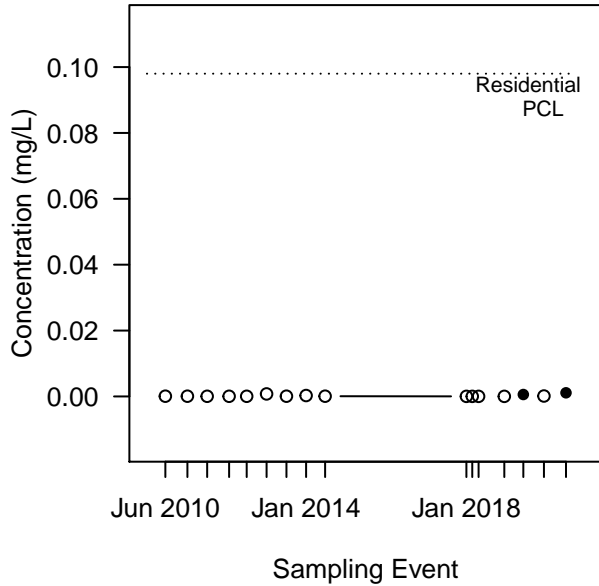


LEGEND:
 Concentration
 ● DET
 * DET, J-flagged
 ○ ND (DL plotted)

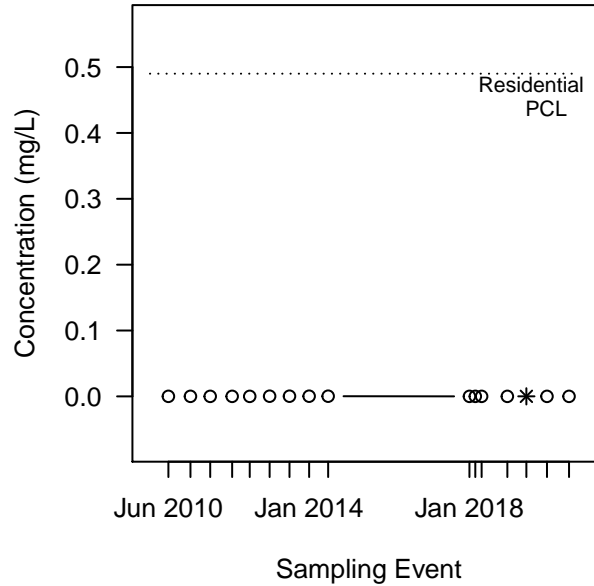
NOTE: A p-value < 0.05 indicates a statistically significant trend.
 A p-value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann-Kendall Trend Tests for MW-36B

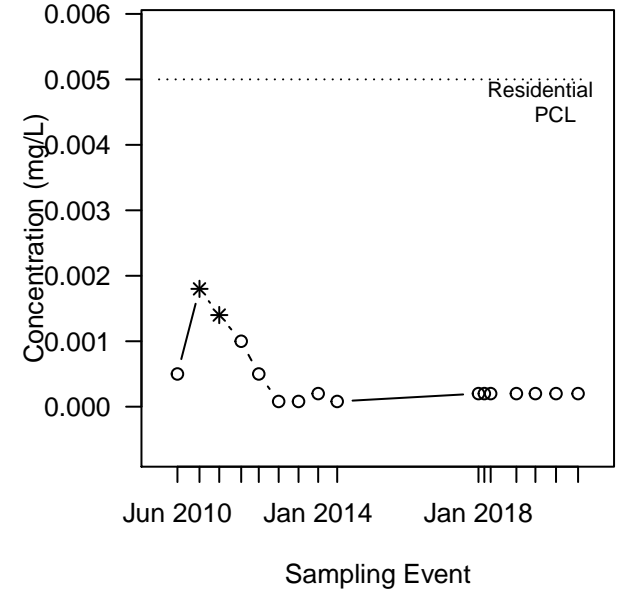
2-Methylnaphthalene (Det/N = 2/16)
Increasing
(p-value=0.0198 and CV=1.5)



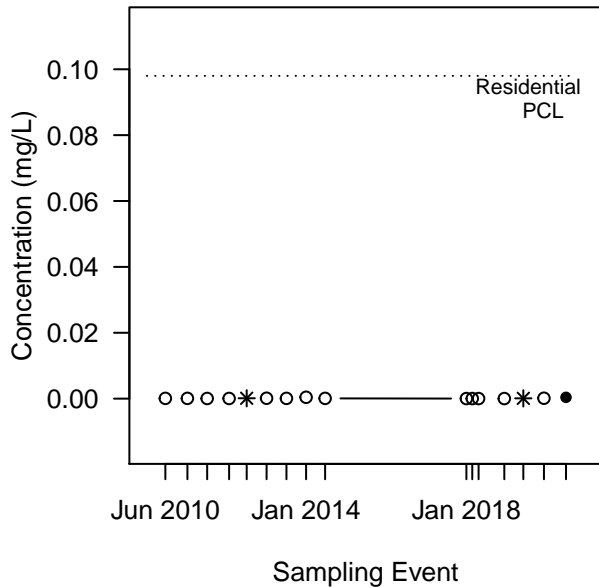
2,4-Dimethylphenol (Det/N = 1/16)
No Trend
(p-value=0.139 and CV=0.96)



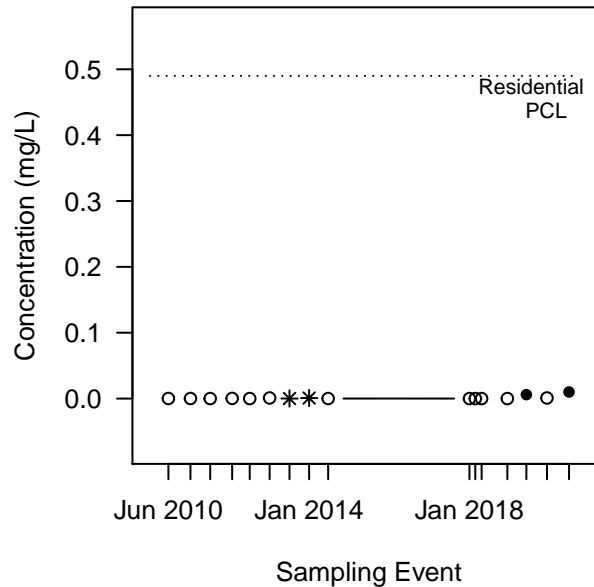
Benzene (Det/N = 2/16)
Decreasing
(p-value=0.0288 and CV=1.2)



Dibenzofuran (Det/N = 3/16)
No Trend
(p-value=0.102 and CV=1.1)



Naphthalene (Det/N = 4/16)
Probably Increasing
(p-value=0.0535 and CV=2.3)

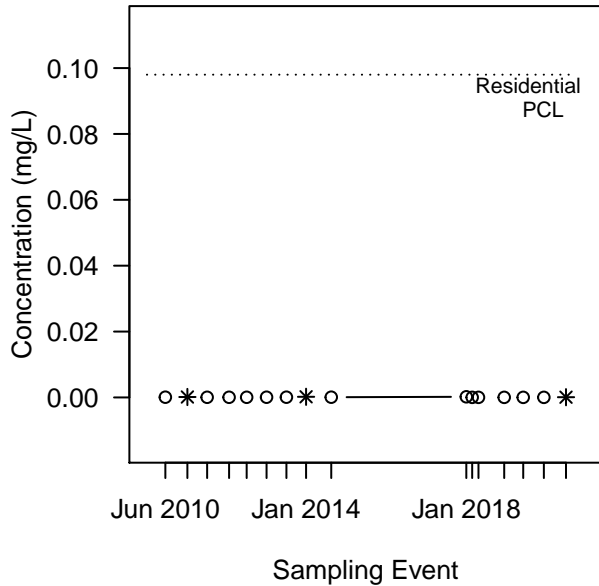


LEGEND:
 Concentration
 ● DET
 * DET, J-flagged
 ○ ND (DL plotted)

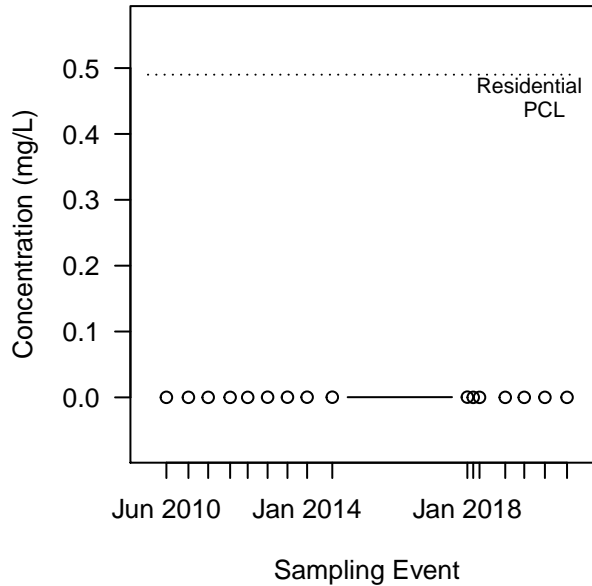
NOTE: A p-value < 0.05 indicates a statistically significant trend.
 A p-value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann-Kendall Trend Tests for MW-36D

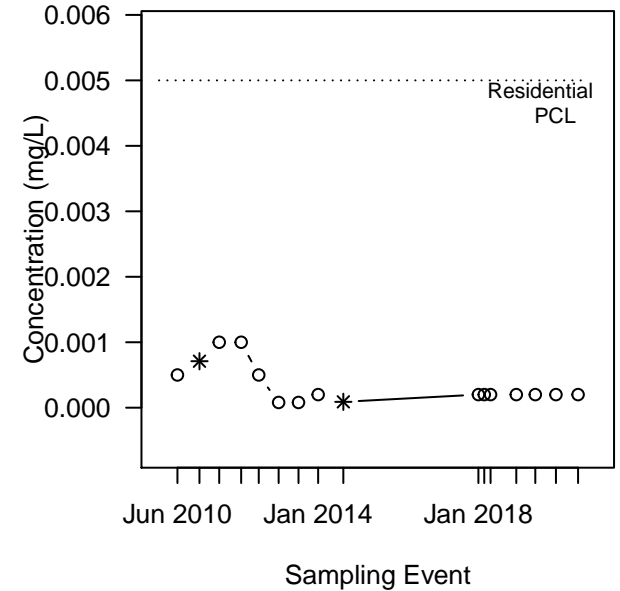
2-Methylnaphthalene (Det/N = 3/16)
No Trend
 (p-value=0.5 and CV=0.81)



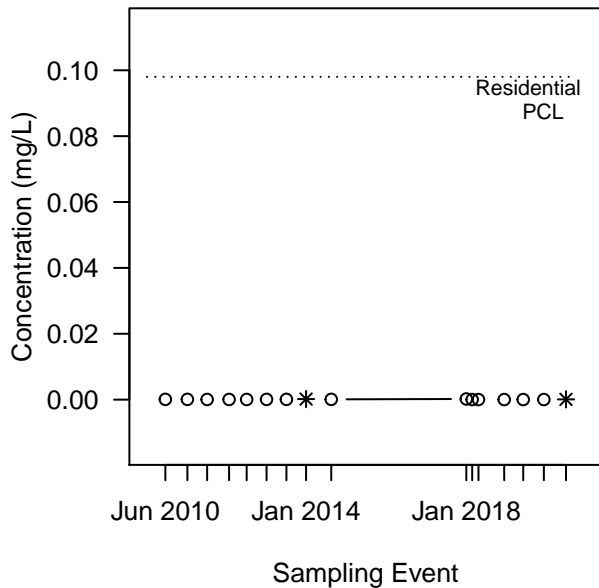
2,4-Dimethylphenol (Det/N = 0/16)
Not evaluated - All NDs



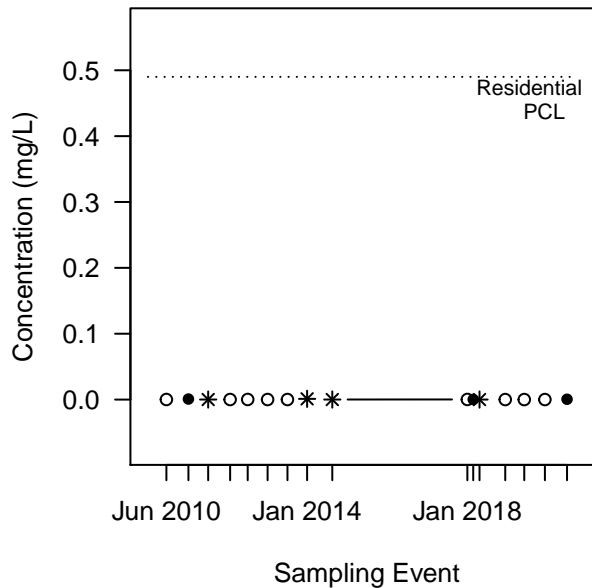
Benzene (Det/N = 2/16)
Stable
 (p-value=0.171 and CV=0.88)



Dibenzofuran (Det/N = 2/16)
No Trend
 (p-value=0.171 and CV=0.76)



Naphthalene (Det/N = 7/16)
No Trend
 (p-value=0.5 and CV=1.4)

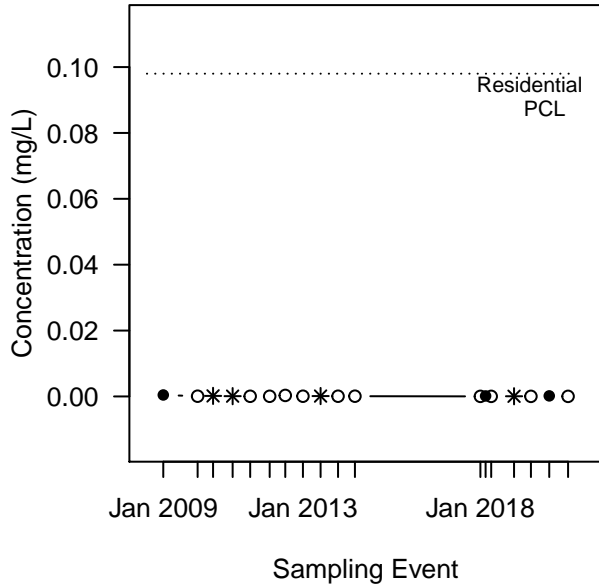


LEGEND:
 Concentration
 ● DET
 * DET, J-flagged
 ○ ND (DL plotted)

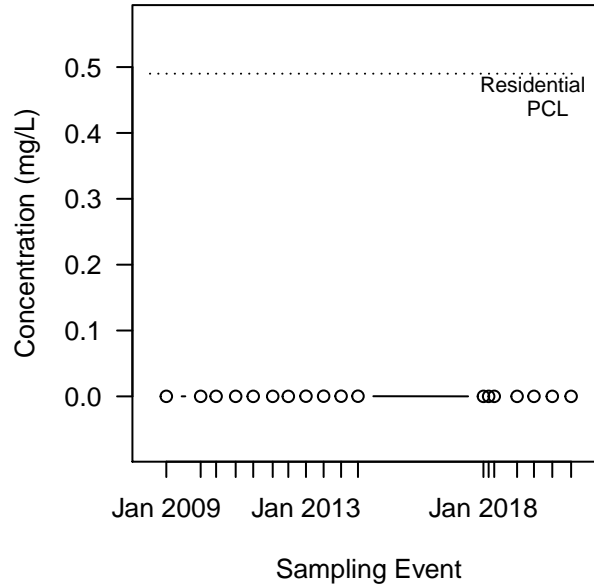
NOTE: A p-value < 0.05 indicates a statistically significant trend.
 A p-value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann-Kendall Trend Tests for MW-38A

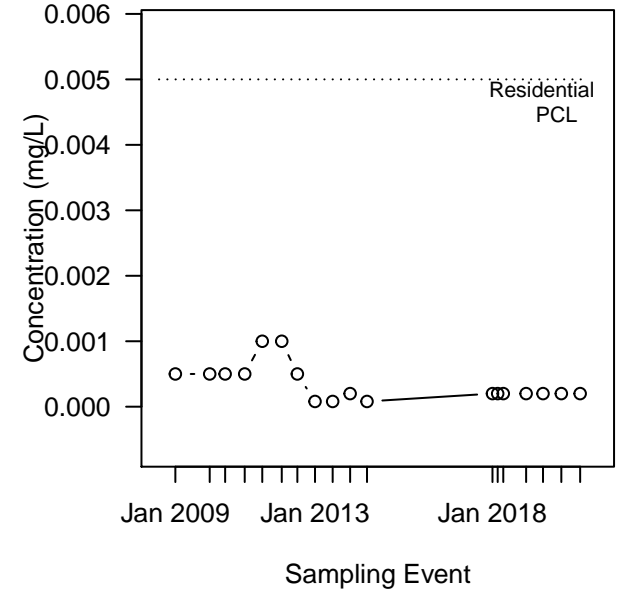
2-Methylnaphthalene (Det/N = 7/18)
No Trend
(p-value=0.287 and CV=1)



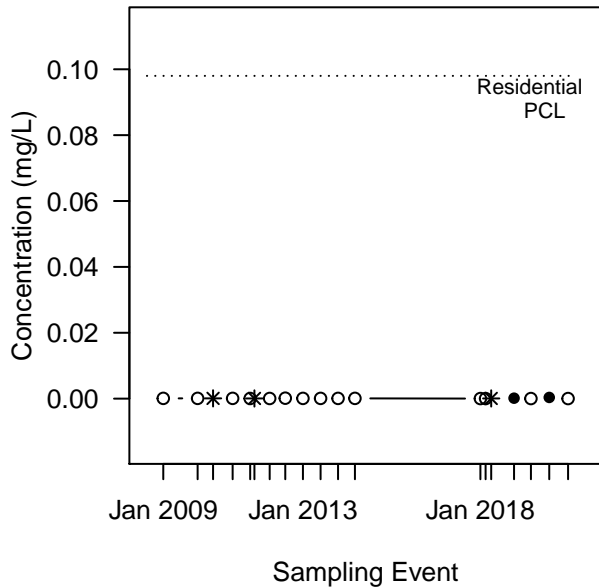
2,4-Dimethylphenol (Det/N = 0/18)
Not evaluated – All NDs



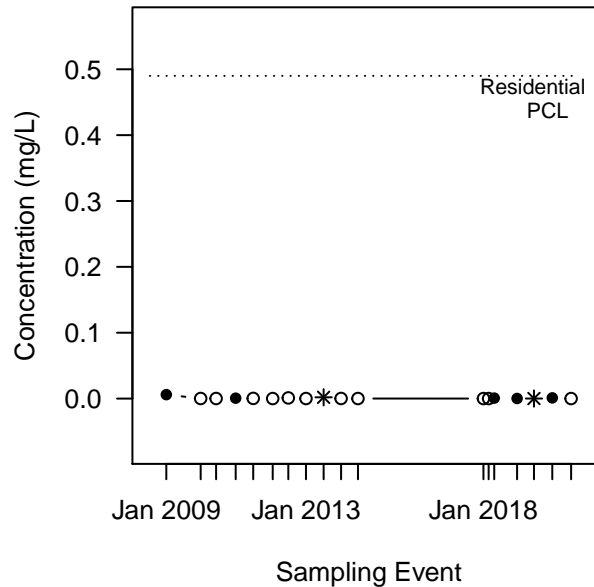
Benzene (Det/N = 0/18)
Not evaluated – All NDs



Dibenzofuran (Det/N = 5/19)
No Trend
(p-value=0.17 and CV=0.92)



Naphthalene (Det/N = 7/18)
No Trend
(p-value=0.348 and CV=2.1)

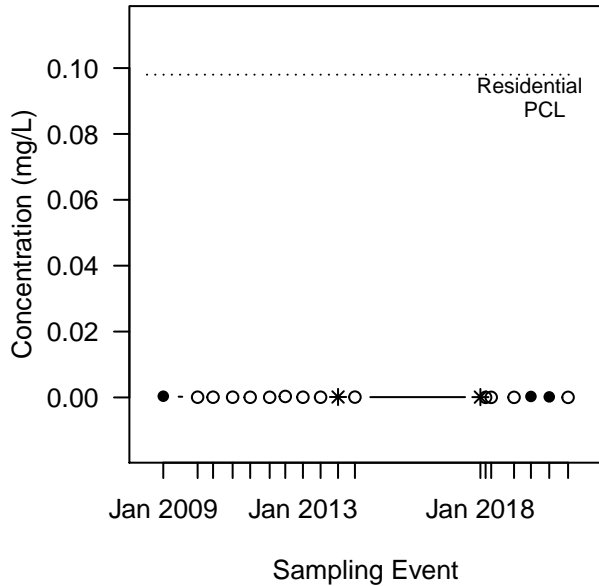


LEGEND:
 Concentration
 ● DET
 * DET, J-flagged
 ○ ND (DL plotted)

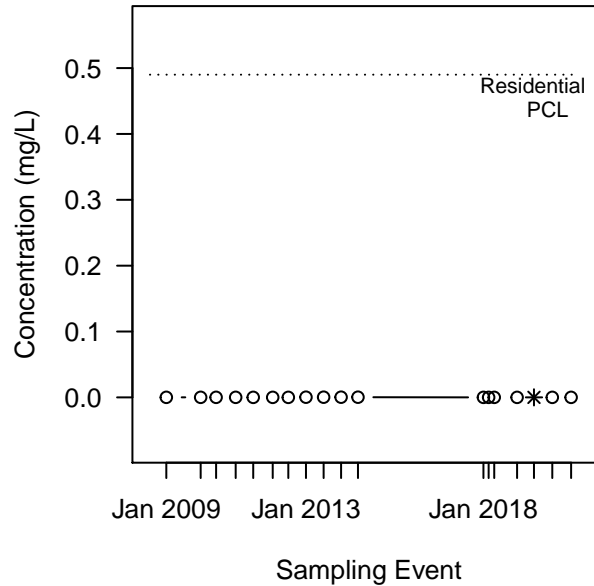
NOTE: A p-value < 0.05 indicates a statistically significant trend.
 A p-value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann-Kendall Trend Tests for MW-38B

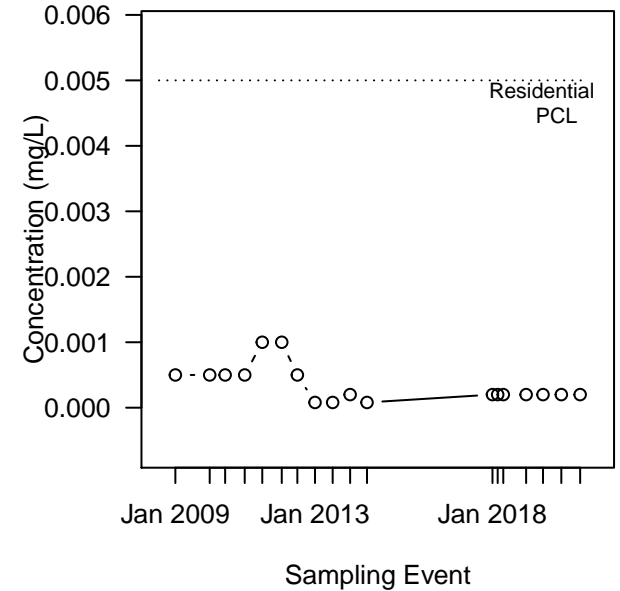
2-Methylnaphthalene (Det/N = 5/18)
No Trend
(p-value=0.249 and CV=0.96)



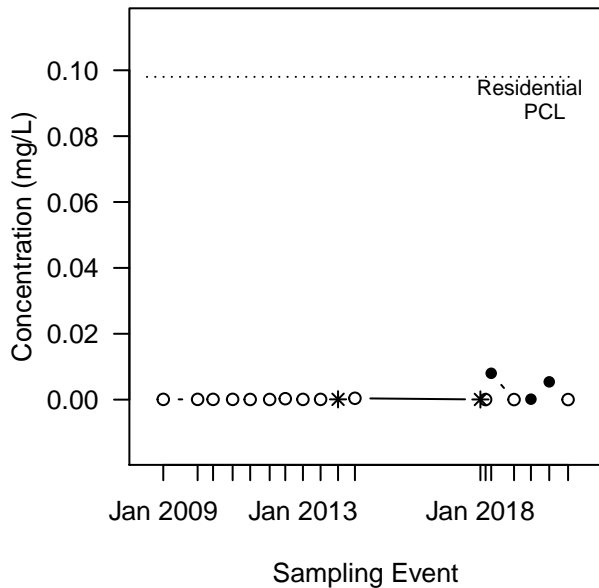
2,4-Dimethylphenol (Det/N = 1/18)
No Trend
(p-value=0.124 and CV=0.96)



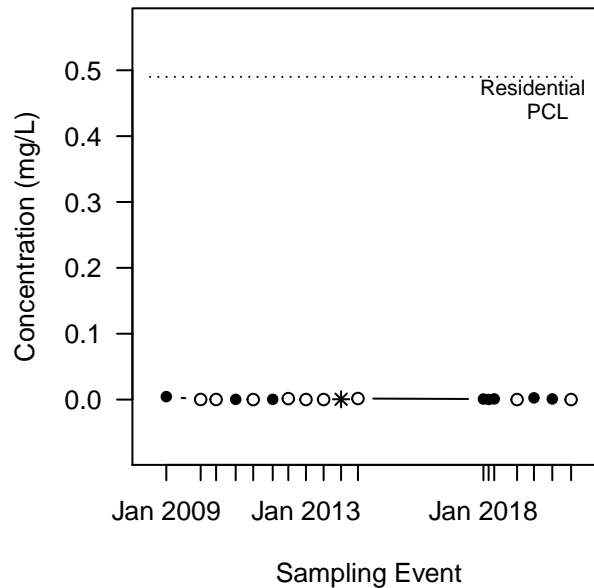
Benzene (Det/N = 0/18)
Not evaluated - All NDs



Dibenzofuran (Det/N = 5/18)
Increasing
(p-value=0.0131 and CV=2.6)



Naphthalene (Det/N = 9/18)
No Trend
(p-value=0.186 and CV=1.4)

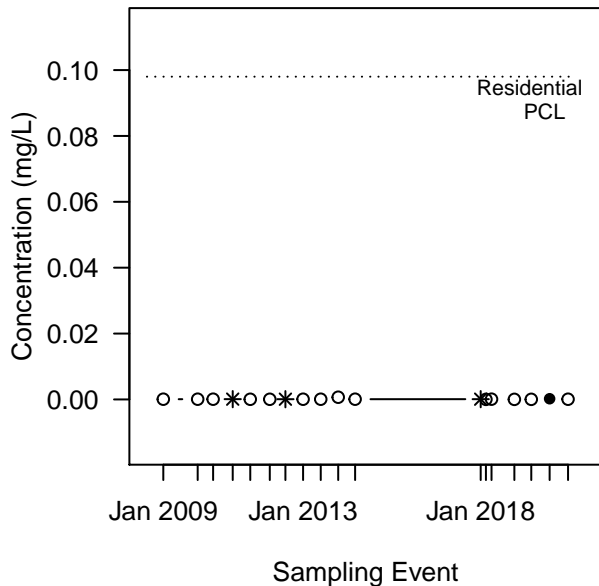


LEGEND:
 Concentration
 ● DET
 * DET, J-flagged
 ○ ND (DL plotted)

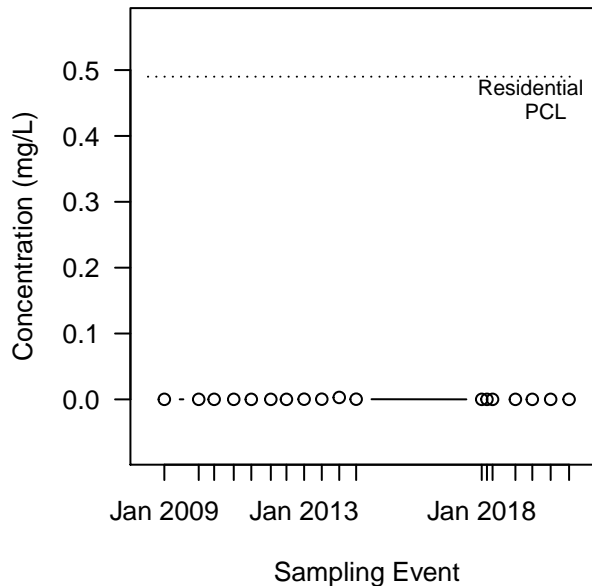
NOTE: A p-value < 0.05 indicates a statistically significant trend.
 A p-value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann-Kendall Trend Tests for MW-39B

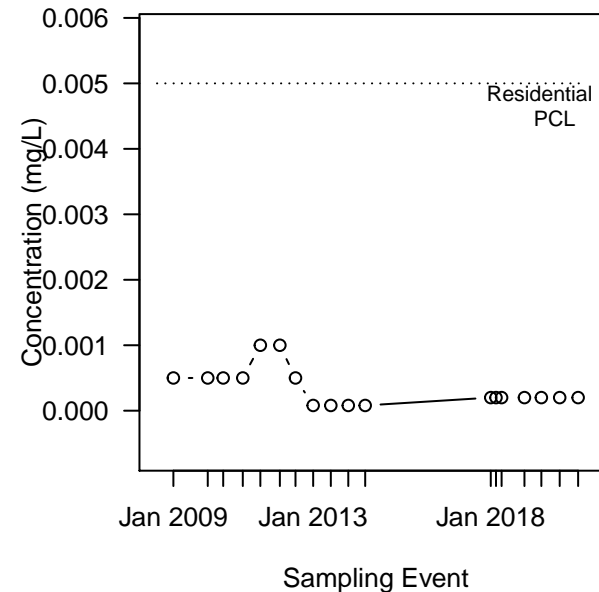
2-Methylnaphthalene (Det/N = 4/18)
No Trend
(p-value=0.397 and CV=1.4)



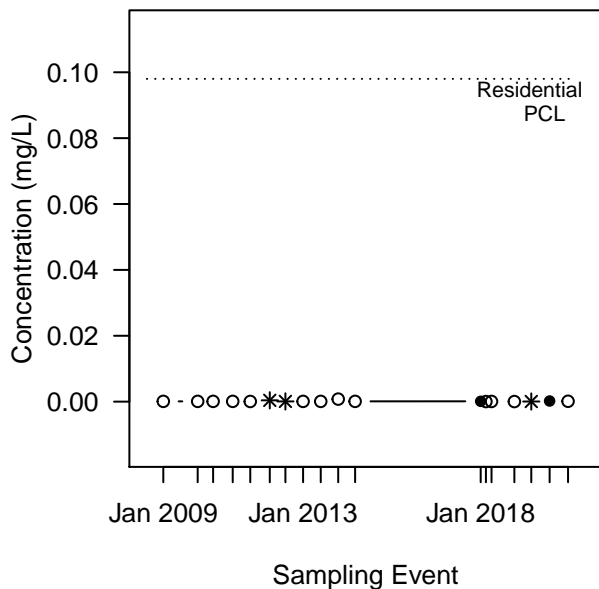
2,4-Dimethylphenol (Det/N = 0/18)
Not evaluated – All NDs



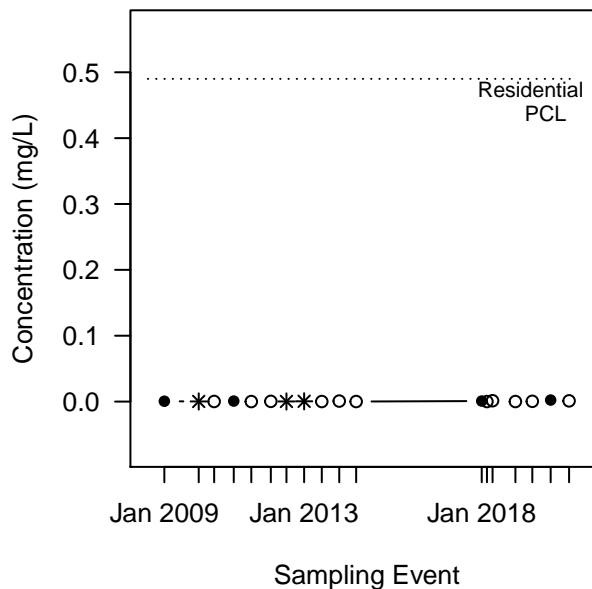
Benzene (Det/N = 0/18)
Not evaluated – All NDs



Dibenzofuran (Det/N = 5/18)
No Trend
(p-value=0.192 and CV=1.4)



Naphthalene (Det/N = 7/18)
No Trend
(p-value=0.205 and CV=1.1)

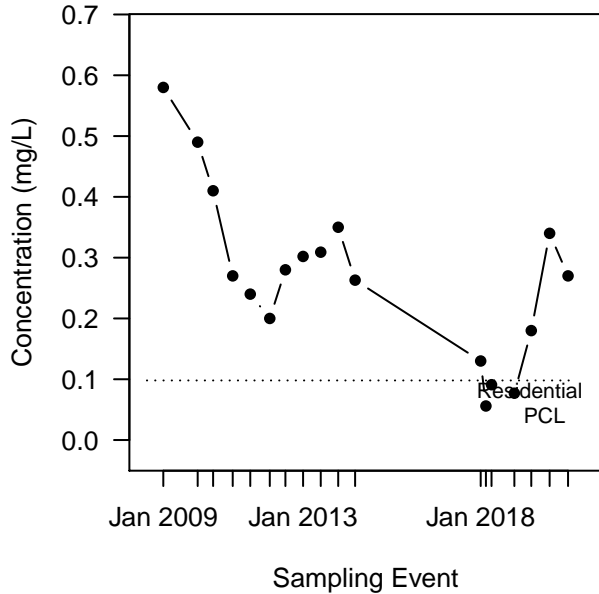


LEGEND:
 Concentration
 ● DET
 * DET, J-flagged
 ○ ND (DL plotted)

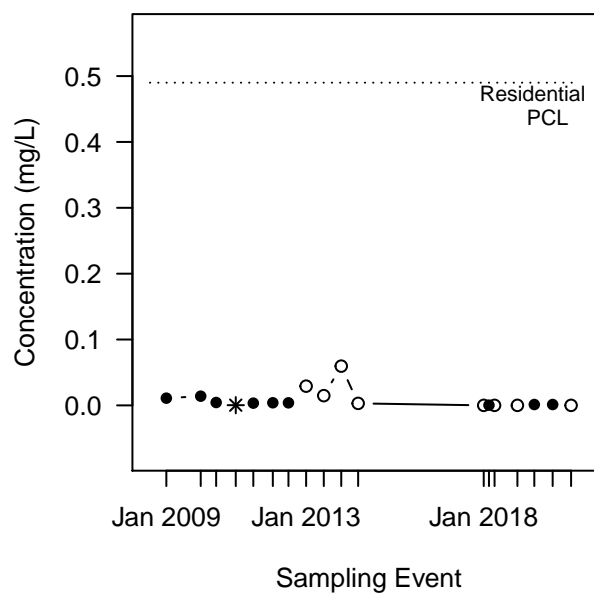
NOTE: A p-value < 0.05 indicates a statistically significant trend.
 A p-value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann-Kendall Trend Tests for MW-40B

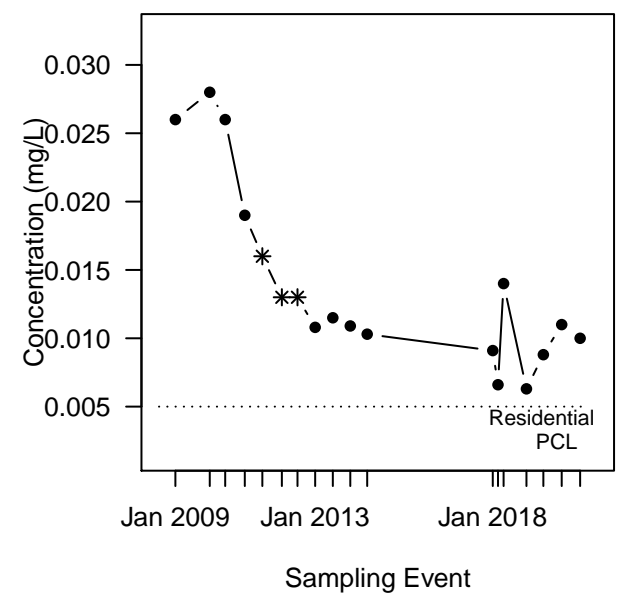
2-Methylnaphthalene (Det/N = 18/18)
Decreasing
 (p-value=0.0127 and CV=0.52)



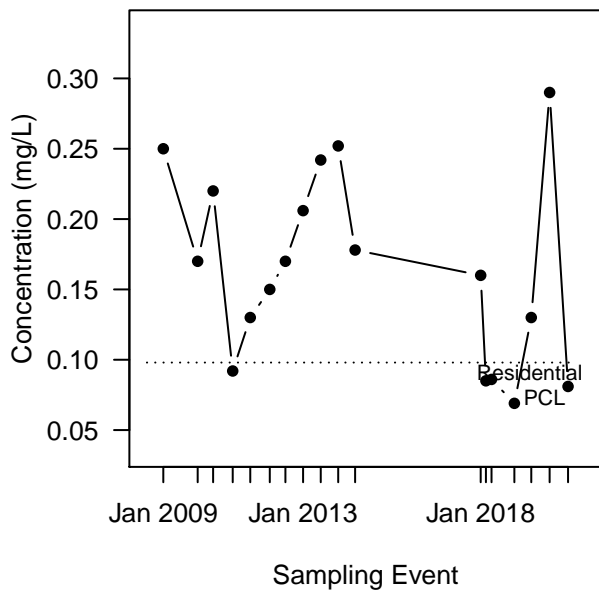
2,4-Dimethylphenol (Det/N = 10/18)
Decreasing
 (p-value=0.00606 and CV=1.8)



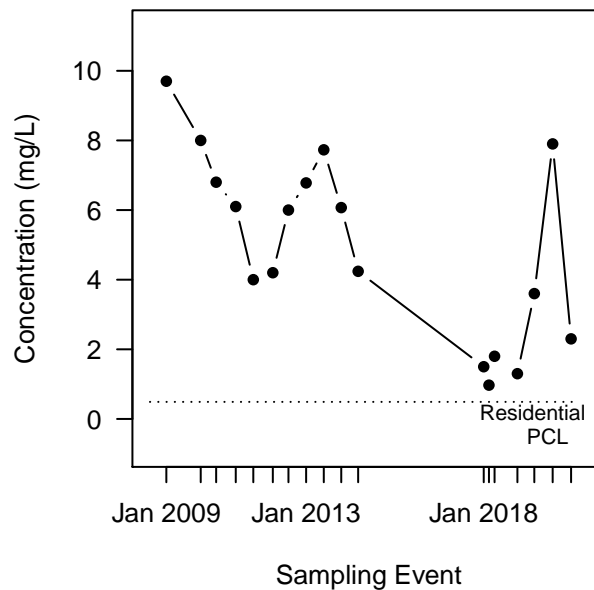
Benzene (Det/N = 18/18)
Decreasing
 (p-value=5.46e-05 and CV=0.48)



Dibenzofuran (Det/N = 18/18)
Probably Decreasing
 (p-value=0.0986 and CV=0.41)



Naphthalene (Det/N = 18/18)
Decreasing
 (p-value=0.00621 and CV=0.54)

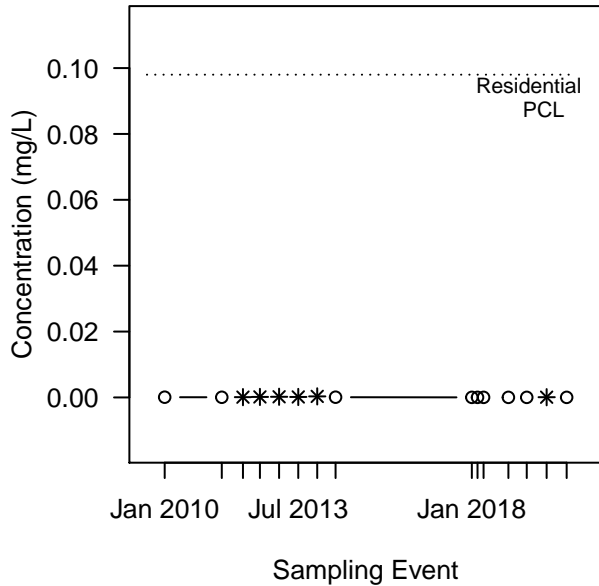


LEGEND:
 Concentration
 ● DET
 * DET, J-flagged
 ○ ND (DL plotted)

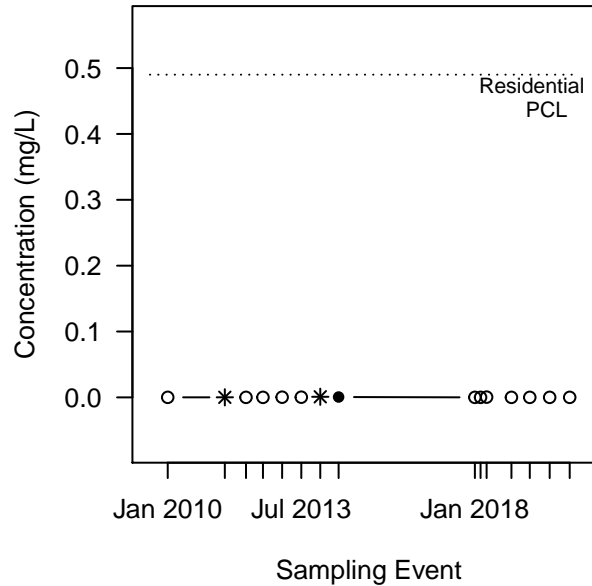
NOTE: A p-value<0.05 indicates a statistically significant trend.
 A p-value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann-Kendall Trend Tests for MW-42B

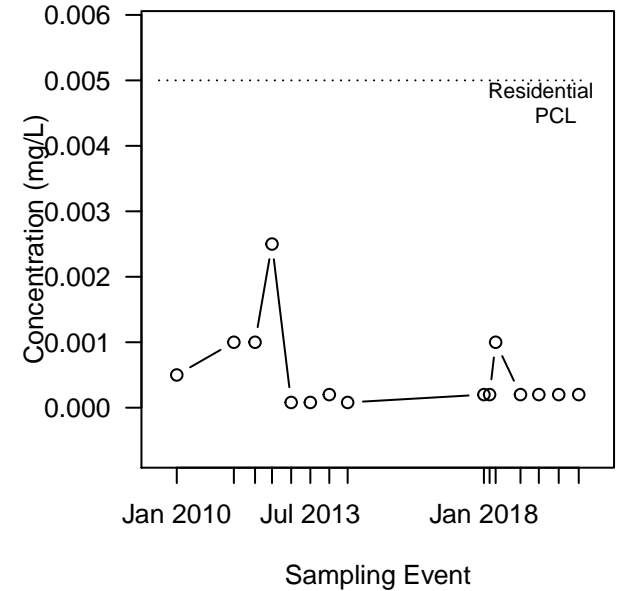
2-Methylnaphthalene (Det/N = 6/15)
No Trend
(p-value=0.184 and CV=1)



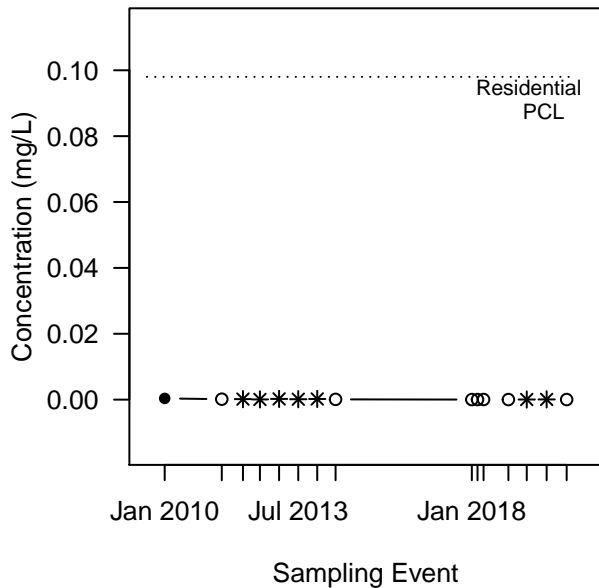
2,4-Dimethylphenol (Det/N = 3/15)
No Trend
(p-value=0.195 and CV=1.3)



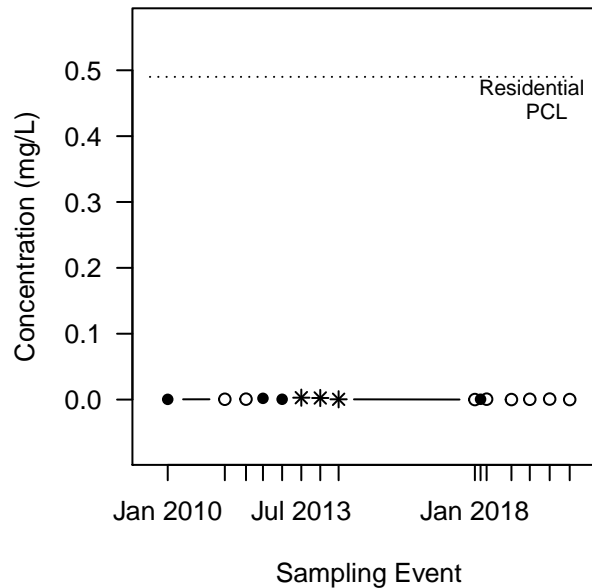
Benzene (Det/N = 0/15)
Not evaluated - All NDs



Dibenzofuran (Det/N = 8/15)
Decreasing
(p-value=0.0333 and CV=0.94)



Naphthalene (Det/N = 7/15)
Probably Decreasing
(p-value=0.0802 and CV=1.1)

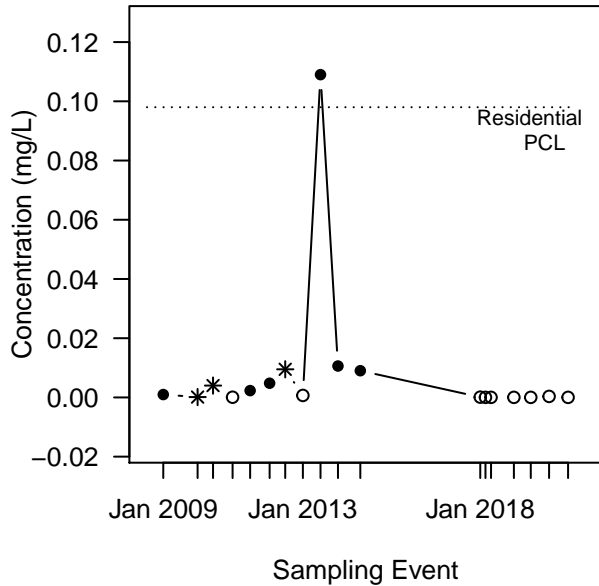


LEGEND:
 Concentration
 ● DET
 * DET, J-flagged
 ○ ND (DL plotted)

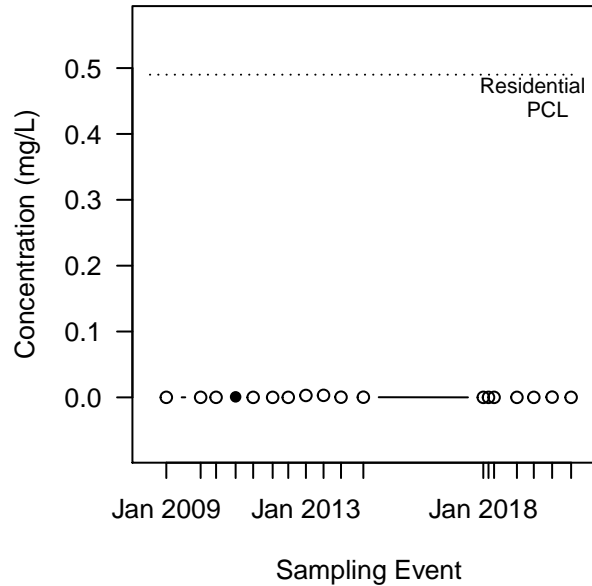
NOTE: A p-value < 0.05 indicates a statistically significant trend.
 A p-value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann-Kendall Trend Tests for MW-44A

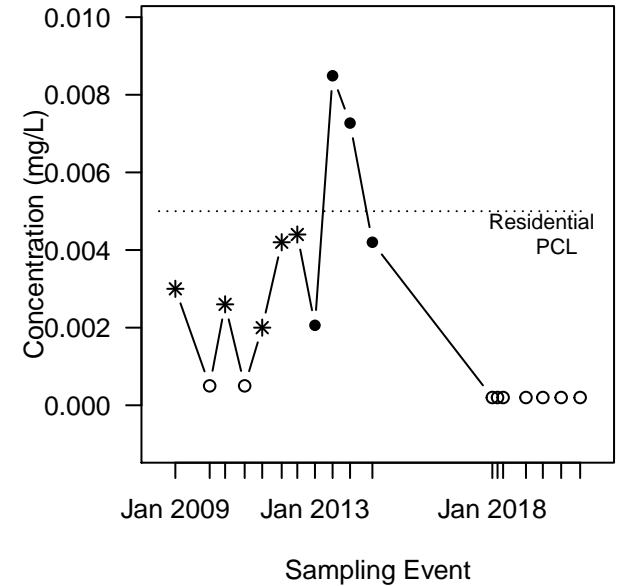
2-Methylnaphthalene (Det/N = 9/18)
Probably Decreasing
 (p-value=0.0612 and CV=3)



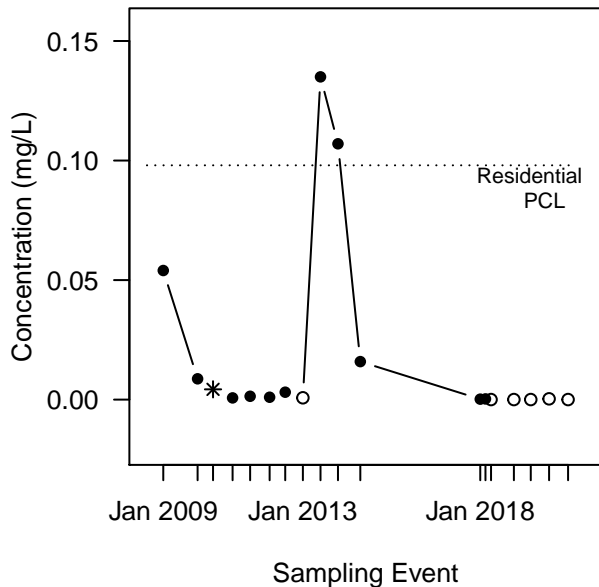
2,4-Dimethylphenol (Det/N = 1/18)
No Trend
 (p-value=0.168 and CV=2)



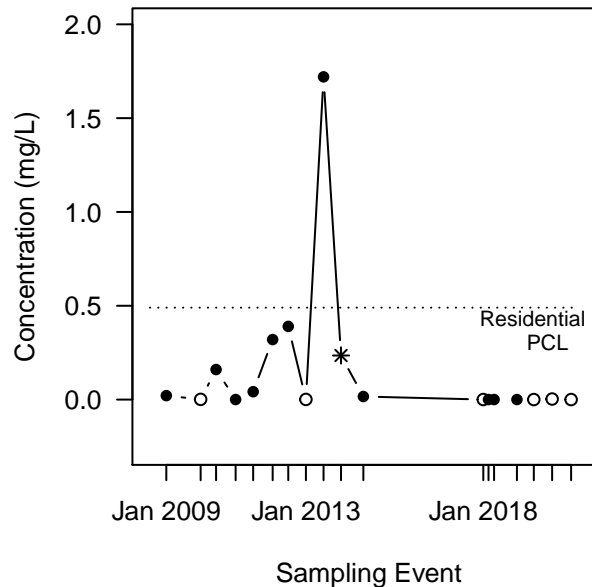
Benzene (Det/N = 9/18)
Probably Decreasing
 (p-value=0.0661 and CV=1.1)



Dibenzofuran (Det/N = 12/18)
Decreasing
 (p-value=0.00186 and CV=2.1)



Naphthalene (Det/N = 12/18)
Decreasing
 (p-value=0.0409 and CV=2.5)

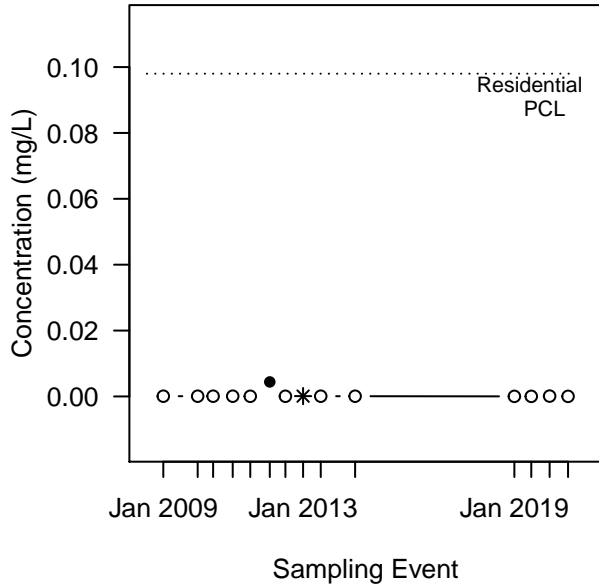


LEGEND:
 Concentration
 ● DET
 * DET, J-flagged
 ○ ND (DL plotted)

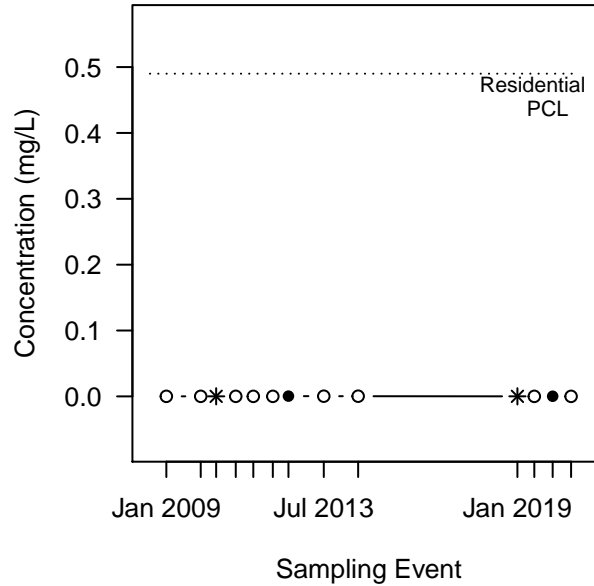
NOTE: A p-value < 0.05 indicates a statistically significant trend.
 A p-value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann-Kendall Trend Tests for MW-47C

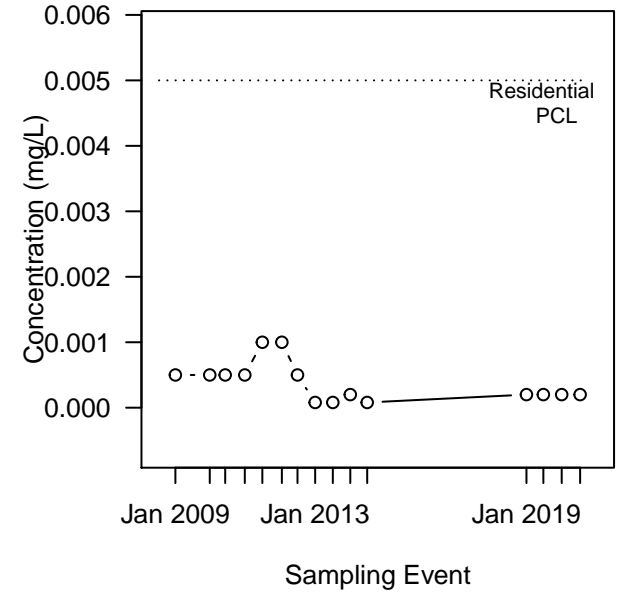
2-Methylnaphthalene (Det/N = 2/14)
No Trend
(p-value=0.428 and CV=3.1)



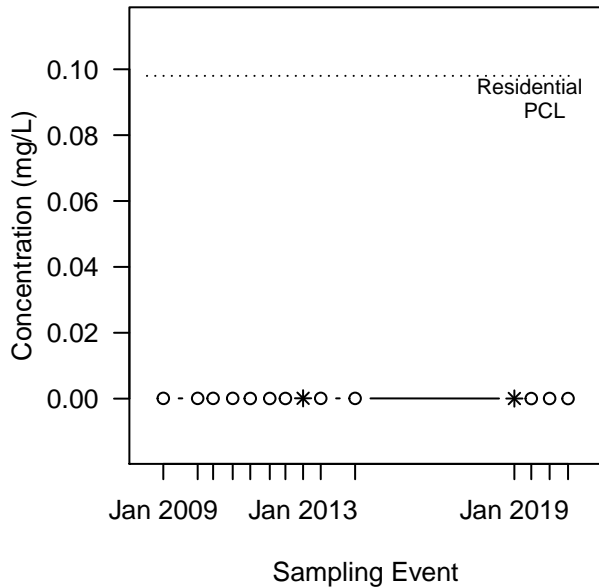
2,4-Dimethylphenol (Det/N = 4/13)
No Trend
(p-value=0.299 and CV=0.87)



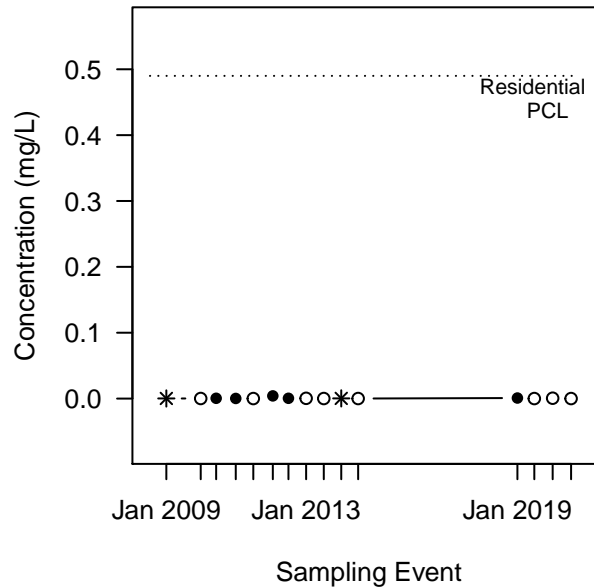
Benzene (Det/N = 0/15)
Not evaluated - All NDs



Dibenzofuran (Det/N = 2/14)
No Trend
(p-value=0.293 and CV=0.42)



Naphthalene (Det/N = 7/15)
No Trend
(p-value=0.179 and CV=1.9)

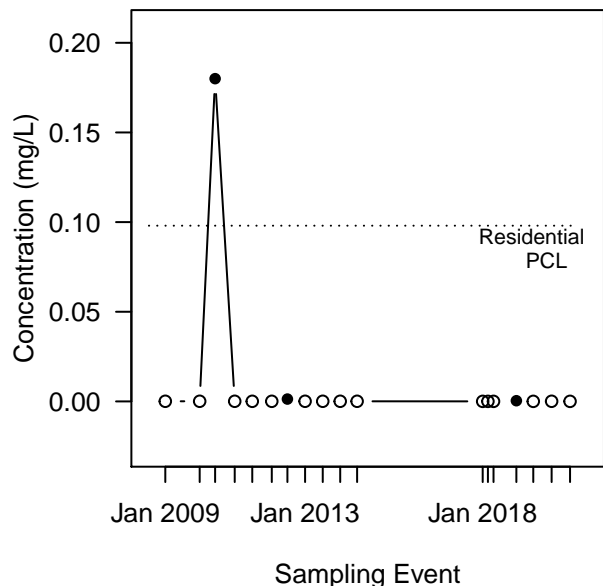


LEGEND:
 Concentration
 ● DET
 * DET, J-flagged
 ○ ND (DL plotted)

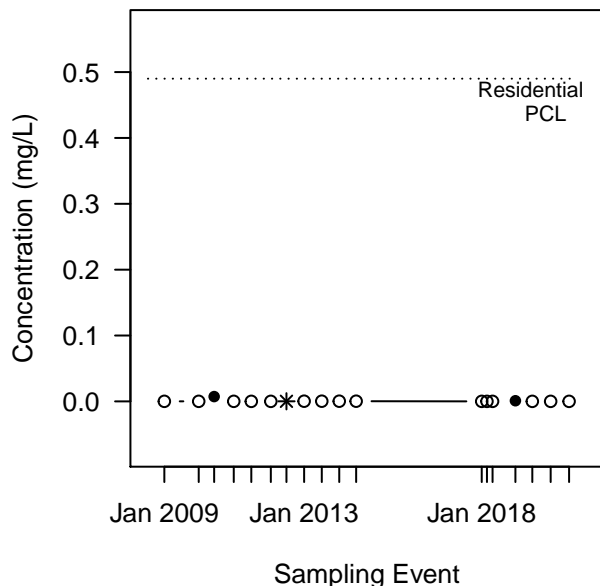
NOTE: A p-value < 0.05 indicates a statistically significant trend.
 A p-value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann-Kendall Trend Tests for MW-48C

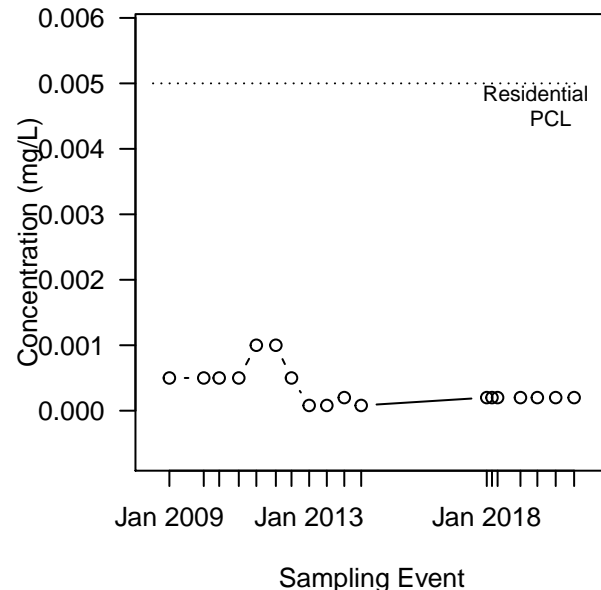
2-Methylnaphthalene (Det/N = 3/18)
No Trend
(p-value=0.298 and CV=4.2)



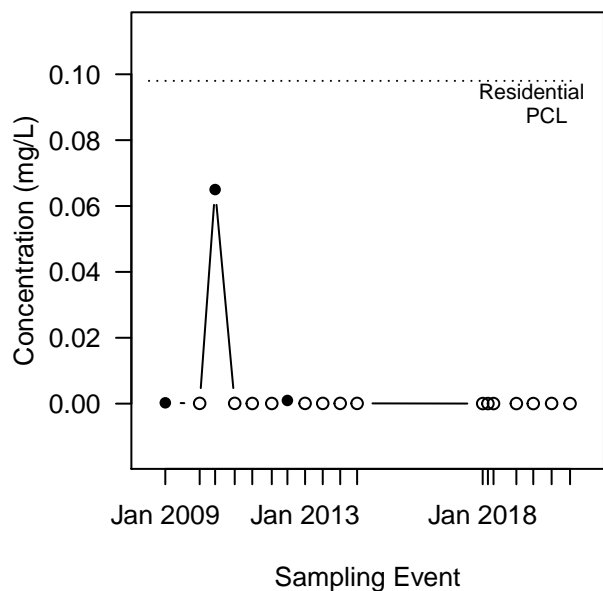
2,4-Dimethylphenol (Det/N = 3/18)
No Trend
(p-value=0.34 and CV=3)



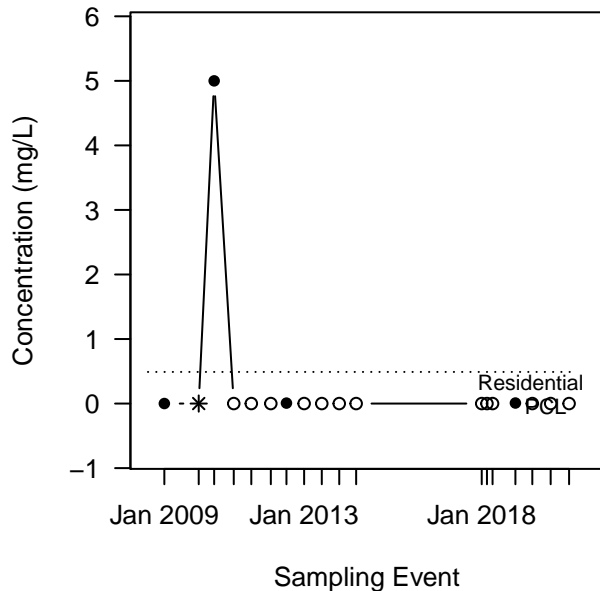
Benzene (Det/N = 0/18)
Not evaluated - All NDs



Dibenzofuran (Det/N = 3/18)
Decreasing
(p-value=0.0261 and CV=4.1)



Naphthalene (Det/N = 5/18)
Probably Decreasing
(p-value=0.0502 and CV=4.2)

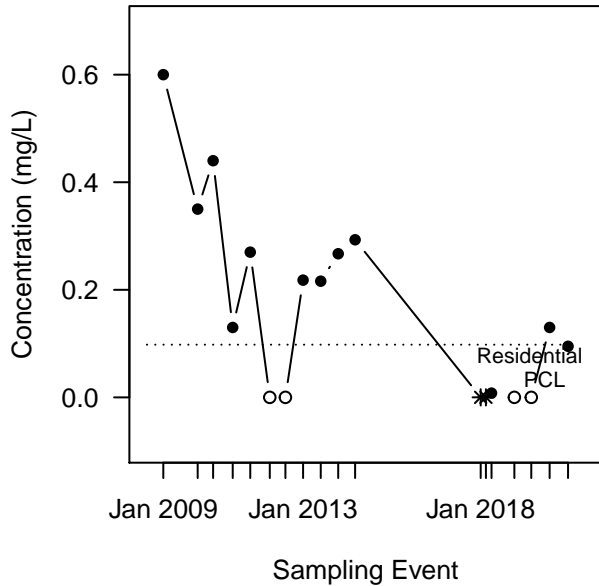


LEGEND:
 Concentration
 ● DET
 * DET, J-flagged
 ○ ND (DL plotted)

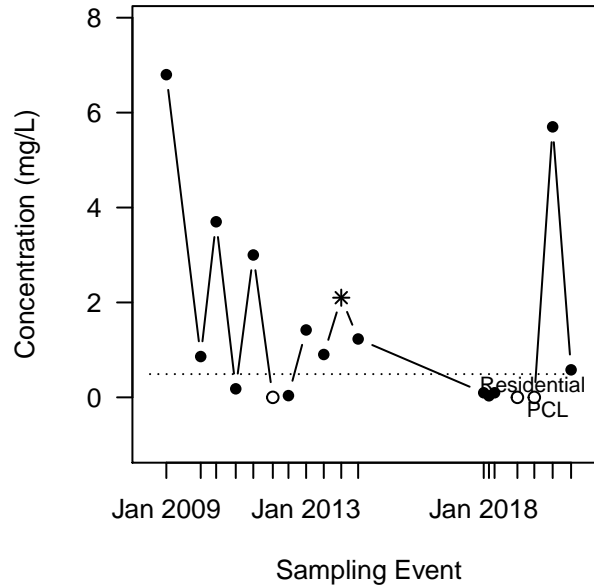
NOTE: A p-value < 0.05 indicates a statistically significant trend.
 A p-value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann–Kendall Trend Tests for MW-49A

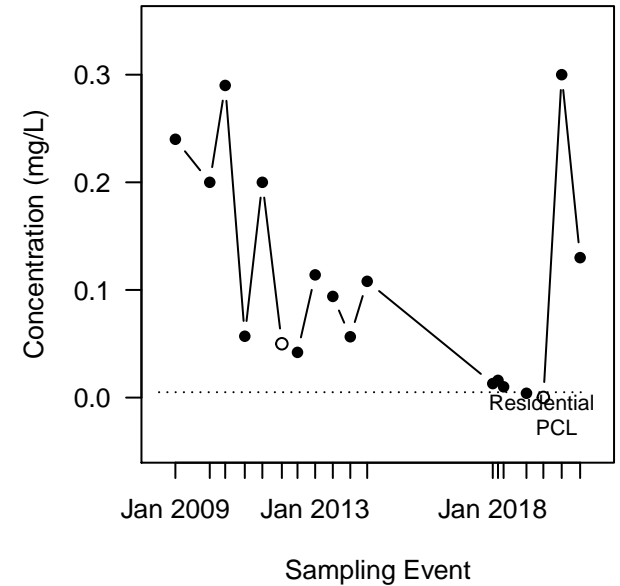
2-Methylnaphthalene (Det/N = 14/18)
Decreasing
(p-value=0.00999 and CV=1.1)



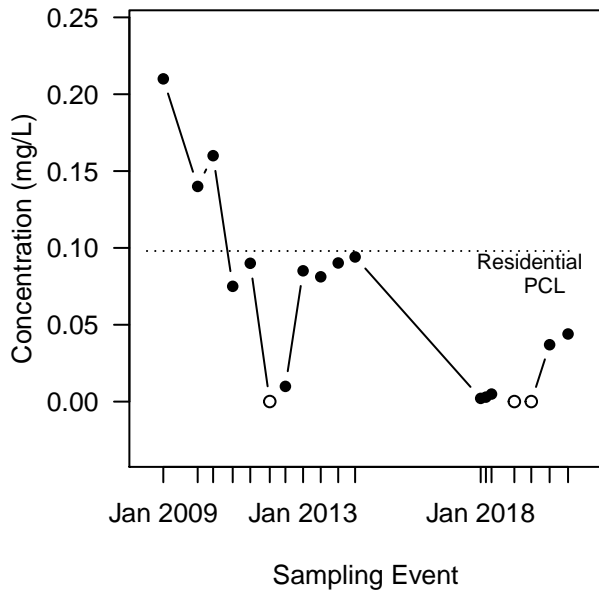
2,4-Dimethylphenol (Det/N = 15/18)
Decreasing
(p-value=0.0472 and CV=1.4)



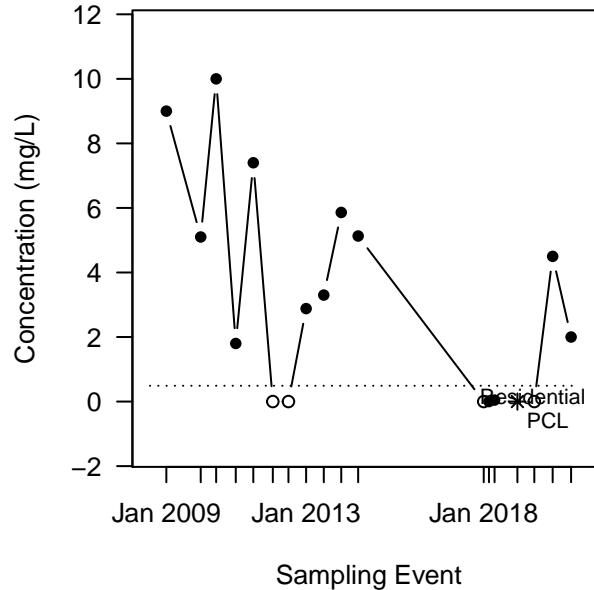
Benzene (Det/N = 16/18)
Decreasing
(p-value=0.0289 and CV=0.93)



Dibenzofuran (Det/N = 15/18)
Decreasing
(p-value=0.00836 and CV=1)



Naphthalene (Det/N = 14/18)
Decreasing
(p-value=0.0468 and CV=1.1)

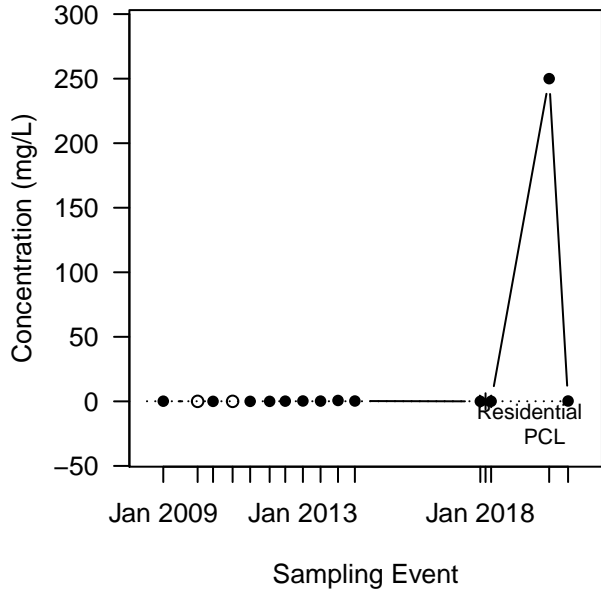


LEGEND:
 Concentration
 ● DET
 * DET, J-flagged
 ○ ND (DL plotted)

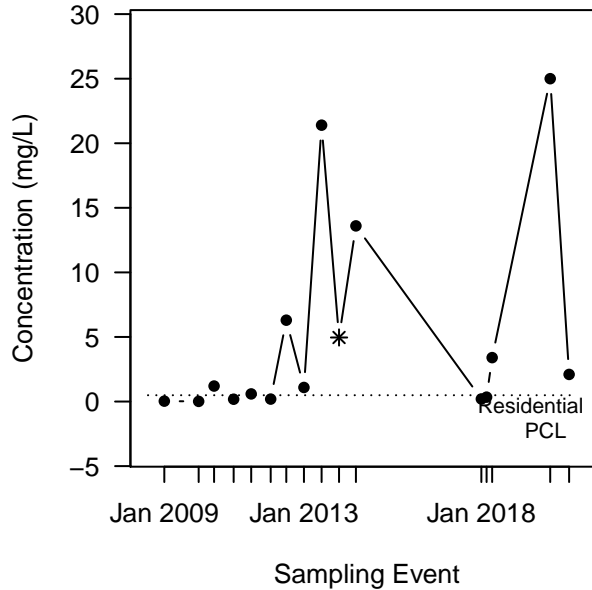
NOTE: A p-value<0.05 indicates a statistically significant trend.
 A p-value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann–Kendall Trend Tests for MW–49B

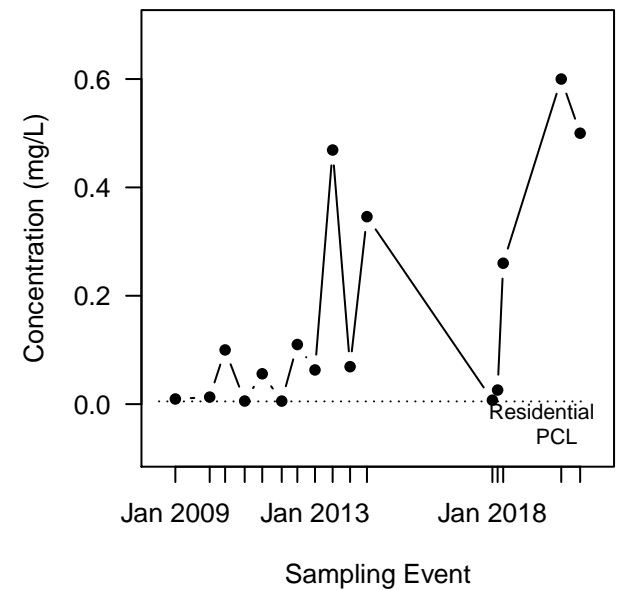
2–Methylnaphthalene (Det/N = 14/16)
Increasing
(p–value=0.0191 and CV=4)



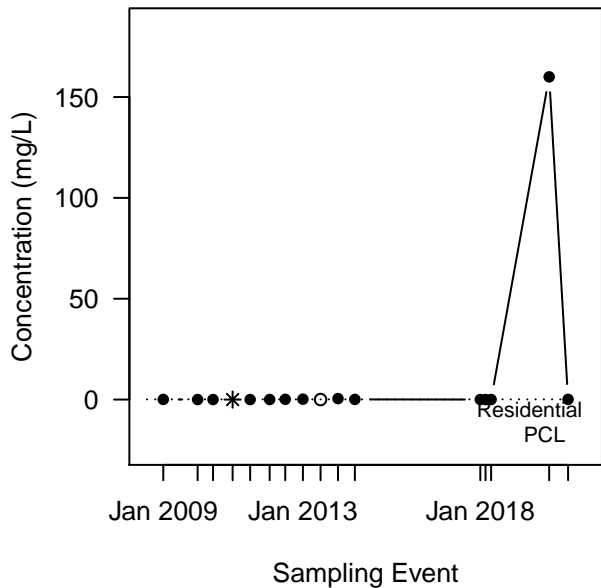
2,4–Dimethylphenol (Det/N = 16/16)
Increasing
(p–value=0.0108 and CV=1.6)



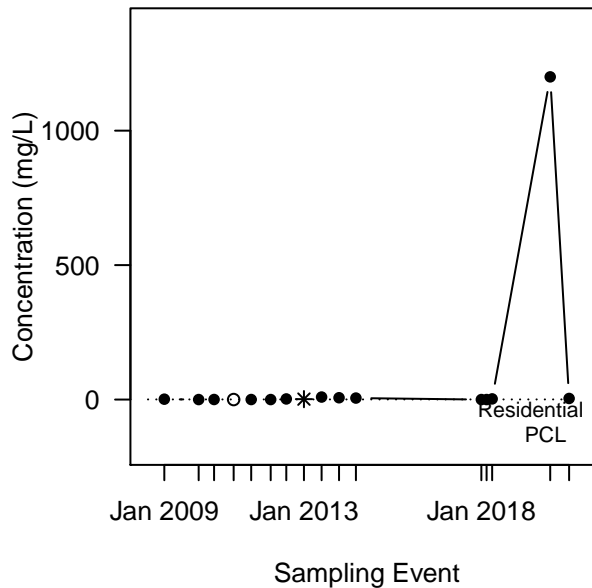
Benzene (Det/N = 16/16)
Increasing
(p–value=0.0108 and CV=1.2)



Dibenzofuran (Det/N = 15/16)
Increasing
(p–value=0.0479 and CV=4)



Naphthalene (Det/N = 15/16)
Increasing
(p–value=0.0396 and CV=3.9)

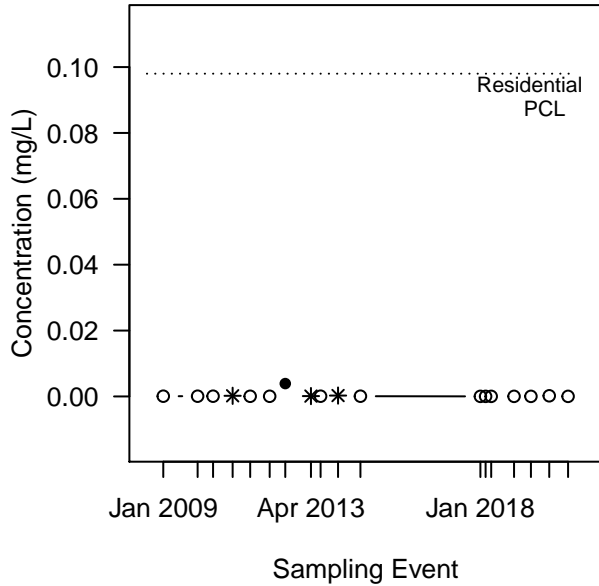


LEGEND:
 Concentration
 ● DET
 * DET, J–flagged
 ○ ND (DL plotted)

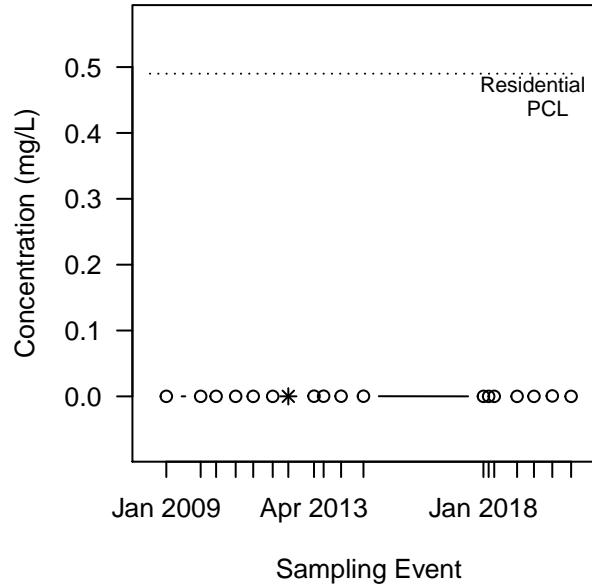
NOTE: A p–value<0.05 indicates a statistically significant trend.
 A p–value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann-Kendall Trend Tests for MW-50A

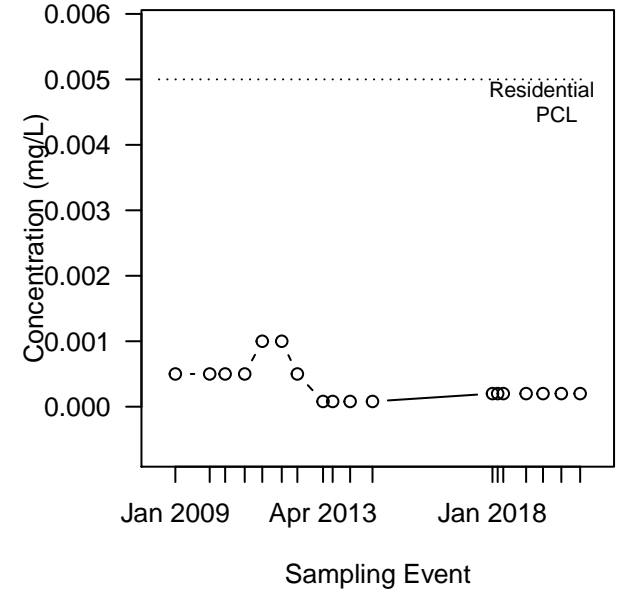
2-Methylnaphthalene (Det/N = 4/18)
No Trend
(p-value=0.186 and CV=3.1)



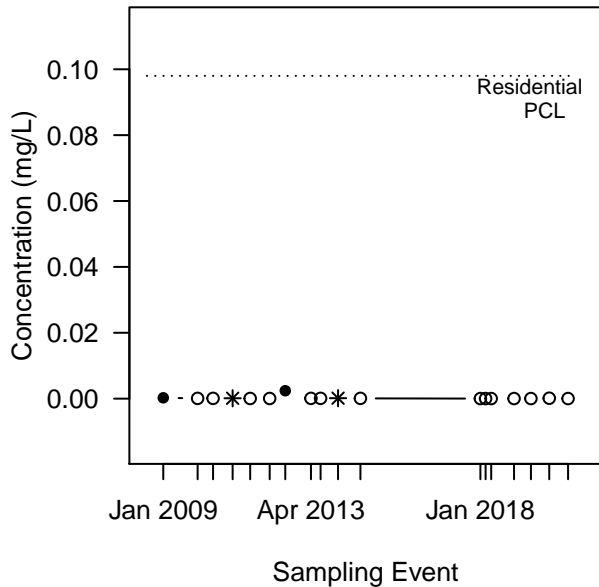
2,4-Dimethylphenol (Det/N = 1/18)
No Trend
(p-value=0.35 and CV=1.2)



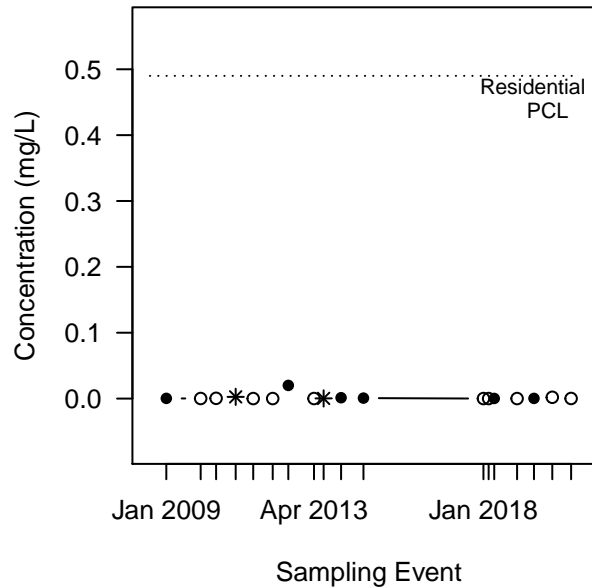
Benzene (Det/N = 0/18)
Not evaluated - All NDs



Dibenzofuran (Det/N = 4/18)
Probably Decreasing
(p-value=0.0519 and CV=2.7)



Naphthalene (Det/N = 8/18)
No Trend
(p-value=0.239 and CV=2.9)

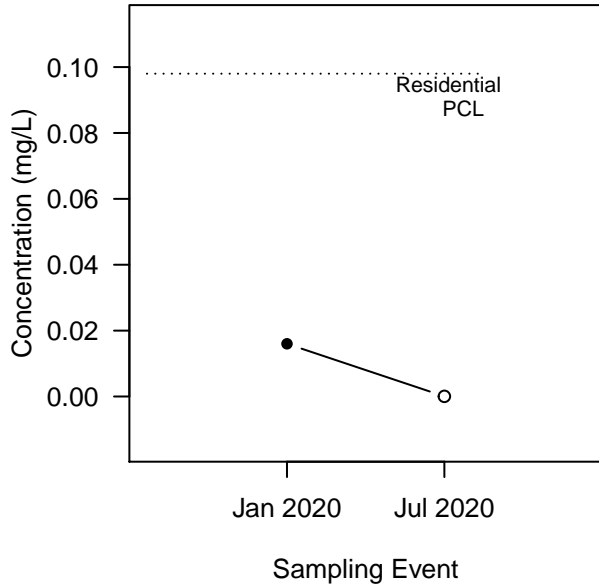


LEGEND:
 Concentration
 • DET
 * DET, J-flagged
 ○ ND (DL plotted)

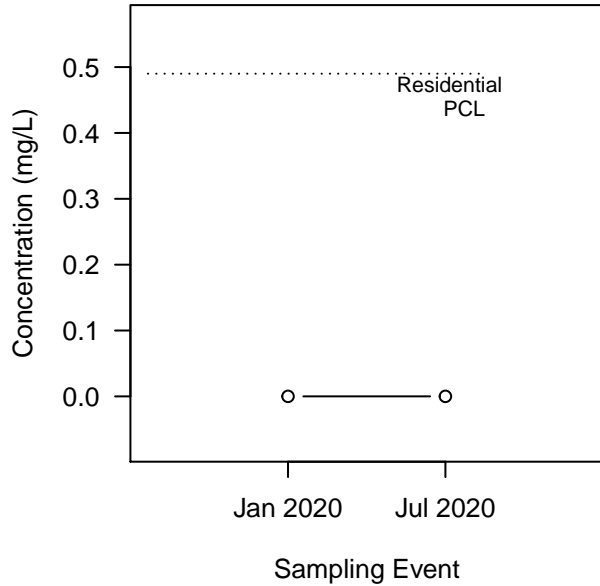
NOTE: A p-value < 0.05 indicates a statistically significant trend.
 A p-value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann-Kendall Trend Tests for MW-50B

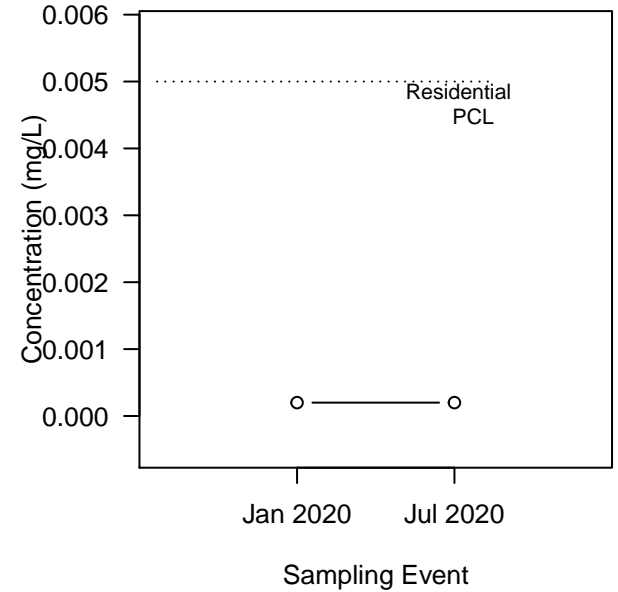
2-Methylnaphthalene (Det/N = 1/2)
Not evaluated (n<=2)



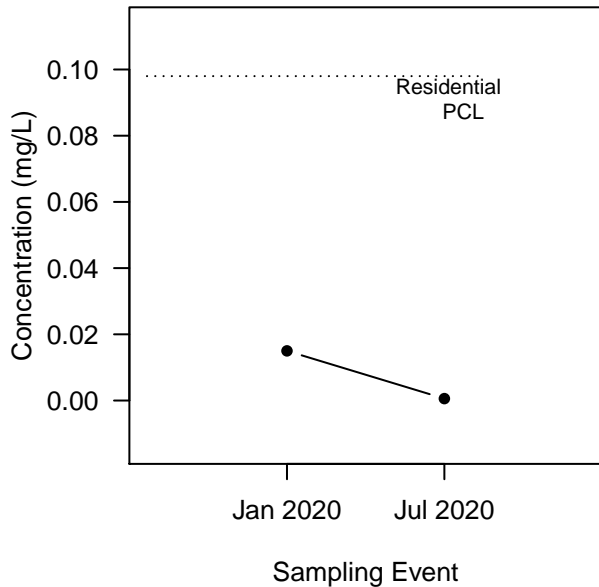
2,4-Dimethylphenol (Det/N = 0/2)
Not evaluated (n<=2)



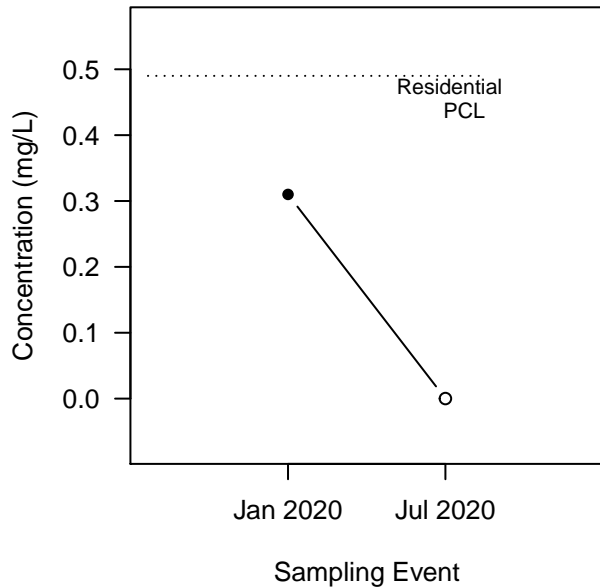
Benzene (Det/N = 0/2)
Not evaluated (n<=2)



Dibenzofuran (Det/N = 2/2)
Not evaluated (n<=2)



Naphthalene (Det/N = 1/2)
Not evaluated (n<=2)

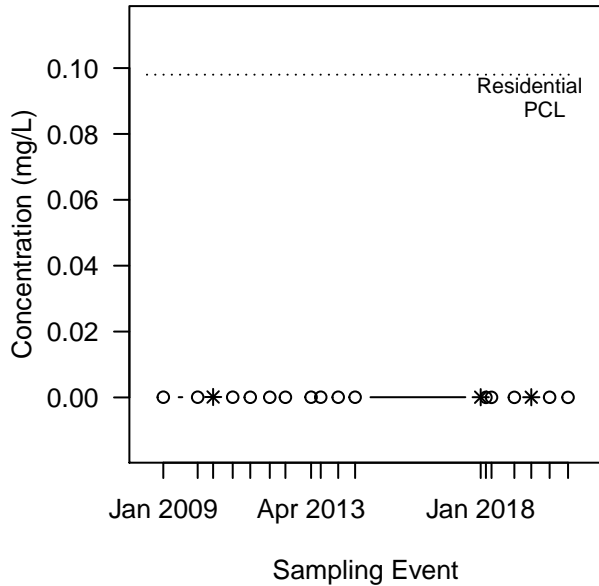


LEGEND:
Concentration
● DET
○ ND (DL plotted)

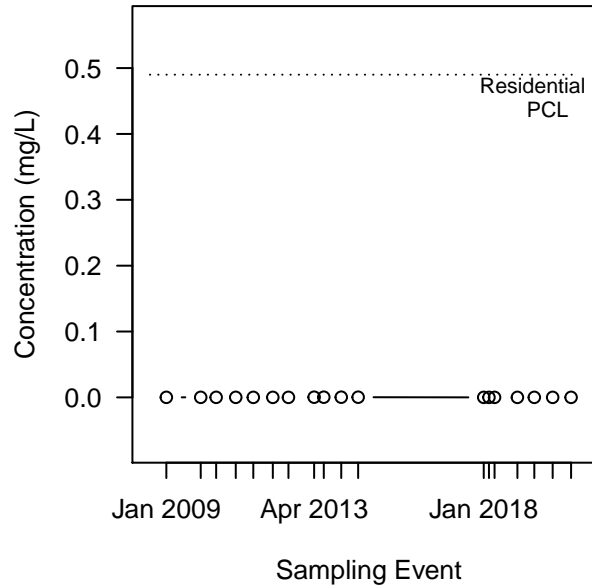
NOTE: A p-value<0.05 indicates a statistically significant trend.
A p-value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann-Kendall Trend Tests for MW-51A

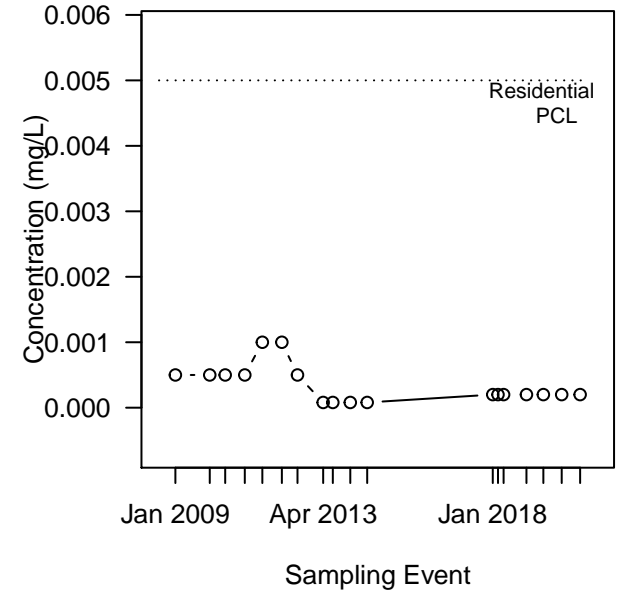
2-Methylnaphthalene (Det/N = 3/18)
No Trend
(p-value=0.477 and CV=0.48)



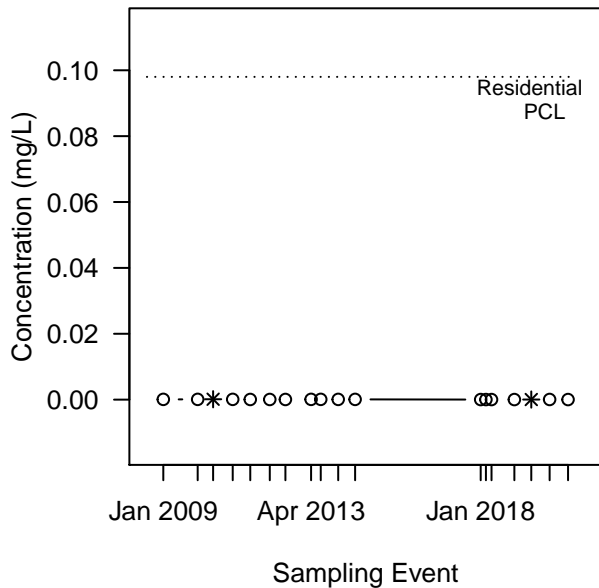
2,4-Dimethylphenol (Det/N = 0/18)
Not evaluated - All NDs



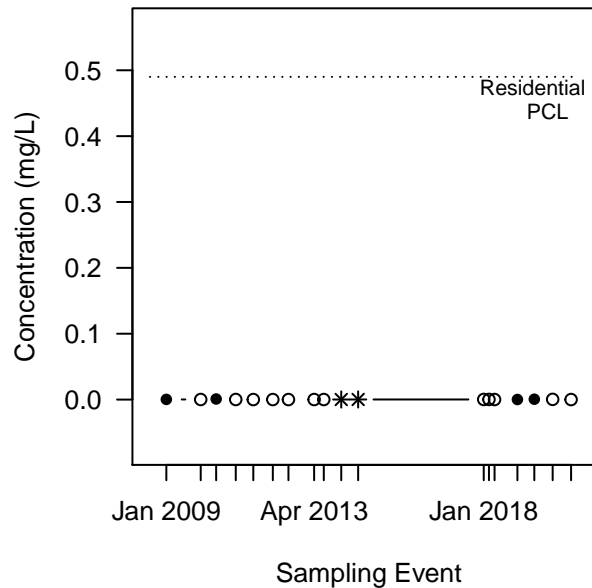
Benzene (Det/N = 0/18)
Not evaluated - All NDs



Dibenzofuran (Det/N = 2/18)
No Trend
(p-value=0.5 and CV=0.53)



Naphthalene (Det/N = 6/18)
No Trend
(p-value=0.464 and CV=1.1)

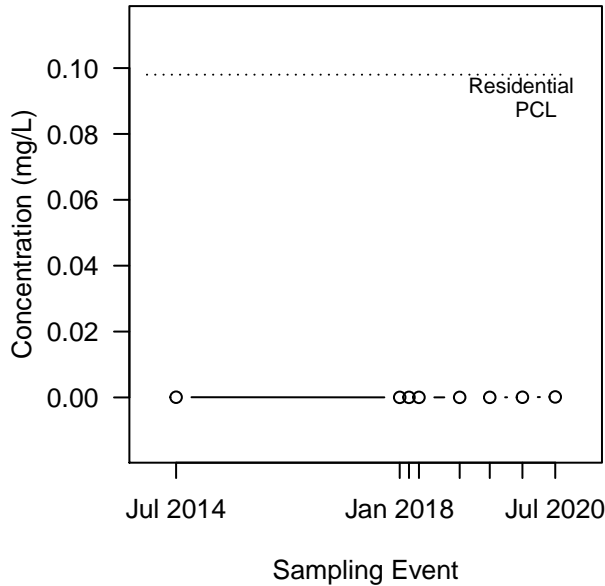


LEGEND:
 Concentration
 • DET
 * DET, J-flagged
 ○ ND (DL plotted)

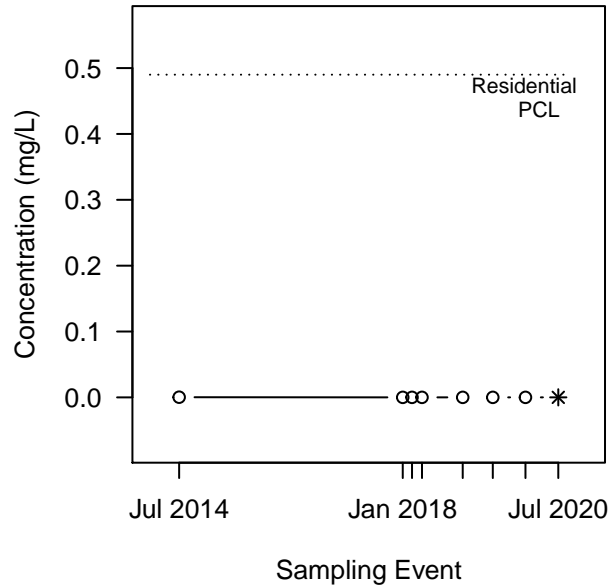
NOTE: A p-value < 0.05 indicates a statistically significant trend.
 A p-value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann-Kendall Trend Tests for MW-51C

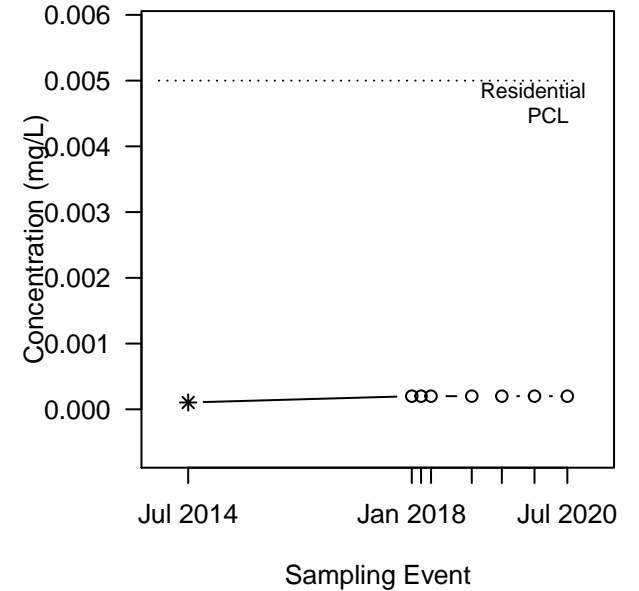
2-Methylnaphthalene (Det/N = 0/8)
Not evaluated – All NDs



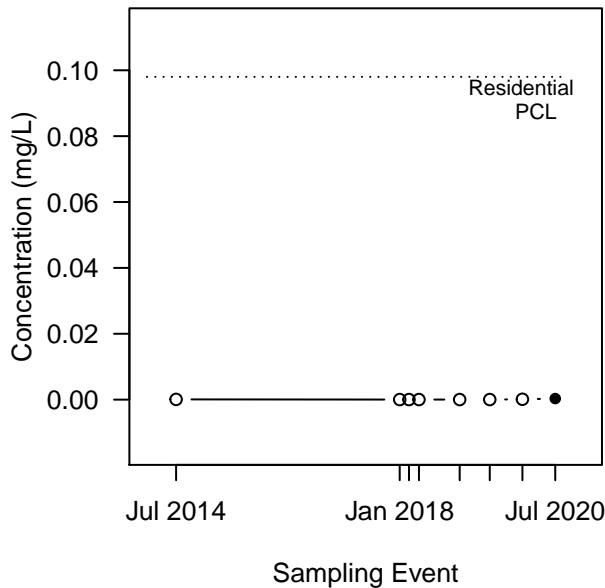
2,4-Dimethylphenol (Det/N = 1/8)
Probably Increasing
(p-value=0.0952 and CV=1.2)



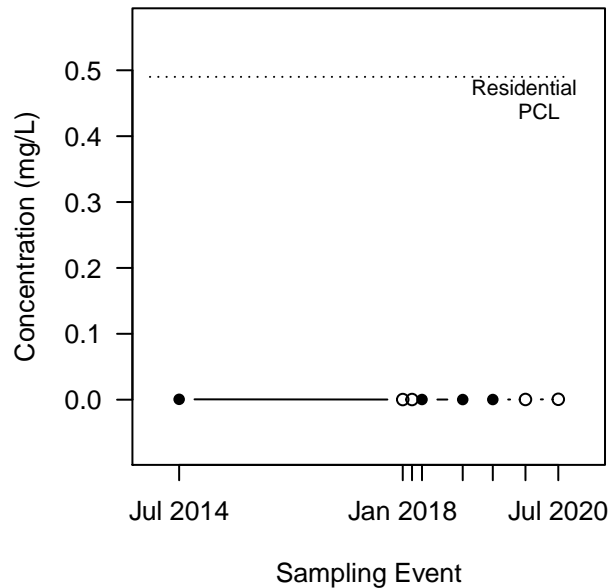
Benzene (Det/N = 1/8)
Probably Decreasing
(p-value=0.0952 and CV=0.18)



Dibenzofuran (Det/N = 1/8)
Probably Increasing
(p-value=0.0952 and CV=1.4)



Naphthalene (Det/N = 4/8)
Stable
(p-value=0.176 and CV=0.52)

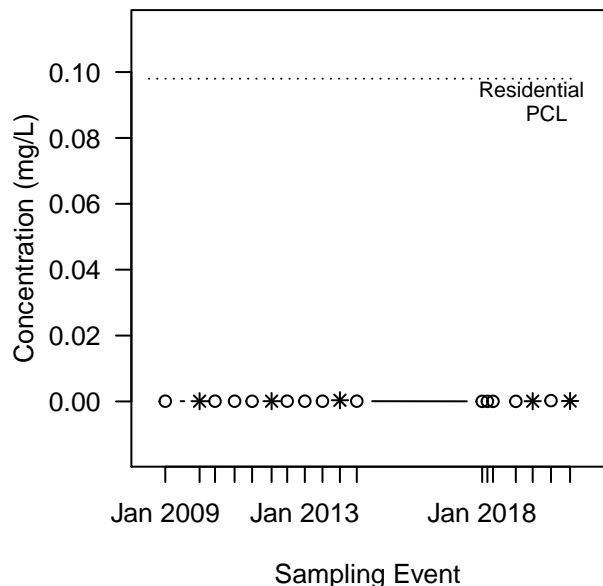


LEGEND:
 Concentration
 ● DET
 * DET, J-flagged
 ○ ND (DL plotted)

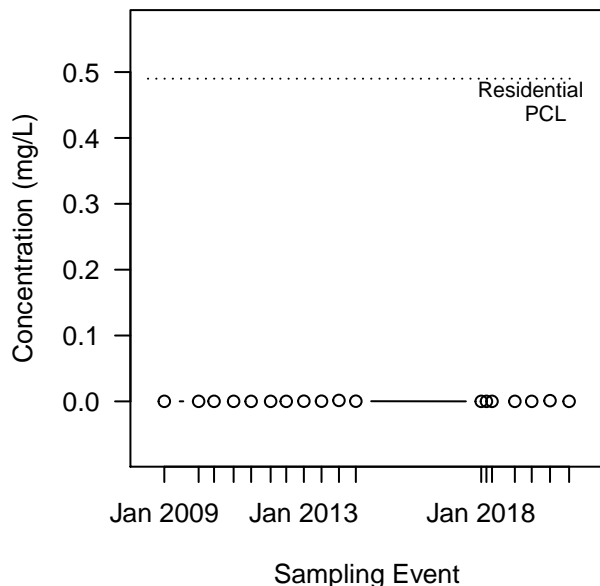
NOTE: A p-value<0.05 indicates a statistically significant trend.
 A p-value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann-Kendall Trend Tests for MW-53C

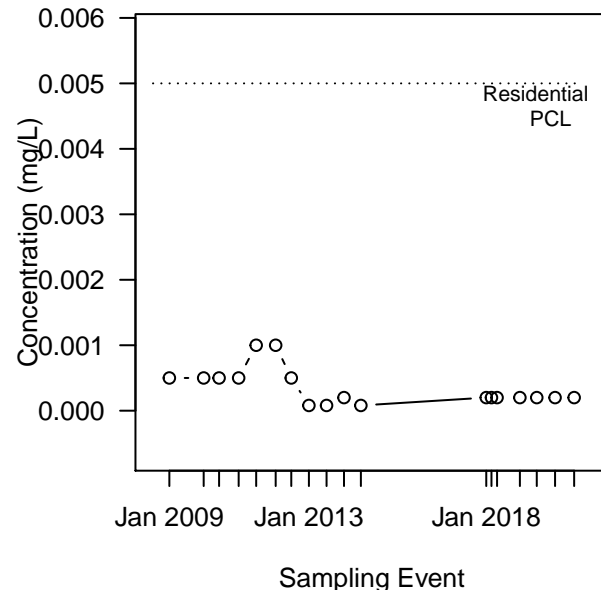
2-Methylnaphthalene (Det/N = 5/18)
No Trend
(p-value=0.281 and CV=0.96)



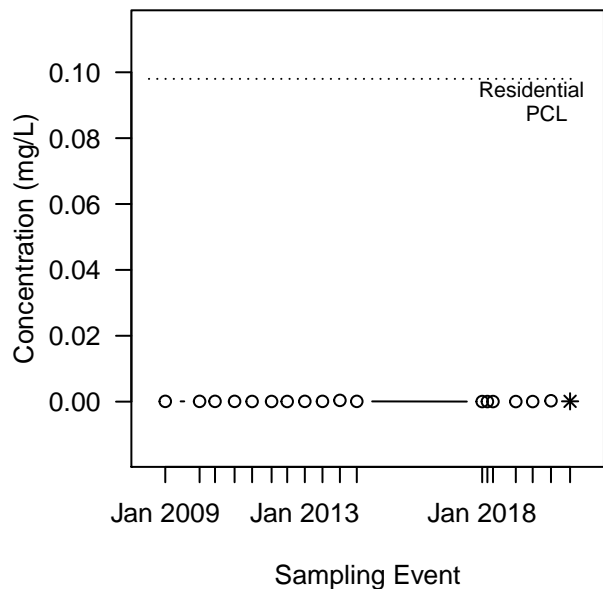
2,4-Dimethylphenol (Det/N = 0/18)
Not evaluated – All NDs



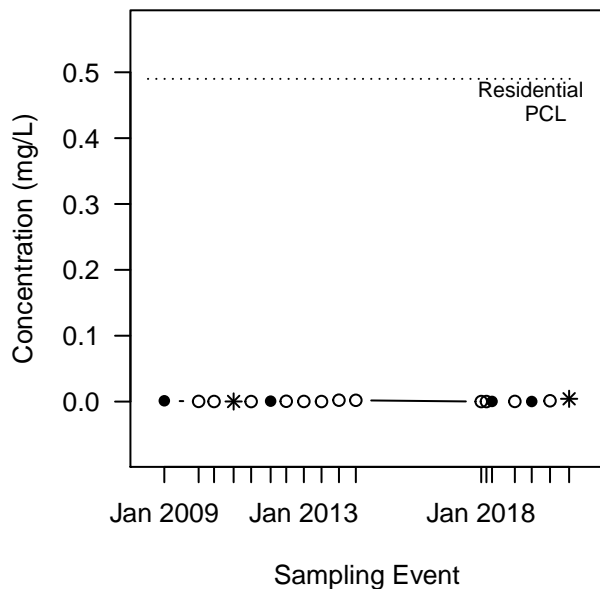
Benzene (Det/N = 0/18)
Not evaluated – All NDs



Dibenzofuran (Det/N = 1/18)
Probably Increasing
(p-value=0.0615 and CV=1.1)



Naphthalene (Det/N = 6/18)
No Trend
(p-value=0.464 and CV=1.5)

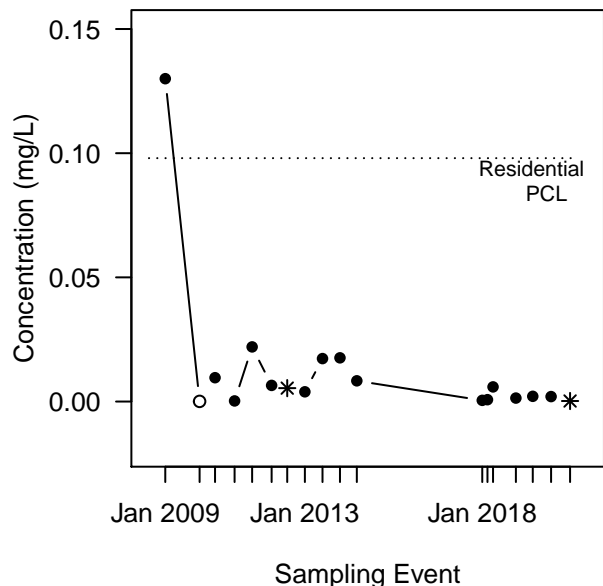


LEGEND:
 Concentration
 ● DET
 * DET, J-flagged
 ○ ND (DL plotted)

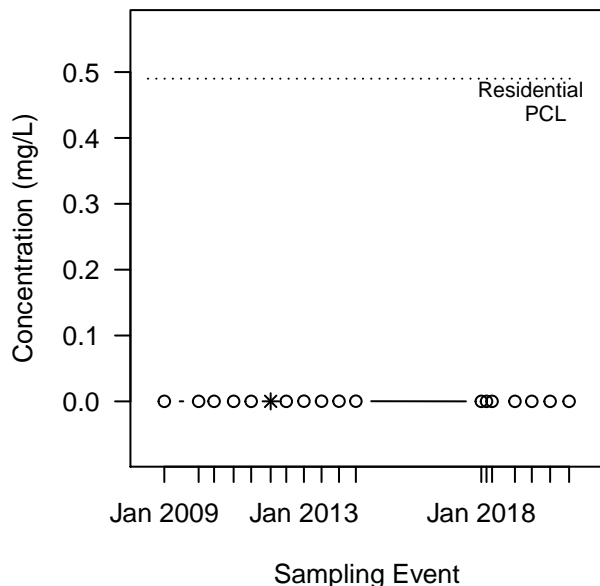
NOTE: A p-value < 0.05 indicates a statistically significant trend.
 A p-value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann-Kendall Trend Tests for MW-54C

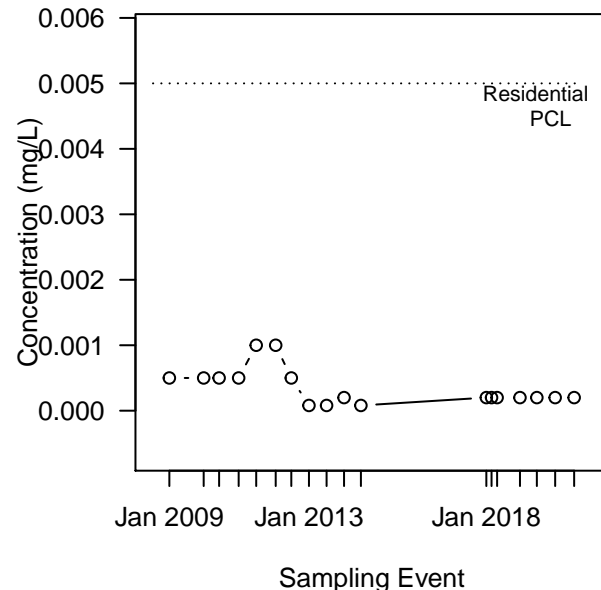
2-Methylnaphthalene (Det/N = 17/18)
Probably Decreasing
(p-value=0.0558 and CV=2.3)



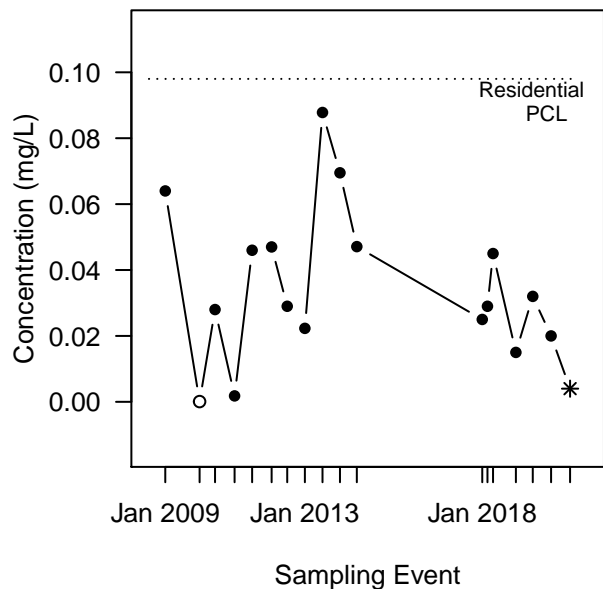
2,4-Dimethylphenol (Det/N = 1/18)
Stable
(p-value=0.282 and CV=0.95)



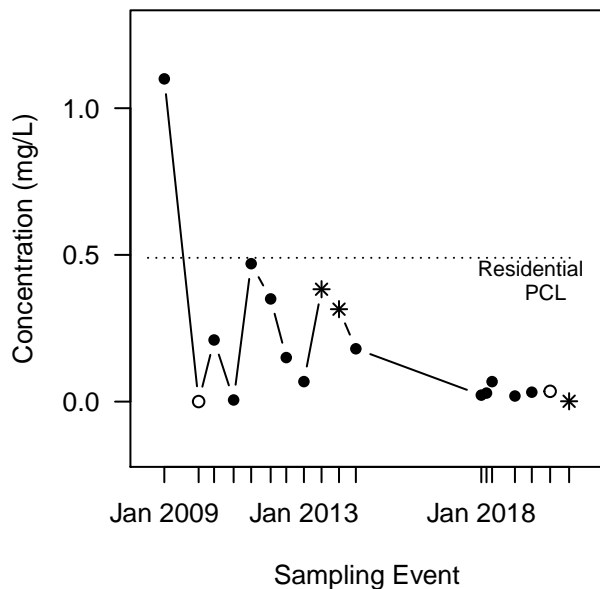
Benzene (Det/N = 0/18)
Not evaluated - All NDs



Dibenzofuran (Det/N = 17/18)
Stable
(p-value=0.26 and CV=0.7)



Naphthalene (Det/N = 16/18)
Decreasing
(p-value=0.0104 and CV=1.4)

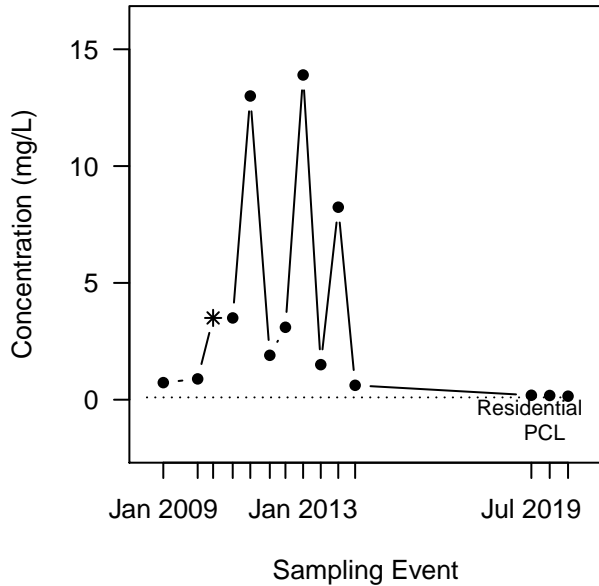


LEGEND:
 Concentration
 ● DET
 * DET, J-flagged
 ○ ND (DL plotted)

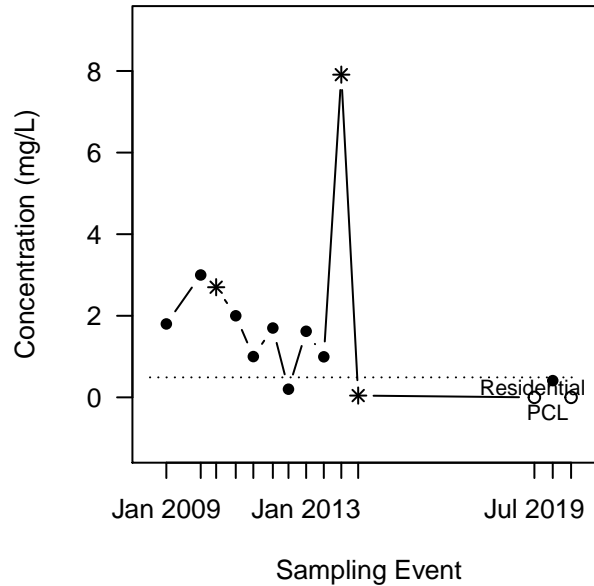
NOTE: A p-value < 0.05 indicates a statistically significant trend.
 A p-value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann–Kendall Trend Tests for MW-57A

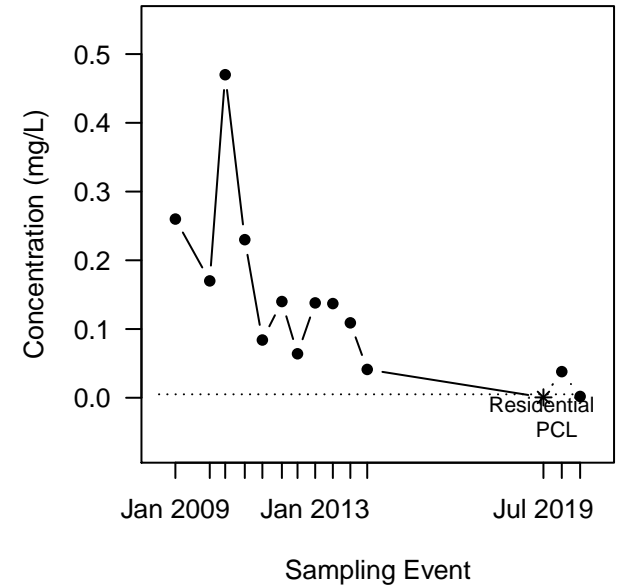
2-Methylnaphthalene (Det/N = 14/14)
Probably Decreasing
 (p-value=0.0559 and CV=1.3)



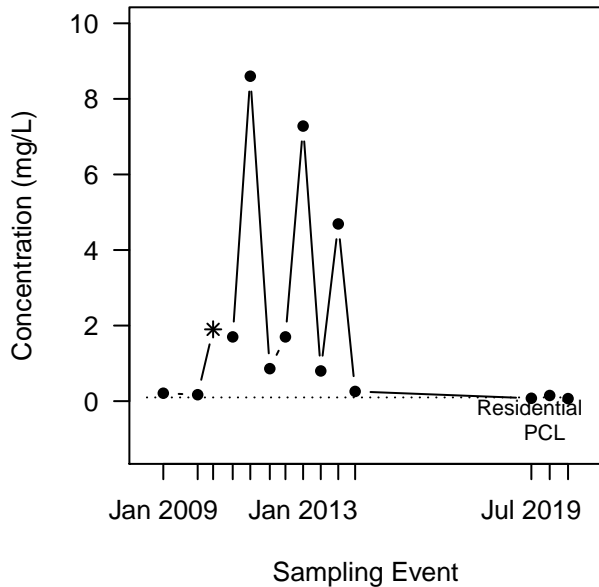
2,4-Dimethylphenol (Det/N = 12/14)
Decreasing
 (p-value=0.00259 and CV=1.2)



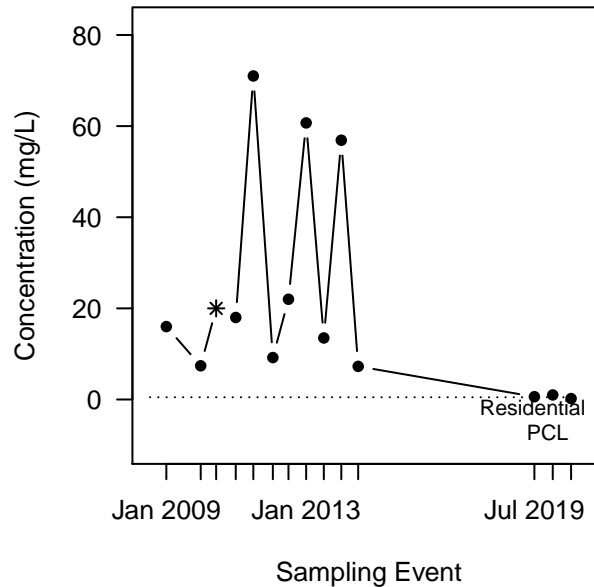
Benzene (Det/N = 14/14)
Decreasing
 (p-value=0.000151 and CV=0.92)



Dibenzofuran (Det/N = 14/14)
Probably Decreasing
 (p-value=0.0694 and CV=1.4)



Naphthalene (Det/N = 14/14)
Probably Decreasing
 (p-value=0.0503 and CV=1.1)

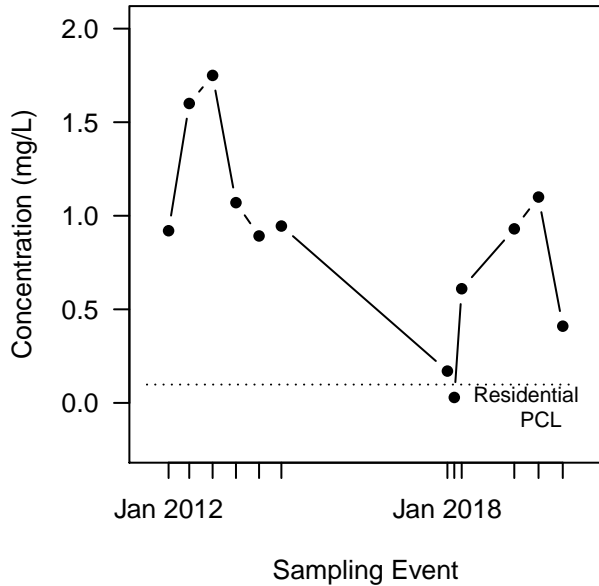


LEGEND:
 Concentration
 ● DET
 * DET, J-flagged
 ○ ND (DL plotted)

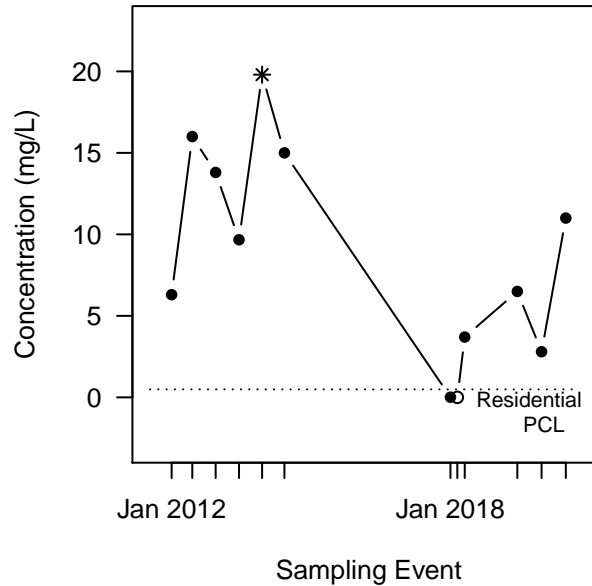
NOTE: A p-value<0.05 indicates a statistically significant trend.
 A p-value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann–Kendall Trend Tests for MW–57B

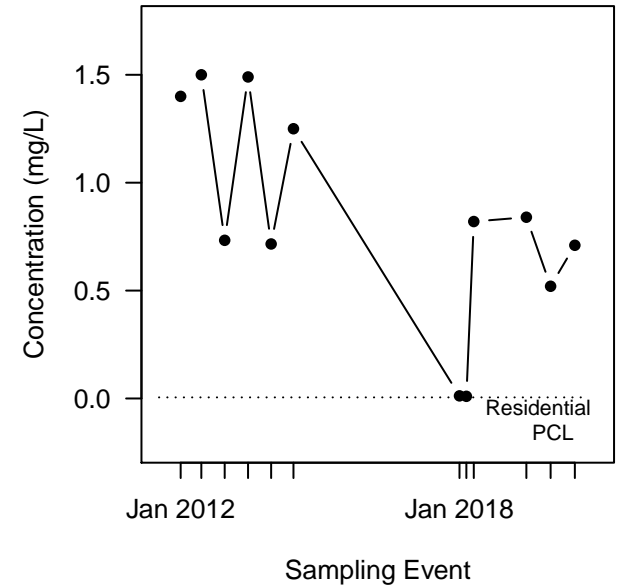
2-Methylnaphthalene (Det/N = 12/12)
Probably Decreasing
(p-value=0.0963 and CV=0.59)



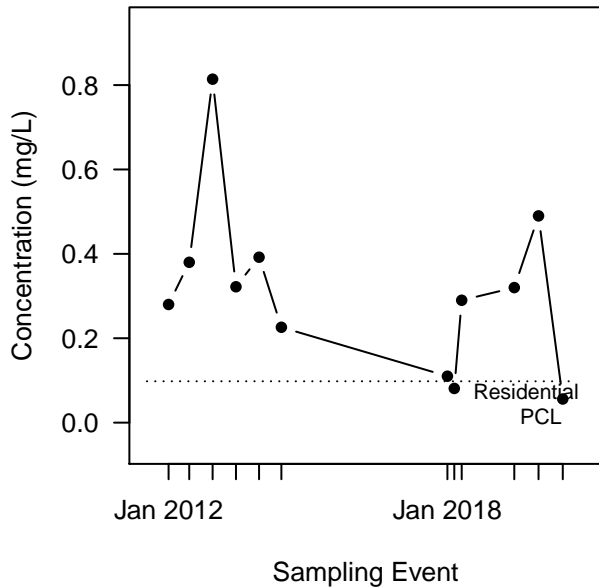
2,4-Dimethylphenol (Det/N = 11/12)
Stable
(p-value=0.152 and CV=0.75)



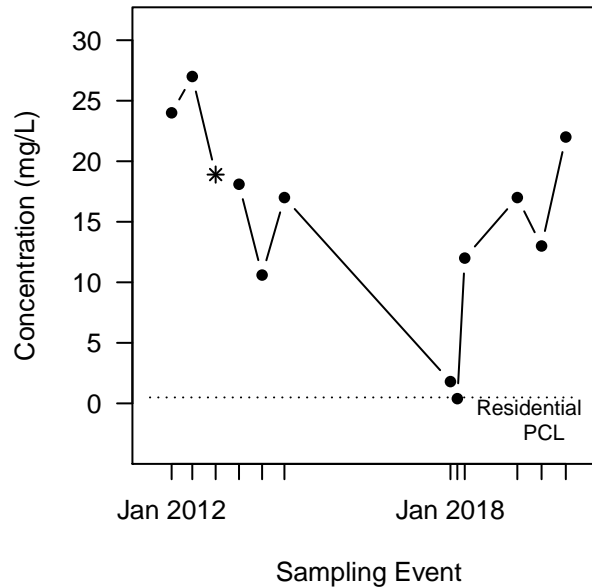
Benzene (Det/N = 12/12)
Decreasing
(p-value=0.0321 and CV=0.61)



Dibenzofuran (Det/N = 12/12)
Stable
(p-value=0.152 and CV=0.65)



Naphthalene (Det/N = 12/12)
Probably Decreasing
(p-value=0.0846 and CV=0.54)

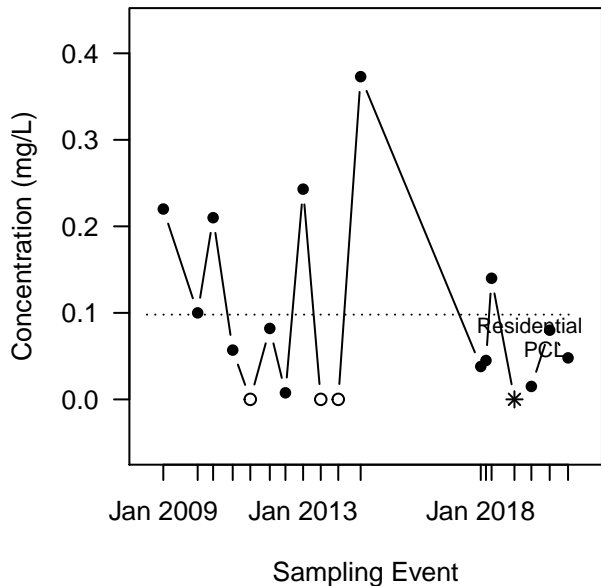


LEGEND:
 Concentration
 ● DET
 * DET, J-flagged
 ○ ND (DL plotted)

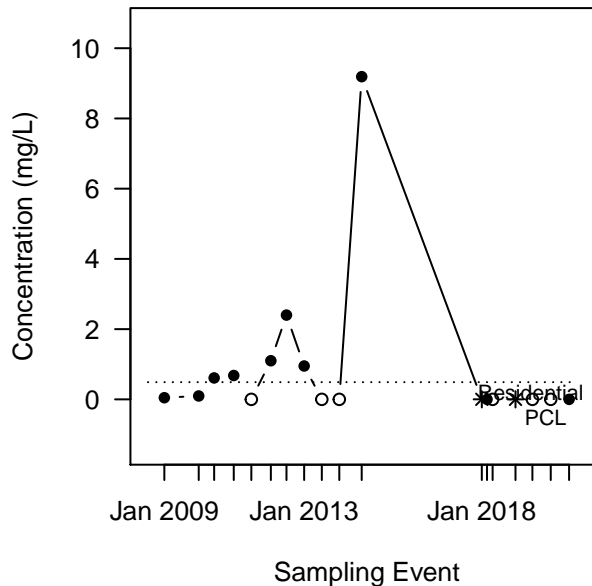
NOTE: A p-value<0.05 indicates a statistically significant trend.
 A p-value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann–Kendall Trend Tests for MW–58A

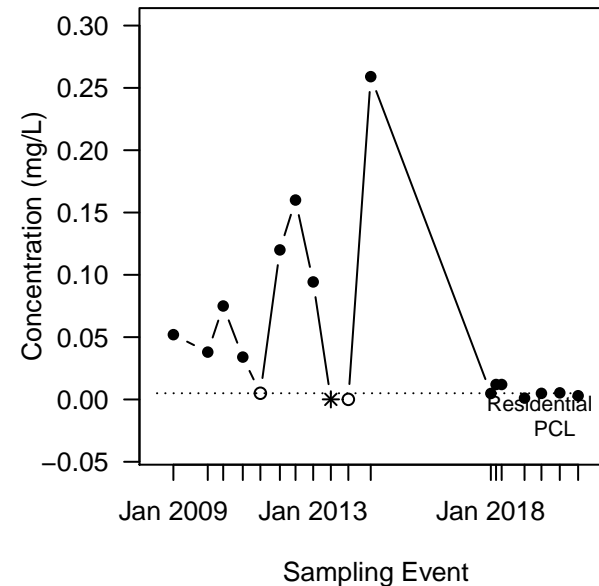
2–Methylnaphthalene (Det/N = 15/18)
No Trend
 (p–value=0.213 and CV=1.1)



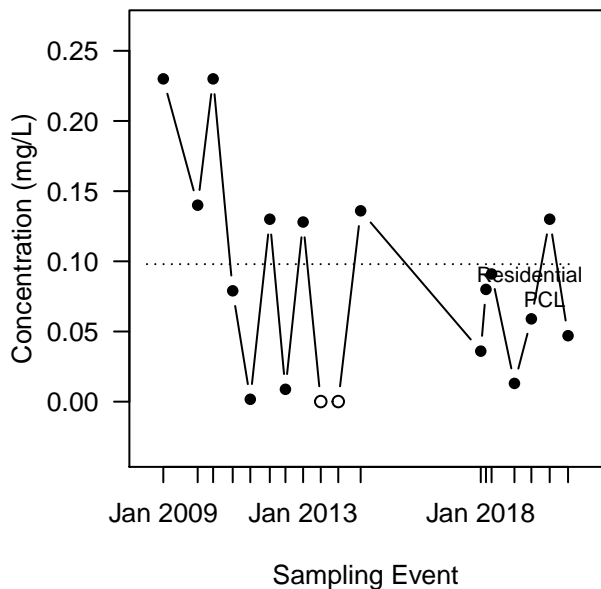
2,4–Dimethylphenol (Det/N = 12/18)
Probably Decreasing
 (p–value=0.0762 and CV=2.6)



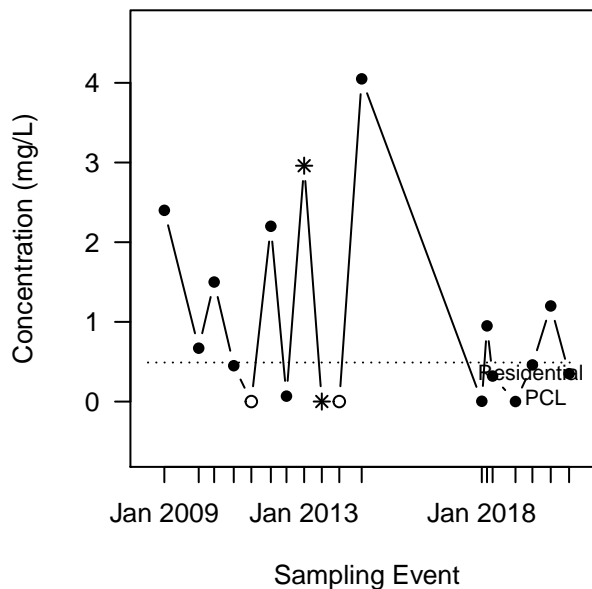
Benzene (Det/N = 16/18)
Probably Decreasing
 (p–value=0.0986 and CV=1.4)



Dibenzofuran (Det/N = 16/18)
Stable
 (p–value=0.105 and CV=0.85)



Naphthalene (Det/N = 16/18)
No Trend
 (p–value=0.285 and CV=1.2)

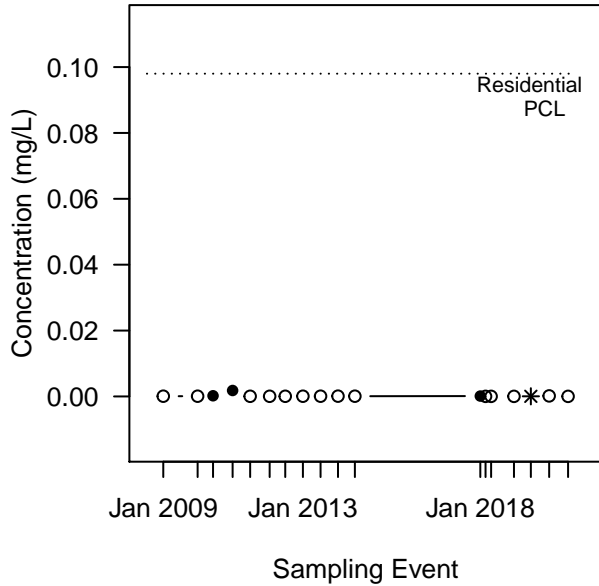


LEGEND:
 Concentration
 ● DET
 * DET, J–flagged
 ○ ND (DL plotted)

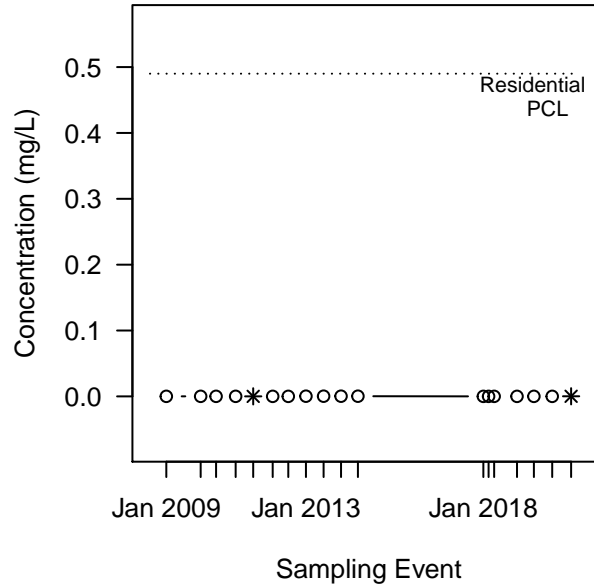
NOTE: A p–value<0.05 indicates a statistically significant trend.
 A p–value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann-Kendall Trend Tests for MW-59A

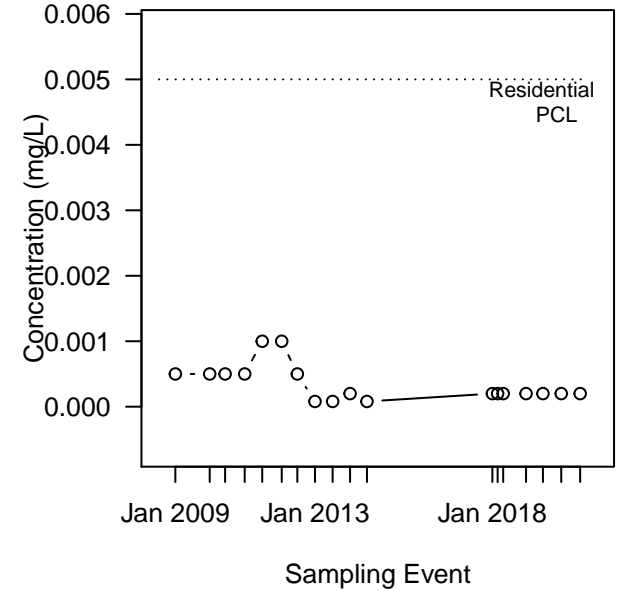
2-Methylnaphthalene (Det/N = 4/18)
No Trend
(p-value=0.318 and CV=2.5)



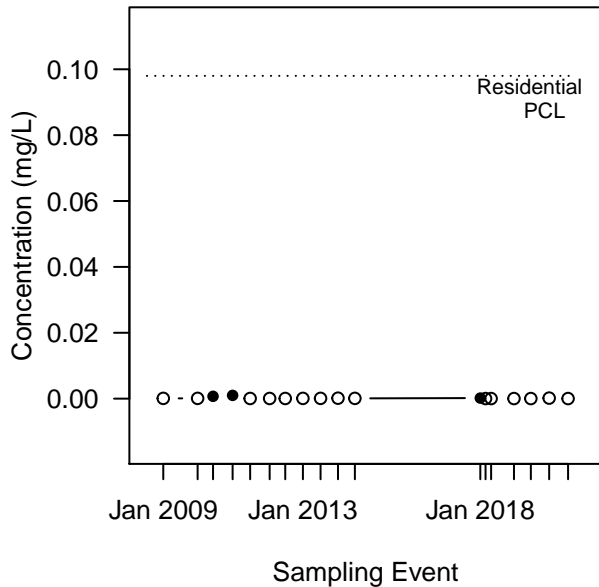
2,4-Dimethylphenol (Det/N = 2/18)
No Trend
(p-value=0.288 and CV=0.91)



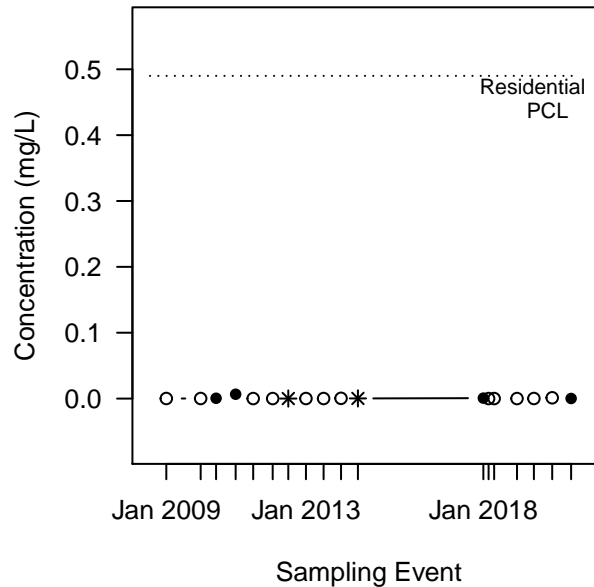
Benzene (Det/N = 0/18)
Not evaluated - All NDs



Dibenzofuran (Det/N = 3/18)
No Trend
(p-value=0.132 and CV=1.7)



Naphthalene (Det/N = 6/18)
No Trend
(p-value=0.393 and CV=2.7)

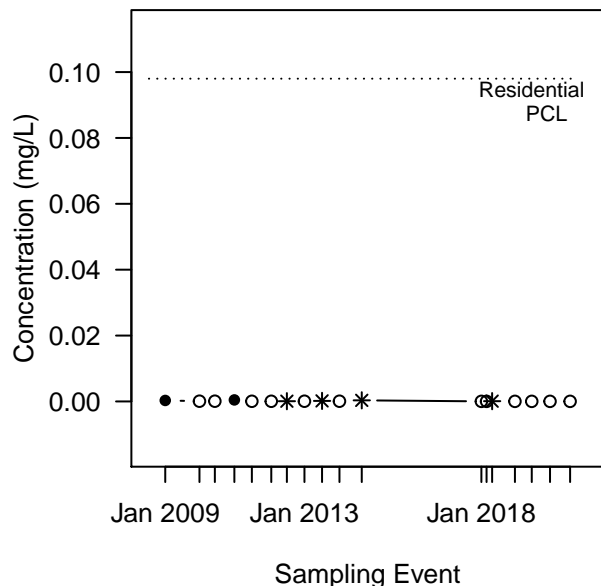


LEGEND:
 Concentration
 ● DET
 * DET, J-flagged
 ○ ND (DL plotted)

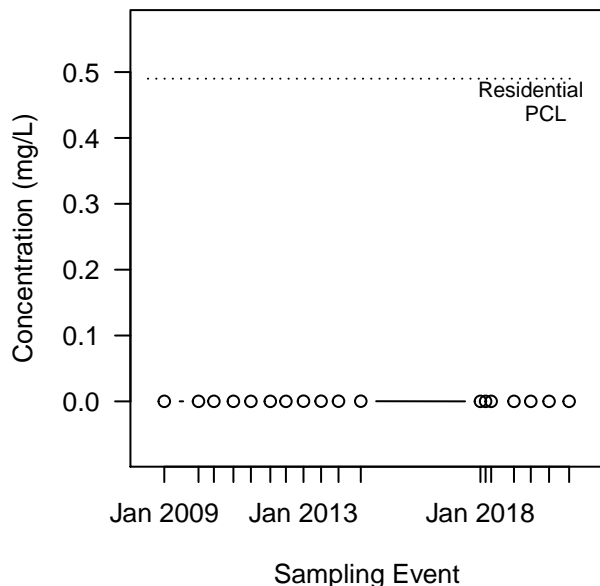
NOTE: A p-value < 0.05 indicates a statistically significant trend.
 A p-value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann-Kendall Trend Tests for MW-59D

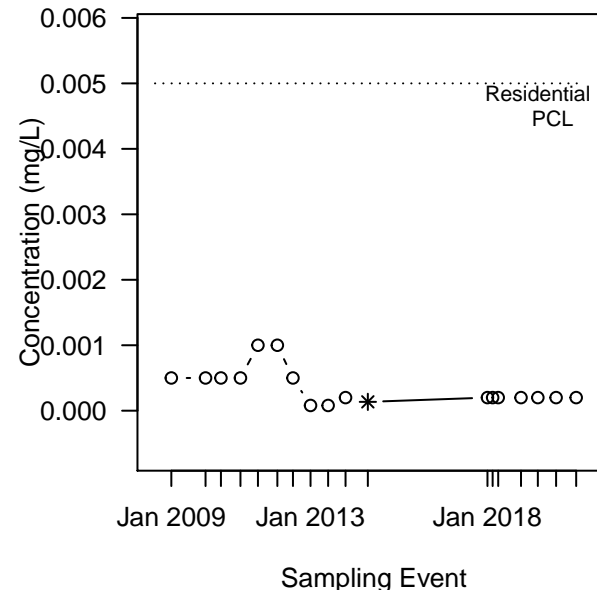
2-Methylnaphthalene (Det/N = 6/18)
No Trend
(p-value=0.138 and CV=1.2)



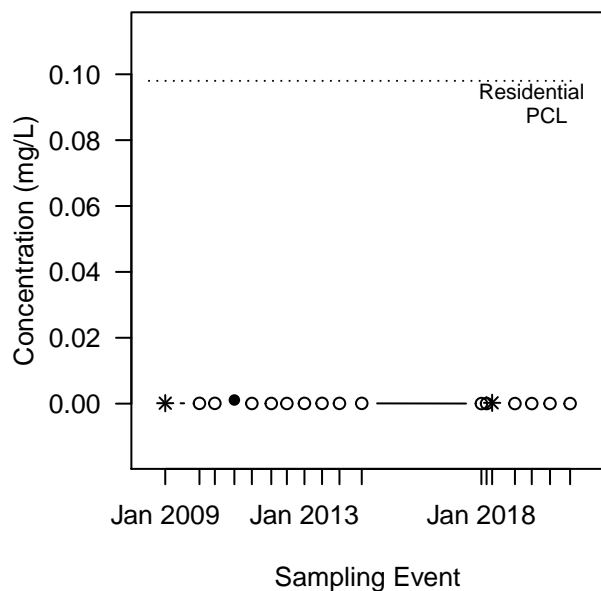
2,4-Dimethylphenol (Det/N = 0/18)
Not evaluated - All NDs



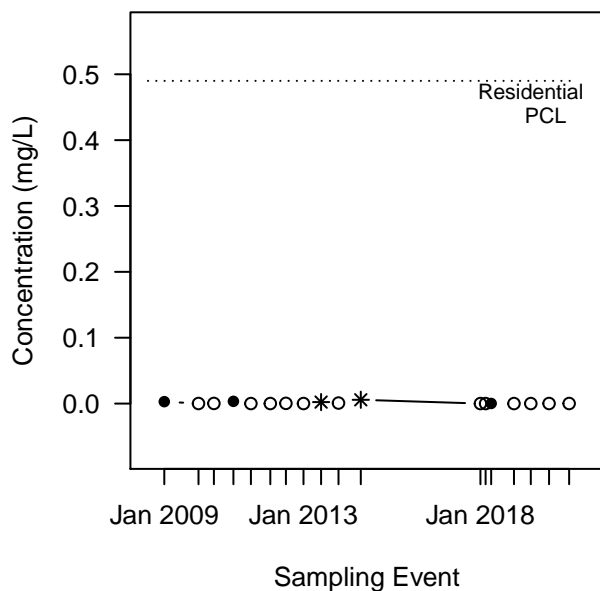
Benzene (Det/N = 1/18)
No Trend
(p-value=0.424 and CV=0.79)



Dibenzofuran (Det/N = 3/18)
No Trend
(p-value=0.159 and CV=2)



Naphthalene (Det/N = 5/18)
No Trend
(p-value=0.192 and CV=1.8)

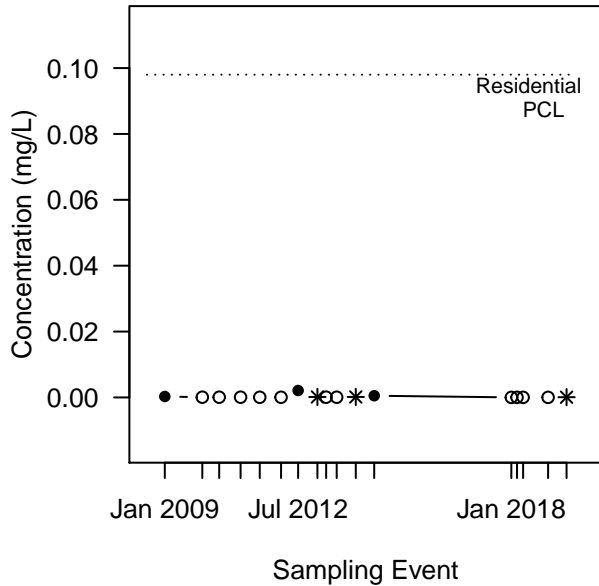


LEGEND:
 Concentration
 ● DET
 * DET, J-flagged
 ○ ND (DL plotted)

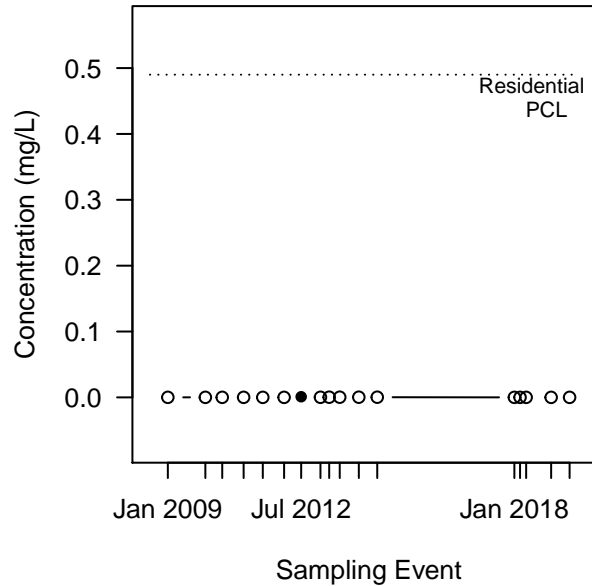
NOTE: A p-value < 0.05 indicates a statistically significant trend.
 A p-value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann-Kendall Trend Tests for MW-60A

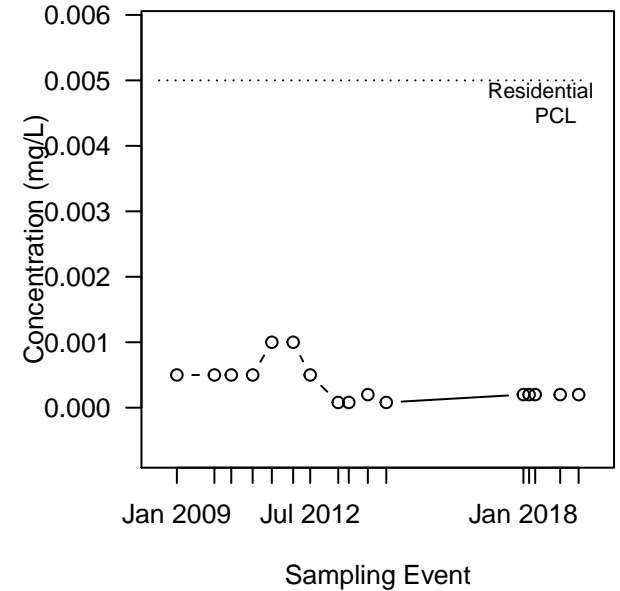
2-Methylnaphthalene (Det/N = 6/17)
No Trend
(p-value=0.461 and CV=2.2)



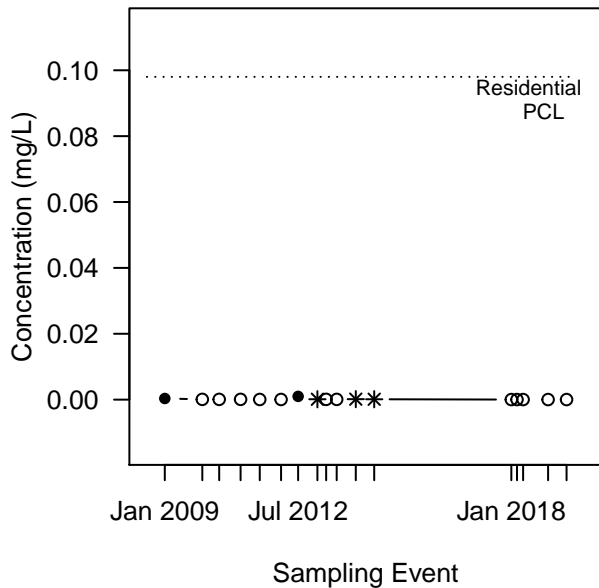
2,4-Dimethylphenol (Det/N = 1/17)
No Trend
(p-value=0.38 and CV=1.4)



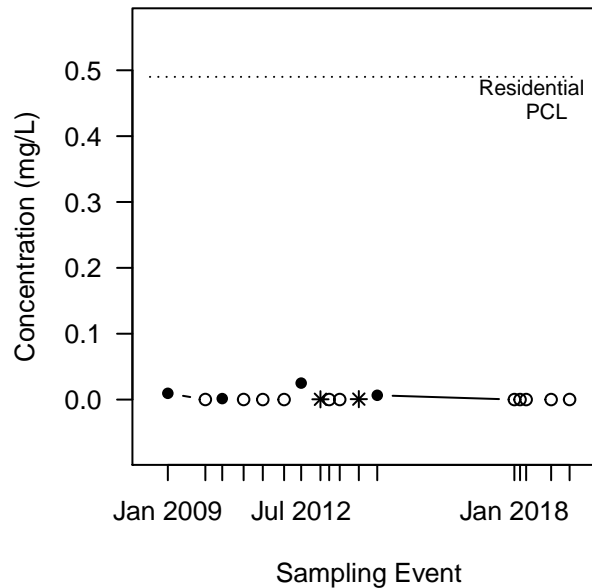
Benzene (Det/N = 0/16)
Not evaluated - All NDs



Dibenzofuran (Det/N = 5/17)
No Trend
(p-value=0.191 and CV=1.7)



Naphthalene (Det/N = 6/17)
No Trend
(p-value=0.103 and CV=2.4)

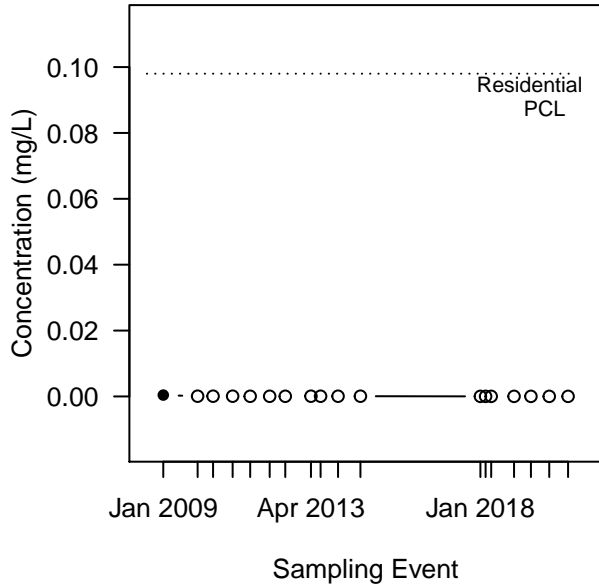


LEGEND:
 Concentration
 ● DET
 * DET, J-flagged
 ○ ND (DL plotted)

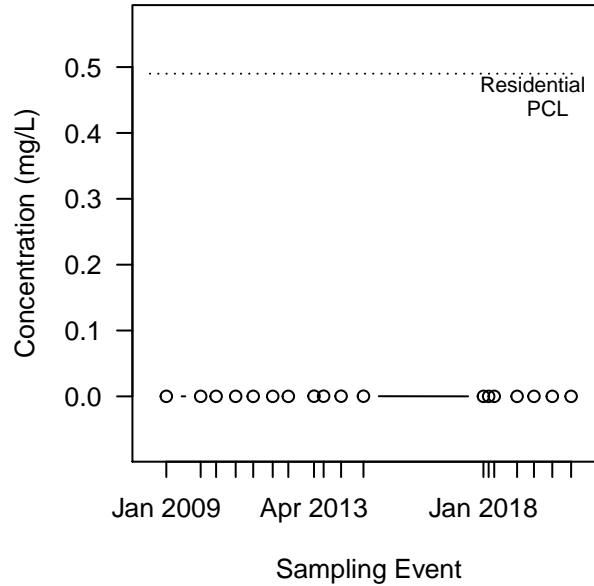
NOTE: A p-value < 0.05 indicates a statistically significant trend.
 A p-value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann-Kendall Trend Tests for MW-61A

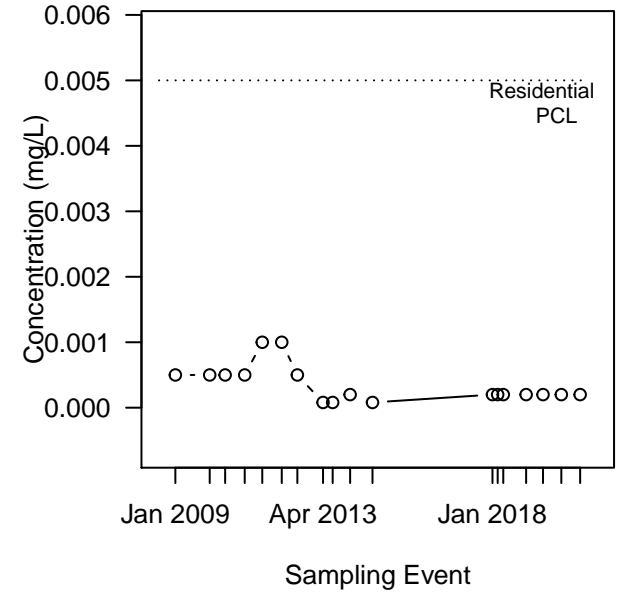
2-Methylnaphthalene (Det/N = 1/18)
Probably Decreasing
(p-value=0.0615 and CV=1.4)



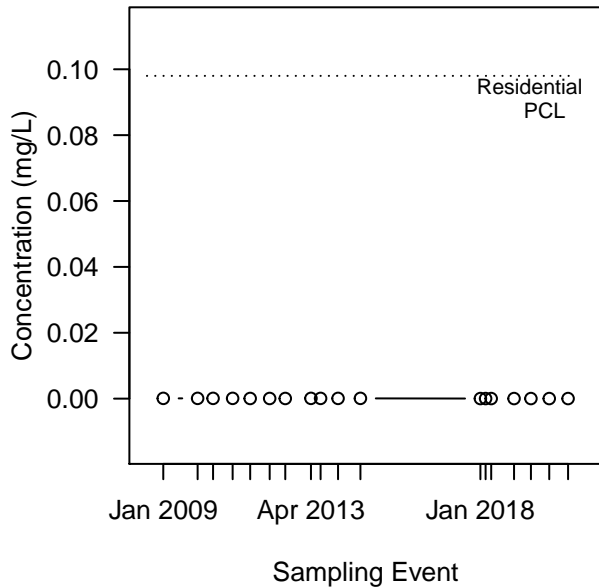
2,4-Dimethylphenol (Det/N = 0/18)
Not evaluated – All NDs



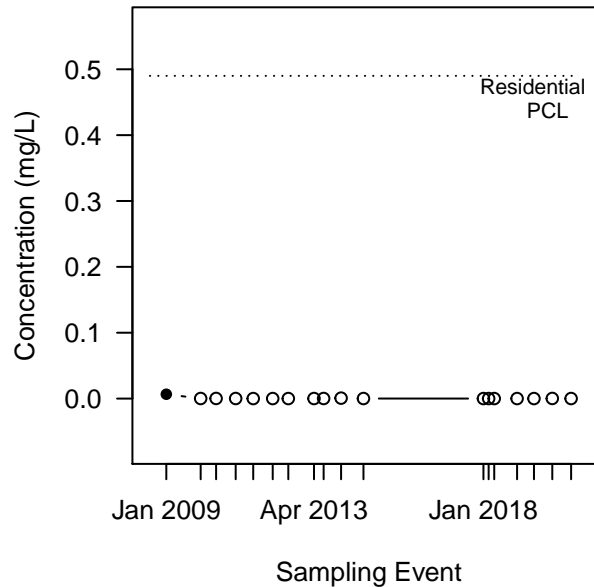
Benzene (Det/N = 0/18)
Not evaluated – All NDs



Dibenzofuran (Det/N = 0/18)
Not evaluated – All NDs



Naphthalene (Det/N = 1/18)
Probably Decreasing
(p-value=0.0615 and CV=3.3)

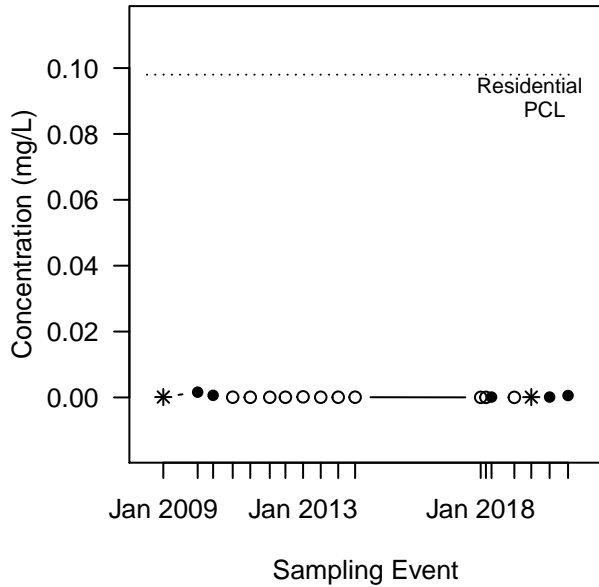


LEGEND:
 Concentration
 ● DET
 ○ ND (DL plotted)

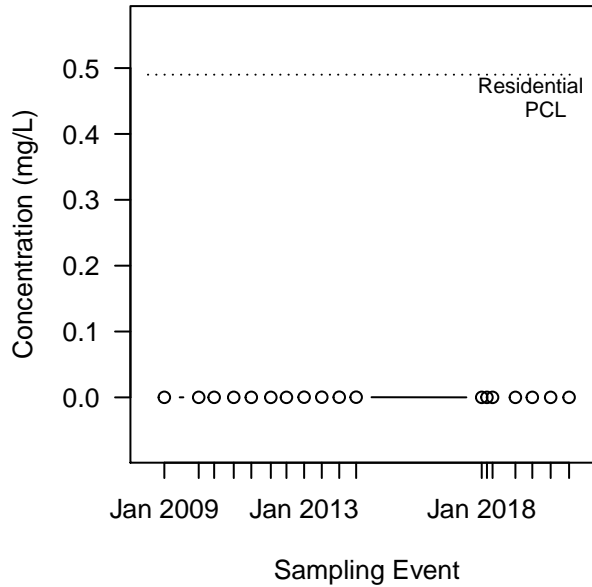
NOTE: A p-value < 0.05 indicates a statistically significant trend.
 A p-value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann-Kendall Trend Tests for MW-62B

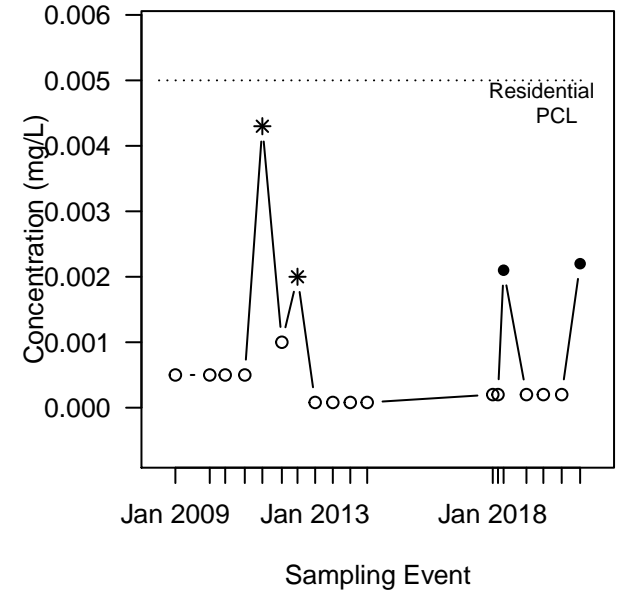
2-Methylnaphthalene (Det/N = 7/18)
No Trend
(p-value=0.465 and CV=1.8)



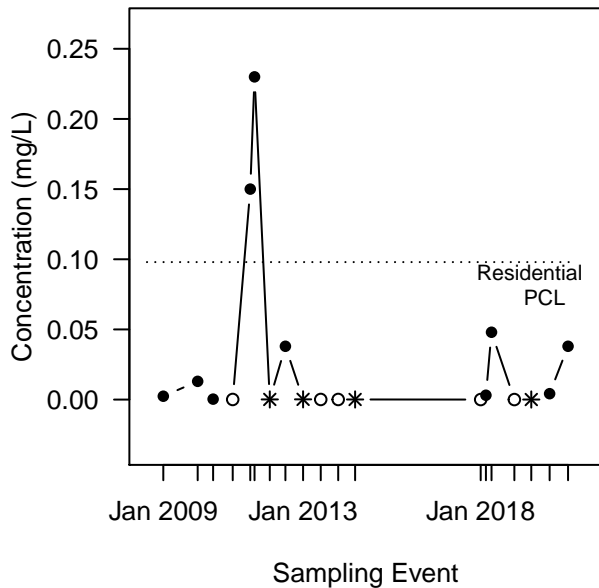
2,4-Dimethylphenol (Det/N = 0/18)
Not evaluated - All NDs



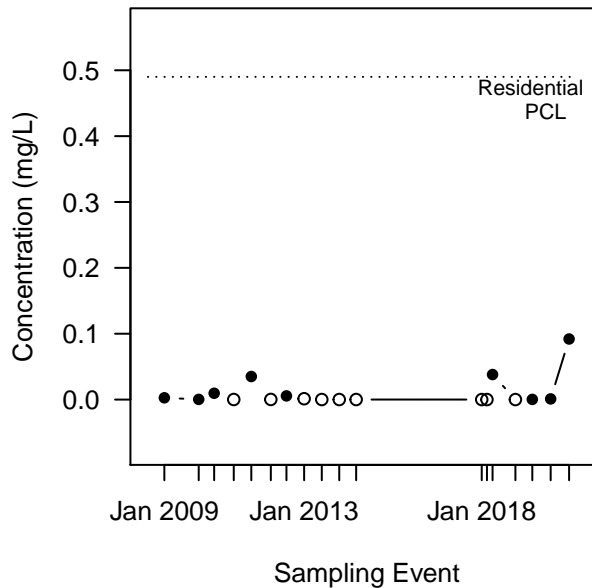
Benzene (Det/N = 4/18)
No Trend
(p-value=0.282 and CV=1.4)



Dibenzofuran (Det/N = 14/19)
No Trend
(p-value=0.323 and CV=2.2)



Naphthalene (Det/N = 9/18)
No Trend
(p-value=0.468 and CV=2.3)

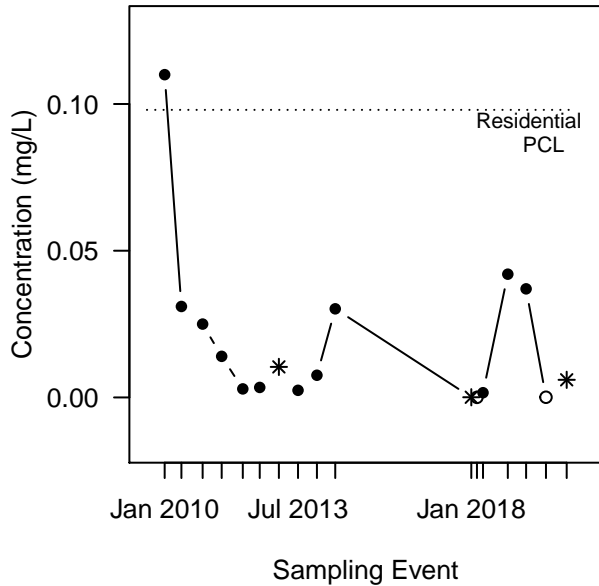


LEGEND:
 Concentration
 ● DET
 * DET, J-flagged
 ○ ND (DL plotted)

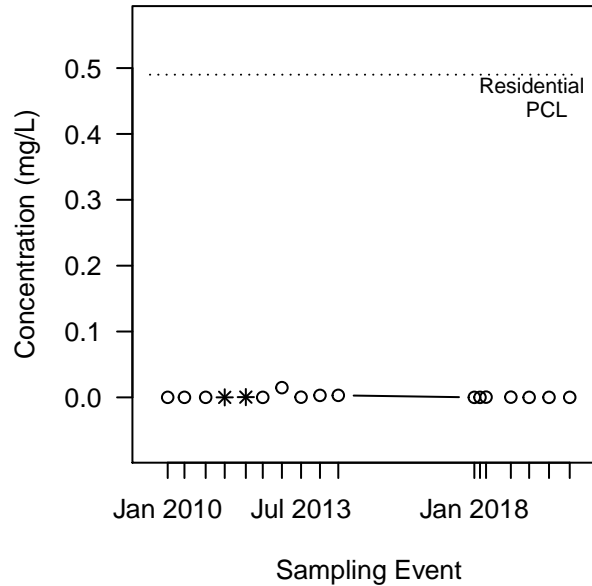
NOTE: A p-value < 0.05 indicates a statistically significant trend.
 A p-value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann-Kendall Trend Tests for MW-63B

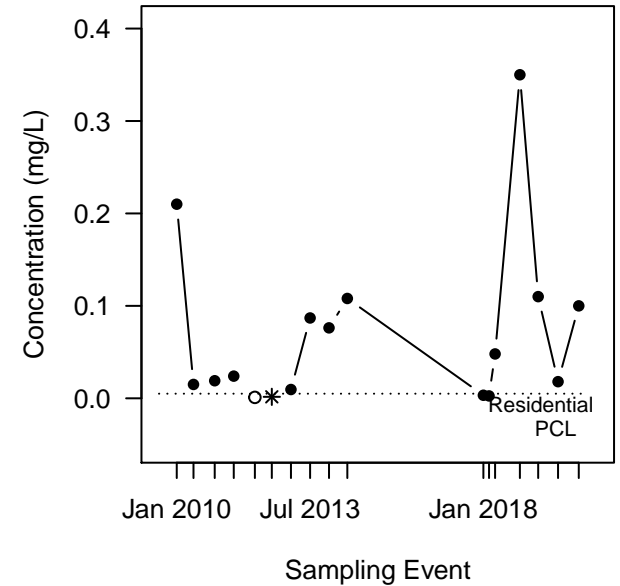
2-Methylnaphthalene (Det/N = 15/17)
Decreasing
 (p-value=0.0417 and CV=1.4)



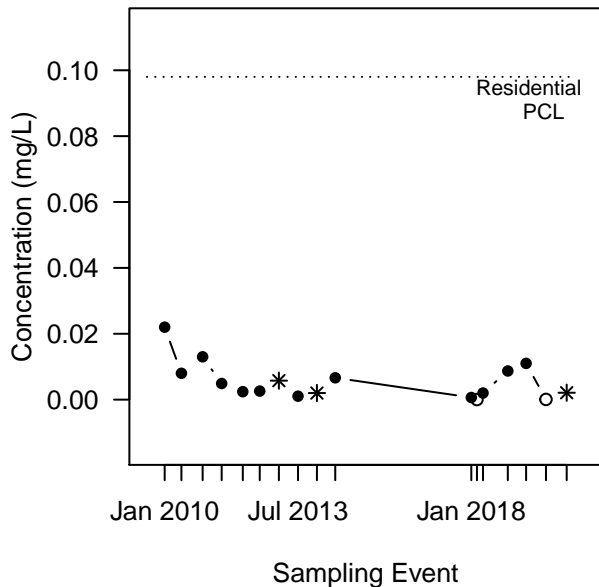
2,4-Dimethylphenol (Det/N = 2/17)
No Trend
 (p-value=0.117 and CV=2.7)



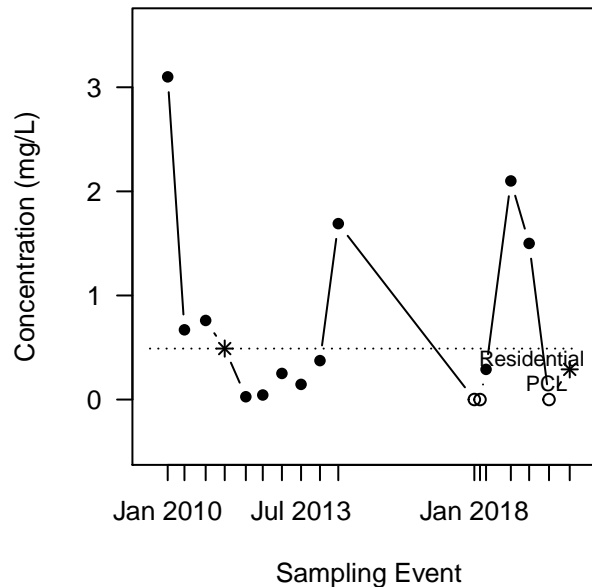
Benzene (Det/N = 16/17)
No Trend
 (p-value=0.152 and CV=1.3)



Dibenzofuran (Det/N = 15/17)
Decreasing
 (p-value=0.0317 and CV=1.1)



Naphthalene (Det/N = 14/17)
No Trend
 (p-value=0.171 and CV=1.3)

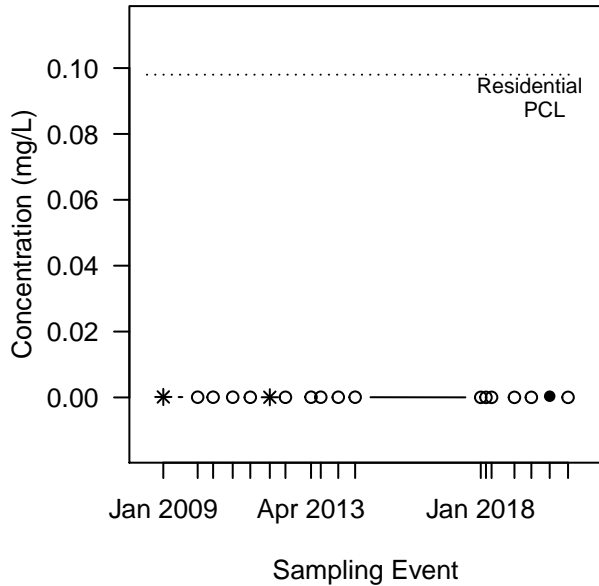


LEGEND:
 Concentration
 ● DET
 * DET, J-flagged
 ○ ND (DL plotted)

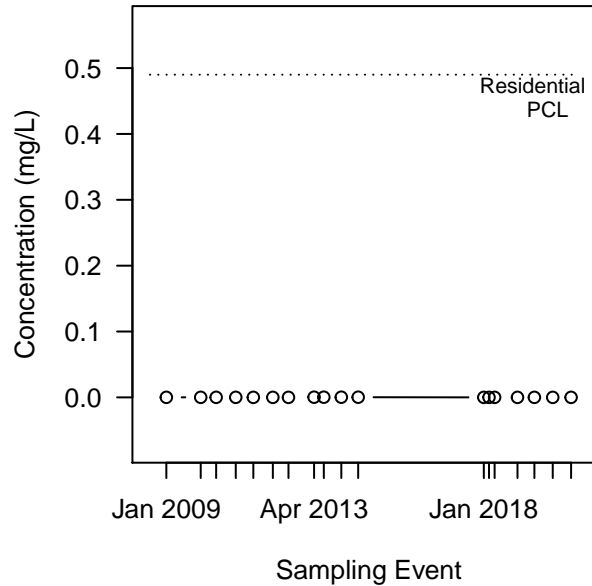
NOTE: A p-value<0.05 indicates a statistically significant trend.
 A p-value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann-Kendall Trend Tests for MW-64A

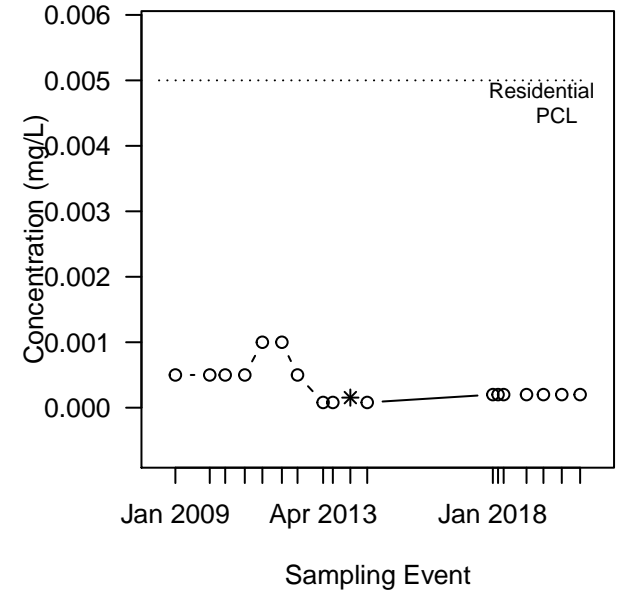
2-Methylnaphthalene (Det/N = 3/18)
No Trend
 (p-value=0.34 and CV=1.2)



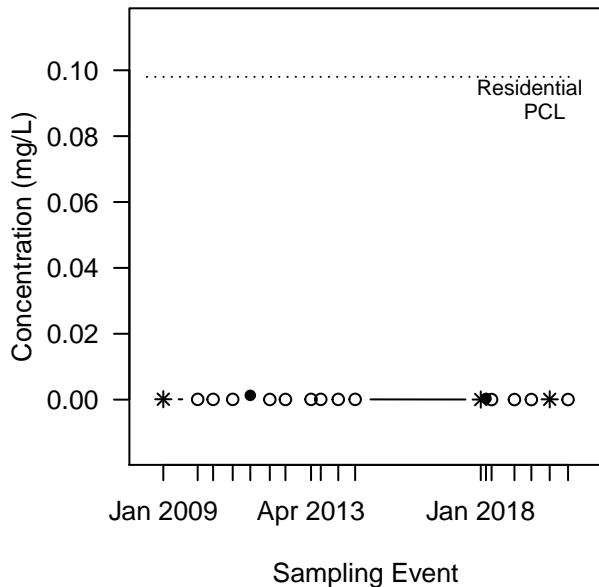
2,4-Dimethylphenol (Det/N = 0/18)
Not evaluated - All NDs



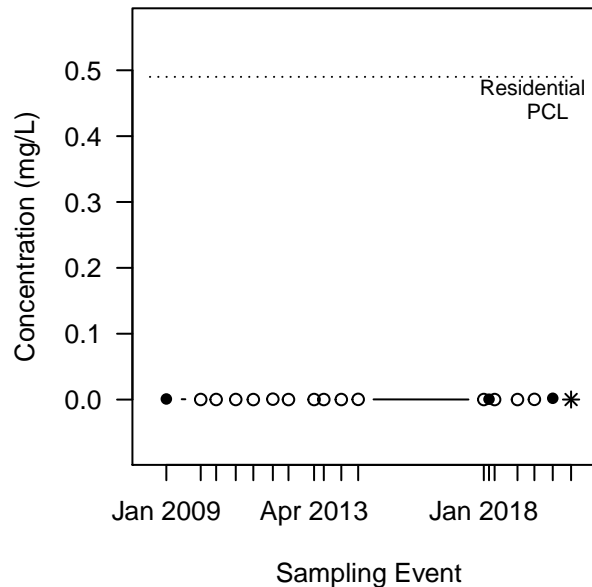
Benzene (Det/N = 1/18)
No Trend
 (p-value=0.5 and CV=0.81)



Dibenzofuran (Det/N = 5/18)
No Trend
 (p-value=0.5 and CV=2)



Naphthalene (Det/N = 4/18)
No Trend
 (p-value=0.159 and CV=1.6)

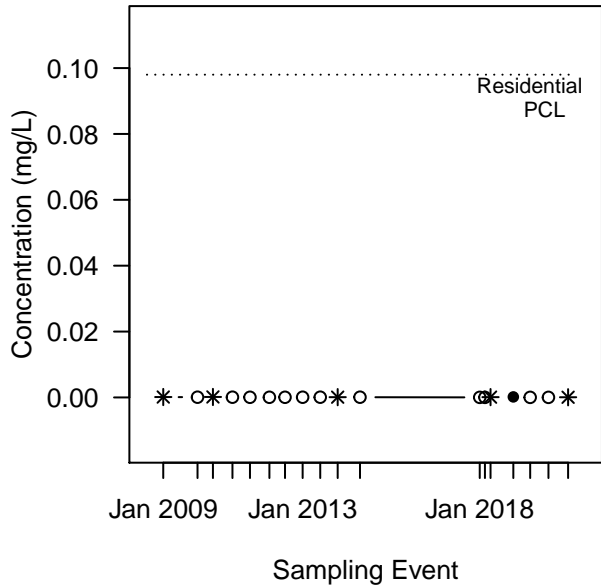


LEGEND:
 Concentration
 ● DET
 * DET, J-flagged
 ○ ND (DL plotted)

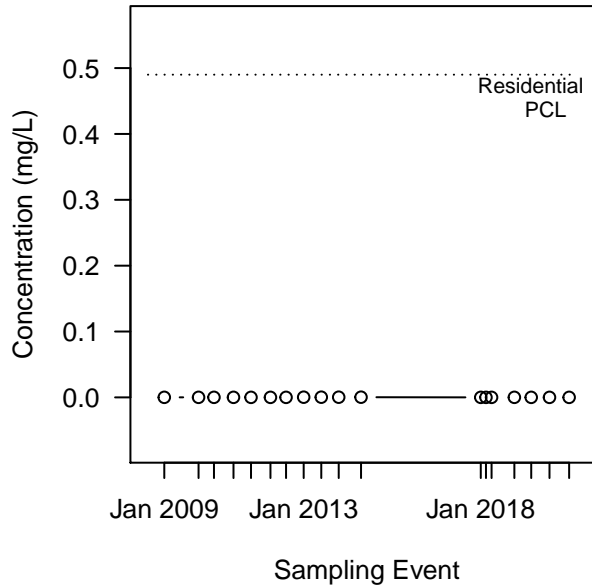
NOTE: A p-value < 0.05 indicates a statistically significant trend.
 A p-value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann-Kendall Trend Tests for MW-65D

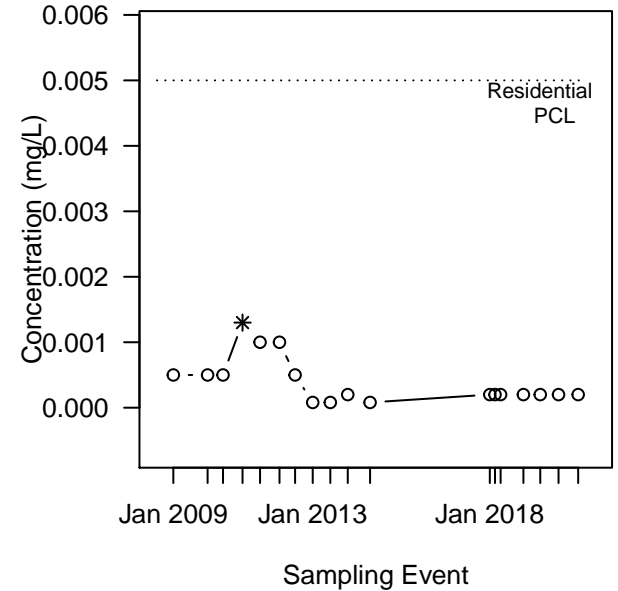
2-Methylnaphthalene (Det/N = 6/18)
No Trend
 (p-value=0.428 and CV=0.6)



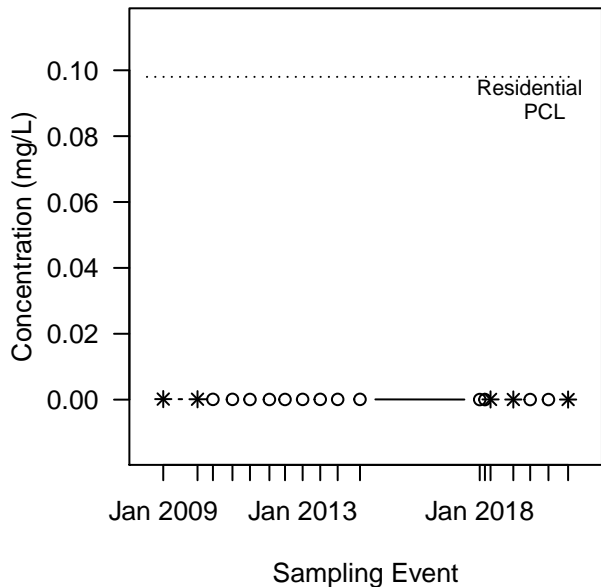
2,4-Dimethylphenol (Det/N = 0/18)
Not evaluated - All NDs



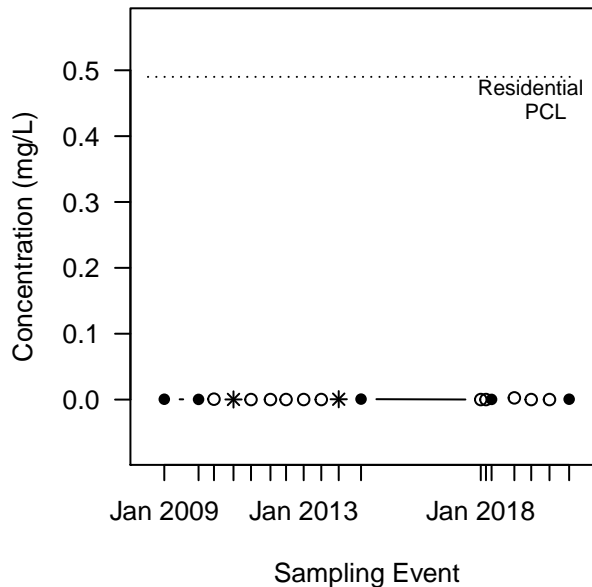
Benzene (Det/N = 1/18)
Stable
 (p-value=0.168 and CV=0.91)



Dibenzofuran (Det/N = 5/18)
Stable
 (p-value=0.423 and CV=0.61)



Naphthalene (Det/N = 7/18)
No Trend
 (p-value=0.414 and CV=1.6)

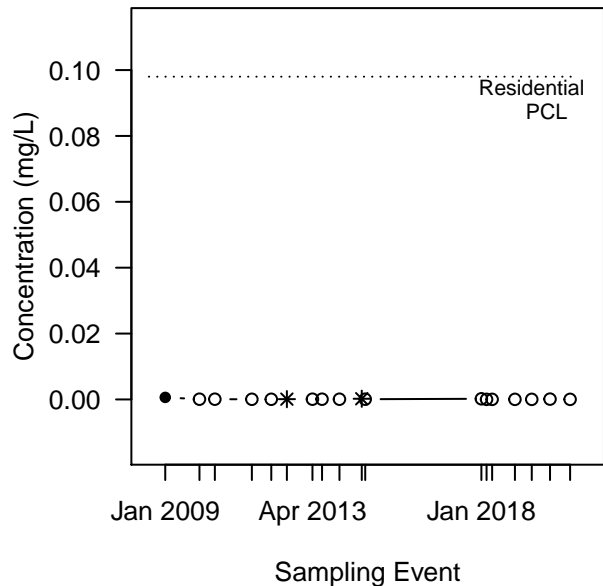


LEGEND:
 Concentration
 ● DET
 * DET, J-flagged
 ○ ND (DL plotted)

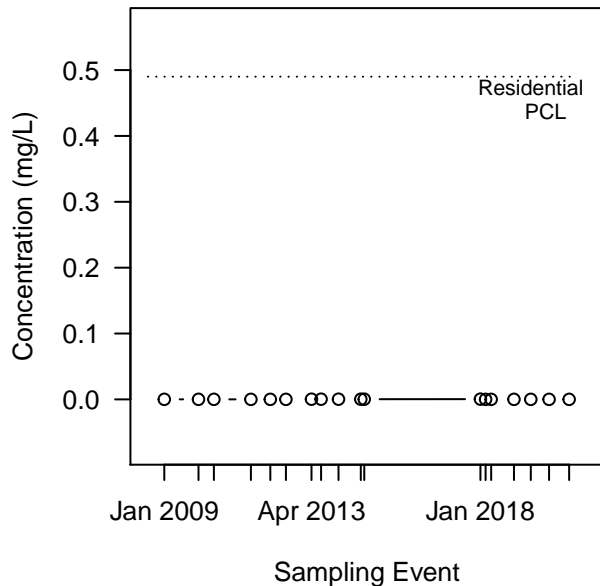
NOTE: A p-value < 0.05 indicates a statistically significant trend.
 A p-value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann-Kendall Trend Tests for MW-66D

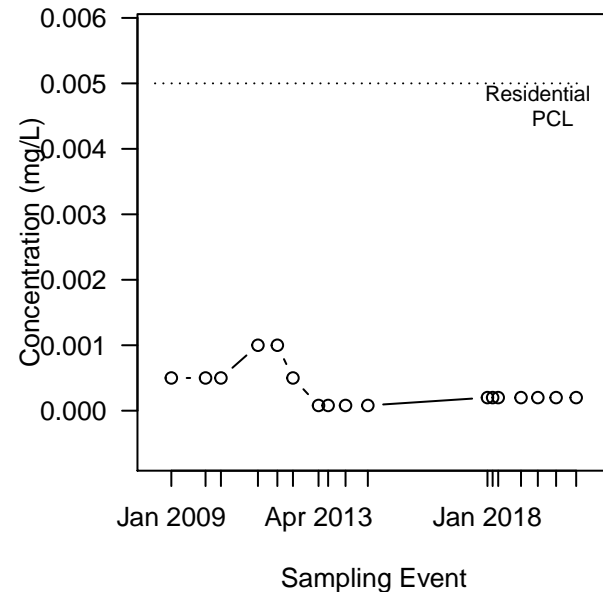
2-Methylnaphthalene (Det/N = 3/18)
Probably Decreasing
(p-value=0.0879 and CV=1.4)



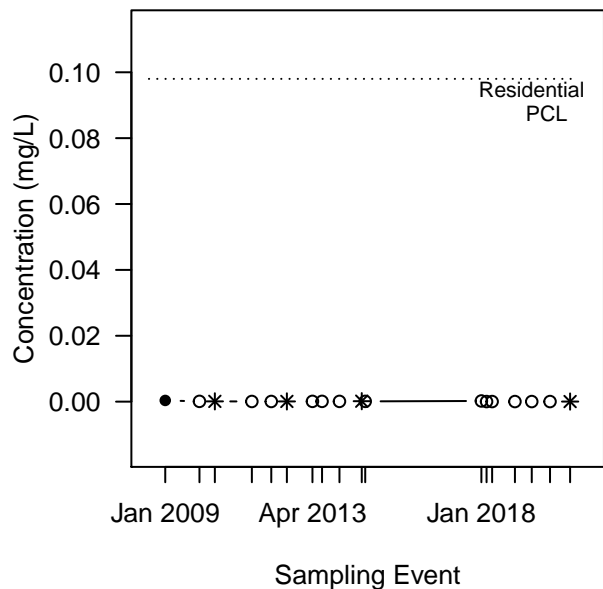
2,4-Dimethylphenol (Det/N = 0/18)
Not evaluated - All NDs



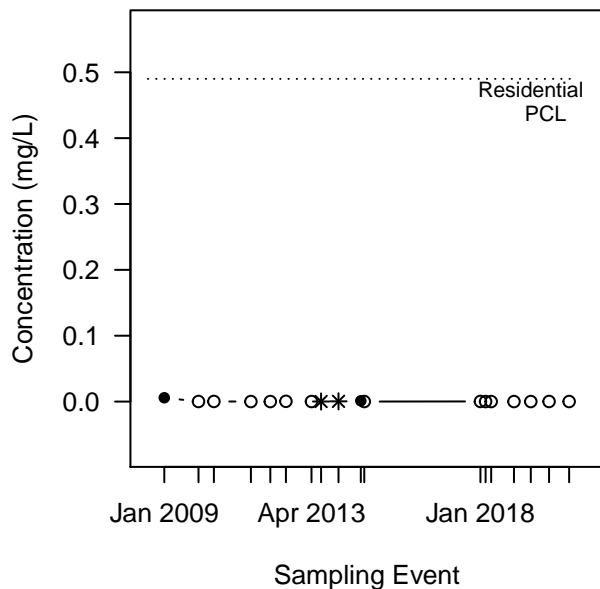
Benzene (Det/N = 0/17)
Not evaluated - All NDs



Dibenzofuran (Det/N = 5/18)
No Trend
(p-value=0.123 and CV=1)



Naphthalene (Det/N = 4/18)
No Trend
(p-value=0.159 and CV=2.7)

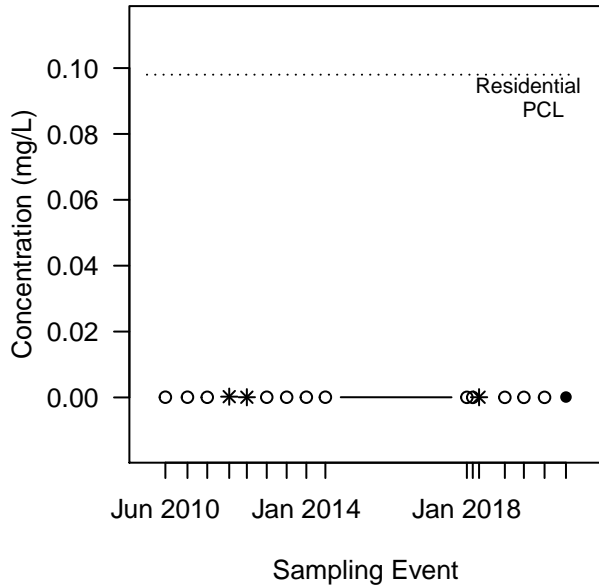


LEGEND:
 Concentration
 ● DET
 * DET, J-flagged
 ○ ND (DL plotted)

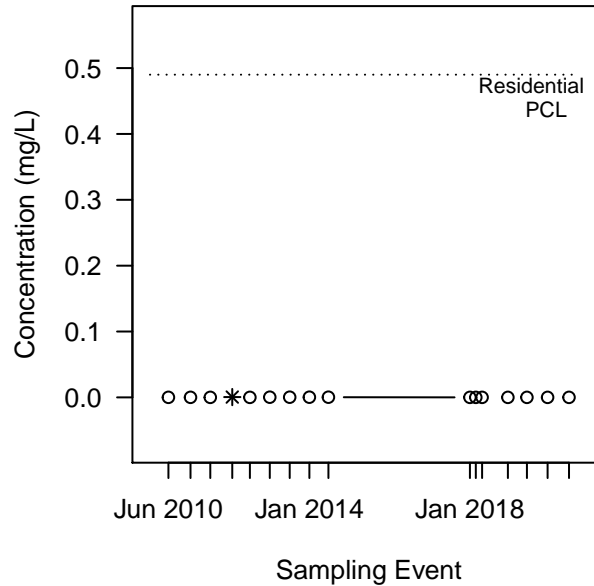
NOTE: A p-value < 0.05 indicates a statistically significant trend.
 A p-value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann-Kendall Trend Tests for MW-67B

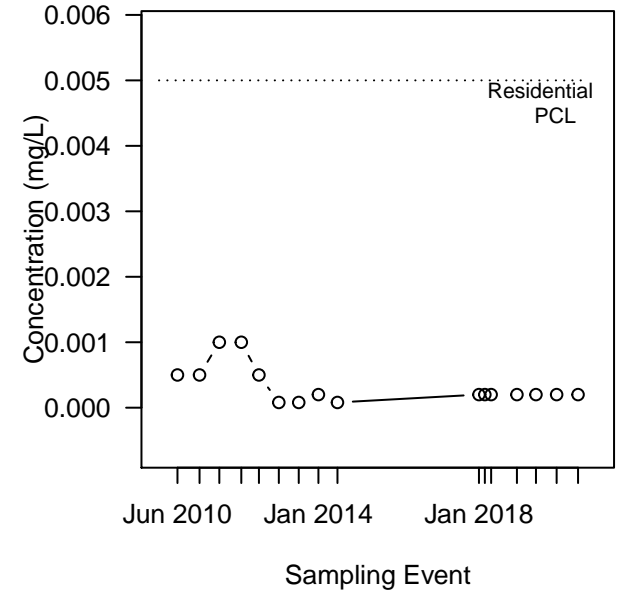
2-Methylnaphthalene (Det/N = 4/16)
No Trend
(p-value=0.429 and CV=0.8)



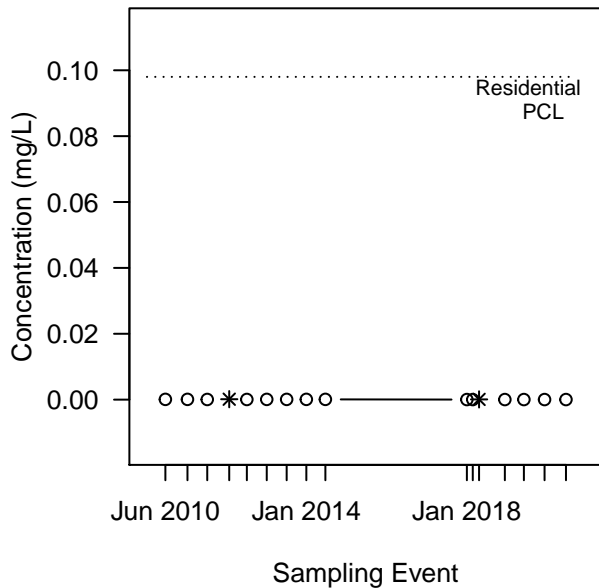
2,4-Dimethylphenol (Det/N = 1/16)
No Trend
(p-value=0.193 and CV=1.1)



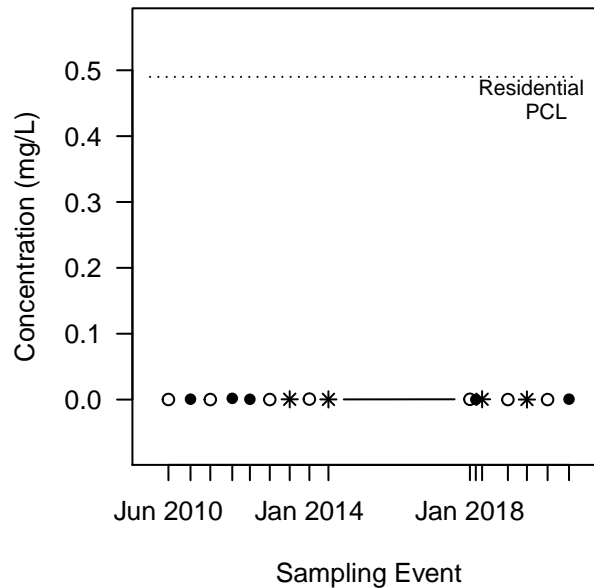
Benzene (Det/N = 0/16)
Not evaluated - All NDs



Dibenzofuran (Det/N = 2/16)
Stable
(p-value=0.437 and CV=0.6)



Naphthalene (Det/N = 9/16)
No Trend
(p-value=0.389 and CV=1.2)

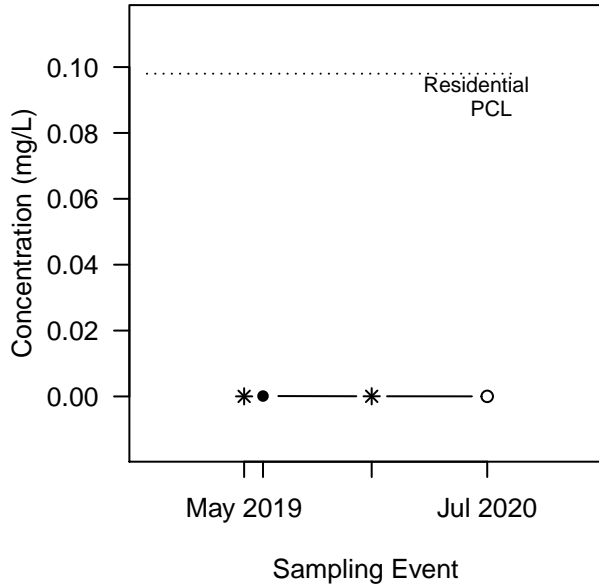


LEGEND:
 Concentration
 ● DET
 * DET, J-flagged
 ○ ND (DL plotted)

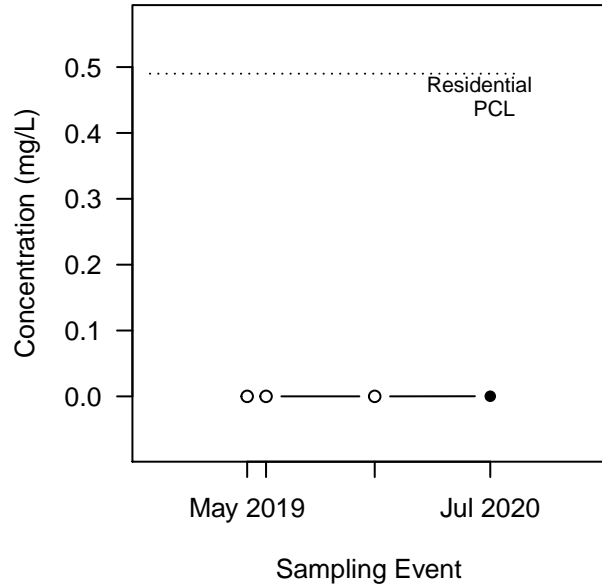
NOTE: A p-value < 0.05 indicates a statistically significant trend.
 A p-value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann–Kendall Trend Tests for MW-68A

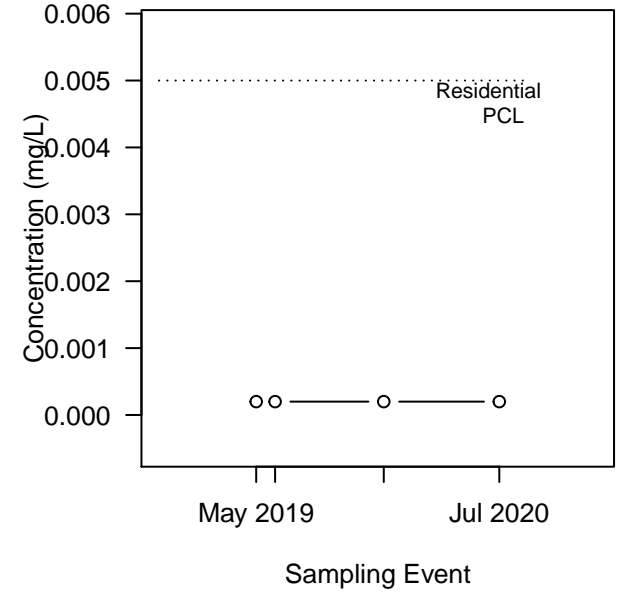
2-Methylnaphthalene (Det/N = 3/4)
Stable
(p-value=0.367 and CV=0.87)



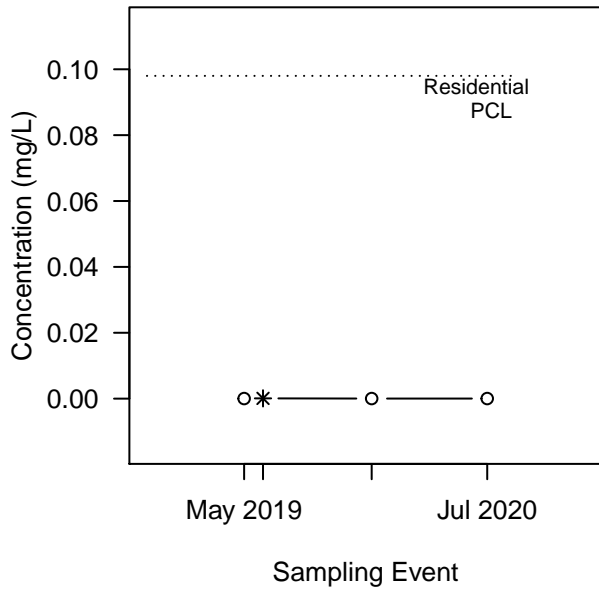
2,4-Dimethylphenol (Det/N = 1/4)
No Trend
(p-value=0.186 and CV=1.1)



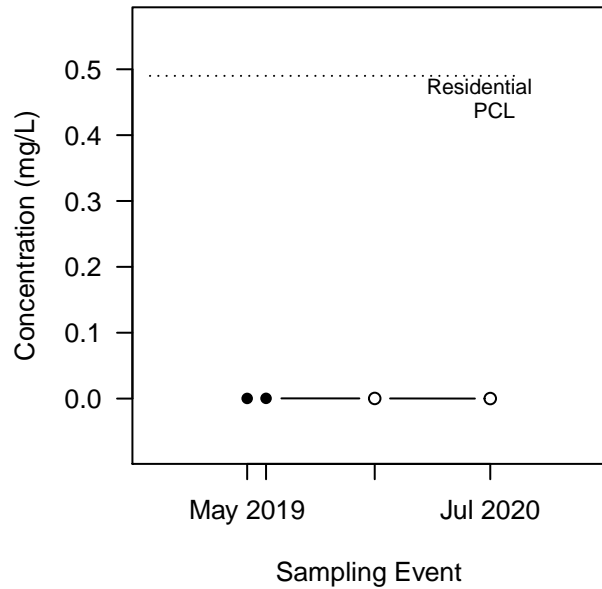
Benzene (Det/N = 0/4)
Not evaluated (all concentrations are identical)



Dibenzofuran (Det/N = 1/4)
No Trend
(p-value=0.5 and CV=0.81)



Naphthalene (Det/N = 2/4)
Stable
(p-value=0.235 and CV=0.63)

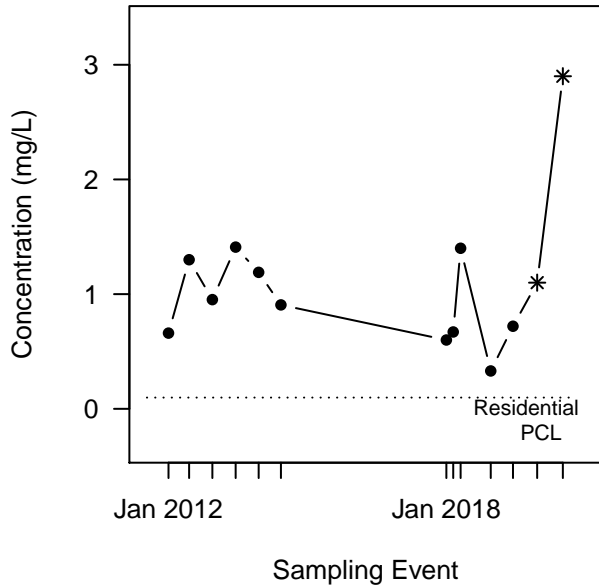


LEGEND:
 Concentration
 ● DET
 * DET, J-flagged
 ○ ND (DL plotted)

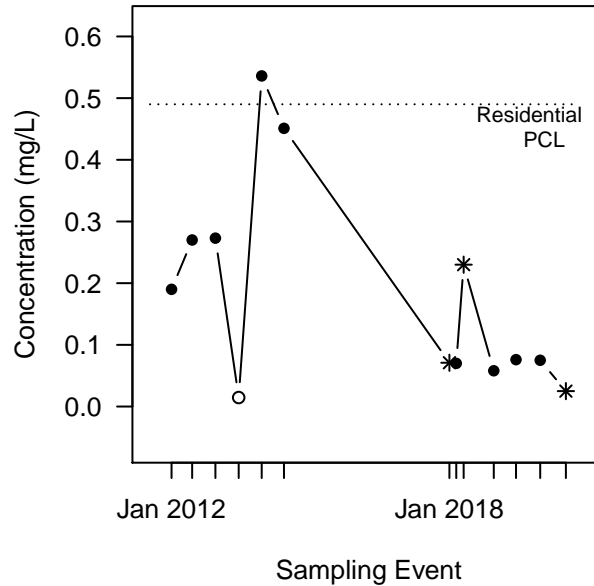
NOTE: A p-value<0.05 indicates a statistically significant trend.
 A p-value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann–Kendall Trend Tests for MW-68B

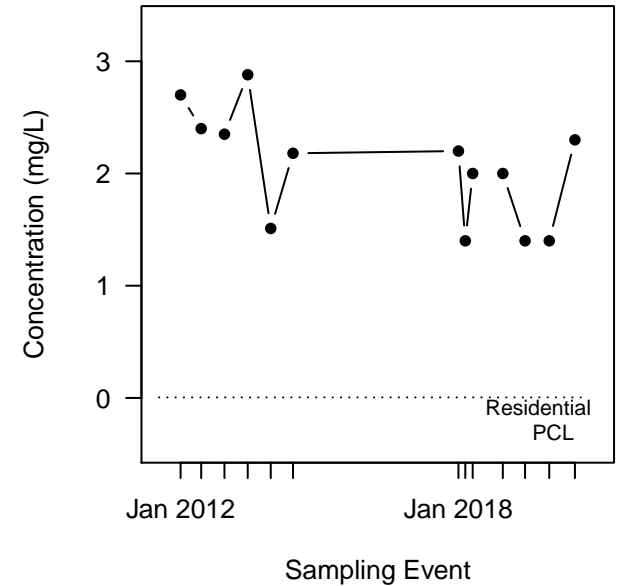
2-Methylnaphthalene (Det/N = 13/13)
No Trend
 (p-value=0.476 and CV=0.59)



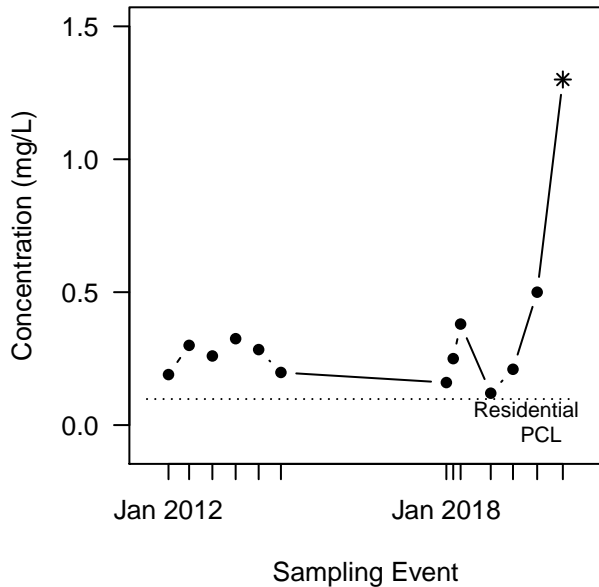
2,4-Dimethylphenol (Det/N = 12/13)
Probably Decreasing
 (p-value=0.0803 and CV=0.92)



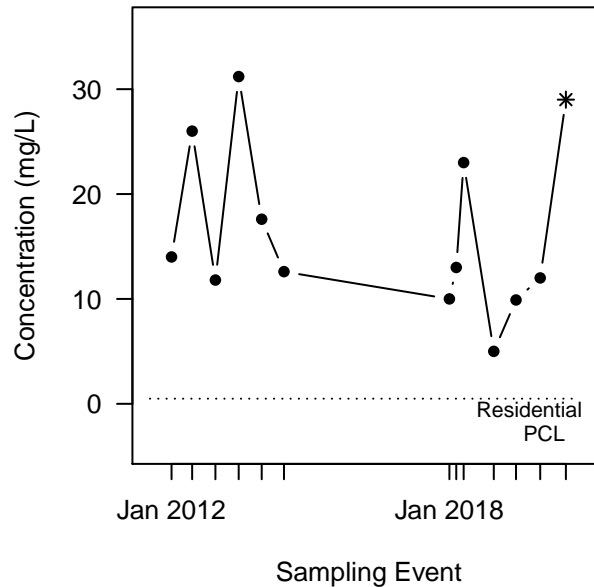
Benzene (Det/N = 13/13)
Decreasing
 (p-value=0.0114 and CV=0.24)



Dibenzofuran (Det/N = 13/13)
No Trend
 (p-value=0.214 and CV=0.88)



Naphthalene (Det/N = 13/13)
Stable
 (p-value=0.214 and CV=0.49)

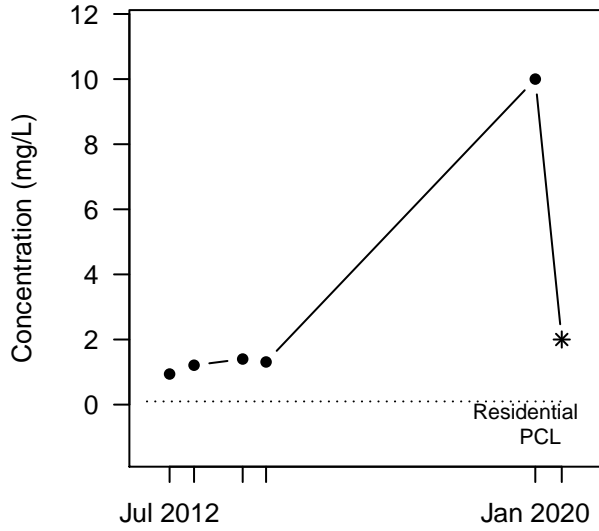


LEGEND:
 Concentration
 ● DET
 * DET, J-flagged
 ○ ND (DL plotted)

NOTE: A p-value<0.05 indicates a statistically significant trend.
 A p-value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

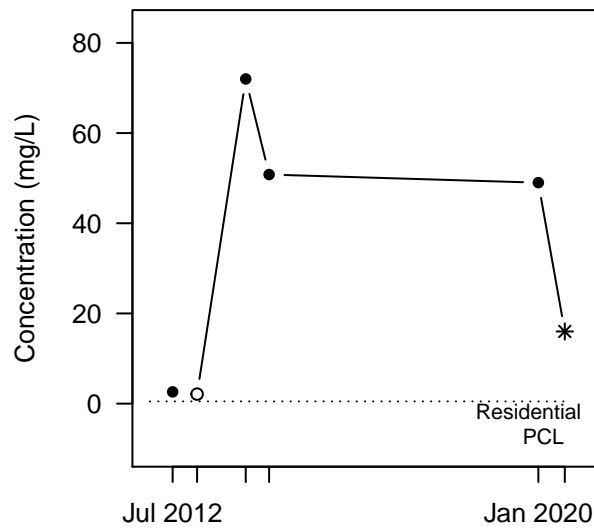
Mann–Kendall Trend Tests for MW-70B

2-Methylnaphthalene (Det/N = 6/6)
Increasing
 (p-value=0.0301 and CV=1.3)



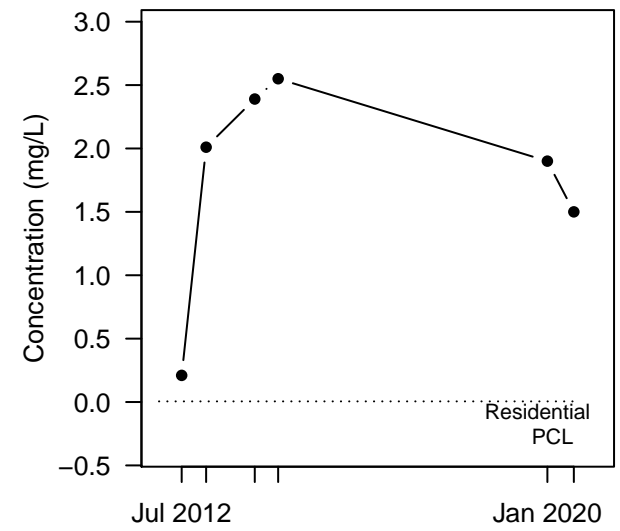
Sampling Event

2,4-Dimethylphenol (Det/N = 5/6)
No Trend
 (p-value=0.5 and CV=0.91)



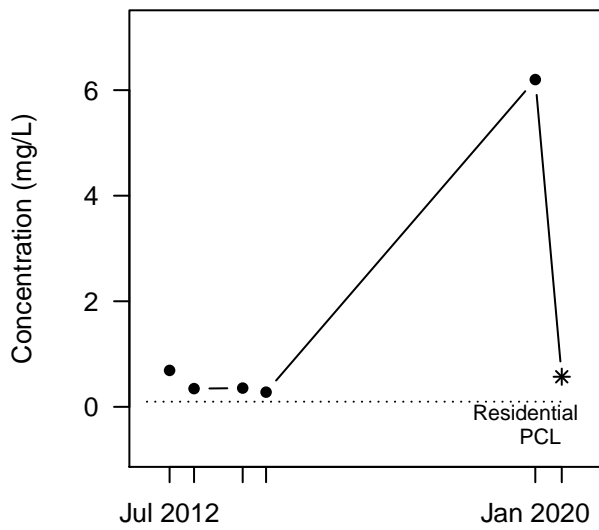
Sampling Event

Benzene (Det/N = 6/6)
No Trend
 (p-value=0.5 and CV=0.48)



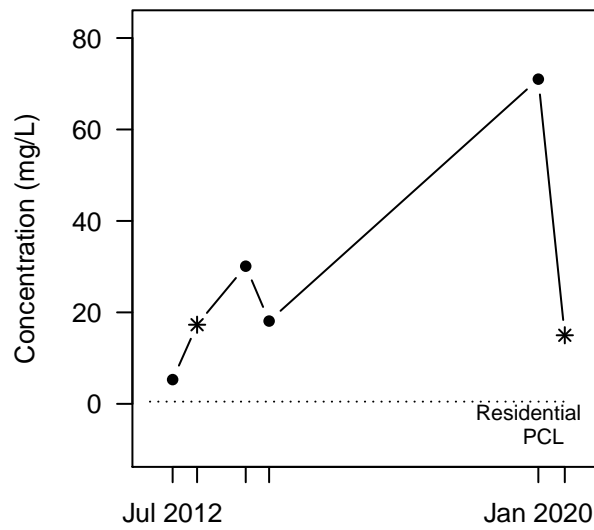
Sampling Event

Dibenzofuran (Det/N = 6/6)
No Trend
 (p-value=0.5 and CV=1.7)



Sampling Event

Naphthalene (Det/N = 6/6)
No Trend
 (p-value=0.226 and CV=0.89)



Sampling Event

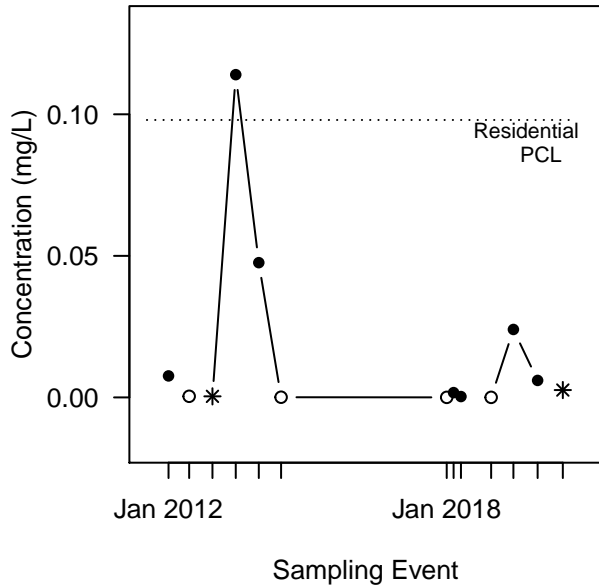
LEGEND:
 Concentration
 ● DET
 * DET, J-flagged
 ○ ND (DL plotted)

NOTE: A p-value<0.05 indicates a statistically significant trend.

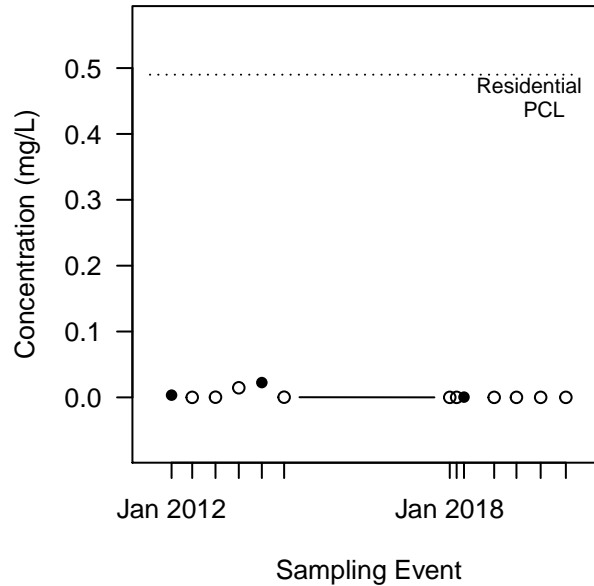
A p-value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann-Kendall Trend Tests for MW-71B

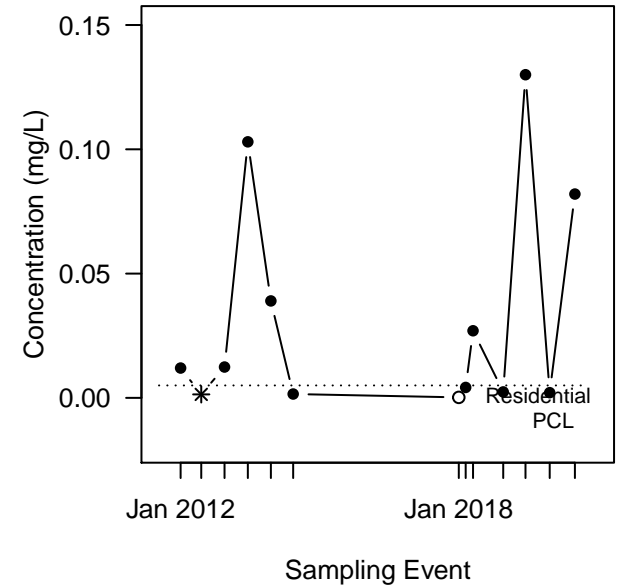
2-Methylnaphthalene (Det/N = 9/13)
No Trend
(p-value=0.5 and CV=2.1)



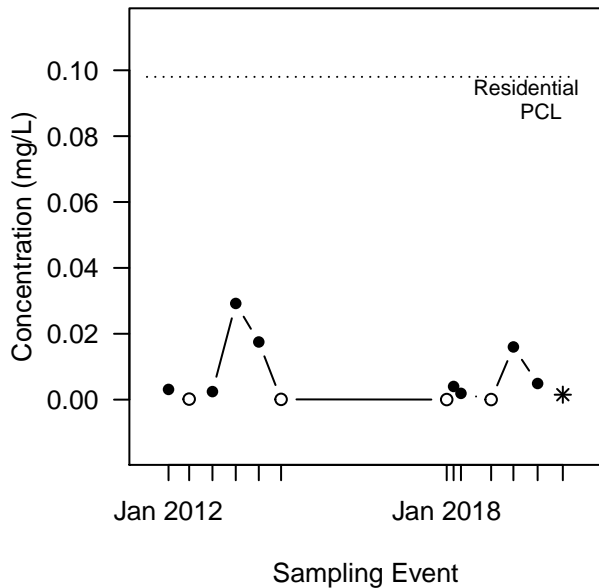
2,4-Dimethylphenol (Det/N = 3/13)
No Trend
(p-value=0.158 and CV=2.2)



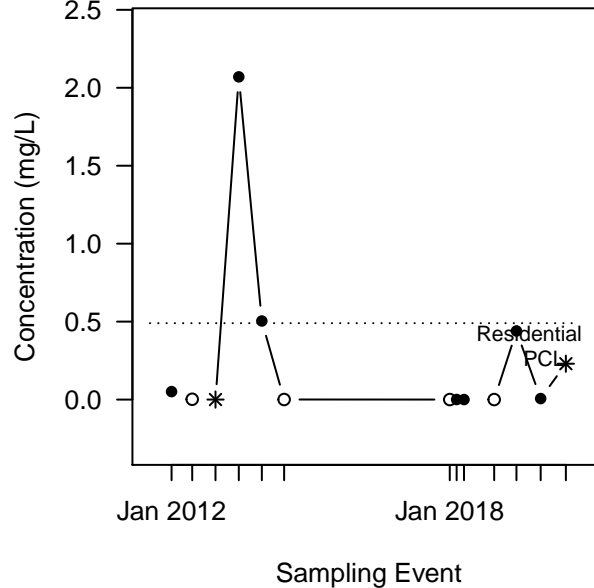
Benzene (Det/N = 12/13)
No Trend
(p-value=0.291 and CV=1.4)



Dibenzofuran (Det/N = 9/13)
No Trend
(p-value=0.475 and CV=1.4)



Naphthalene (Det/N = 9/13)
No Trend
(p-value=0.378 and CV=2.3)

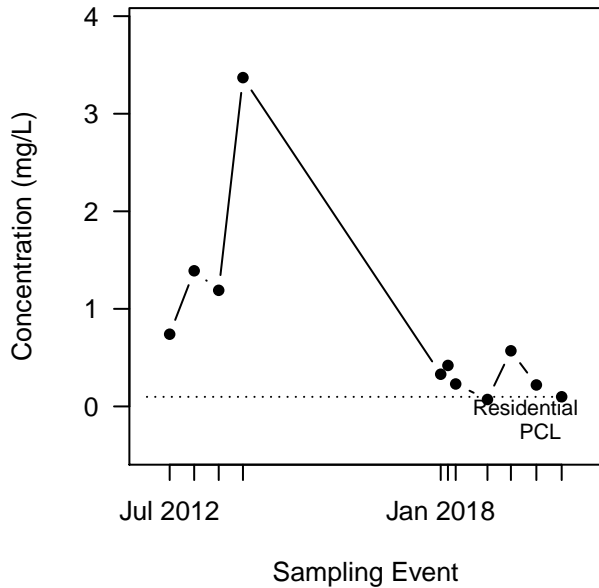


LEGEND:
 Concentration
 ● DET
 * DET, J-flagged
 ○ ND (DL plotted)

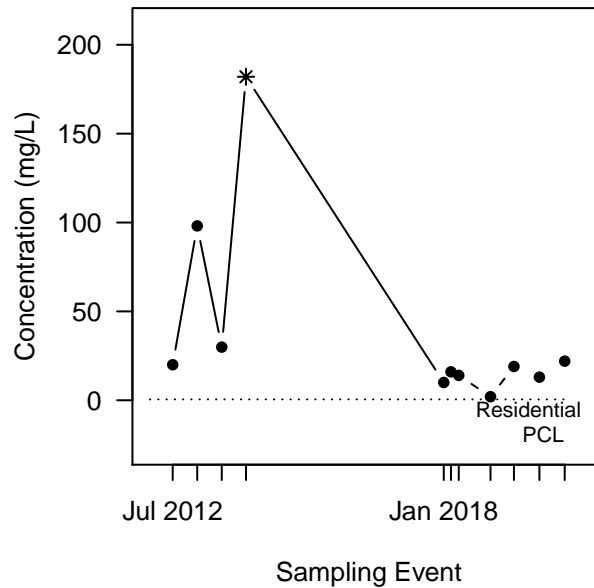
NOTE: A p-value < 0.05 indicates a statistically significant trend.
 A p-value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann-Kendall Trend Tests for MW-72B

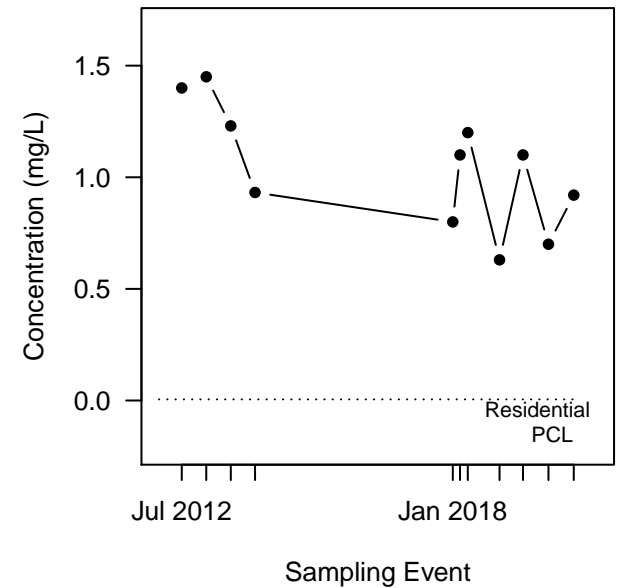
2-Methylnaphthalene (Det/N = 11/11)
Decreasing
 (p-value=0.00976 and CV=1.2)



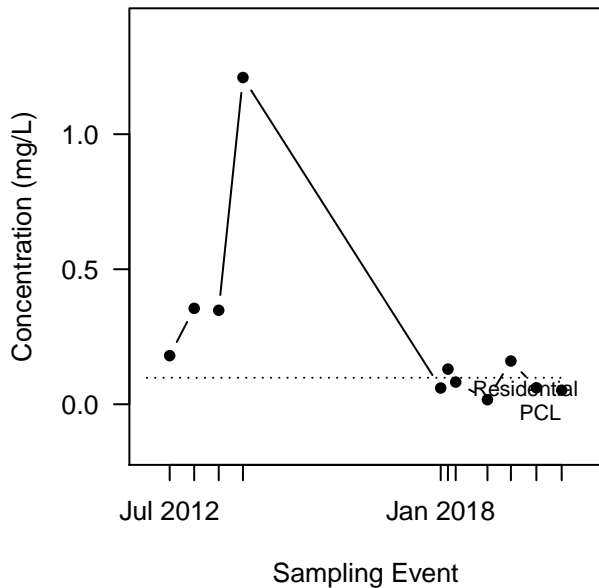
2,4-Dimethylphenol (Det/N = 11/11)
No Trend
 (p-value=0.138 and CV=1.4)



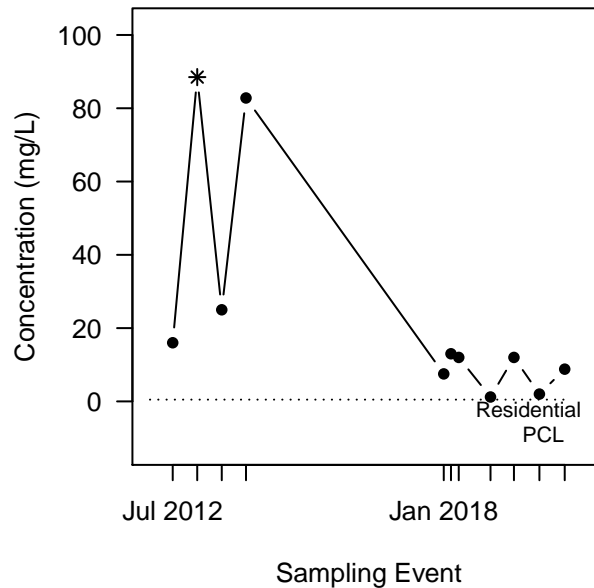
Benzene (Det/N = 11/11)
Decreasing
 (p-value=0.0175 and CV=0.26)



Dibenzofuran (Det/N = 11/11)
Decreasing
 (p-value=0.0215 and CV=1.4)



Naphthalene (Det/N = 11/11)
Decreasing
 (p-value=0.0118 and CV=1.3)

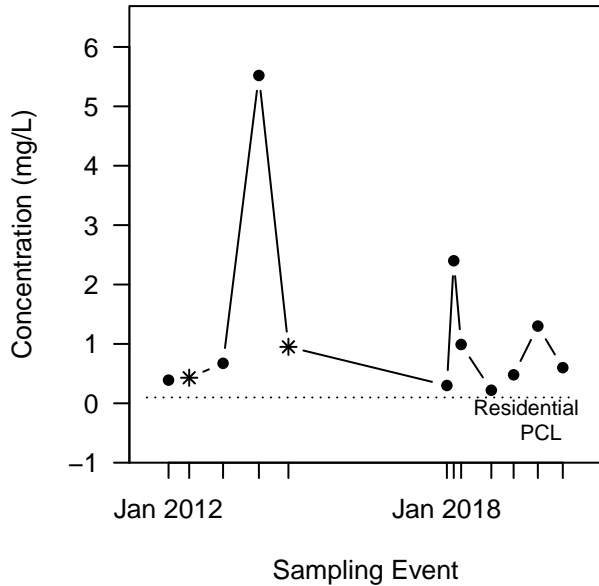


LEGEND:
 Concentration
 ● DET
 * DET, J-flagged
 ○ ND (DL plotted)

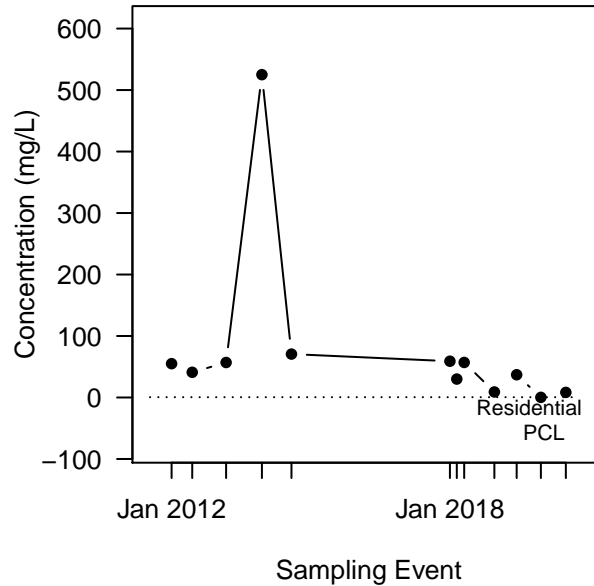
NOTE: A p-value<0.05 indicates a statistically significant trend.
 A p-value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann-Kendall Trend Tests for MW-74B

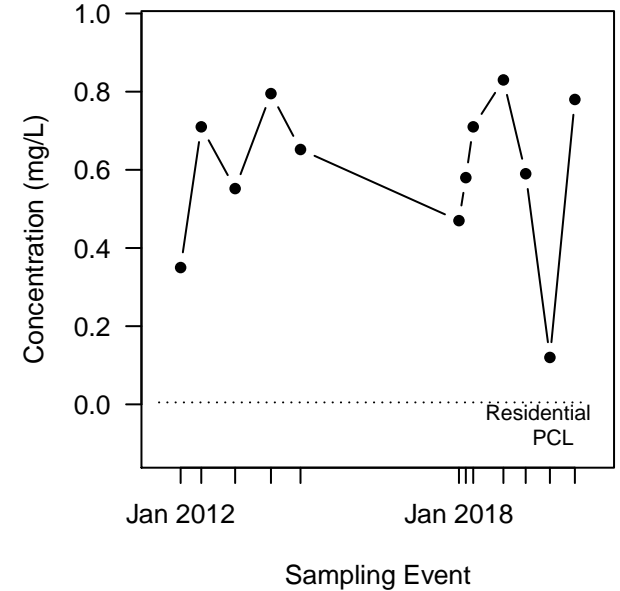
2-Methylnaphthalene (Det/N = 12/12)
No Trend
 (p-value=0.366 and CV=1.3)



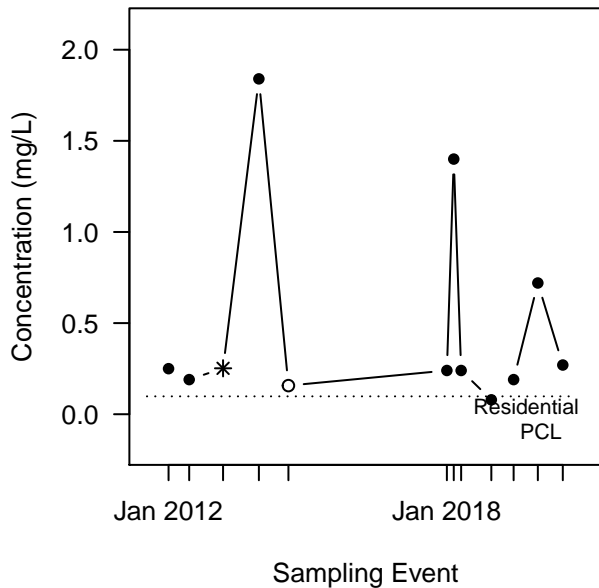
2,4-Dimethylphenol (Det/N = 12/12)
Decreasing
 (p-value=0.0234 and CV=1.8)



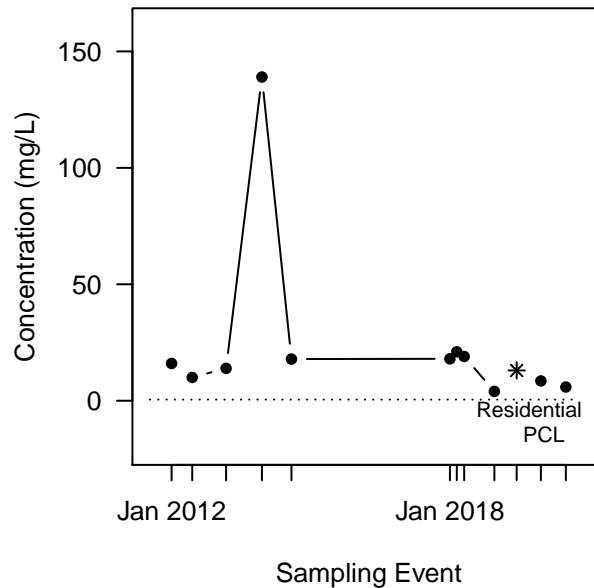
Benzene (Det/N = 12/12)
No Trend
 (p-value=0.291 and CV=0.34)



Dibenzofuran (Det/N = 11/12)
No Trend
 (p-value=0.473 and CV=1.2)



Naphthalene (Det/N = 12/12)
No Trend
 (p-value=0.152 and CV=1.5)

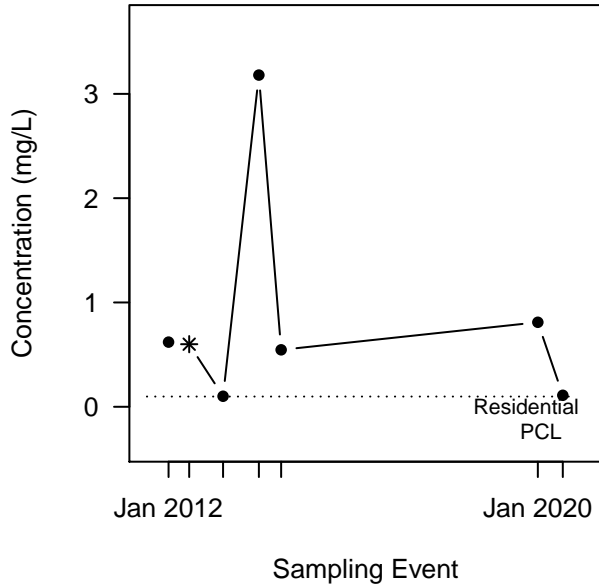


LEGEND:
 Concentration
 ● DET
 * DET, J-flagged
 ○ ND (DL plotted)

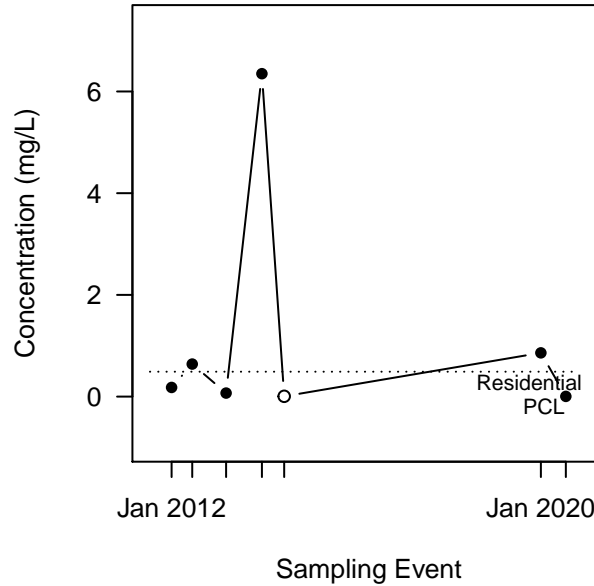
NOTE: A p-value < 0.05 indicates a statistically significant trend.
 A p-value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann–Kendall Trend Tests for MW-75B

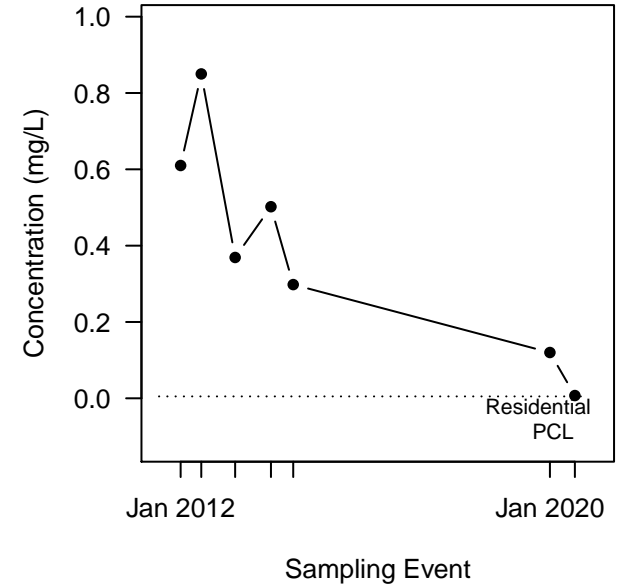
2-Methylnaphthalene (Det/N = 7/7)
No Trend
(p-value=0.382 and CV=1.2)



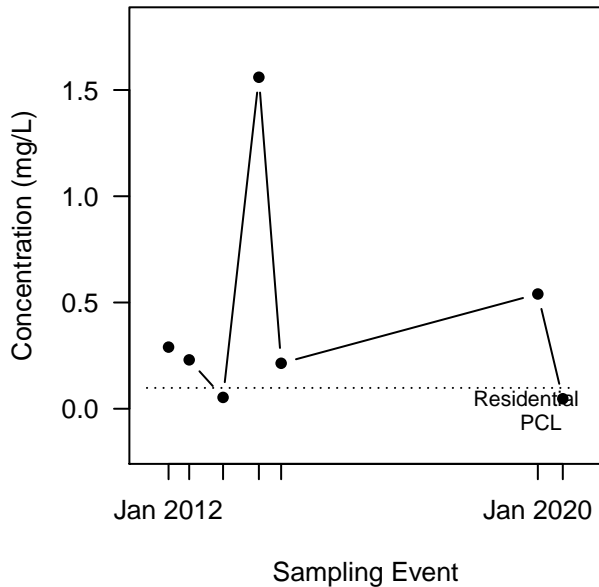
2,4-Dimethylphenol (Det/N = 6/7)
No Trend
(p-value=0.382 and CV=2)



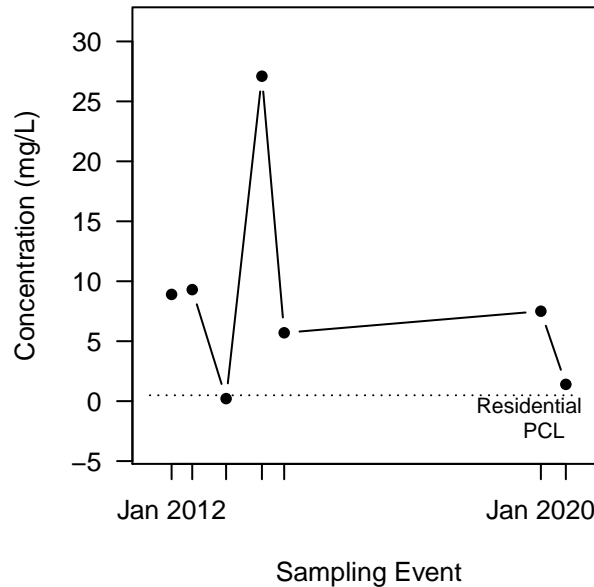
Benzene (Det/N = 7/7)
Decreasing
(p-value=0.00813 and CV=0.73)



Dibenzofuran (Det/N = 7/7)
No Trend
(p-value=0.274 and CV=1.3)



Naphthalene (Det/N = 7/7)
No Trend
(p-value=0.274 and CV=1)

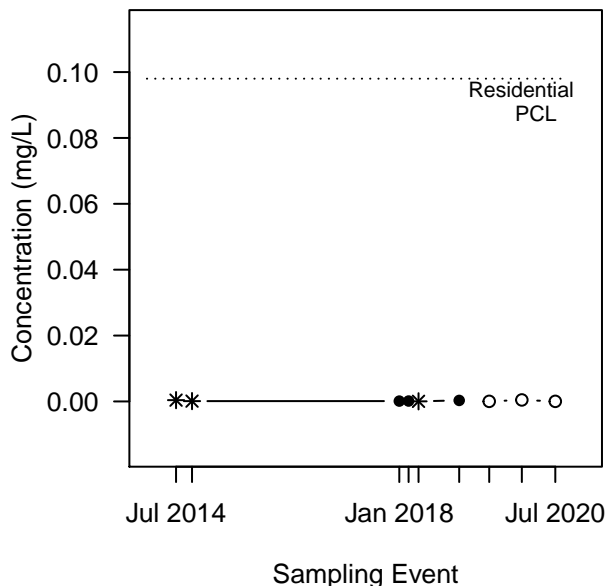


LEGEND:
 Concentration
 ● DET
 * DET, J-flagged
 ○ ND (DL plotted)

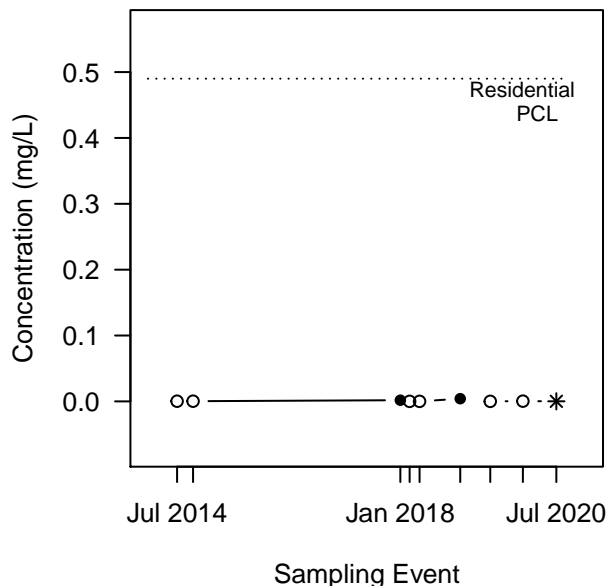
NOTE: A p-value < 0.05 indicates a statistically significant trend.
 A p-value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann-Kendall Trend Tests for MW-76C

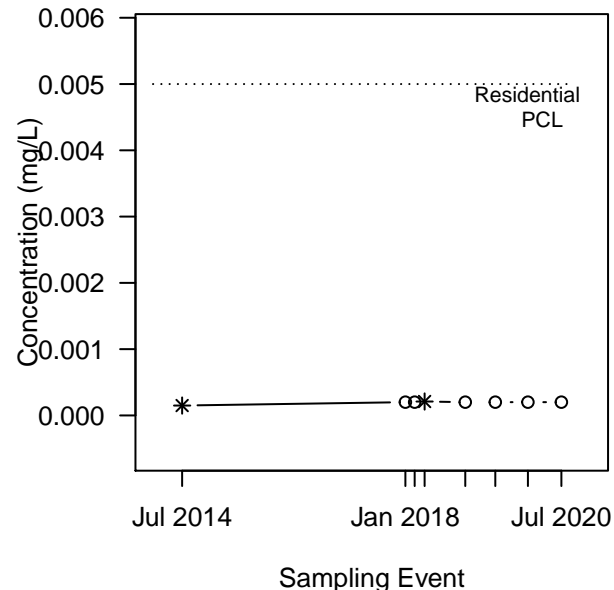
2-Methylnaphthalene (Det/N = 6/9)
Decreasing
(p-value=0.0277 and CV=0.98)



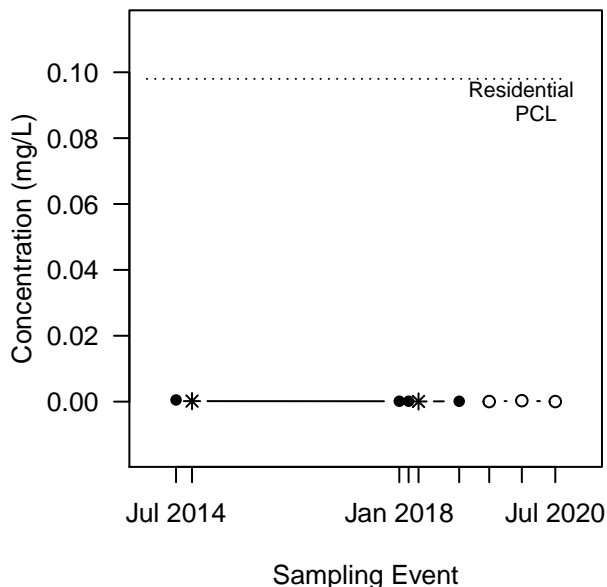
2,4-Dimethylphenol (Det/N = 3/9)
No Trend
(p-value=0.308 and CV=1.7)



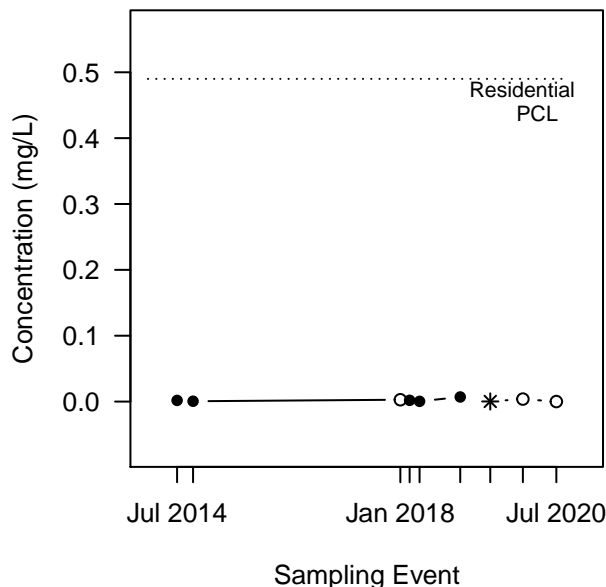
Benzene (Det/N = 2/8)
Stable
(p-value=0.162 and CV=0.097)



Dibenzofuran (Det/N = 6/9)
Decreasing
(p-value=0.000957 and CV=1)



Naphthalene (Det/N = 6/9)
No Trend
(p-value=0.101 and CV=1.1)

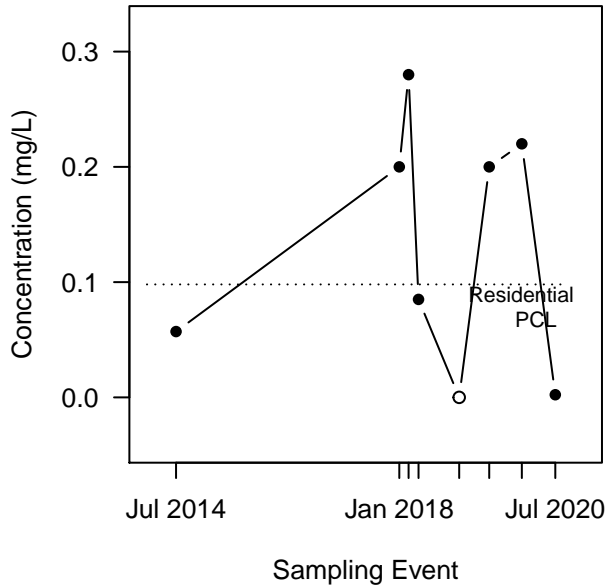


LEGEND:
 Concentration
 ● DET
 * DET, J-flagged
 ○ ND (DL plotted)

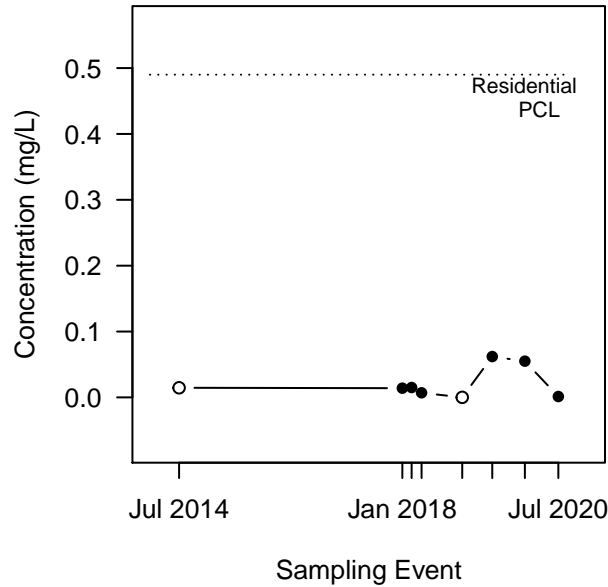
NOTE: A p-value < 0.05 indicates a statistically significant trend.
 A p-value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann-Kendall Trend Tests for MW-77A

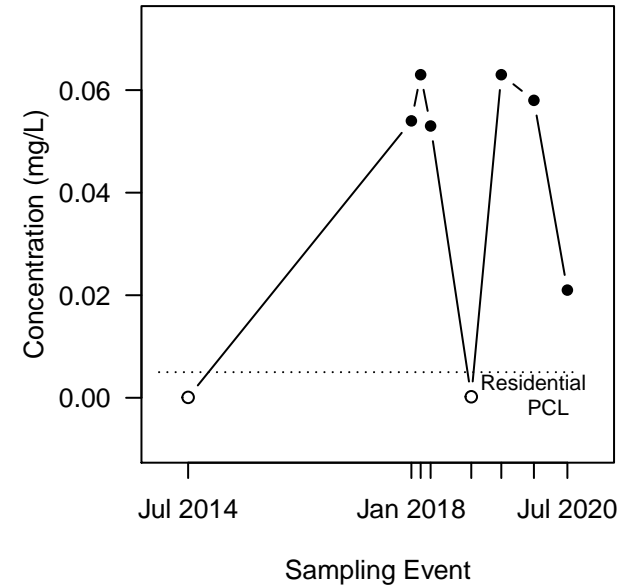
2-Methylnaphthalene (Det/N = 7/8)
No Trend
 (p-value=0.5 and CV=0.82)



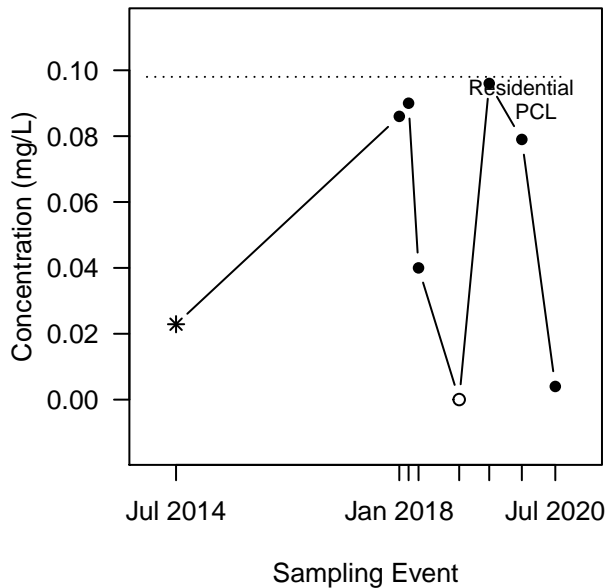
2,4-Dimethylphenol (Det/N = 6/8)
No Trend
 (p-value=0.309 and CV=1.1)



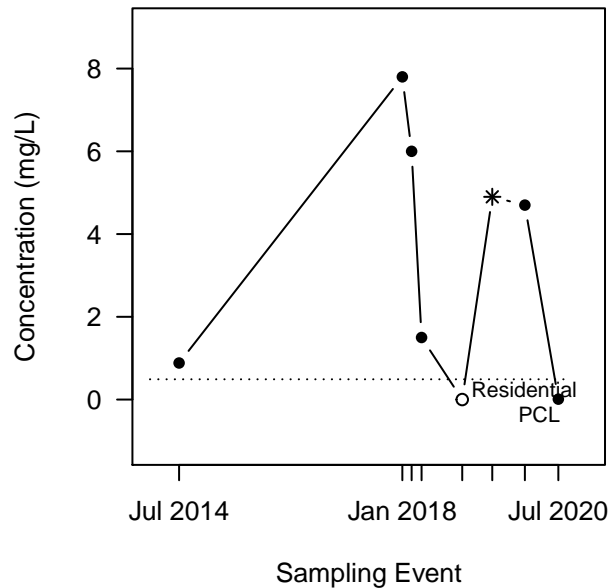
Benzene (Det/N = 6/8)
No Trend
 (p-value=0.45 and CV=0.7)



Dibenzofuran (Det/N = 7/8)
Stable
 (p-value=0.451 and CV=0.77)



Naphthalene (Det/N = 7/8)
Stable
 (p-value=0.193 and CV=0.93)

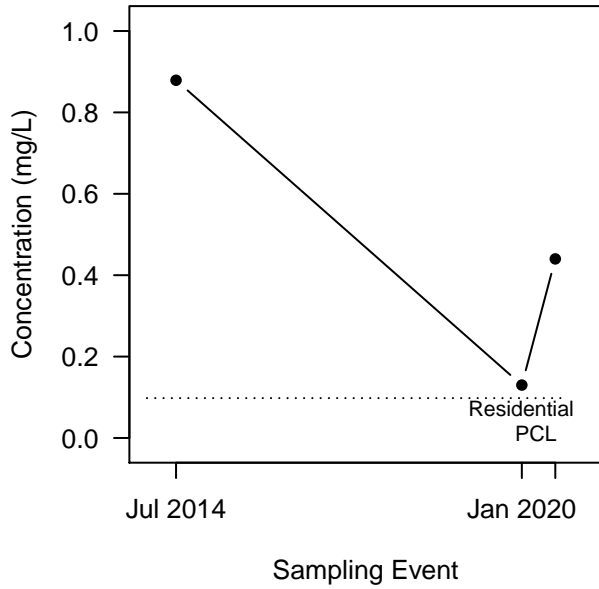


LEGEND:
 Concentration
 ● DET
 * DET, J-flagged
 ○ ND (DL plotted)

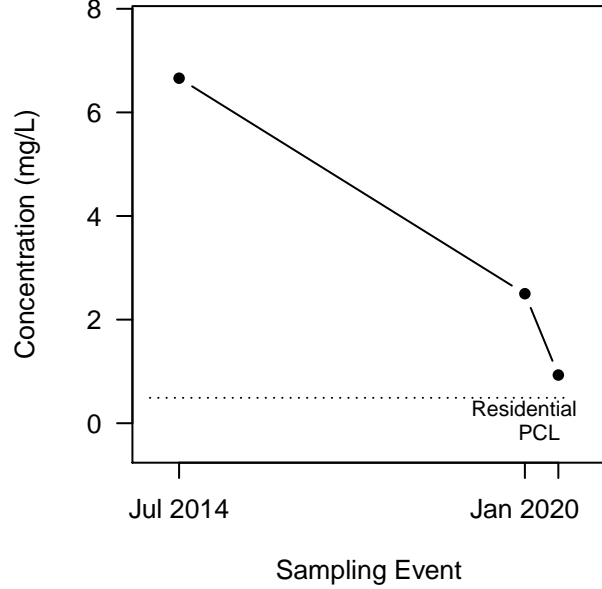
NOTE: A p-value<0.05 indicates a statistically significant trend.
 A p-value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann–Kendall Trend Tests for MW-78A

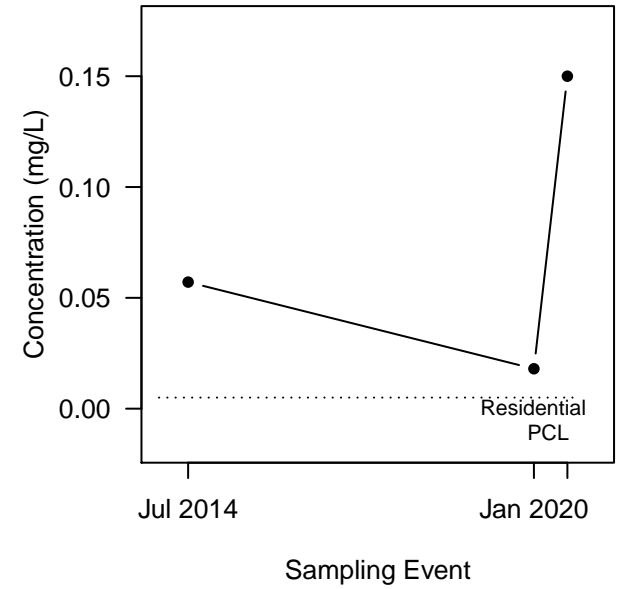
2-Methylnaphthalene (Det/N = 3/3)
No Trend
 (p-value=0.5 and CV=0.78)



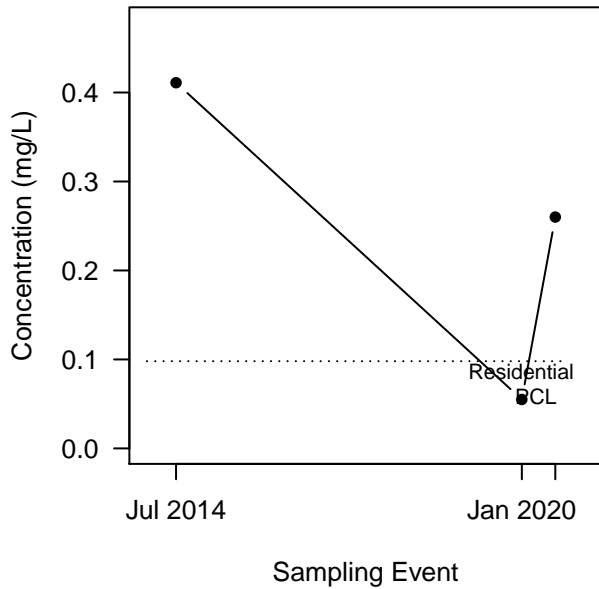
2,4-Dimethylphenol (Det/N = 3/3)
Stable
 (p-value=0.148 and CV=0.88)



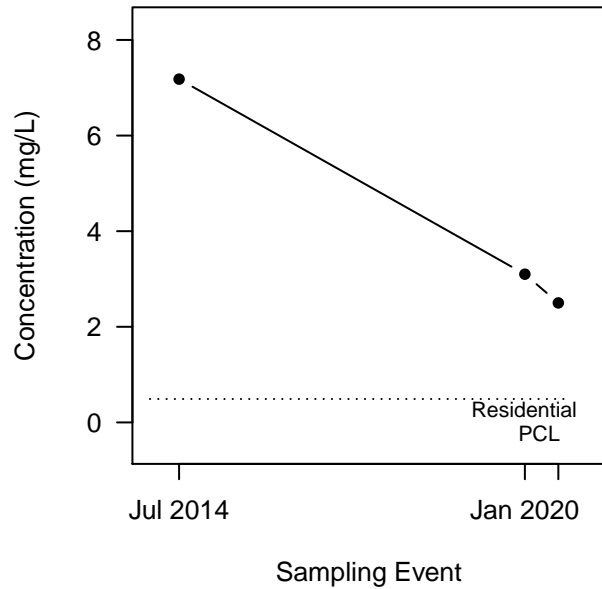
Benzene (Det/N = 3/3)
No Trend
 (p-value=0.5 and CV=0.9)



Dibenzofuran (Det/N = 3/3)
No Trend
 (p-value=0.5 and CV=0.74)



Naphthalene (Det/N = 3/3)
Stable
 (p-value=0.148 and CV=0.6)

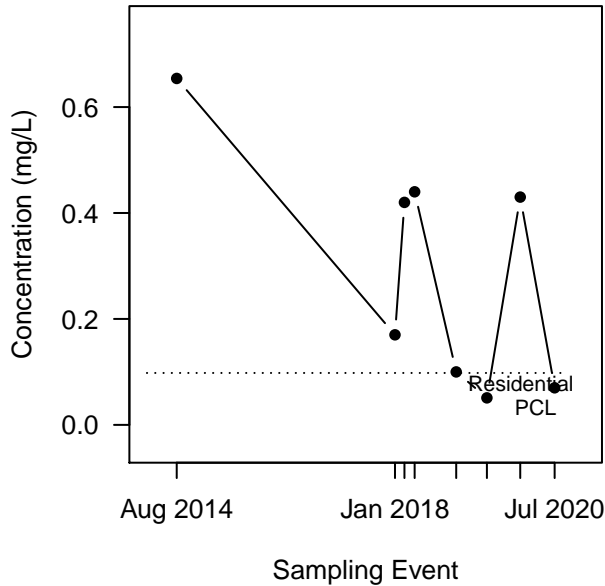


LEGEND:
 Concentration
 ● DET
 ○ ND (DL plotted)

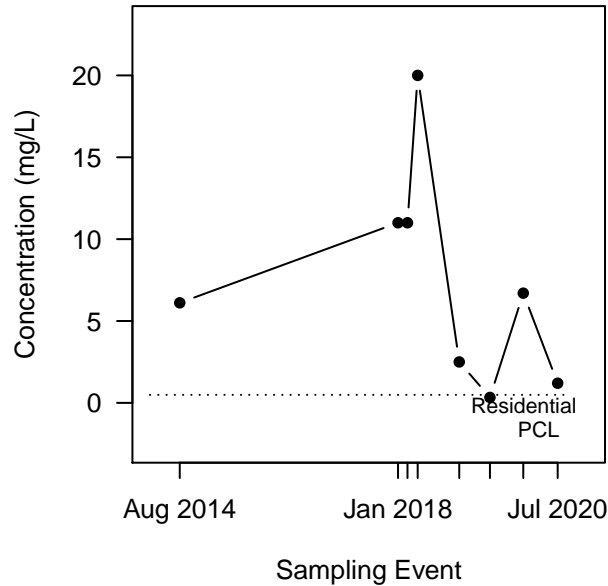
NOTE: A p-value<0.05 indicates a statistically significant trend.
 A p-value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann–Kendall Trend Tests for MW-79A

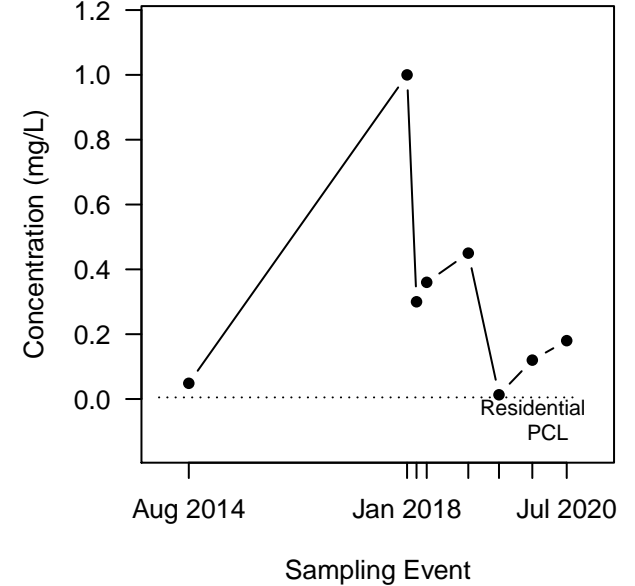
2-Methylnaphthalene (Det/N = 8/8)
Probably Decreasing
 (p-value=0.0868 and CV=0.76)



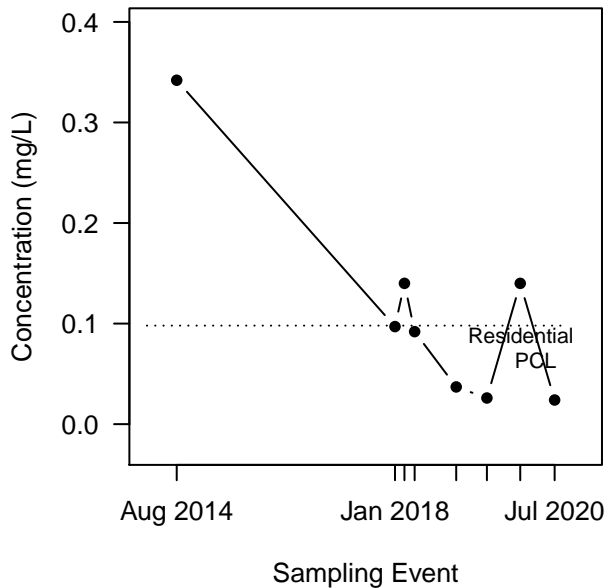
2,4-Dimethylphenol (Det/N = 8/8)
Stable
 (p-value=0.159 and CV=0.89)



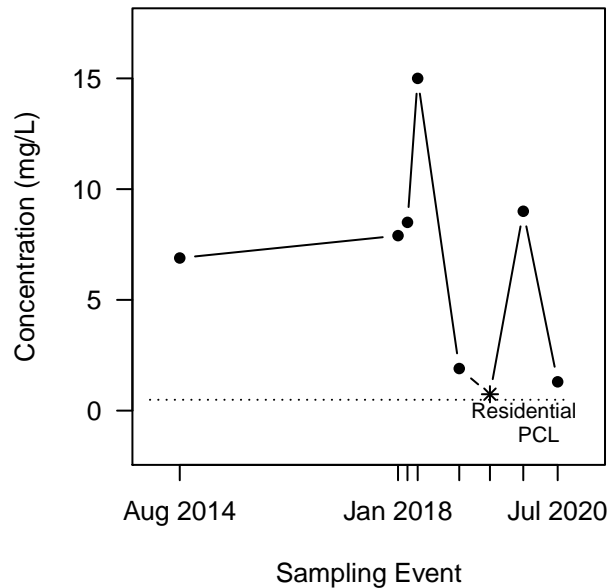
Benzene (Det/N = 8/8)
No Trend
 (p-value=0.355 and CV=1)



Dibenzofuran (Det/N = 8/8)
Decreasing
 (p-value=0.023 and CV=0.93)



Naphthalene (Det/N = 8/8)
Stable
 (p-value=0.355 and CV=0.76)

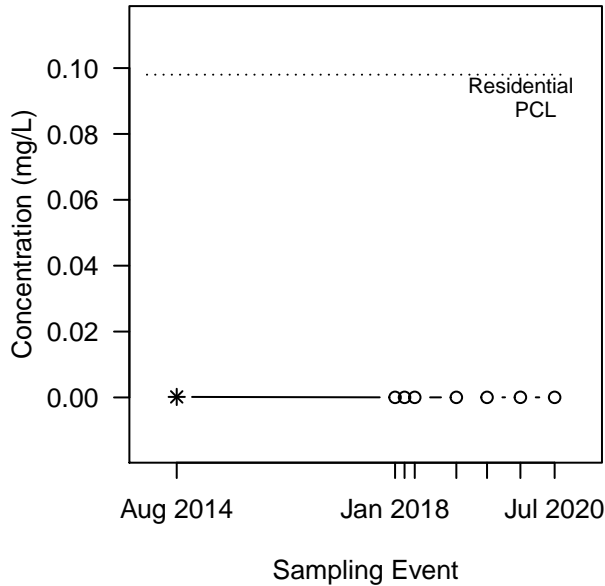


LEGEND:
 Concentration
 ● DET
 * DET, J-flagged
 ○ ND (DL plotted)

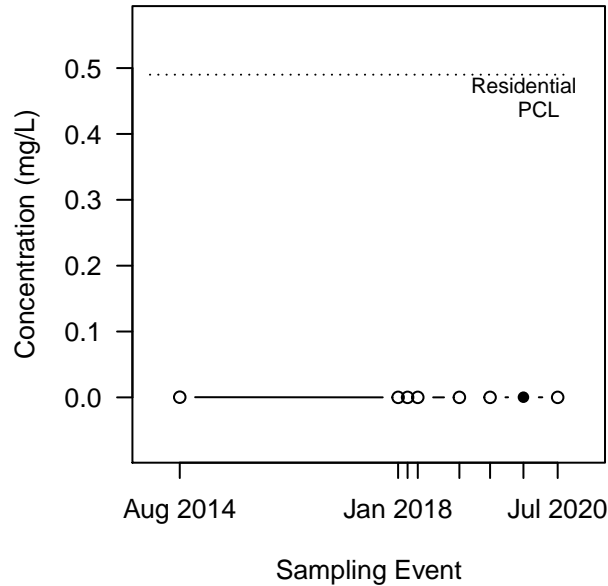
NOTE: A p-value<0.05 indicates a statistically significant trend.
 A p-value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann-Kendall Trend Tests for MW-80B

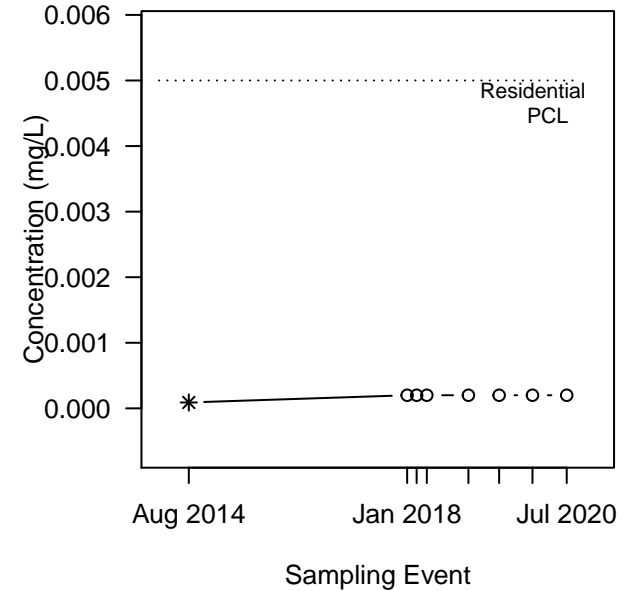
2-Methylnaphthalene (Det/N = 1/8)
Probably Decreasing
 (p-value=0.0952 and CV=1.3)



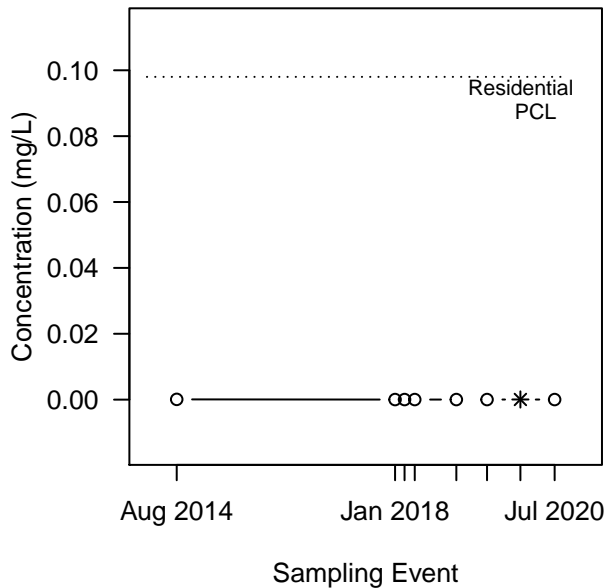
2,4-Dimethylphenol (Det/N = 1/8)
No Trend
 (p-value=0.191 and CV=1.1)



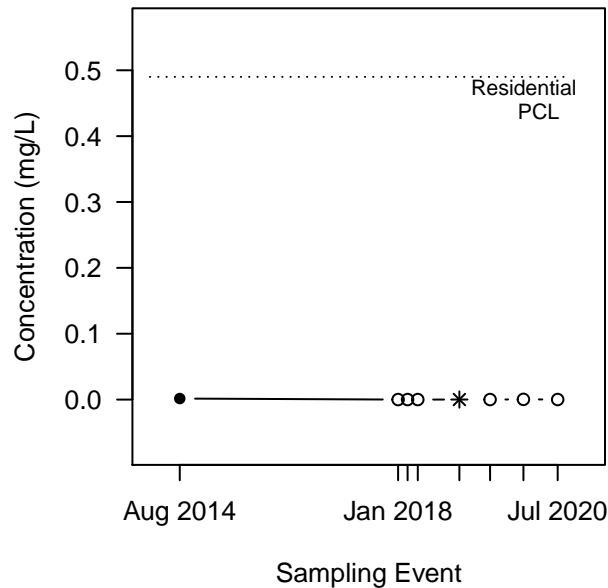
Benzene (Det/N = 1/8)
Probably Decreasing
 (p-value=0.0952 and CV=0.21)



Dibenzofuran (Det/N = 1/8)
No Trend
 (p-value=0.191 and CV=0.71)



Naphthalene (Det/N = 2/8)
No Trend
 (p-value=0.162 and CV=2)

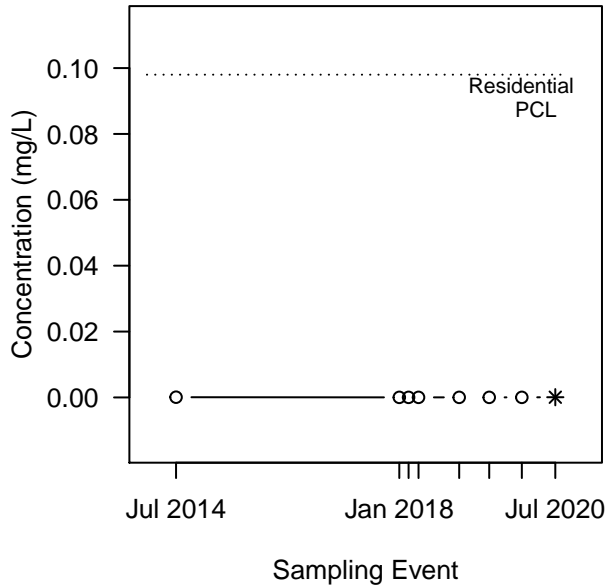


LEGEND:
 Concentration
 • DET
 * DET, J-flagged
 ○ ND (DL plotted)

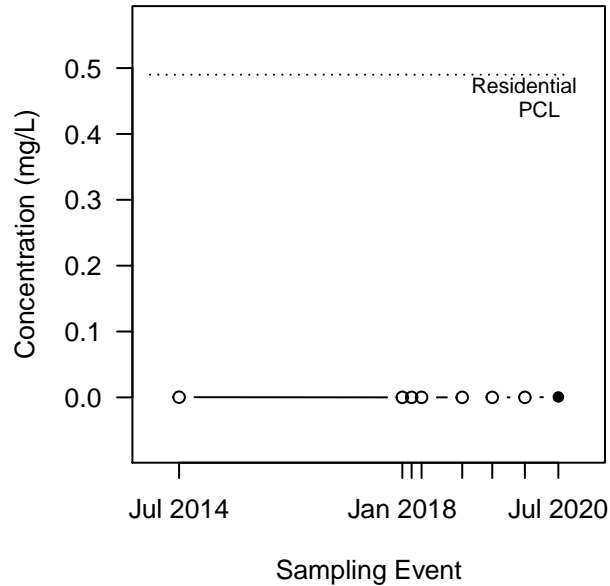
NOTE: A p-value<0.05 indicates a statistically significant trend.
 A p-value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann-Kendall Trend Tests for MW-81B

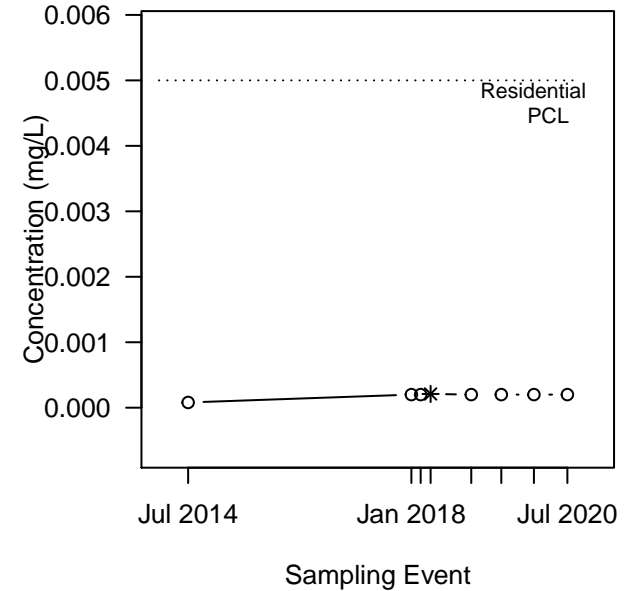
2-Methylnaphthalene (Det/N = 1/8)
Probably Increasing
(p-value=0.0952 and CV=0.71)



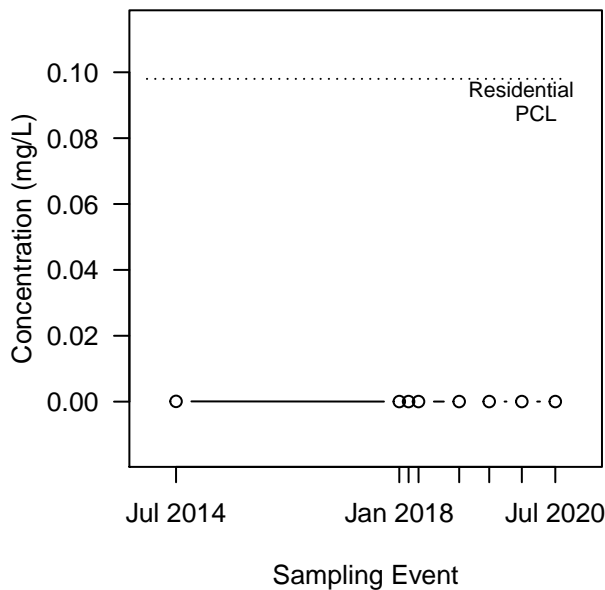
2,4-Dimethylphenol (Det/N = 1/8)
Probably Increasing
(p-value=0.0952 and CV=1.5)



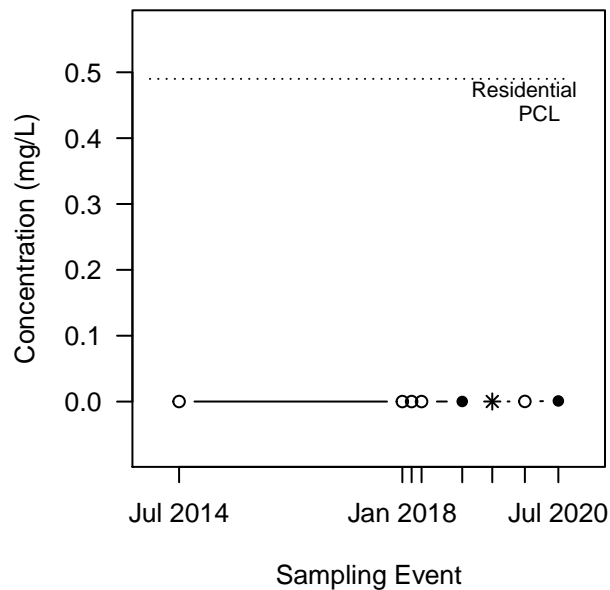
Benzene (Det/N = 1/8)
No Trend
(p-value=0.5 and CV=0.23)



Dibenzofuran (Det/N = 0/8)
Not evaluated – All NDs



Naphthalene (Det/N = 3/8)
Probably Increasing
(p-value=0.0574 and CV=1.6)

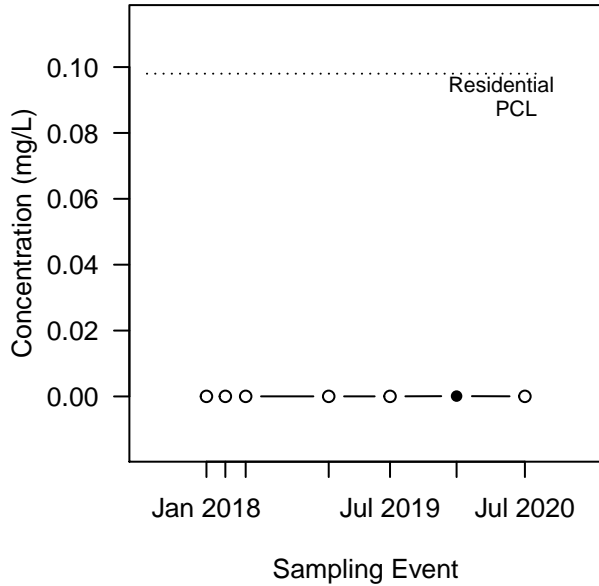


LEGEND:
 Concentration
 ● DET
 * DET, J-flagged
 ○ ND (DL plotted)

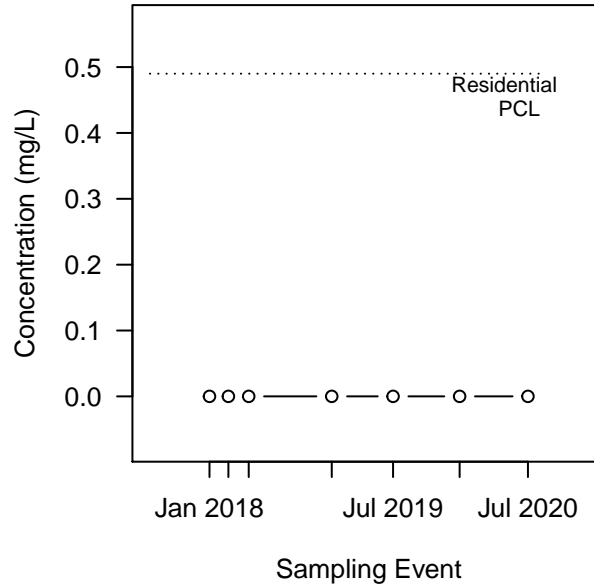
NOTE: A p-value<0.05 indicates a statistically significant trend.
 A p-value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann–Kendall Trend Tests for MW–82B

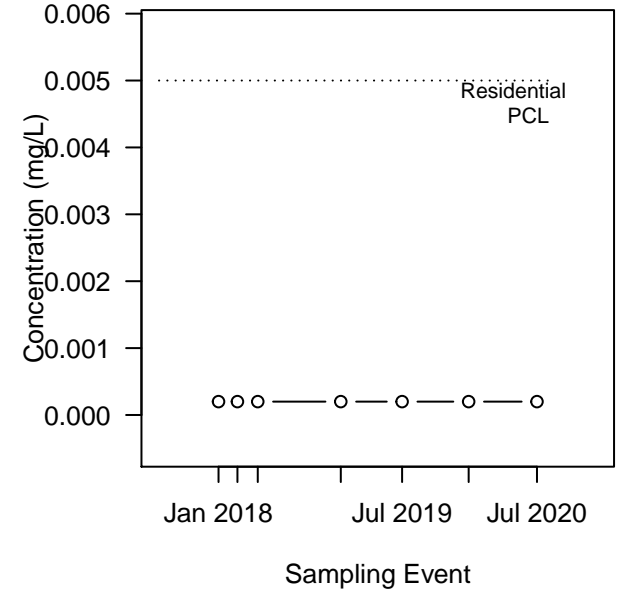
2–Methylnaphthalene (Det/N = 1/7)
No Trend
(p–value=0.227 and CV=1)



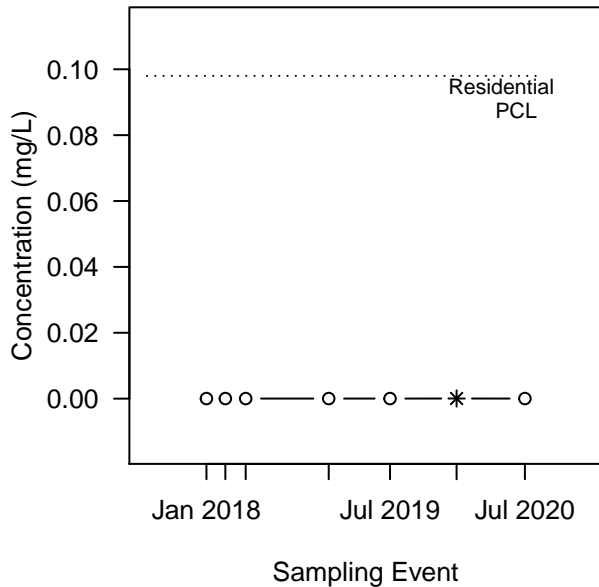
2,4–Dimethylphenol (Det/N = 0/7)
Not evaluated (all concentrations are identical)



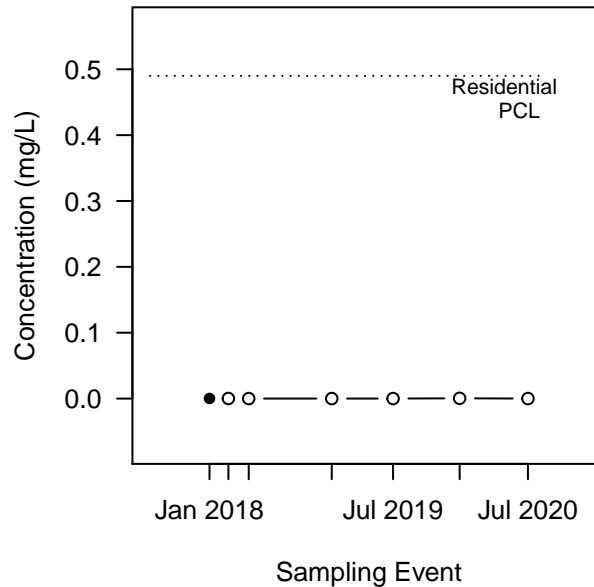
Benzene (Det/N = 0/7)
Not evaluated (all concentrations are identical)



Dibenzofuran (Det/N = 1/7)
No Trend
(p–value=0.227 and CV=0.33)



Naphthalene (Det/N = 1/7)
No Trend
(p–value=0.106 and CV=1.2)

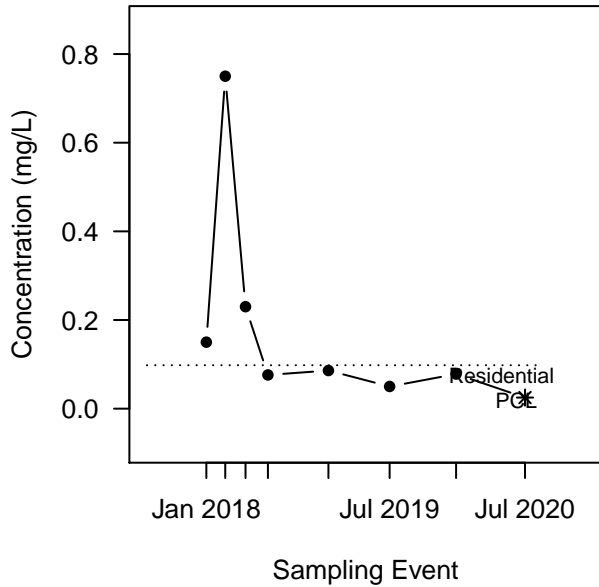


LEGEND:
 Concentration
 ● DET
 * DET, J–flagged
 ○ ND (DL plotted)

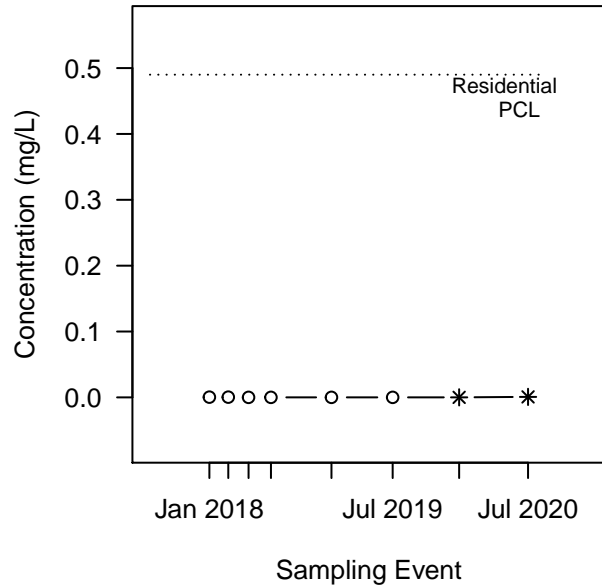
NOTE: A p–value<0.05 indicates a statistically significant trend.
 A p–value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann-Kendall Trend Tests for MW-83B

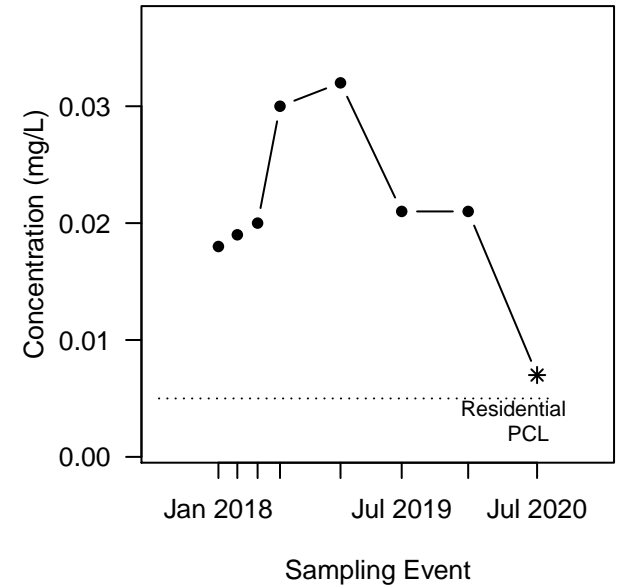
2-Methylnaphthalene (Det/N = 8/8)
Decreasing
 (p-value=0.0177 and CV=1.3)



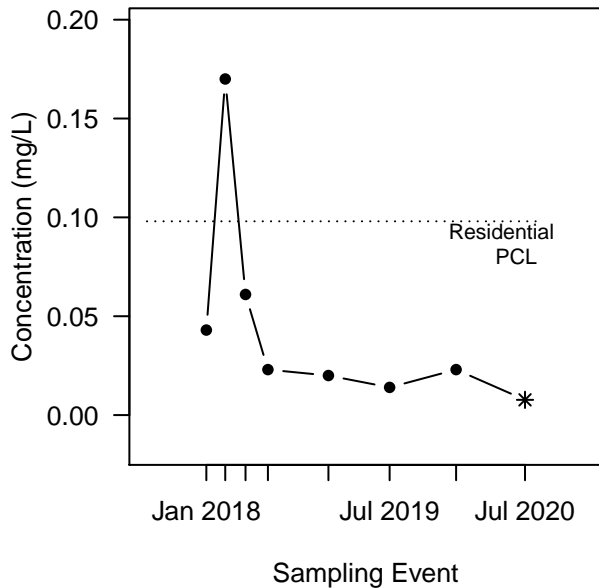
2,4-Dimethylphenol (Det/N = 2/8)
Increasing
 (p-value=0.0243 and CV=1.2)



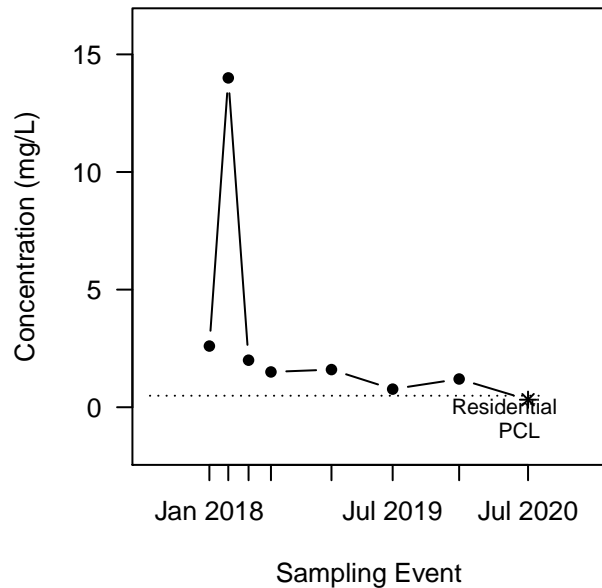
Benzene (Det/N = 8/8)
No Trend
 (p-value=0.309 and CV=0.37)



Dibenzofuran (Det/N = 8/8)
Decreasing
 (p-value=0.0124 and CV=1.2)



Naphthalene (Det/N = 8/8)
Decreasing
 (p-value=0.00469 and CV=1.5)

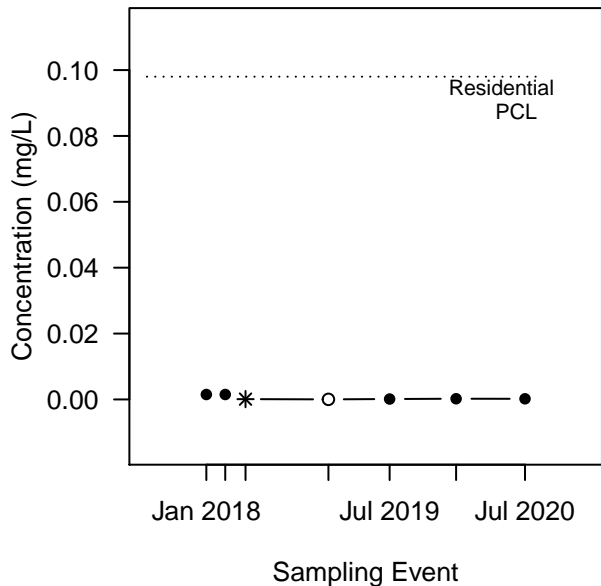


LEGEND:
 Concentration
 ● DET
 * DET, J-flagged
 ○ ND (DL plotted)

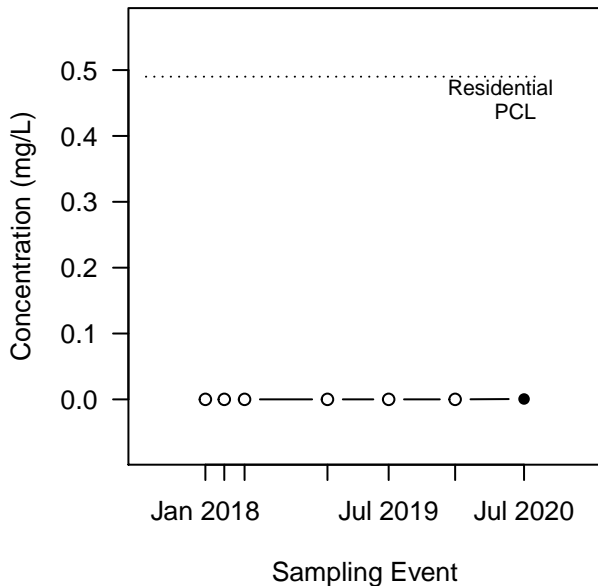
NOTE: A p-value<0.05 indicates a statistically significant trend.
 A p-value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann-Kendall Trend Tests for MW-83C

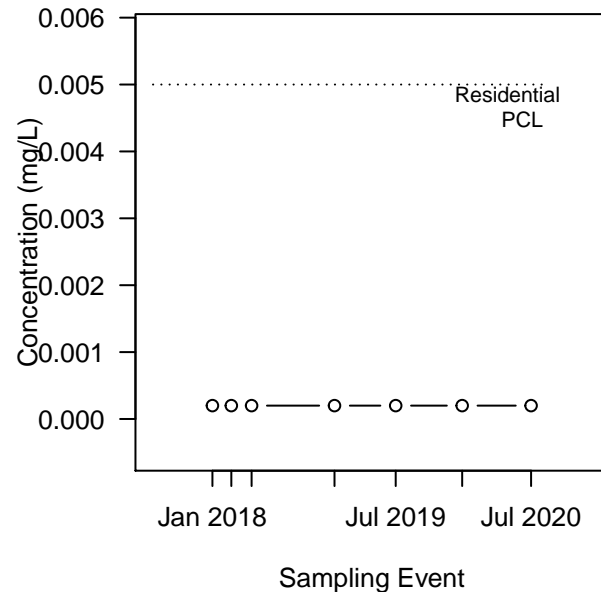
2-Methylnaphthalene (Det/N = 6/7)
No Trend
(p-value=0.324 and CV=1.3)



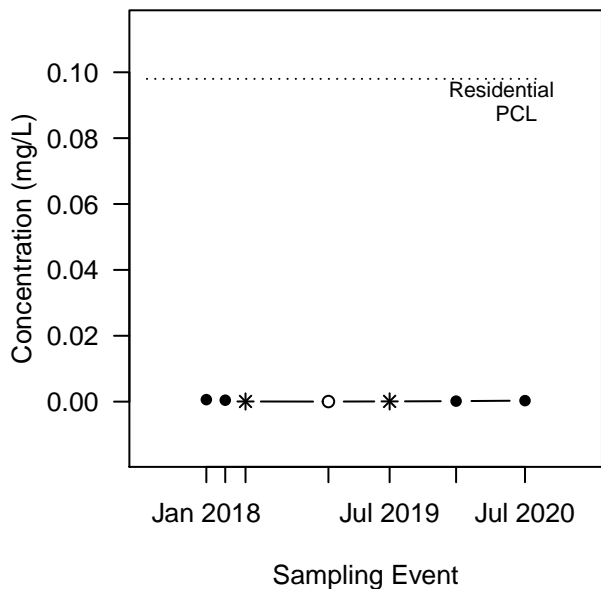
2,4-Dimethylphenol (Det/N = 1/7)
No Trend
(p-value=0.106 and CV=1.8)



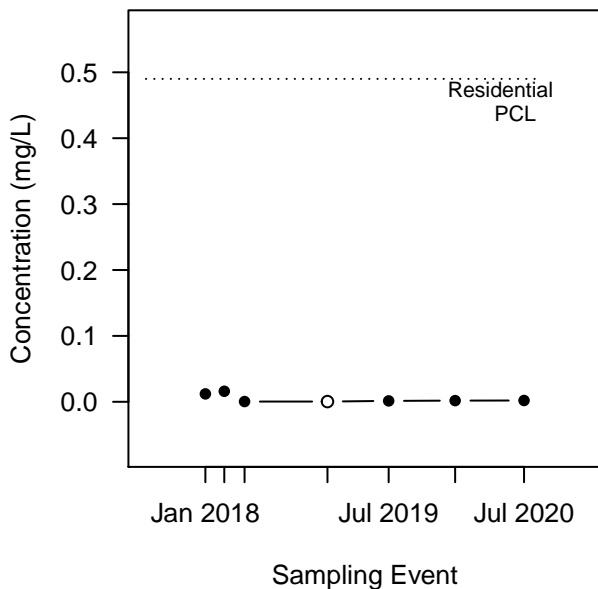
Benzene (Det/N = 0/7)
Not evaluated (all concentrations are identical)



Dibenzofuran (Det/N = 6/7)
Stable
(p-value=0.382 and CV=0.96)



Naphthalene (Det/N = 6/7)
No Trend
(p-value=0.5 and CV=1.3)

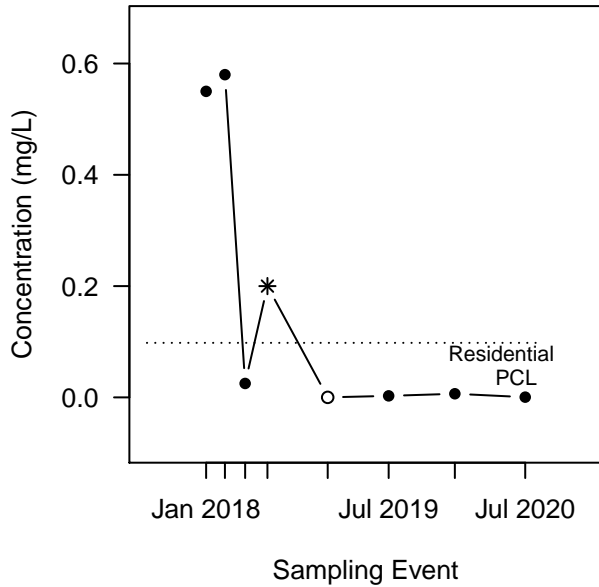


LEGEND:
 Concentration
 ● DET
 * DET, J-flagged
 ○ ND (DL plotted)

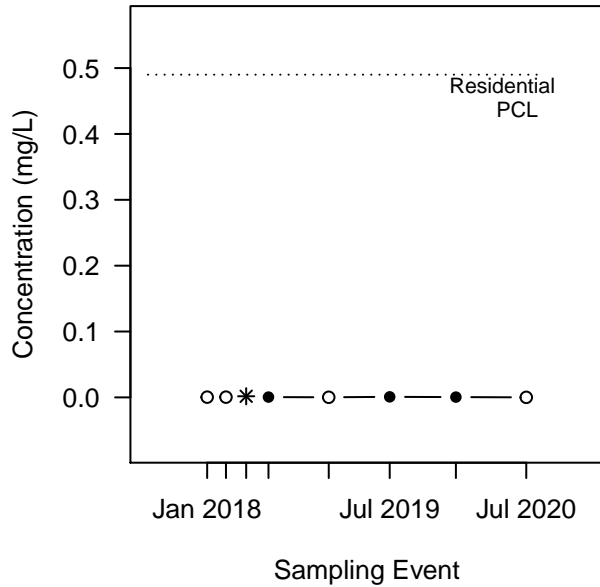
NOTE: A p-value < 0.05 indicates a statistically significant trend.
 A p-value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann–Kendall Trend Tests for MW–84B

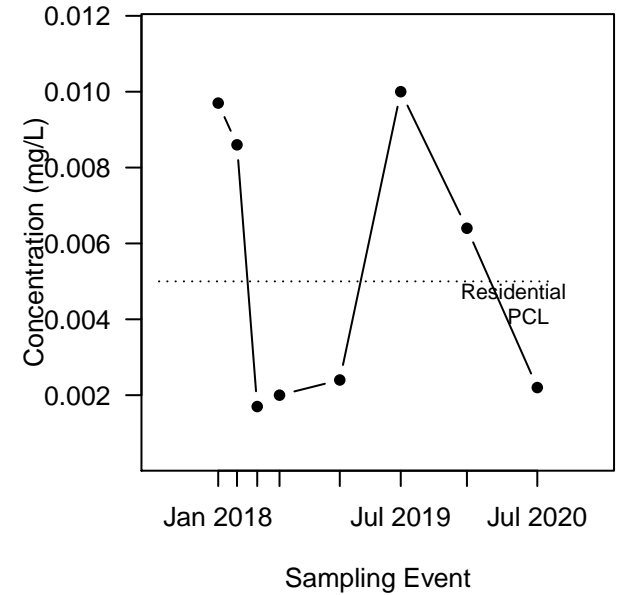
2–Methylnaphthalene (Det/N = 7/8)
Decreasing
 (p–value=0.0317 and CV=1.5)



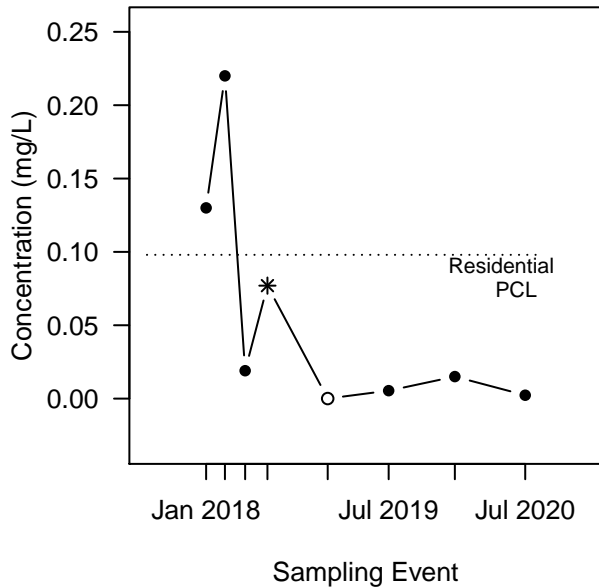
2,4–Dimethylphenol (Det/N = 4/8)
No Trend
 (p–value=0.5 and CV=0.92)



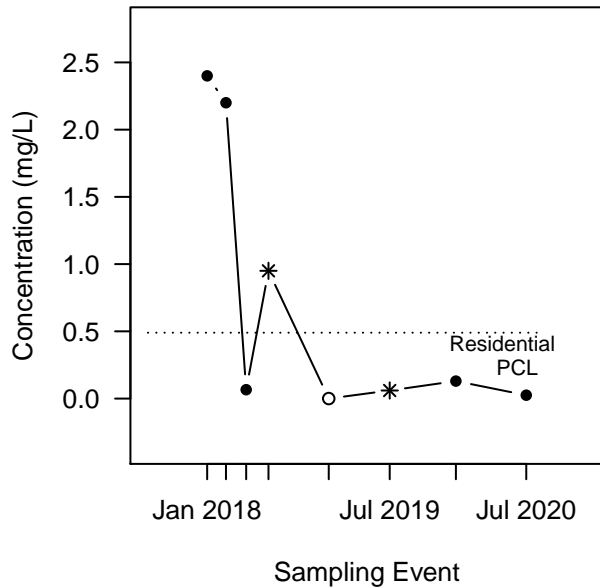
Benzene (Det/N = 8/8)
Stable
 (p–value=0.451 and CV=0.69)



Dibenzofuran (Det/N = 7/8)
Decreasing
 (p–value=0.0317 and CV=1.4)



Naphthalene (Det/N = 7/8)
Decreasing
 (p–value=0.0317 and CV=1.4)

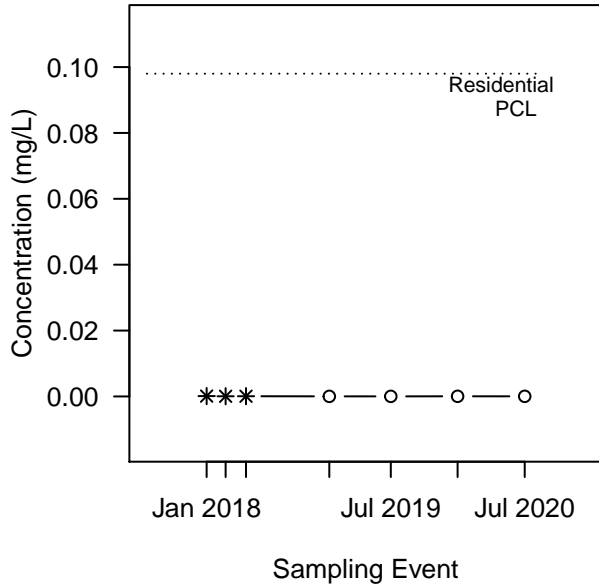


LEGEND:
 Concentration
 ● DET
 * DET, J–flagged
 ○ ND (DL plotted)

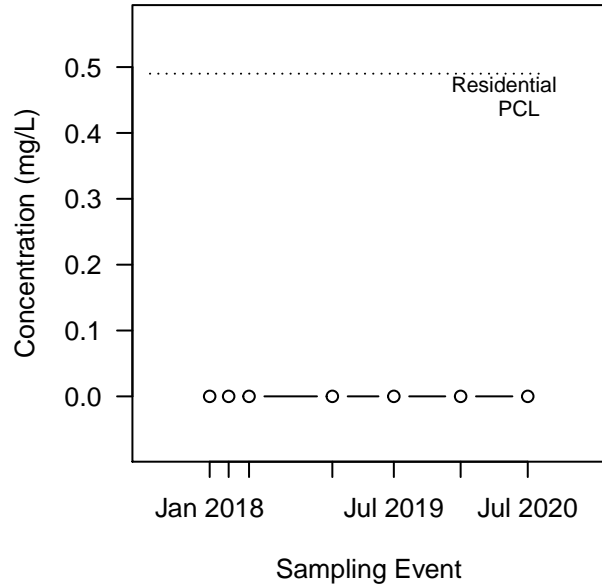
NOTE: A p–value<0.05 indicates a statistically significant trend.
 A p–value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann-Kendall Trend Tests for MW-85C

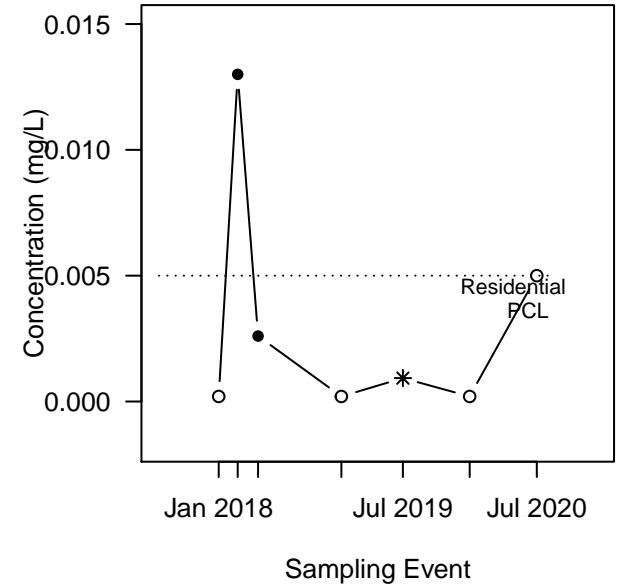
2-Methylnaphthalene (Det/N = 3/7)
Decreasing
(p-value=0.0223 and CV=0.62)



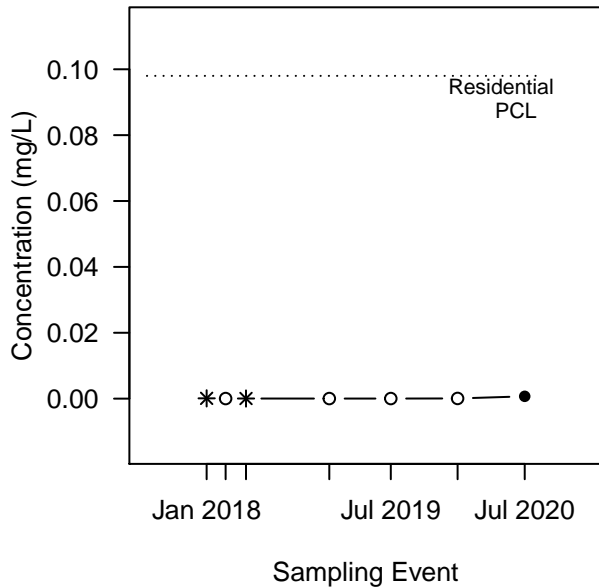
2,4-Dimethylphenol (Det/N = 0/7)
Not evaluated - All NDs



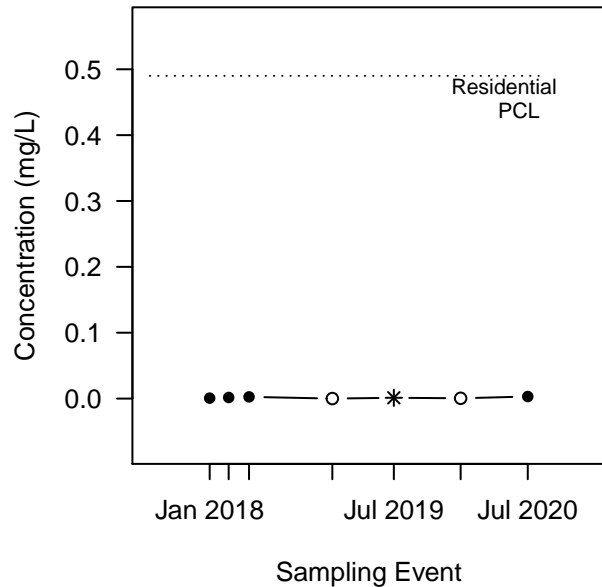
Benzene (Det/N = 3/7)
No Trend
(p-value=0.158 and CV=1.5)



Dibenzofuran (Det/N = 3/7)
No Trend
(p-value=0.5 and CV=1.9)



Naphthalene (Det/N = 5/7)
No Trend
(p-value=0.44 and CV=0.81)

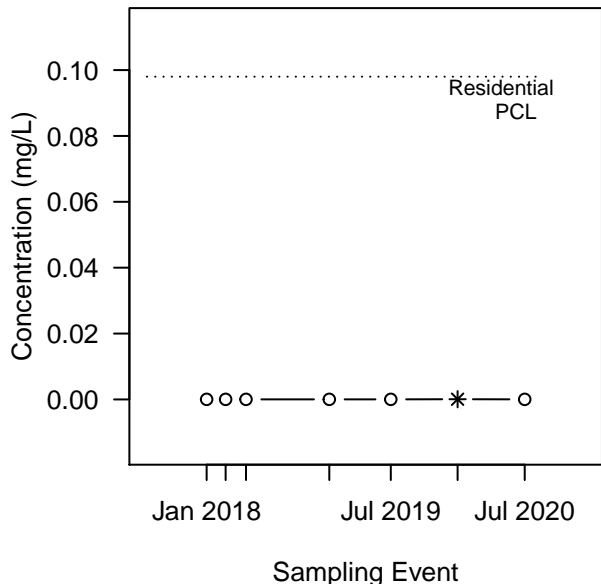


LEGEND:
 Concentration
 ● DET
 * DET, J-flagged
 ○ ND (DL plotted)

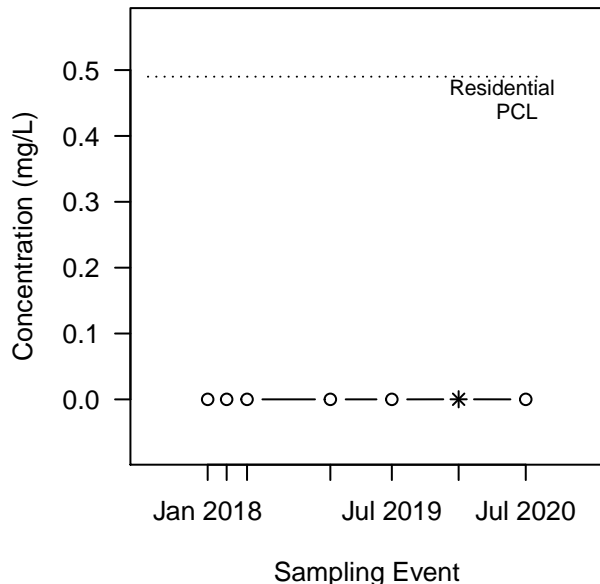
NOTE: A p-value < 0.05 indicates a statistically significant trend.
 A p-value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann-Kendall Trend Tests for MW-86C

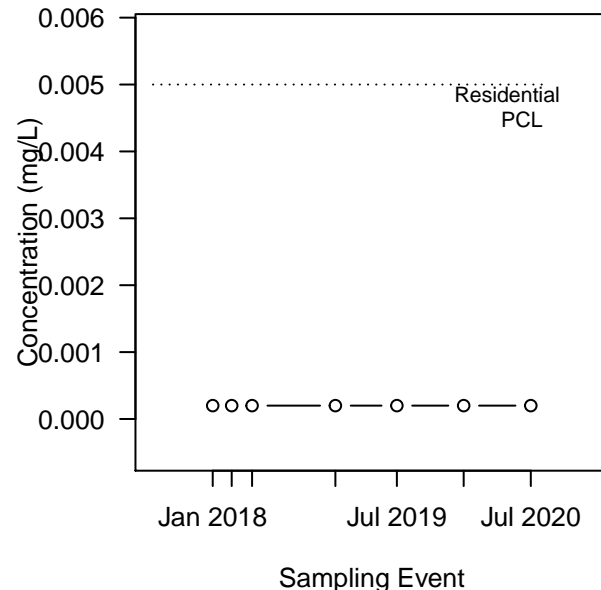
2-Methylnaphthalene (Det/N = 1/7)
No Trend
(p-value=0.227 and CV=0.69)



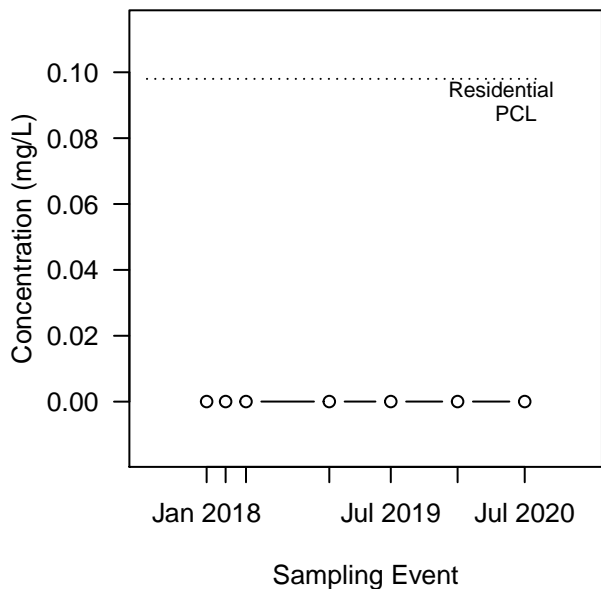
2,4-Dimethylphenol (Det/N = 1/7)
No Trend
(p-value=0.227 and CV=0.88)



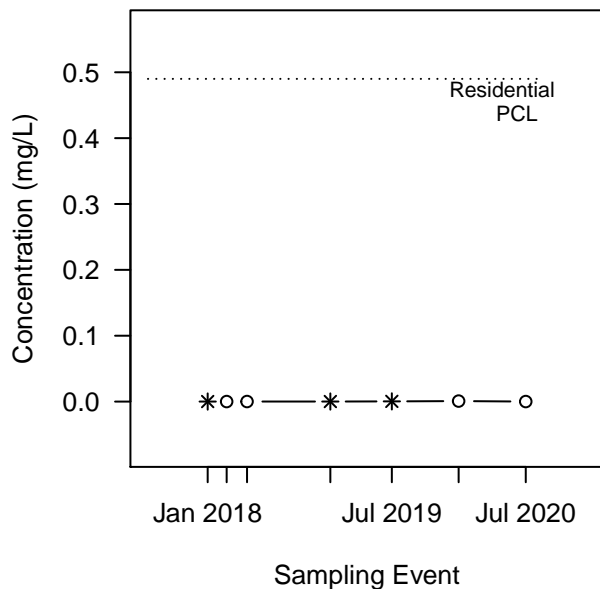
Benzene (Det/N = 0/7)
Not evaluated (all concentrations are identical)



Dibenzofuran (Det/N = 0/7)
Not evaluated (all concentrations are identical)



Naphthalene (Det/N = 3/7)
No Trend
(p-value=0.5 and CV=1.4)

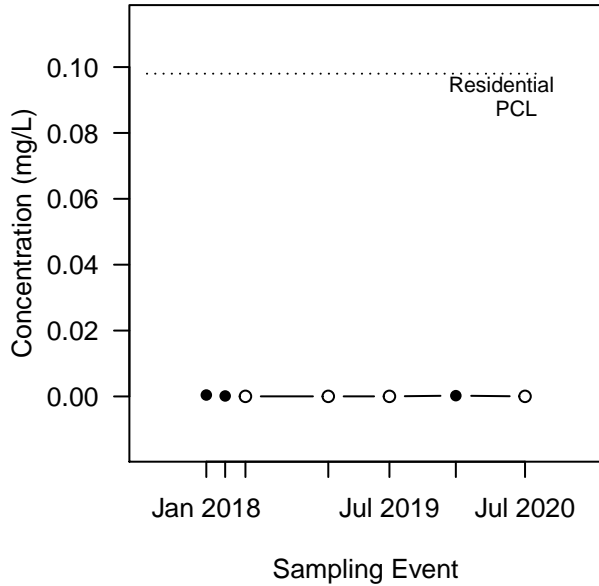


LEGEND:
 Concentration
 ● DET
 * DET, J-flagged
 ○ ND (DL plotted)

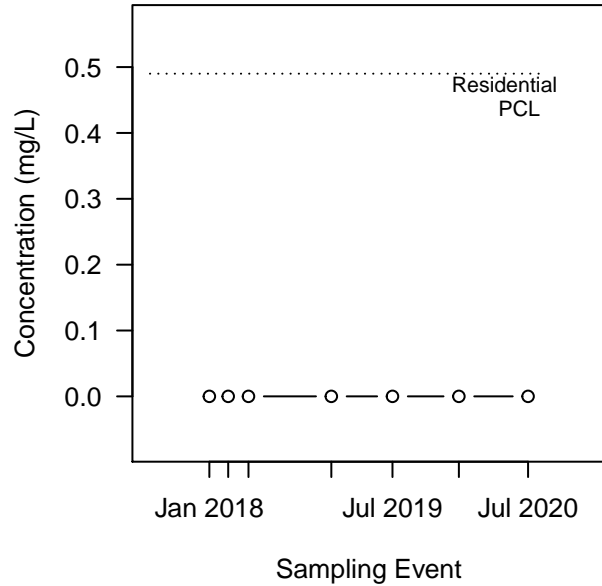
NOTE: A p-value<0.05 indicates a statistically significant trend.
 A p-value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann-Kendall Trend Tests for MW-87C

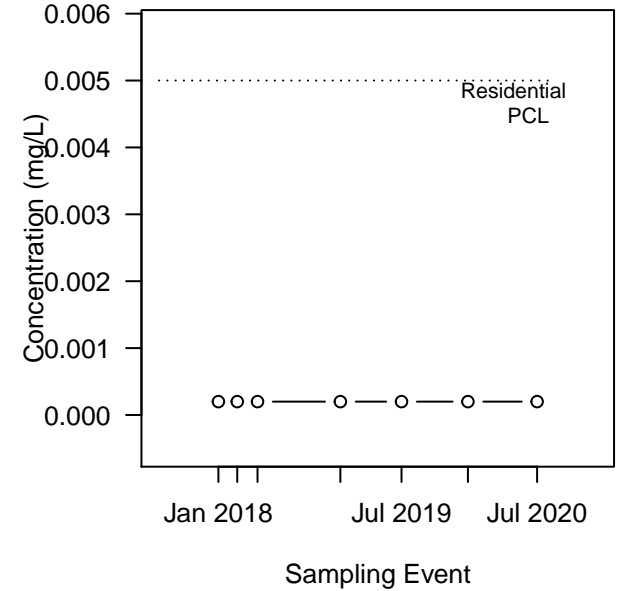
2-Methylnaphthalene (Det/N = 3/7)
No Trend
(p-value=0.158 and CV=1.3)



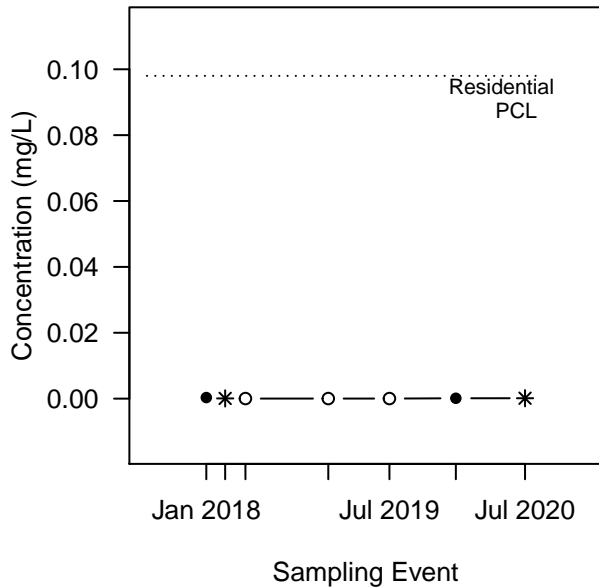
2,4-Dimethylphenol (Det/N = 0/7)
Not evaluated (all concentrations are identical)



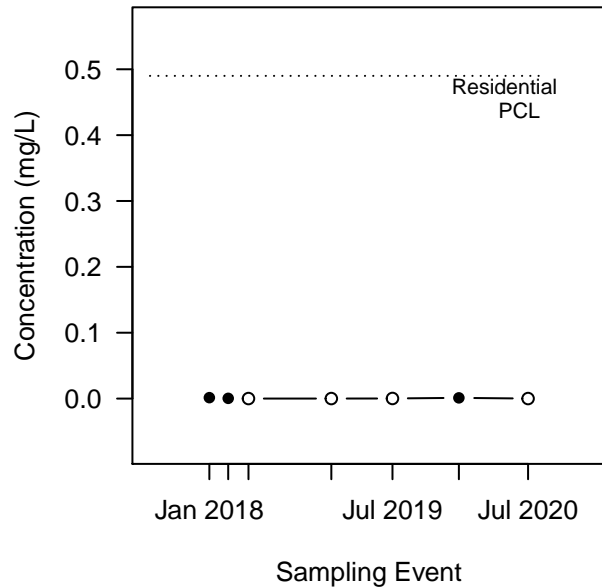
Benzene (Det/N = 0/7)
Not evaluated (all concentrations are identical)



Dibenzofuran (Det/N = 4/7)
No Trend
(p-value=0.5 and CV=1.1)



Naphthalene (Det/N = 3/7)
No Trend
(p-value=0.158 and CV=1.3)

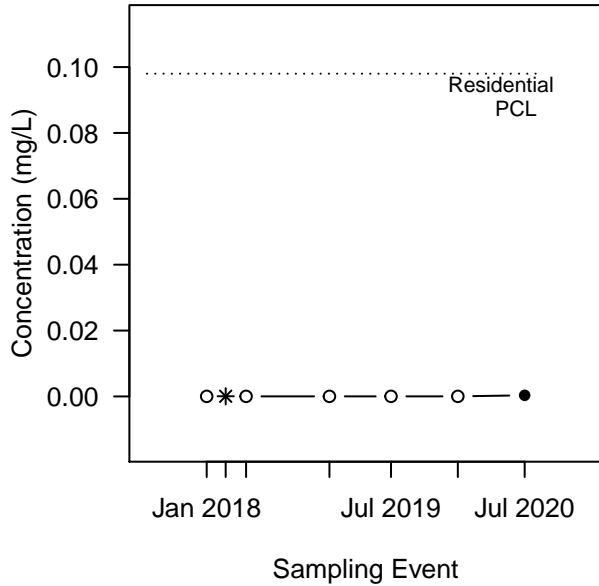


LEGEND:
 Concentration
 ● DET
 * DET, J-flagged
 ○ ND (DL plotted)

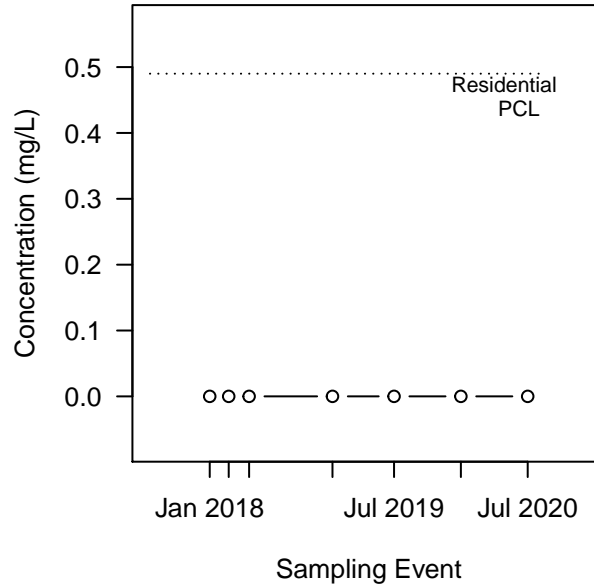
NOTE: A p-value < 0.05 indicates a statistically significant trend.
 A p-value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann-Kendall Trend Tests for MW-88C

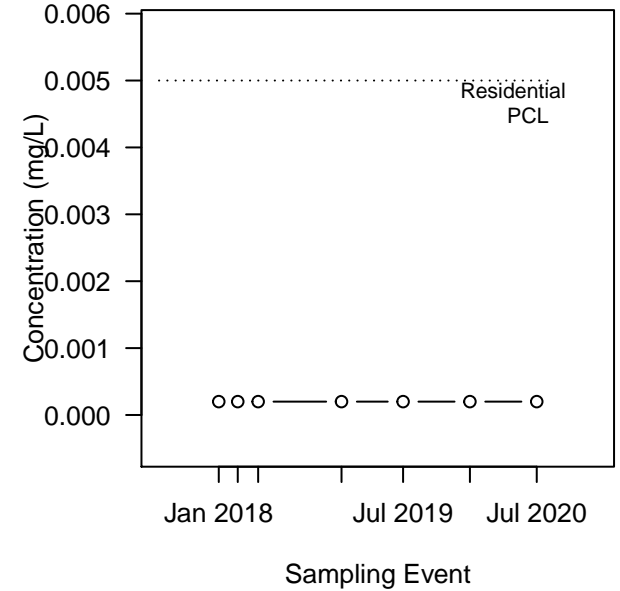
2-Methylnaphthalene (Det/N = 2/7)
No Trend
(p-value=0.352 and CV=1.7)



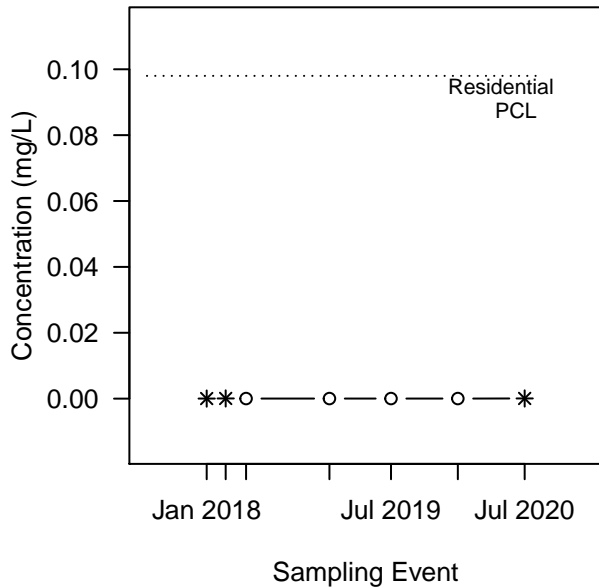
2,4-Dimethylphenol (Det/N = 0/7)
Not evaluated (all concentrations are identical)



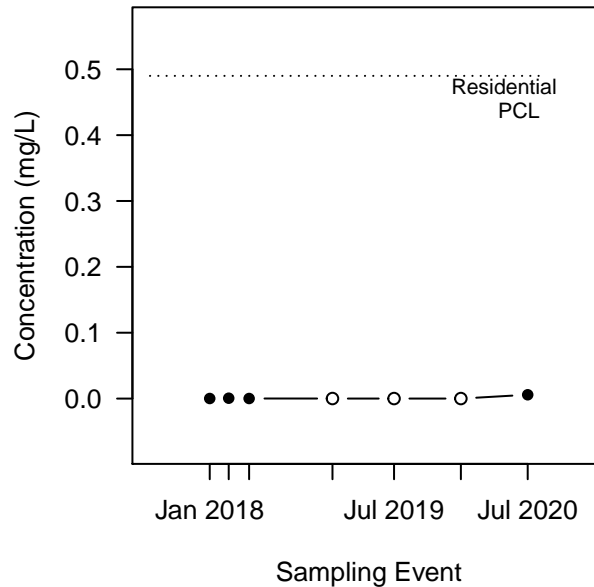
Benzene (Det/N = 0/7)
Not evaluated (all concentrations are identical)



Dibenzofuran (Det/N = 3/7)
Stable
(p-value=0.369 and CV=0.54)



Naphthalene (Det/N = 4/7)
No Trend
(p-value=0.375 and CV=2.3)

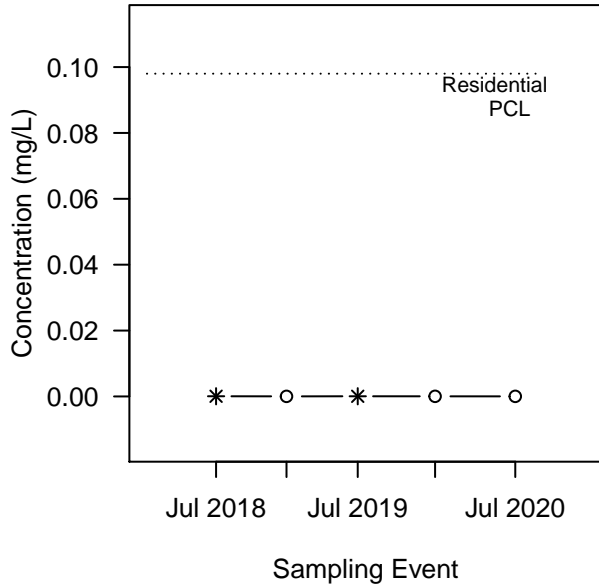


LEGEND:
 Concentration
 ● DET
 * DET, J-flagged
 ○ ND (DL plotted)

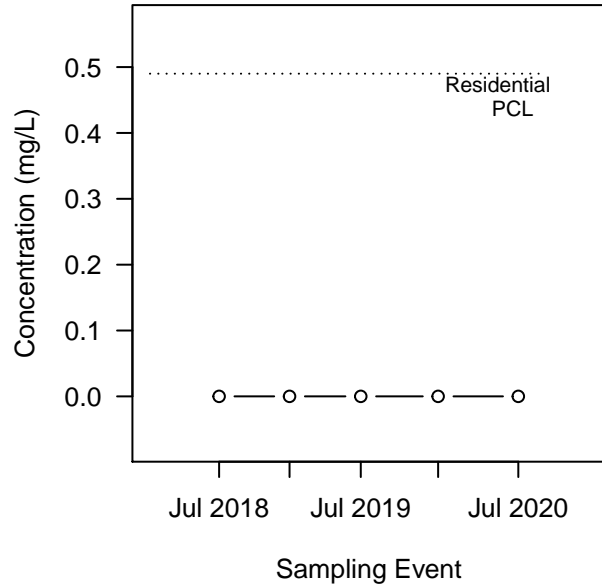
NOTE: A p-value < 0.05 indicates a statistically significant trend.
 A p-value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann–Kendall Trend Tests for MW–89B

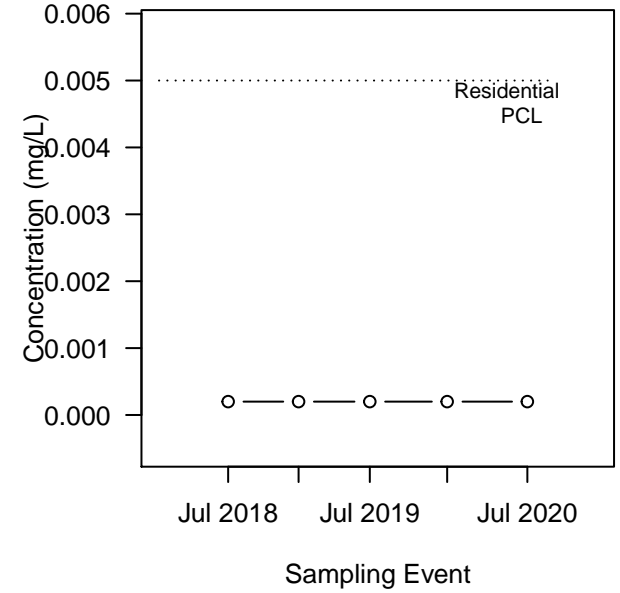
2–Methylnaphthalene (Det/N = 2/5)
Stable
(p–value=0.134 and CV=0.48)



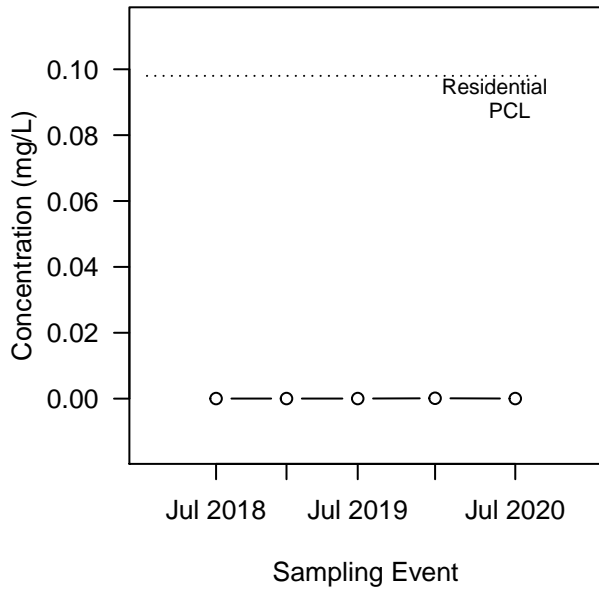
2,4–Dimethylphenol (Det/N = 0/5)
Not evaluated (all concentrations are identical)



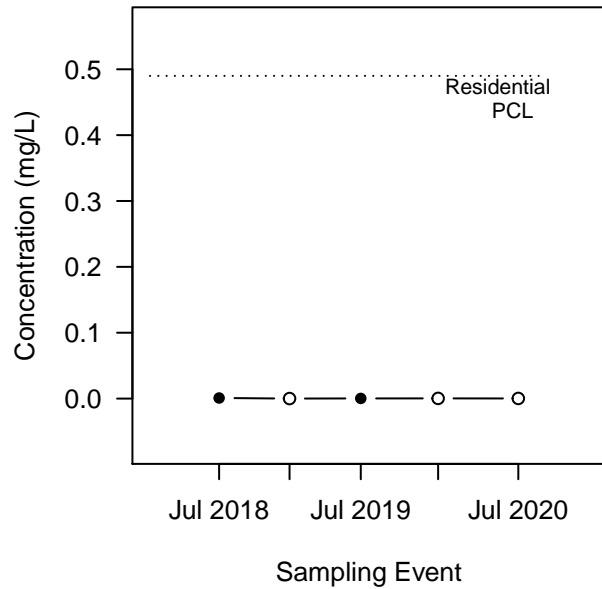
Benzene (Det/N = 0/5)
Not evaluated (all concentrations are identical)



Dibenzofuran (Det/N = 0/5)
Not evaluated – All NDs



Naphthalene (Det/N = 2/5)
No Trend
(p–value=0.134 and CV=1)

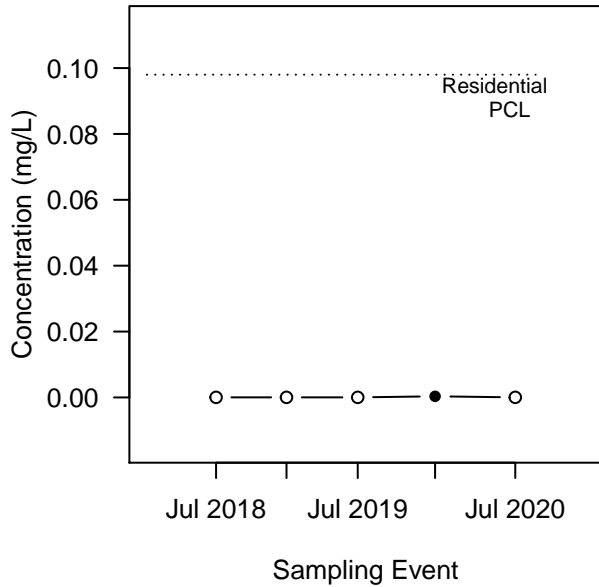


LEGEND:
 Concentration
 ● DET
 * DET, J-flagged
 ○ ND (DL plotted)

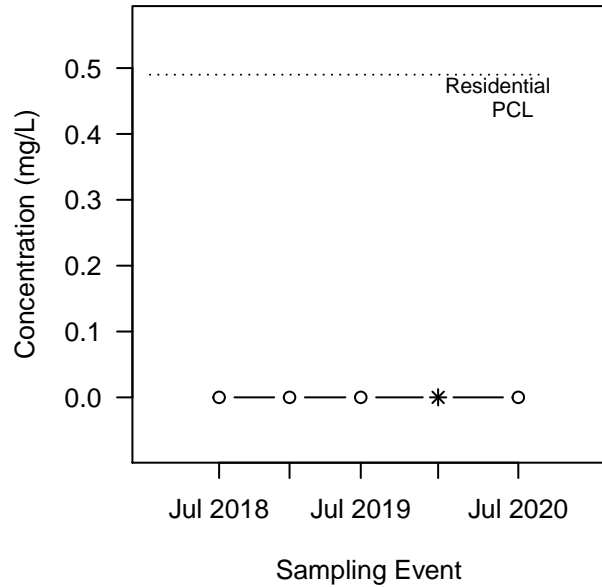
NOTE: A p–value<0.05 indicates a statistically significant trend.
 A p–value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann–Kendall Trend Tests for MW–90B

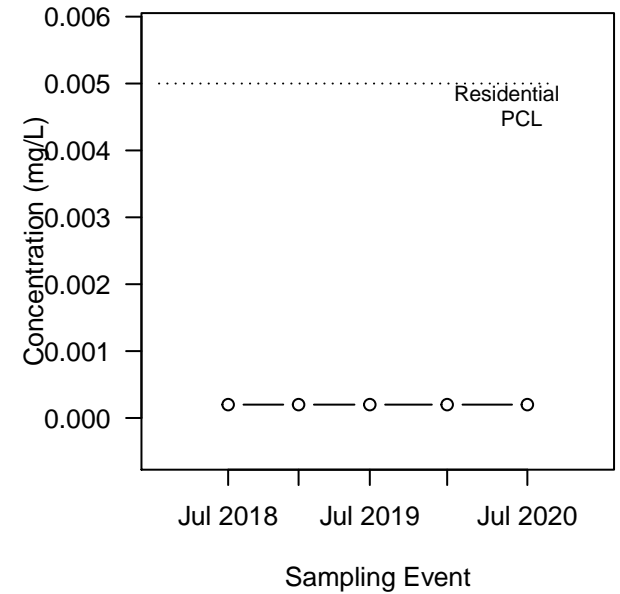
2–Methylnaphthalene (Det/N = 1/5)
No Trend
(p–value=0.362 and CV=1.7)



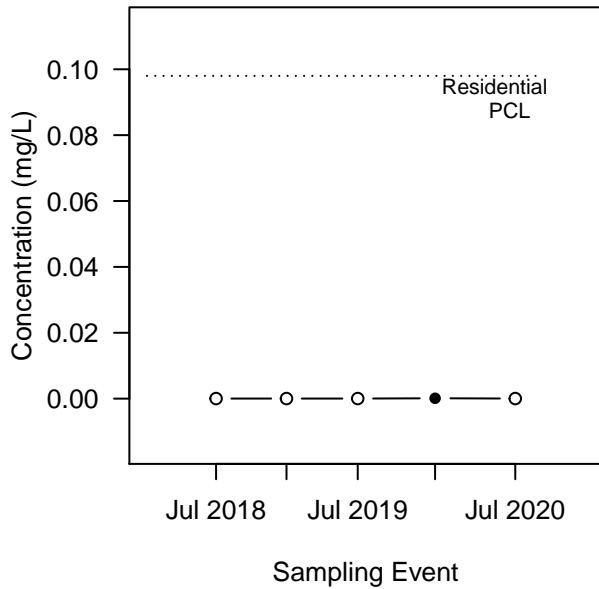
2,4–Dimethylphenol (Det/N = 1/5)
No Trend
(p–value=0.362 and CV=0.33)



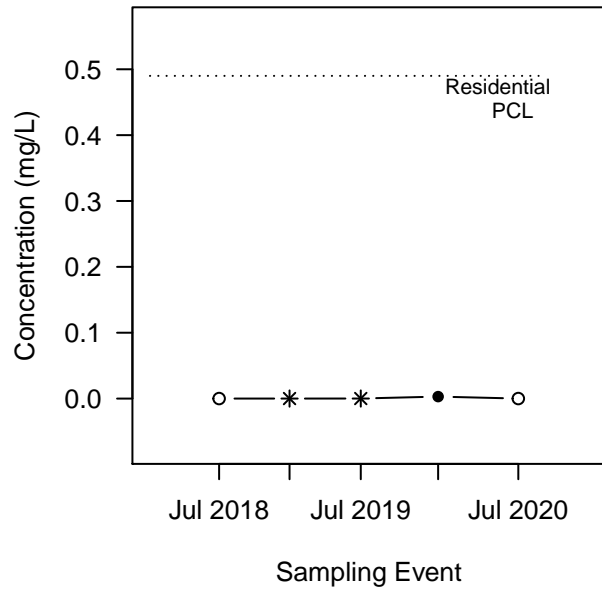
Benzene (Det/N = 0/5)
Not evaluated (all concentrations are identical)



Dibenzofuran (Det/N = 1/5)
No Trend
(p–value=0.362 and CV=1.1)



Naphthalene (Det/N = 3/5)
No Trend
(p–value=0.307 and CV=2.1)

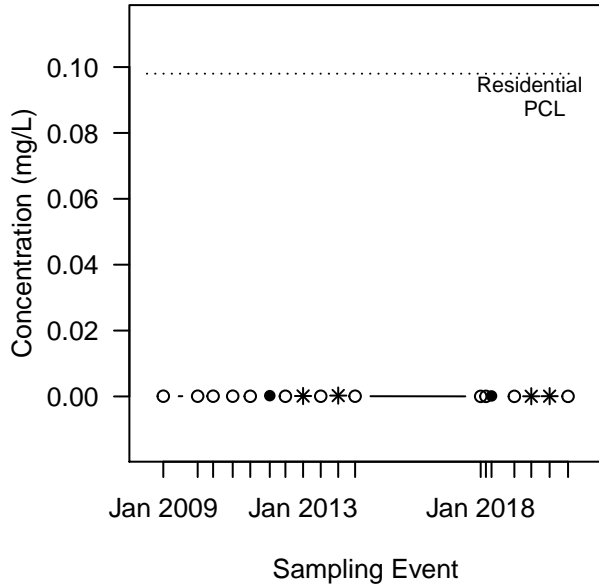


LEGEND:
 Concentration
 ● DET
 * DET, J-flagged
 ○ ND (DL plotted)

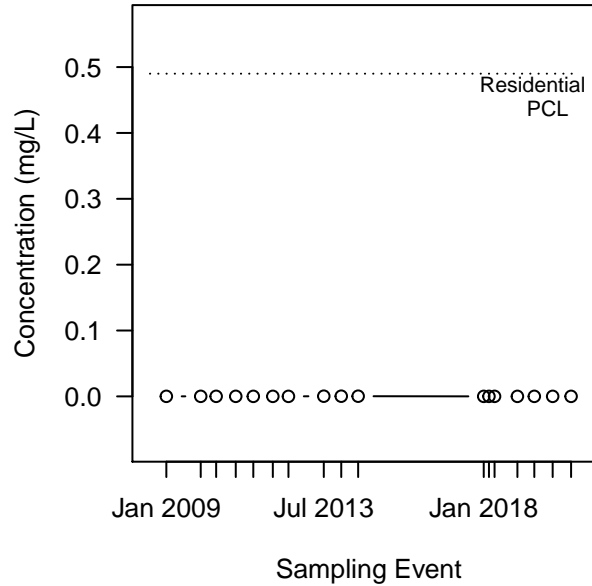
NOTE: A p–value<0.05 indicates a statistically significant trend.
 A p–value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

Mann-Kendall Trend Tests for P-11

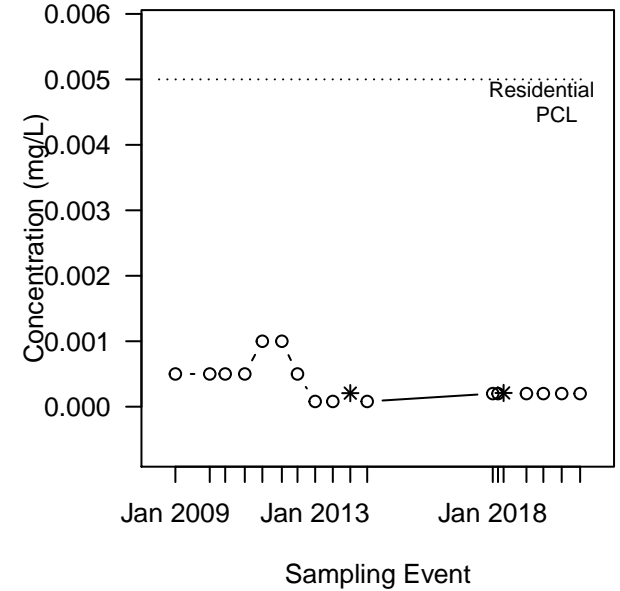
2-Methylnaphthalene (Det/N = 6/18)
No Trend
(p-value=0.182 and CV=0.83)



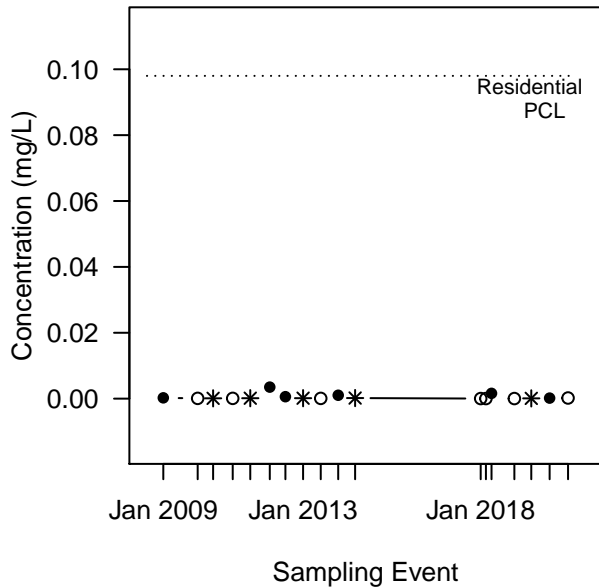
2,4-Dimethylphenol (Det/N = 0/17)
Not evaluated - All NDs



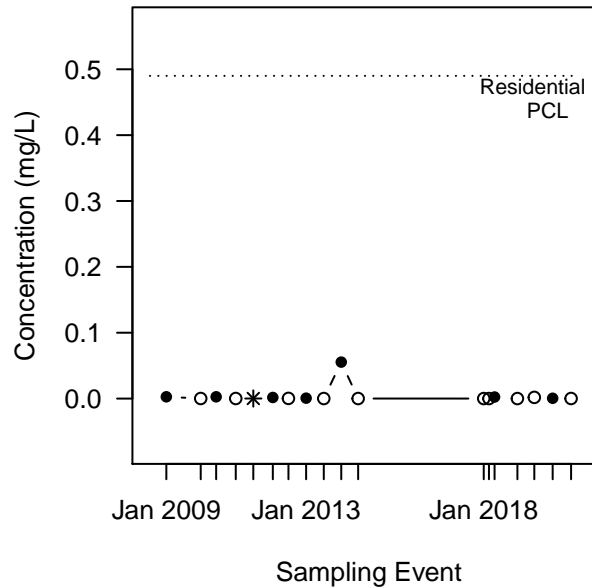
Benzene (Det/N = 2/18)
No Trend
(p-value=0.242 and CV=0.8)



Dibenzofuran (Det/N = 11/18)
No Trend
(p-value=0.333 and CV=1.9)



Naphthalene (Det/N = 8/18)
No Trend
(p-value=0.121 and CV=3.4)



LEGEND:
 Concentration
 ● DET
 * DET, J-flagged
 ○ ND (DL plotted)

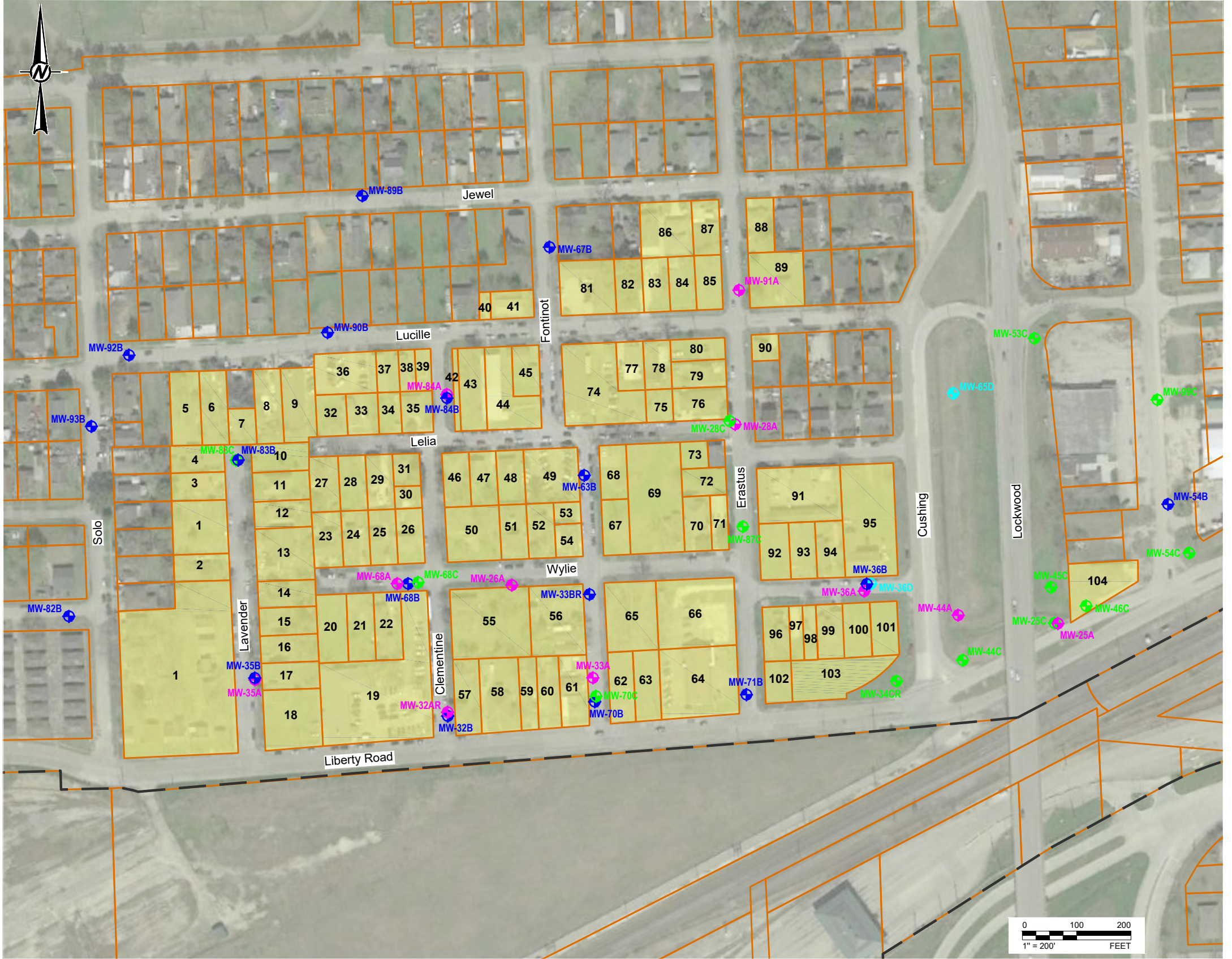
NOTE: A p-value < 0.05 indicates a statistically significant trend.
 A p-value is the probability, if no trend is present, that we'd observe such an increasing or decreasing trend.

ATTACHMENT E

TRRP Notifications

Path: \\nasarandata\Projects - Round Rock_2019\1919232 - HWPW\2020-03-29\Site\Annual Report\1 - File Name: FIG 1 - Off-Site Notification Properties.dwg | Last Edited By: rnasarand | Date: 2021-03-29 | Time: 1:08:14 PM

MAP ID	PARCEL ADDRESS	PARCEL OWNER
1	2909 Lavender St	2013 COTTAGE LLC
2	2925 Lavender St	EDWARDS, SANDRA MICHELLE
3	2937 Lavender St	LIMBRICK, MIKELL
4	2941 Lavender St	BROOKS, ANTONIA EST OF % PATRICIA J ARTHUR
5	4910 Lucille St	WHITEHEAD, SHIRLEY A
6	5002 Lucille St	TOLEDANO, ARISTEO
7	2943 Lavender St	APOGEE REAL ESTATE PARTNERS LLC
8	5006 Lucille St	BARRIENTOS, EINE
9	5008 Lucille St	NORTON MEMORIAL TEMPLE COGIC
10	2942 Lavender St	HERNANDEZ, ROBERTO G
11	2938 Lavender St	HUTCHINS, ESSIE LEE
12	2934 Lavender St	OSBORN, ZEARLENE
13	2926 Lavender St	CLARK INVESTMENT CO
14	2924 Lavender St	LONG, LUCILLE ESTATE OF
15	2922 Lavender St	GREATER MT NEBO BAPTIST CHURCH
16	2910 Lavender St	CARRINGTON, RAY
17	2906 Lavender St	BEAL, BARBARA
18	2904 Lavender St	GREATER MOUNT NEBO MISSIONARY BAPTIST
19	5005 Liberty	GREATER MOUNT NEBO BAPTIST CHURCH
20	0 Wylie St	GREATER MT NEBO BAPTIST CHURCH
21	5006 Wylie St	GREATER MOUNT NEBO BAPTIST CHURCH
22	5010 Wylie St	SMITH, ALBERTA
23	5005 Wylie St	BANDA, MONICO DUQUE & MARTHA Z
24	5007 Wylie St	BANDA-ZUNIGA, NANCY G; MACIA-ARANDA, GUILLERMO
25	5011 Wylie St	CARR, CARRIE MAE ESTATE OF
26	2901 Clementine St	ROSS, MARY BASS
27	5002 Lelia St	HOLMES EMITT & LAURA ESTATE % MILDRED WILDER
28	0 Lelia St	HEPTULLABHAI, MUSTAFA
29	5014 Lelia St	RIVERA, GUADALUPE JR; RIVERA FLOR ESTHELA
30	2921 1/2 Clementine	RIVERA, GUADALUPE
31	2921 Clementine St	PINEDA, ROGELIO R & OLIVIA
32	0 Lelia St	LELIA STREET TRUST
33	5009 Lelia St	CURRENT OWNER
34	0 Lelia	BEACH PROPERTY LLC
35	5015 Lelia St	CASTILLO, MANUEL M
36	5012 Lucille	NORTON'S TEMPLE CHURCH OF GOD IN CHRIST INC
37	5014 Lucille St	WILLIAMS, BILLY J JR
38	5016 Lucille St	CURRENT OWNER
39	0 Lucille	WAHSH, BELAL
40	5023 Lucille St	SERNA, LETICIA; MARTINEZ JOSE A
41	3101 Fontinot St	DORN, FRANK LEE & ALEAN D
42	0 Lelia	SCHRINSKY, SAMUEL J
43	705 Lucille	SERANAE INVESTMENT INC
44	0 Lelia St	GREATER TRUE VINE MISSIONARY BAPTIST CHURCH
45	3013 Fontinot St	BYRD EMMA ESTATE OF % LENORA BALDWIN YOUNG
46	2918 Clementine St	CITY OF HOUSTON
47	5116 Lelia St	MONTERA, ANGEL J JR
48	5112 Lelia St	POTTS, AVIE
49	5118 Lelia St	GREATER TRUE VINE BAPTIST CHURCH
50	5107 Wylie St	POTTS, MARYLAND ESTATE
51	5107 Wylie St	TOLBERT, REGINALD & LETICIA
52	5111 Wylie St	PEREZ, AQUILINA ESTATE OF
53	2913 Fontinot St	HUERTA, NOE; RIVERA, MARELY
54	5119 Wylie St	GILLIAM, MARTHA
55	2820 Clementine St	BENSON, TILLIE POTTS ESTATE OF
56	2813 Fontinot St	COTO, JOSE A & REINA I; COTO, CHRISTIAN A & ROBIN H
57	5101 Liberty Rd	LONGORIA, WALLACE R & JANIE
58	5105 Liberty Rd	GONZALEZ, ALEJANDRO
59	5109 Liberty Rd	MARTINEZ, JOE H
60	5113 Liberty Rd	MEDINA, CLAUDIA ELIZABETH DELAPORTIL; LEAL, JORGE DANIEL RIVERA
61	5117 Liberty Rd	RIVERA, JORGE D
62	5201 Liberty Rd	FULL GOSPEL CHRISTIAN ASSN
63	5201 Liberty Rd	FULL GOSPEL CHRISTIAN ASSN
64	2809 Erastus St # 1	CHARITY BAPTIST CHURCH % REV F W MCILVEEN
65	5201 Wylie St	CHARITY BAPTIST CHURCH
66	2809 Erastus St	CHARITY BAPTIST CHURCH % REV F W MCILVEEN
67	5201 Wylie St	THOMPSON-REID, BRENT
68	0 Lelia St	GREATER TRUE VINE MISSIONARY BAPTIST CHURCH
69	5202 Lelia St	GREATER TRUE VINE MBC
70	0 Wylie St	MOCK, LEROY & SANDRA M
71	5211 Wylie St	MOCK, LEROY & SANDRA M
72	0 Lelia St	WOLFE, ELLMEAN J
73	0 Lelia St	MOCK, LEROY
74	3010 Fontinot St	GREATER TRUE VINE MISSIONARY BAPTIST CHURCH
75	0 Lelia St	VITAL, PERCY
76	3005 Erastus St	GUEVARA, DAVID M & MARIA T
77	5210 Lucille St	PARIKH, MRUGESH
78	5212 Lucille St	RUIZ, JOSE F & YOLANDA
79	3009 Erastus St	RAMIREZ, ABDULIO
80	3009 Erastus St	RAMIREZ, ABDULIO
81	5203 Lucille St # 10	BLODGETT, THOMAS & GAY
82	5219 Lucille St	GOLDEN PATH BUILDERS LLC
83	0 Lucille St	GOVEA, GUADALUPE R
84	0 Lucille St	GOVEA, GUADALUPE R
85	3101 Erastus St	VITAL, PERCY
86	5206 Jewel St	GOVEA, JOSE R
87	3115 Erastus St	HERNANDEZ-FLORES, MARTHA; LOPEZ, JOSE R
88	5302 Jewel St	LOPEZ, ARCADIO R
89	5303 Lucille St	GARCIA, CARLOTTA C
90	5302 Lucille St	WRIGHT, JANICE B
91	5301 Lelia St # 16	AMBE SAI LLC
92	5301 Wylie St	CRAWFORD PROPERTIES AND ESTATES LLC
93	5303 Wylie St	N/A
94	5305 Wylie St	IBARRA, VICTOR DELGADO
95	2905 Cushing St	GOOD HOPE BAPTIST CHURCH
96	2806 Erastus St	ROBERTS, MARGARET ET AL
97	5304 Wylie St	JUAREZ, IRENE PEREZ
98	5304 1/2 Wylie St	DELGADO, SUSIE I ESTATE OF
99	5308 Wylie St	BROWN, AUDREY M
100	5312 Wylie Rd # A	EEPS, LATRICE
101	5311 Liberty Rd	RAY, MARCUS
102	5301 Liberty Rd	JEFFERSON, SEAN
103	5311 Liberty Rd	CRAWFORD PROPERTIES & STATES
104	3300 E Lockwood Dr	DAMIAN, ROBERT



REFERENCE(S)
 AERIAL PHOTO FROM GOOGLE EARTH, IMAGERY DATED 2/23/19, AND PROPERTY INFORMATION FROM HARRIS COUNTY APPRAISAL DISTRICT (HCAD), 2018.

CLIENT
 UNION PACIFIC RAILROAD CO.

PROJECT
 HOUSTON WOOD PRESERVING WORKS

CONSULTANT	DATE	DESCRIPTION
	2021-03-29	APPROVED
		REVIEWED
		DESIGNED
		PREPARED
		REVIEWED

TITLE
 OFF-SITE NOTIFICATION PROPERTIES

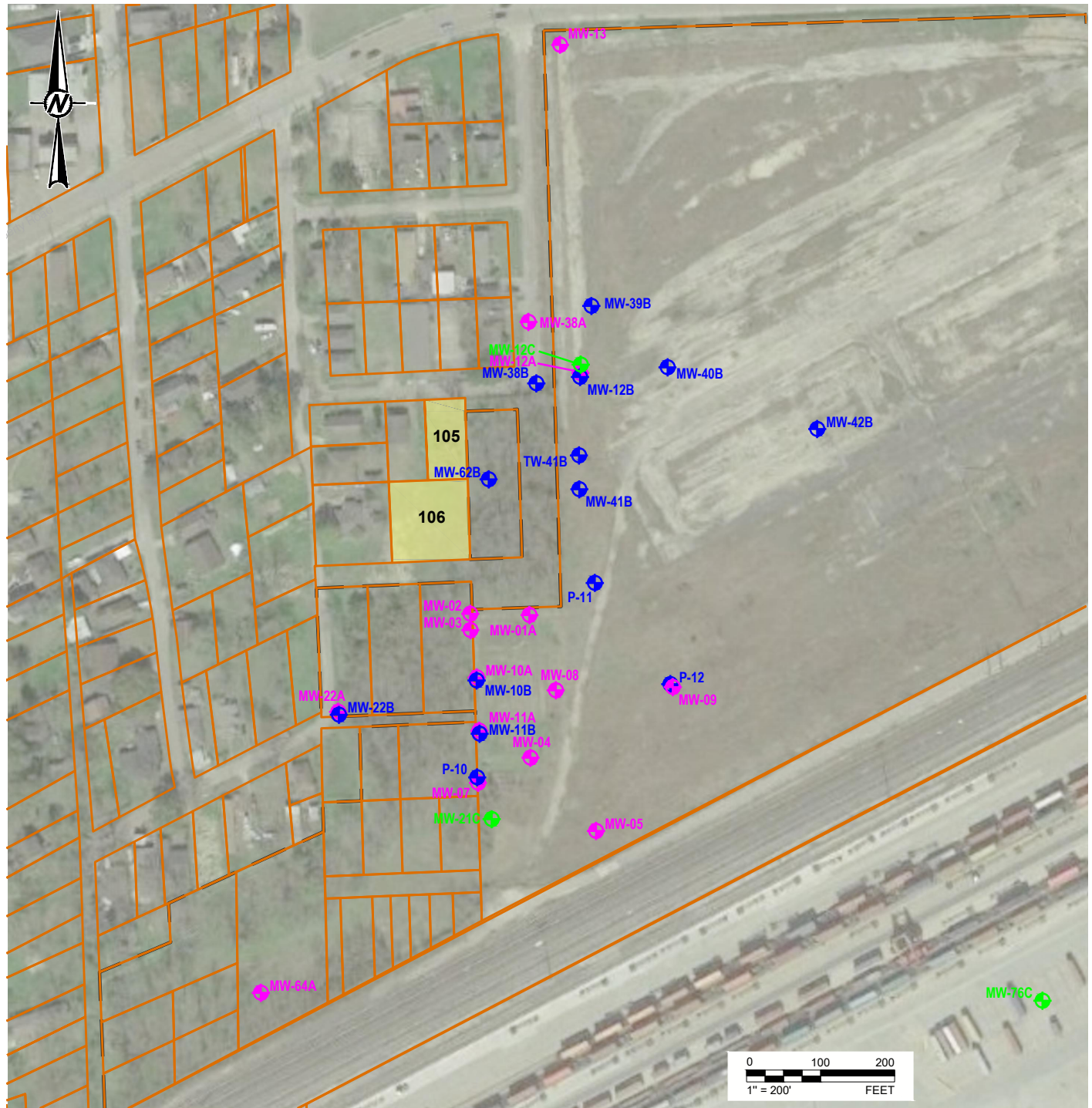
PROJECT NO. 19119232

REV. 0

FIGURE 1

1" = 200' IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B

Last Edited By: rsalazar Date: 2021-03-29 Time:12:10:12 PM | Printed By: rsalazar Date: 2021-03-29 Time:12:13:09 PM
 Path: \\solar\hmd\data\Projects - Round Rock_L_2019\19119232 - HWPPV\2020-9 Sept\Sumi-Annual Report | File Name: FIG 2 - Off-Site Notification Properties (SW).dwg



MAP ID	PARCEL ADDRESS	PARCEL OWNER
105	4508 Eddie St	HENDERSON, HESTER
106	0 Ranch St	PRINCE, JAMES A

CLIENT
UNION PACIFIC RAILROAD CO.

PROJECT
HOUSTON WOOD PRESERVING WORKS

TITLE
OFF-SITE NOTIFICATION PROPERTIES

CONSULTANT	YYYY-MM-DD	2021-03-29
	DESIGNED	RS
	PREPARED	RS
	REVIEWED	MH
	APPROVED	ECM

REFERENCE(S)
 AERIAL PHOTO FROM GOOGLE EARTH, IMAGERY DATED 2/23/19, AND PROPERTY INFORMATION FROM HARRIS COUNTY APPRAISAL DISTRICT (HCAD), 2018.

PROJECT NO.
19119232

REV.
0

FIGURE
2

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI A