Texas Commission on Environmental Quality

Remediation Division Correspondence Identification Form

SITE & PROGRAM AREA IDENTIFICATION

SITE LOCATION

Site Name: Union Pacific Railroad Houston Wood Preserving Works

Address 1: 4910 Liberty Road

Address 2:

Houston State: **Texas**

Zip Code: 77026 County: Harris

TCEQ Region: Houston - 12

REMEDIATION DIVISION PROGRAM AND FACILITY IDENTIFICATION

Is This Site Being Managed Under A State Lead Contract? ☐ Yes ☑ No

Program Area: IHW Corrective Action

Mail Code: MC-127 (IHW)

Is This A New Site To This Program Area? ☐ Yes ☑ No

Additional Information: SWR No. 31547

Additional Information: Permit/ Compliance Plan No. 50343

DOCUMENT(S) IDENTIFICATION

	PHASE OF REMEDIATION	DOCUMENT NAME
1.	Miscellanous	2026 1st Semi-Annual Monitoring Report - SWMU 1
2.	Please select a phase of remediatic	
3.	Please select a phase of remediatic	
4.	Please select a phase of remediatic	
5.	Please select a phase of remediatic	

CONTACT INFORMATION

☑ I attest that all work has been done in accordance with TCEQ rules ☑ I certify that I am aware misrepresentation of any claim is a violation.

RESPONSIBLE PARTY/APPLICANT/CUSTOMER INFORMATION (IF APPLICABLE)

Union Pacific Railroad

ENVIRONMENTAL CONSULTANT/REPORT PREPARER/AGENT

WSP USA Inc.

SIGNATURES

DATABASE CODES

Document No.	TCEQ Database Term	Document No.	TCEQ Database Term
1.		4.	
2.		5.	
3.			

REPORT

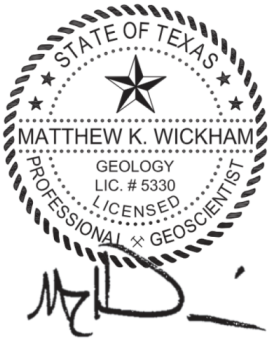
Correction Action Monitoring Report

2026 First Semi-Annual Event

Former Houston Wood Preserving Works

4910 Liberty Road

Houston, Texas



07/21/26

Submitted to:

Submitted by:

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July 21, 2026

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I certify under penalty of law that this document and all attachments were prepared under my direction or supervision according to a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature

7/21/26
Date

Rodney N. Doerr

Name

VP Safety + Chief Safety Officer

Title

1.0 EXECUTIVE SUMMARY

This semi-annual report presents a summary and evaluation of the Corrective Action Groundwater Monitoring for January through June 2026 for the Closed Surface Impoundment (Solid Waste Management Unit (SWMU) 1) at the former Wood Preserving Works facility (the Site) located in Houston, Texas. The groundwater monitoring activities for this period were performed by WSP USA Inc. (WSP), on behalf of Union Pacific Railroad (UPRR), in January 2026.

The two uppermost groundwater bearing units, the A-Transmissive Zone (A-TZ) and the B-Transmissive Zone (B-TZ), were monitored during this period. Groundwater elevation data collected in January 2026 show A-TZ groundwater generally flows southwest across SWMU 1 at a relatively flat hydraulic gradient of approximately 0.0020 ft/ft. Groundwater flow during the previous event (2025 second semi-annual monitoring event) in the A-TZ was observed to have a hydraulic gradient of approximately 0.0014 ft/ft with a general flow direction outward from SWMU 1 to the southwest.

Groundwater elevation data collected in the B-TZ in January 2026 indicate groundwater flows east to southwest across SWMU 1 with a hydraulic gradient of approximately 0.0005 ft/ft. Groundwater flow during the previous event (2025 Second semi-annual monitoring event) was observed to have a hydraulic gradient of approximately 0.0075ft/ft with a general flow direction to the northwest across SWMU 1.

Analytical results from the semi-annual sampling event were compared to the Groundwater Protection Standards (GWPSs) based on Texas Risk Reduction Program (TRRP) Protective Concentration Levels (PCLs), as designated in Section IV.D of the Compliance Plan, dated June 10, 2005. Constituent concentrations in samples collected for the 2026 first semi-annual monitoring event were below their respective GWPSs except for an unverified exceedance of bis(2-ethylhexyl)phthalate at A-TZ Point of Compliance (POC) well MW-01A. Constituent bis(2-ethylhexyl)phthalate concentrations were detected above the GWPS during the initial sampling event conducted in January 2026 at MW-01A. The verification resampling event was conducted at MW-01A in February 2026, and the concentration was detected below the GWPS. In addition, non-aqueous phase liquid (NAPL) was detected in POC well MW-11B during the monitoring period. Measurement events at well MW-11B were conducted biweekly (every other week) and recovery of NAPL from well MW-11B was conducted as practicable. Therefore, except the occurrence for NAPL observed in MW-11B, the other POC monitoring wells in the A-TZ and B-TZ are considered to be compliant for this 2026 first semi-annual monitoring period.

2.0 INTRODUCTION

This semi-annual report presents a summary and evaluation of groundwater monitoring data collected during the 2026 first semi-annual monitoring period (January through June) at the Union Pacific Railroad (UPRR) former Houston Wood Preserving Works facility (the Site) located at 4910 Liberty Road in Houston, Texas (**Figure 1**). Semi-annual groundwater monitoring is required for the Site as a condition of the Texas Commission on Environmental Quality (TCEQ) Hazardous Waste Permit No. 50343 and associated Compliance Plan (CP) No. 50343, both renewed and issued on June 10, 2005. Groundwater monitoring at the Site is performed to monitor groundwater quality beneath the Closed Surface Impoundment Unit No. 001 (Solid Waste Management Unit (SWMU) 1).

On behalf of UPRR, WSP USA Inc. (WSP) conducted groundwater monitoring activities at SWMU 1 on January 5 and 6, 2026 (water level measurements and groundwater sampling). Groundwater monitoring activities included sampling and gauging the background and point of compliance (POC) wells and piezometers associated with SWMU 1. The sampling event, analytical data, and data evaluation provided in this report fulfill the semi-annual corrective action reporting requirements for the first half of 2026 as described in the CP, Section VII.C.2. This section requires the following reporting elements:

Semi-Annual Corrective Action Report Requirements	Report Section, Table(s) and/or Figure(s)
A narrative summary of the evaluations made in accordance with CP Sections V, VI, and VII for the preceding six-month period. These periods shall be January 1 through June 30 and July 1 through December 31 (VII.C.2.a.)	3.0
Summary of Methods utilized for management of recovered/purged water (VII.C.2.b.)	3.2
An updated table and map of the monitoring and corrective action system wells (VII.C.2.c.)	Section 3.1.1 and Figure 2
The results of the chemical analyses, submitted in a tabulated format in a form acceptable to the Executive Director, which clearly indicates each parameter that exceeds the Groundwater Protection Standard (GWPS). Copies of the original laboratory report for chemical analyses showing detection limits and quality control and quality assurance data shall be provided if requested by the Executive Director (VII.C.2.d.)	Tables 1 & 2 Appendix C
Tabulation of the water level elevations (relative to mean sea level), depth to water measurements, and total depth of well measurements collected since the data that was submitted in the previous semiannual report (VII.C.2.e.)	Table 4
Potentiometric surface maps showing the elevation of the water table at the time of sampling and direction of groundwater flow gradients (VII.C.2.f.)	Figures 3 & 4

Semi-Annual Corrective Action Report Requirements (cont'd)	Report Section, Table(s) and/or Figure(s)
A notation of the presence or absence of NAPLs, both light and dense, phases, in each well during each sampling event since the last event covered in the previous monitoring report and tabulation of depth and thickness of NAPLs, if detected (VII.C.2.g)	Table 4 and Table 6
Quarterly tabulations of quantities of recovered groundwater and NAPLs, and graphs of monthly recorded flow rates versus time for the recovery wells during each period. A narrative summary describing and evaluating the NAPL recovery program shall also be included (VII.C.2.h.)	Table 6
Tabulation of the total contaminant mass recovered from each recovery system for each reporting period, if such a system is installed (VII.C.2.i.)	Not Applicable
Tabulation of the data evaluation results pursuant to Section VI.D and status of each well listed on CP Table V with regard to compliance with the corrective action objectives and compliance with the GWPSs (VII.C.2.j.)	Table 5
Maps of the contaminated area depicting concentrations of constituents listed in Table IV and any newly detected Table III constituents as isopleths contours or discrete concentrations if isopleths contours cannot be inferred (VII.C.2.k.)	Not Applicable
Maps indicating the extent and thickness of the LNAPLs and DNAPLs, if detected (VII.C.2.l.)	Figure 4 (B-TZ)
An updated schedule summary as required by Section X (VII.C.2.m.)	Appendix D
Summary of any changes made to the monitoring/corrective action program and a summary of recovery well inspections, repairs, and any operational difficulties (VII.C.2.n.)	None
A table of the modifications and amendments made to this Compliance Plan with their corresponding approval dates by the executive director or the Commission and a brief description of each action (VII.C.2.o.)	None
Corrective Measures Implementation (CMI) Report to be submitted in accordance with Section VIII.F, if necessary (VII.C.2.p.)	Not Applicable
Tabulation of well casing elevations in accordance with Attachment B No. 16 (VII.C.2.q.)	Table 4
Recommendation for any changes (VII.C.2.r.)	None
Certification and well installation diagram for any new well installation or replacement and certification for any well plugging and abandonment (VII.C.2.s.)	Not Applicable
A summary of any activity within an area subject to institutional control (VII.C.2.t.)	None

Any other items requested by the Executive Director (VII.C.2.u.)	None

As of January 2026, a recovery system had not been installed and is not necessary for the regulated unit. Therefore, Provisions under VII.C.2.h and VII.C.2.i that relate to recovery wells or recovery system, are not applicable for this reporting period.

Responses to each of the semi-annual report provisions required by CP Section VII.C.2 are provided in Section 3.0.

3.0 2026 FIRST SEMI-ANNUAL GROUNDWATER MONITORING EVENT

A discussion of each of the semi-annual report provisions required by CP Section VII.C.2 is presented below by reference number to the list of provisions in Section 2.0.

3.1 Narrative Summary of First Semi-Annual Monitoring Activities

The CP requires an evaluation of the Corrective Action Program (Section V) and Groundwater Monitoring Program summarizing the overall effectiveness of the Corrective Action Program (Section VI). This narrative summary includes provisions for response and reporting requirements as detailed in the CP Section VII, as discussed below.

3.1.1 Corrective Action Program

Groundwater samples were collected from the Background and POC wells (as detailed in CP Table V, which is provided in **Appendix A**) to assess potentially affected groundwater quality in the A-Transmissive Zone (A-TZ) and the B-Transmissive Zone (B-TZ). These water-bearing zones are defined as:

- A-TZ refers to the first sand unit encountered at approximately 13 feet below ground surface (bgs) and averages 7 feet in thickness; and
- B-TZ refers to the second sand unit encountered at approximately 30 feet bgs and averages 9 feet in thickness.

The definitions of the A-TZ and B-TZ are consistent with the Uppermost Transmissive Zone (UTZ) and Second Transmissive Zone (STZ), respectively, as defined in CP Provision I.A.

The following monitoring wells were sampled during this event (**Figure 2**):

- A-TZ POC wells: MW-01A, MW-02, MW-07, MW-10A, and MW-11A;
- A-TZ Background well: MW-08;
- B-TZ POC wells: MW-10B, MW-11B, and P-10; and
- B-TZ Background well: P-12.

3.1.2 Groundwater Monitoring

WSP performed quarterly inspections of SWMU 1 in January and April 2026 and conducted the first semi-annual groundwater sampling activities on January 5 and 6, 2026. Groundwater sampling was performed using procedures outlined in a U.S. Environmental Protection Agency (EPA) document titled Low-Flow (Minimal Drawdown) Ground-Water Sampling Procedures (EPA/540/S-95/504) published in April 1996 and approved in the CP application. Groundwater samples were analyzed for the Detected Hazardous and Solid Waste Constituents listed in the CP, Table III (**Appendix A**).

Monitoring wells are equipped with dedicated polytetrafluoroethylene (PTFE) tubing for groundwater sampling. A peristaltic pump was used to purge and collect groundwater samples. An approximate one-foot section of disposable silicon tubing was placed around the pump head and attached to the PTFE tubing for proper operation of the pump. Groundwater was pumped from the screened interval of each well at a flow rate of less than 0.5 L/min using a flow-through cell. Field parameters including temperature, pH, specific conductivity, dissolved oxygen, and turbidity were measured during purging and sampling activities. When field parameters had

stabilized to the EPA-specified criteria, a sample was then collected for analysis. The samples were also collected at a flow rate of less than 0.5 L/min. Recorded field parameters are summarized in Appendix B.

For each well, sample bottles were filled directly from the pumping apparatus described above, and were sealed and packed in coolers with sufficient ice to maintain a sample temperature of approximately 4°C. The sample coolers were delivered to ALS Environmental in Houston, Texas for laboratory analysis. Chain-of-Custody forms were completed and kept with their respective samples. Copies of the analytical data and COCs are included in **Appendix C**. Groundwater samples were then analyzed for the Detected Hazardous and Solid Waste Constituents listed in the CP, Table III (**Appendix A**).

3.2 Purge Water Management

Approximately eight gallons of purge water were generated during the 2026 first semi-annual low-flow groundwater sampling event. The purge water was containerized in a Department of Transportation (DOT) certified, 55-gallon steel drum, combined with purge water from site-wide sampling activities, and temporarily stored on site in a fenced and locked container storage area (NOR 007). Wastes generated during the 2026 first semi-annual SWMU 1 sampling event in 2026 were transported from the Site by E3 to the US Ecology Robstown facility, located in Robstown, Texas in February 2026. The waste manifest is provided in **Appendix D**.

3.3 Monitoring and Corrective Action System Wells

A summary of the current monitoring and corrective action groundwater wells is discussed in Section 3.1.1. Configuration of the current monitoring and corrective action well network is presented on **Figure 2**.

3.4 Analytical Results

The 2026 first semi-annual groundwater analytical results from the A-TZ and B-TZ are summarized in **Tables 1** and **2**, respectively and the laboratory analytical report is provided in **Appendix C**. The analytical results were compared to the Detected Hazardous and Solid Waste Constituent limits, which are taken from the current TCEQ Texas Risk Reduction Program (TRRP) Tier 1 Protective Concentration Levels (PCLs). TRRP PCLs serve as the Groundwater Protection Standard (GWPS), as detailed in Section IV.D and Table III of the CP. If concentrations exceeded the concentration limits of this report, the concentration is bolded within the table.

Quality assurance/quality control (QA/QC) samples (matrix spike and matrix spike duplicate results) are summarized in **Table 3**.

3.5 Well Measurements

During the sampling event, the following information was recorded at each monitoring well:

Before Sampling:

- The presence of light NAPLs was evaluated; and
- Depth to groundwater below the top of casing was measured to the nearest 0.01 foot.

After Sampling:

- The presence of dense non-aqueous phase liquids (DNAPLs) was evaluated using visual observations and an oil-water interface probe; and
- Total well depths of the wells were measured.

Table 4 provides a summary of these measurements.

NAPL was detected periodically in monitoring well MW-11B over the monitoring period from January through June 2026 as detailed in Section 3.7.

None of the other compliance wells had measurable amounts or any indication of LNAPL or DNAPL.

3.6 Potentiometric Surface Maps

Groundwater elevation data used to prepare the potentiometric surface maps for the 2026 first semi-annual monitoring event were collected in January 2026 as part of a site-wide evaluation and update to the groundwater flow model for the Site. Additional groundwater levels were collected when the SWMU POC and background wells were sampled. The potentiometric surface maps of the A-TZ and B-TZ are presented in **Figures 3** and **4**, respectively.

Based on groundwater elevation data collected in the A-TZ during the January 2026 gauging event, groundwater generally flows west-southwest across SWMU 1 at a relatively flat hydraulic gradient of approximately 0.0020 ft/ft. Groundwater flow during the previous event (2025 second semi-annual monitoring event) in the A-TZ was observed to have a hydraulic gradient of approximately 0.0014 ft/ft with a general flow direction outward from SWMU 1 to the southwest.

Groundwater elevation data collected in the B-TZ during the January 2026 gauging event indicate groundwater flows northeast to southwest across SWMU 1 with a hydraulic gradient of approximately 0.0075 ft/ft. Groundwater flow during the previous event (2025 second semi-annual monitoring event) was observed to have a hydraulic gradient of approximately 0.0005 ft/ft with a general flow direction to the northwest across SWMU 1.

3.7 Non-Aqueous Phase Liquids

During the 2025 second semi-annual monitoring event in July 2025, WSP field personnel observed DNAPL in MW-11B. The initial observation on July 2nd was described as a “trace” since the thickness of the NAPL could not be measured with the interface probe. Monitoring well MW-11B was sampled during the semi-annual monitoring event in July 2025 and the analytical results were below GWPSs, as detailed in the Corrective Action Groundwater Monitoring Report for July through December 2025 (WSP, 2026). WSP personnel continued to monitor and recover NAPL as practicable in MW-11B from October through December of 2025.

On December 17, 2025, WSP personnel redeveloped monitoring well MW-11B in an attempt to remove sediment build-up from the filter pack and improve communication with the B-TZ formation to better evaluate DNAPL recovery from the well. Prior to redevelopment, WSP gauged the well with an interface probe and no DNAPL was detected. WSP then redeveloped the well using a large-diameter disposable bailer. The bailer was used to surge the well across the screened interval and then bailed to evacuate the turbid water from the well. WSP personnel conducted three cycles of surging and bailing from MW-11B. During the initial redevelopment cycle, NAPL was observed on the bailer and in the purge water. No NAPL was observed during the second or third redevelopment cycles. No measurable NAPL was recovered during the redevelopment activities. Following the redevelopment activities, WSP deployed a weighted absorbent sock into the well to capture NAPL that may collect in the well.

Measurements were continued from January through June 2026 on a biweekly (every other week) basis and NAPL was recovered as practicable. These NAPL measurements are summarized in **Table 6**. WSP deployed a weighted absorbent sock into the well to capture NAPL that may collect in the well. A weighted sock cage was deployed on February 12, 2026, to keep the absorbent sock at the bottom of the well. The condition of the

absorbent sock was monitored during each bi-weekly measurement event. The sock was replaced on April 9, 2026 and was subsequently replaced during each biweekly event through June 2026. The volume of DNAPL recovered from January through June was approximately 0.33 gallons.

3.8 Recovered NAPL

NAPL recovered from the well during the semi-annual period were containerized in DOT certified, 55-gallon steel drums and temporarily stored on site in a fenced and locked container storage area (NOR 007) and was transported from the Site by OMI to the US Ecology Robstown facility, located in Robstown, Texas in February 2026 and May 2026. The waste manifests are provided in **Appendix D**. NAPL recovered in the month of June was containerized in DOT certified, 55-gallon steel drums is temporarily stored on site in a fenced and locked container storage area (NOR 007) pending transportation from the Site to a disposal facility. The associated manifest will be provided in the 2H 2026 semi-annual monitoring report.

3.9 Contaminant Mass Recovered

With no groundwater recovery system installed, this provision is not applicable for the Site.

3.10 Analytical Data Evaluation

Section VI.D of the CP describes two methods which may be used to determine the compliance status of a given well:

- Analytical results may be either directly compared with PCLs (CP Table III; included in **Appendix A**), or
- Analytical results can be statistically compared with PCLs using the Confidence Interval Procedure for the mean concentration based on normal, log-normal, or non-parametric distribution, which the 95% confidence coefficient of the t-distribution will be used in construction of the confidence interval.

Direct comparison to PCLs was used to evaluate the analytical data. Tables 1 (A-TZ) and 2 (B-TZ) show the results of a direct comparison of data for this sampling event to the respective PCLs. Wells and piezometers are in compliance if each of the constituents listed in the CP Table III was reported at a concentration less than or equal to the PCL.

Based on the analytical results from the monitoring event, the compliance wells completed in both transmissive zones are compliant with GWPSs. This includes consideration of the analytical results from the samples from monitoring well MW-11B where NAPL was detected during the groundwater monitoring period, as described in Sections 3.7. Compliance status for each of the monitoring wells is provided in **Table 5**.

Concentration versus time graphs for COCs in the A-TZ (2-methylnaphthalene (**Figure E-1**), dibenzofuran (**Figure E-2**), and naphthalene (**Figure E-3**)) and the B-TZ (dibenzofuran (**Figure E-4**) and naphthalene (**Figure E-5**)) are provided in **Appendix E**. The graphs demonstrate that COC concentrations in the A-TZ and B-TZ POC wells have shown a steady decrease over time with sporadic detections.

A QA/QC review and Data Usability Summary (DUS) were prepared for the January 2026 analytical data by GHD Services Inc. (**Appendix C**). The laboratory qualified analytes with concentrations above the sample detection limits (SDLs) but below the method quantitation limits (MQLs) as estimated on analytical tables (**Tables 1** and **2**).

3.11 Reported Concentration Maps

Reported concentrations of each constituent analyzed for the 2026 first semi-annual monitoring event are presented on **Figures 5** and **6** for the A-TZ and B-TZ compliance wells, respectively. Constituent concentrations in the POC and background wells were below PCLs. POC wells have been in compliance with the concentration limits during the last 12 semi-annual sampling events (6 years).

3.12 Extent of NAPL

The extent of the NAPL observed during the semi-annual groundwater monitoring period was limited to monitoring well MW-11B, as described in previous sections of this report.

3.13 Updated Compliance Schedule

Section X of the CP requires that the Permittee submit a schedule summarizing the activities required by the Compliance Plan issued on June 10, 2005, which was originally submitted to the TCEQ on August 4, 2004. An updated compliance schedule is included as **Appendix F** in this report.

3.14 Summary of Changes Made to Corrective Action Program

No changes have been made to the corrective action program.

3.15 Modifications and Amendments to Compliance Plan

A compliance plan renewal application was submitted to TCEQ on December 23, 2003 consistent with the renewal requirements for the RCRA permit at the site. The RCRA permit and CP were issued June 10, 2005. There have been no modifications or amendments to the Compliance Plan since the last permit issued. However, a RCRA Part A and Part B Permit Renewal Application with a Major Modification to the Compliance Plan was submitted on December 10, 2014, with revisions dated December 7, 2015, July 29, 2016, June 24, 2017, July 9, 2019, August 31, 2020, October 26, 2020, and January 15, 2021. The TCEQ completed the technical review of the Permit Renewal Application and prepared a preliminary decision and final draft permit. The application is currently in the public comment review period. A Class 1 Permit Modification to update the facility contact information was submitted on February 28, 2018 and approved by the TCEQ in a letter dated March 20, 2018.

3.16 Corrective Measures Implementation (CMI) Report

A Response Action Plan (RAP) was submitted with the Compliance Plan to the TCEQ on December 10, 2014 with revisions dated December 7, 2015, July 29, 2016, June 24, 2017, July 9, 2019, August 31, 2020, October 26, 2020, and January 15, 2021.

3.17 Well Casing Elevations

In accordance with the facility Groundwater Sampling and Analysis Plan (GWSAP) dated May 13, 2004 (Revision 1), which requires SWMU 1 monitoring well elevations to be resurveyed every five years, the six A-TZ and four B-TZ monitoring well elevations were resurveyed on October 31, 2025. The top of casing elevations in Table 4 are based on the October 2025 survey.

3.18 Recommendation for Changes

With NAPL detected in monitoring well MW-11B, UPRR began weekly gauging events at MW-11B in December 2025. UPRR conducted gauging events of MW-11B on a biweekly basis (every other week) during the first six months of 2026 . This also includes biweekly inspections and replacement absorbent socks installed in MW-11B.

Recovery was attempted if NAPL was detected during the biweekly inspection. Biweekly gauging information, inspections of the absorbent socks, and amounts of any recovered NAPL were documented. Following the six-month period, UPRR will evaluate if additional corrective actions are necessary at MW-11B.

3.19 Well Installation and/or Abandonment

No monitoring wells were installed or abandoned as part of the monitoring program or the Corrective Action Program during the reporting period.

3.20 Activity Within Area Subject to Institutional Control

No areas are under institutional control; therefore, this provision does not apply.

3.21 Other Requested Items

No other items have been requested by the executive director.

Tables

Table 1
Summary of Analytical Results for the A-Transmissive Zone (A-TZ)
Semiannual Monitoring Report: 2026 First Semi-Annual Event

Houston Wood Preserving Works
Houston, Texas

Analyte	PCL (mg/L)	Monitoring Well IDs (Concentrations mg/L)																											
		MW-01A			FD-01 (MW-01A)			MW-01A			FD-01 (MW-01A)			MW-02			MW-07			MW-08			MW-10A			MW-11A		
		1/6/2026	LQ	VQ	1/6/2026	LQ	VQ	2/6/2026	LQ	VQ	2/6/2026	LQ	VQ	1/5/2026	LQ	VQ	1/6/2026	LQ	VQ	1/6/2026	LQ	VQ	1/6/2026	LQ	VQ	1/5/2026	LQ	VQ
Acenaphthene	1.5	0.019			0.019			NA			NA			0.0094			0.00027			0.000044	J	J	0.0058			0.000027	U	U
Acenaphthylene	1.5	0.0010			0.00096			NA			NA			0.000077	J	J	0.000015	U	U	0.000015	U	U	0.00016			0.000015	U	U
Anthracene	7.3	0.00027			0.00028			NA			NA			0.00016			0.000058	J	J	0.000014	U	U	0.000014	U	U	0.000071	J	J
bis(2-ethylhexyl)phthalate	0.006	**0.016**		J	0.00012	J	J	0.00014	J	JL	0.00012	J	J	0.000057	J	U	0.00018	J	J	0.00016	J	J	0.00015	J	U	0.00014	J	U
Dibenzofuran	0.098	0.0023			0.0025			NA			NA			0.000082	J	J	0.000020	U	U	0.000020	U	U	0.00029			0.000020	U	U
Fluoranthene	0.98	0.0011			0.00097			NA			NA			0.00031			0.000050	J	J	0.000010	U	U	0.000062	J	J	0.000010	U	U
Fluorene	0.98	0.0042			0.0043			NA			NA			0.0046			0.00014			0.000030	U	U	0.00022			0.000030	U	U
2-Methylnaphthalene	0.098	0.000019	U	UJ	0.000043	J	J	NA			NA			0.0011			0.000025	J	J	0.000019	U	U	0.000019	U	U	0.000019	U	U
Naphthalene	0.49	0.00024		J	0.00036		J	NA			NA			0.000020	U	U	0.000020	U	U	0.000020	U	U	0.000020	U	U	0.000020	U	U
Phenanthrene	0.73	0.000073	J	J	0.000085	J	J	NA			NA			0.00019			0.000021	U	U	0.000021	U	U	0.000021	U	U	0.000021	U	U
Pyrene	0.73	0.00054			0.00051			NA			NA			0.00016			0.000057	J	J	0.000019	U	U	0.000047	J	J	0.000019	U	U

Notes:
PCL = Protective Concentration Level
The Compliance Plan Section IV.D defines the Groundwater Protection Standard (GWPS) as the PCL
FD-01 = Duplicate sample collected at MW-01A
NA = Not Analyzed
Concentration > PCLs is bolded.

LQ - Lab Qualifier
J = Estimated value between the SDL and the MQL
U = Value not detected greater than the MQL

VQ - Validation Qualifier
J = Estimated concentration
U = Non-detect due to low concentrations detected in the associated field blank

Table 2
Summary of Analytical Results for the B-Transmissive Zone (B-TZ)
Semiannual Monitoring Report: 2026 First Semi-Annual Event

Houston Wood Preserving Works
Houston, Texas

Analyte	PCL (mg/L)	Monitoring Well IDs (Concentrations mg/L)														
		MW-10B			MW-11B			P-10			FD-02 (P-10)			P-12		
		1/5/2026	LQ	VQ	1/5/2026	LQ	VQ	1/6/2026	LQ	VQ	1/6/2026	LQ	VQ	1/6/2026	LQ	VQ
Acenaphthene	1.5	0.039			0.052			0.0066		J	0.054		J	0.00050		
Acenaphthylene	1.5	0.00035			0.00084			0.000015	U	UJ	0.00026		J	0.000015	U	U
Anthracene	7.3	0.0025			0.0054			0.00013		J	0.0022		J	0.000075	J	J
bis(2-ethylhexyl)phthalate	0.006	0.000081	J	U	0.00039			0.00011	J	J	0.000058	J	J	0.000043	J	J
Dibenzofuran	0.098	0.015			0.018			0.00037		J	0.0024		J	0.000054	J	J
Di-n-butyl phthalate	2.4	0.000020	U	U	0.000020	U	U	0.000020	U	U	0.000020	U	U	0.000020	U	U
Fluoranthene	0.98	0.0027			0.014			0.00015		J	0.0023		J	0.000061	J	J
Fluorene	0.98	0.020			0.030			0.0016		J	0.019		J	0.00037		
Naphthalene	0.49	0.17			0.000020	U	U	0.0032		J	0.0015		J	0.000045	J	J
Phenol	7.3	0.000035	U	U	0.000035	U	U	0.000035	U	U	0.000035	U	U	0.000035	U	U
Pyrene	0.73	0.0015			0.0070			0.000082	J	J	0.0012		J	0.000037	J	J

Notes:
PCL = Protective Concentration Level
The Compliance Plan Section IV.D defines the Groundwater Protection Standard (GWPS) as the PCL
FD-02 = Duplicate sample collected at P-10
Concentration > PCLs is bolded.

LQ - Lab Qualifier
J = Estimated value between the SDL and the MDQ
U = Value not detected greater than the MQL

VQ - Validation Qualifier
J = Estimated concentration
U = Non-detect due to low concentrations detected in the associated field blank

Table 3
Summary of Analytical Results for Quality Assurance/Quality Control Samples
Semiannual Monitoring Report: 2026 First Semi-Annual Event

Houston Wood Preserving Works
Houston, Texas

Analyte	P-12(MS)[1] Matrix Spike		P-12(MSD)[1] Matrix Spike Duplicate	
Acenaphthene	4.722		4.685	
Acenaphthylene	5.21		5.234	
Anthracene	5.254		5.52	
bis(2-ethylhexyl)phthalate	6.076		6.251	
Dibenzofuran	4.432		4.541	
Di-n-butyl phthalate	6.183	S	6.509	S
Fluoranthene	4.932		5.205	
Fluorene	4.818		4.875	
2-Methylnaphthalene	4.646		4.649	
Naphthalene	4.476		4.503	
Phenanthrene	4.7		4.916	
Phenol	5.276		5.248	
Pyrene	5.55		5.747	

Notes:
PCL = Protective Concentration Level
(1) = P-12(MS) and P-12(MSD) are matrix spike and matrix spike duplicate samples collected at P-12, respectively.
S = Spike Recovery outside laboratory control limits

Table 4
Water Level Measurements
Semiannual Monitoring Report: 2026 First Semi-Annual Event

Houston Wood Preserving Works
Houston, Texas

Well ID	Top of Casing Elevation (TOC) (ft MSL)*	Date Measured	Water Depth (ft. BTOC)	Depth to NAPL (ft. BTOC)	Total Well Depth as Completed (ft. BTOC)	Total Well Depth (ft. BTOC)	Potentiometric Elevation (ft. MSL)
A-TZ Monitoring Locations							
MW-01A	47.90	1/5/2026	6.75	ND	20.2	19.91	41.15
MW-02	47.90	1/5/2026	6.78	ND	20.3	20.04	41.12
MW-07	48.84	1/5/2026	8.10	ND	25.9	24.85	40.74
MW-08	49.34	1/5/2026	8.27	ND	26.8	25.19	41.07
MW-10A	49.80	1/5/2026	8.86	ND	25.9	25.66	40.94
MW-11A	50.08	1/5/2026	9.28	ND	24.4	24.50	40.80
B-TZ Monitoring Locations							
MW-10B	49.89	1/5/2026	8.93	ND	48.8	46.44	40.96
MW-11B	50.14	1/5/2026	9.30	ND	46.8	46.77	40.84
P-10	47.63	1/5/2026	6.94	ND	40.0	42.90	40.69
P-12	48.73	1/5/2026	7.39	ND	40.0	41.42	41.34

Notes
BTOC = feet below the top of the well casing
ft. MSL = feet above Mean Sea Level
ND = Not Detected
*TOC elevations based on October 2025 survey (see Section 3.17)

Table 5
Compliance Status of Wells and Piezometers
Semiannual Monitoring Report: 2026 First Semi-Annual Event

Houston Wood Preserving Works
Houston, Texas

Zone	Monitoring Well Location	Well Designation	Compliance Status
A-TZ Monitoring Location	MW-01A	Point of Compliance	Compliant
	MW-02	Point of Compliance	Compliant
	MW-07	Point of Compliance	Compliant
	MW-08	Background Well	Compliant
	MW-10A	Point of Compliance	Compliant
	MW-11A	Point of Compliance	Compliant
B-TZ Monitoring Location	MW-10B	Point of Compliance	Compliant
	MW-11B	Point of Compliance	Non-Compliant*
	P-10	Point of Compliance	Compliant
	P-12	Background Well	Compliant

Notes
* - MW-11B analytical results from the January 2026 monitoring event were less than the groundwater protection standards (GWPS) detailed in Compliance Plan Table III; however, with the occurrence of NAPL in MW-11B, the well is considered non-compliant per Section VI.C.3.a.v. of the Compliance Plan.

Table 6
Summary of MW-11B NAPL Measurements
Semi-Annual Monitoring Report: 2026 First Semi-Annual Event

Houston Wood Preserving Works
Houston, Texas

Date	Water Level (ft)	Total Depth (ft)	NAPL Level (ft)	NAPL Thickness (ft)	NAPL Recovered (gal)
7/2/2025	4.72	46.7	PoP	TR	--
7/30/2025	NM	NM	NM	NM	0.16
8/6/2025	7.25	46.88	46.65	0.23	0.031
9/19/2025*	NM	NM	PoP	TR	--
10/22/2025	10.10	46.56	46.53	0.03	0.02
11/20/2025	10.70	46.67	ND	ND	--
12/3/2025	7.71	46.65	ND	ND	--
12/10/2025	7.53	46.67	ND	ND	--
12/17/2025**	8.30	46.81	ND	ND	--
12/24/2025	8.65	46.80	ND	ND	--
12/31/2025	8.87	46.88	ND	ND	--
1/7/2026	9.52	46.85	ND	ND	--
1/21/2026***	9.56	46.49	NM	NM	--
1/29/2026	5.76	46.56	ND	ND	--
2/12/2026	5.53	46.60	46.58	0.02	--
3/4/2026	6.40	46.58	PoP	TR	--
3/13/2026	4.45	46.65	46.63	0.02	--
3/26/2026	6.10	46.60	46.51	0.09	--
4/9/2026	5.85	46.57	46.44	0.13	0.10
5/14/2026	7.89	46.78	ND	ND	--
5/28/2026	4.95	46.80	46.57	0.23	--
6/11/2026	4.96	46.78	PoP	TR	0.02
6/25/2026	5.43	46.70	ND	ND	--

Notes:

PoP - Product on probe

ND - No product detected

NM - Not measured

TR - Trace amount of DNAPL measured

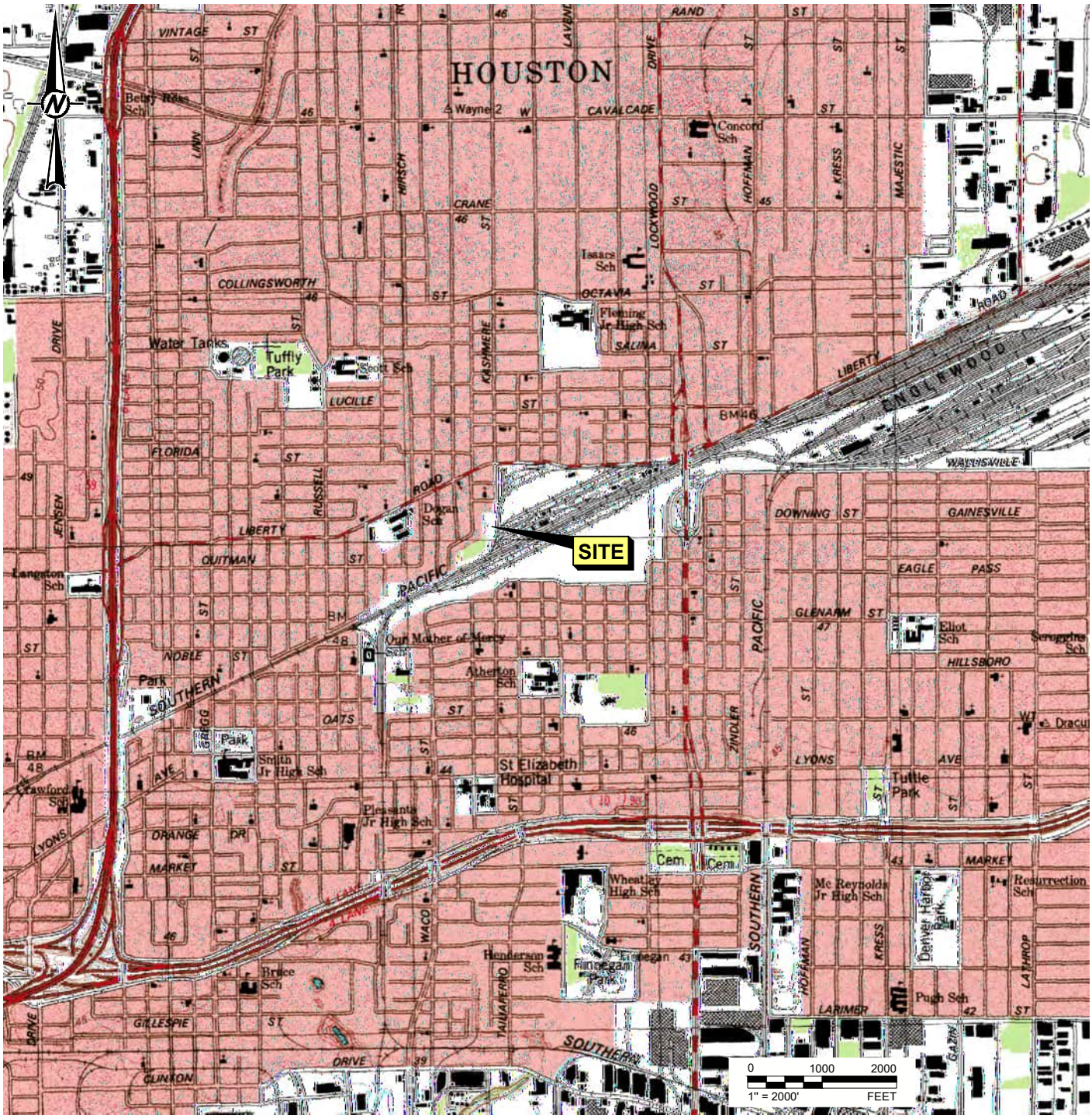
-- - No DNAPL pumped

* - Equipment malfunctioned on 9/19/2025. Water and NAPL levels were unable to be measured but product was present on the probe.

** - MW-11B was redeveloped on 12/17/2025. A small amount of NAPL was observed during redevelopment (on the bailer and walls of the purgewater storage tote) that didn't register on the interface probe. Approximately 95 gallons of water was removed during the redevelopment. An absorbent sock was deployed in MW-11B on 12/18/2025. No measureable NAPL was observed in the redevelopment water drums on 1/5/2026.

*** - Equipment malfunctioned on 1/21/2026. NAPL levels were unable to be measured but product was present on the probe.

Figures



REFERENCE(S)
BASE MAP TAKEN FROM U.S.G.S. 7.5 MINUTE QUADRANGLE, SETTEGAST, TEXAS, 1982



QUADRANGLE LOCATION

CLIENT
UNION PACIFIC RAILROAD CO.

PROJECT
HOUSTON WOOD PRESERVING WORKS

TITLE
SITE LOCATION MAP

CONSULTANT
wsp

YYYY-MM-DD	2024-06-28
DESIGNED	AJD
PREPARED	AJD
REVIEWED	AKS
APPROVED	MKW

PROJECT NO.
US0039040.4227

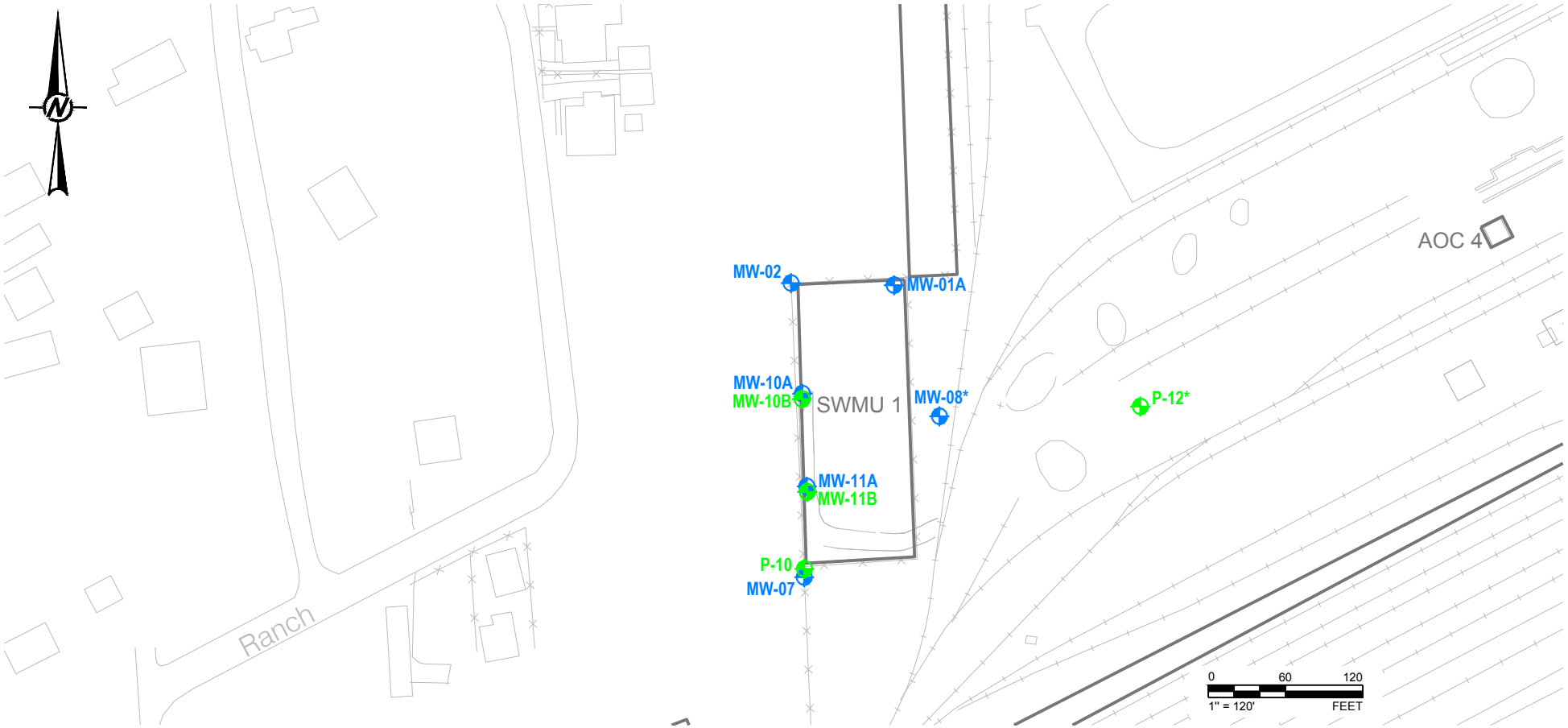
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FIGURE
1

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

- ROAD, PARKING LOT, SIDEWALK
- FENCE
- RAILROAD
- A-TZ MONITORING WELL LOCATION
- B-TZ MONITORING WELL LOCATION

NOTE(S)

1. * BACKGROUND WELL.

REFERENCE(S)

BASE MAP TAKEN FROM ERM-SOUTHWEST, INC 0014419A310.DWG, 6/19/2006.

CLIENT
UNION PACIFIC RAILROAD CO.

PROJECT
HOUSTON WOOD PRESERVING WORKS

TITLE
CORRECTIVE ACTION MONITORING WELL NETWORK
TCEQ PERMIT UNIT NO. 1

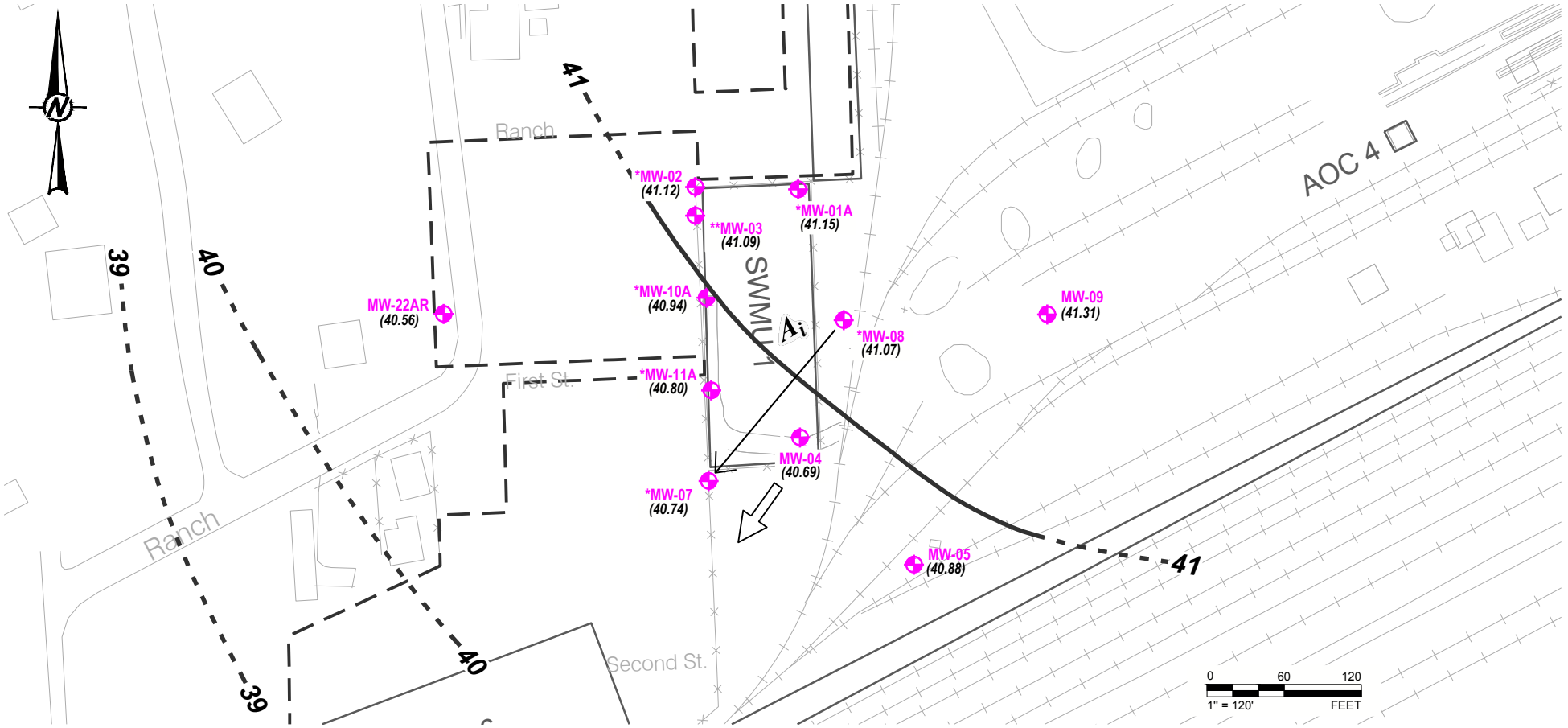
CONSULTANT

YYYY-MM-DD	2024-06-28
DESIGNED	AJD
PREPARED	AJD
REVIEWED	AKS
APPROVED	MKW

PROJECT NO. US0039040.4227 | REV. 0 | FIGURE 2

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI A
1 in
0

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LEGEND

- UPRR PROPERTY BOUNDARY
- ROAD, PARKING LOT, SIDEWALK
- FENCE
- RAILROAD
- A-TZ MONITORING WELL LOCATION (*-COMPLIANCE WELL)
- (45.25) GROUNDWATER ELEVATION (FT, HVD) (NM = NOT MEASURED)
- 45 GROUNDWATER ELEVATION CONTOUR (FT, HVD) C.I. = 1.0 FT (DASHED WHERE INFERRED)
- INFERRED GROUNDWATER FLOW DIRECTION

ESTIMATED GRADIENT

$A_i \rightarrow A_i = \frac{0.33\ ft}{166\ ft} = 0.0020\ ft/ft$

NOTE(S)

1. ** - DATA NOT USED TO DEVELOP POTENTIOMETRIC SURFACE.

REFERENCE(S)

BASE MAP TAKEN FROM ERM-SOUTHWEST, INC 0014419a310.DWG, 6/19/2006

STATE OF TEXAS
MATTHEW K. WICKHAM
GEOLOGY
LIC. # 5330
LICENSED
PROFESSIONAL GEOSCIENTIST

07/21/26

CLIENT
UNION PACIFIC RAILROAD CO.

PROJECT
HOUSTON WOOD PRESERVING WORKS

TITLE
A-TZ POTENTIOMETRIC SURFACE CONTOUR MAP JANUARY 2026

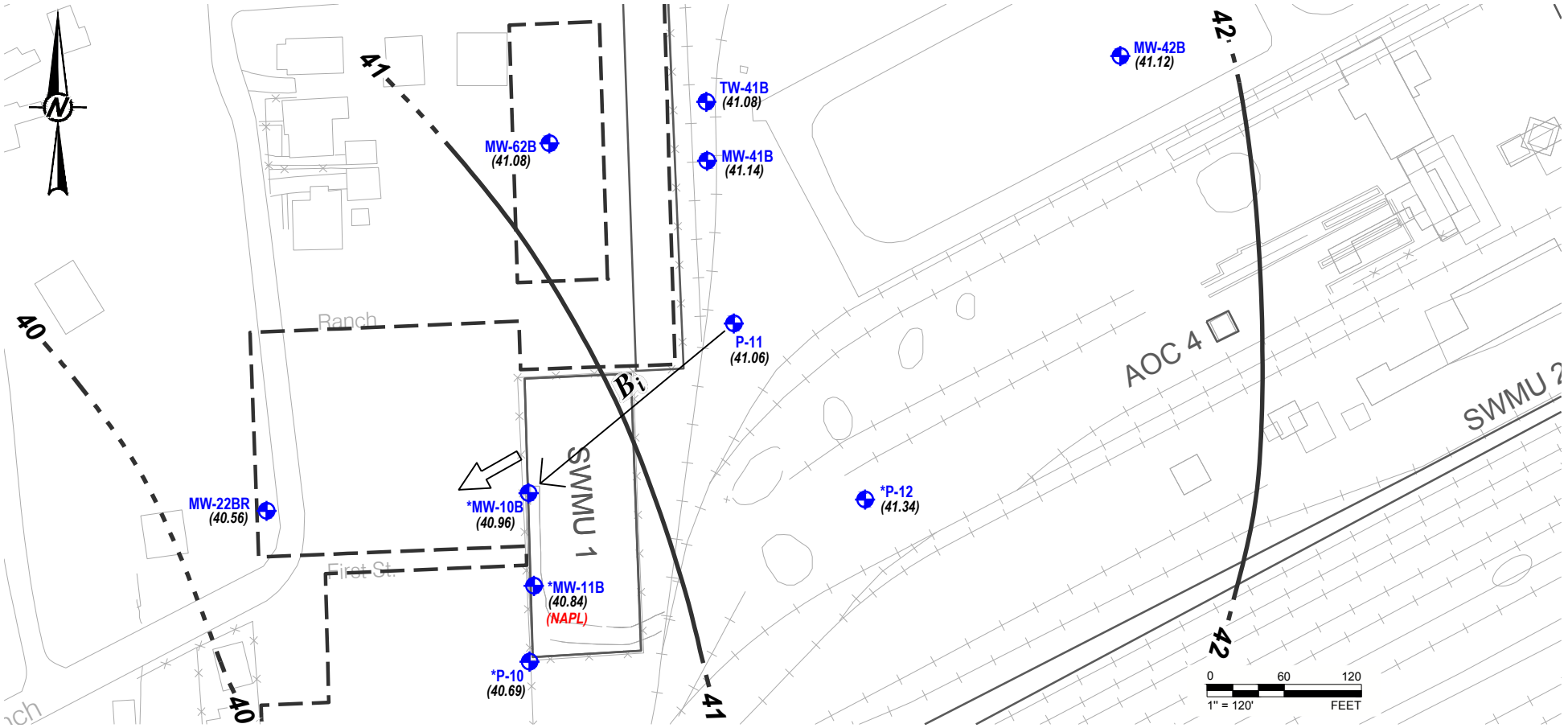
CONSULTANT
wsp
TEXAS GEOSCIENCE FIRM NO. 50561
TEXAS ENGINEERING FIRM NO. 2263

YYYY-MM-DD	2026-03-16
DESIGNED	AJD
PREPARED	AJD
REVIEWED	HCT
APPROVED	MKW

PROJECT NO. US0039040.4227 | REV. 0 | FIGURE 3

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI A
1 in
0

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LEGEND

- UPRR PROPERTY BOUNDARY
- ROAD, PARKING LOT, SIDEWALK
- FENCE
- RAILROAD
- B-TZ MONITORING WELL LOCATION (*-COMPLIANCE WELL)
- (44.27) GROUNDWATER ELEVATION (FT, HVD) (NM = NOT MEASURED)
- 45 GROUNDWATER ELEVATION CONTOUR (FT, HVD) C.I. = 1.0 FT (DASHED WHERE INFERRED)
- INFERRED GROUNDWATER FLOW DIRECTION
- (NAPL) NAPL - NON-AQUEOUS PHASE LIQUIDS DETECTED IN MONITORING WELL (DURING JANUARY 2026 SWMU 1 MONITORING EVENT)

ESTIMATED GRADIENT

$$B_i \rightarrow B_i = \frac{0.10\ ft}{210\ ft} = 0.0005\ ft/ft$$

STATE OF TEXAS
MATTHEW K. WICKHAM
GEOLOGY
LIC. # 5330
LICENSED
PROFESSIONAL GEOSCIENTIST

07/21/26

REFERENCE(S)

BASE MAP TAKEN FROM ERM-SOUTHWEST, INC 0014419a310.DWG, 6/19/2006

CLIENT
UNION PACIFIC RAILROAD CO.

PROJECT
HOUSTON WOOD PRESERVING WORKS

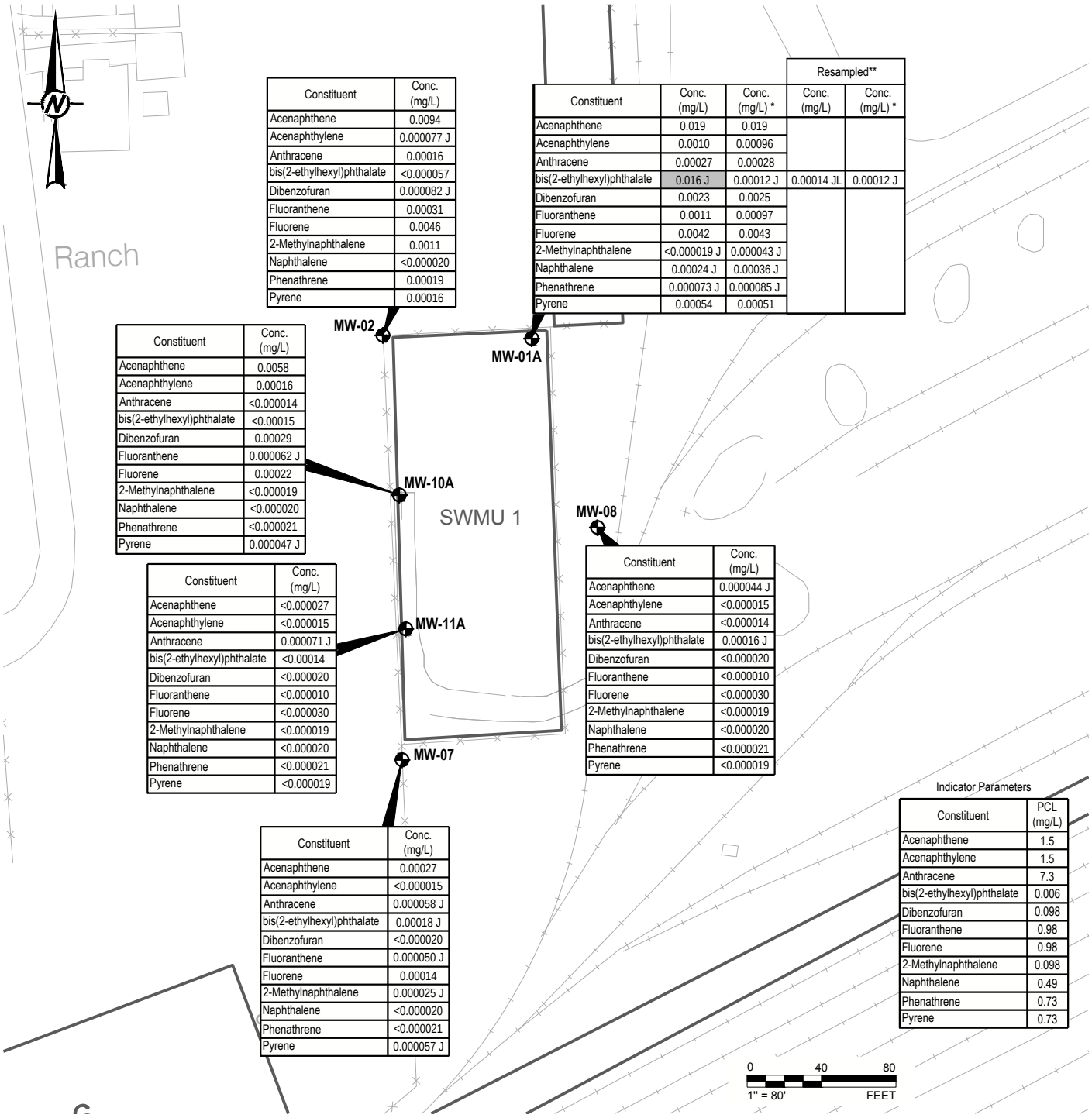
TITLE
B-TZ POTENTIOMETRIC SURFACE CONTOUR MAP JANUARY 2026

CONSULTANT
wsp
TEXAS GEOSCIENCE FIRM NO. 50561
TEXAS ENGINEERING FIRM NO. 2263

YYYY-MM-DD	2026-03-16
DESIGNED	AJD
PREPARED	AJD
REVIEWED	HCT
APPROVED	MKW

PROJECT NO. US0039040.4227 | REV. 0 | FIGURE 4

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI A
1 in
0



Constituent	Conc. (mg/L)
Acenaphthene	0.0094
Acenaphthylene	0.000077 J
Anthracene	0.00016
bis(2-ethylhexyl)phthalate	<0.000057
Dibenzofuran	0.000082 J
Fluoranthene	0.00031
Fluorene	0.0046
2-Methylnaphthalene	0.0011
Naphthalene	<0.000020
Phenathrene	0.00019
Pyrene	0.00016

Constituent	Conc. (mg/L)	Conc. (mg/L) *	Resampled** Conc. (mg/L)	Resampled** Conc. (mg/L) *
Acenaphthene	0.019	0.019		
Acenaphthylene	0.0010	0.00096		
Anthracene	0.00027	0.00028		
bis(2-ethylhexyl)phthalate	0.016 J	0.00012 J	0.00014 JL	0.00012 J
Dibenzofuran	0.0023	0.0025		
Fluoranthene	0.0011	0.00097		
Fluorene	0.0042	0.0043		
2-Methylnaphthalene	<0.000019 J	0.000043 J		
Naphthalene	0.00024 J	0.00036 J		
Phenathrene	0.000073 J	0.000085 J		
Pyrene	0.00054	0.00051		

Constituent	Conc. (mg/L)
Acenaphthene	0.0058
Acenaphthylene	0.00016
Anthracene	<0.000014
bis(2-ethylhexyl)phthalate	<0.00015
Dibenzofuran	0.00029
Fluoranthene	0.000062 J
Fluorene	0.00022
2-Methylnaphthalene	<0.000019
Naphthalene	<0.000020
Phenathrene	<0.000021
Pyrene	0.000047 J

Constituent	Conc. (mg/L)
Acenaphthene	<0.000027
Acenaphthylene	<0.000015
Anthracene	0.000071 J
bis(2-ethylhexyl)phthalate	<0.00014
Dibenzofuran	<0.000020
Fluoranthene	<0.000010
Fluorene	<0.000030
2-Methylnaphthalene	<0.000019
Naphthalene	<0.000020
Phenathrene	<0.000021
Pyrene	<0.000019

Constituent	Conc. (mg/L)
Acenaphthene	0.000044 J
Acenaphthylene	<0.000015
Anthracene	<0.000014
bis(2-ethylhexyl)phthalate	0.00016 J
Dibenzofuran	<0.000020
Fluoranthene	<0.000010
Fluorene	<0.000030
2-Methylnaphthalene	<0.000019
Naphthalene	<0.000020
Phenathrene	<0.000021
Pyrene	<0.000019

Constituent	Conc. (mg/L)
Acenaphthene	0.00027
Acenaphthylene	<0.000015
Anthracene	0.000058 J
bis(2-ethylhexyl)phthalate	0.00018 J
Dibenzofuran	<0.000020
Fluoranthene	0.000050 J
Fluorene	0.00014
2-Methylnaphthalene	0.000025 J
Naphthalene	<0.000020
Phenathrene	<0.000021
Pyrene	0.000057 J

Indicator Parameters

Constituent	PCL (mg/L)
Acenaphthene	1.5
Acenaphthylene	1.5
Anthracene	7.3
bis(2-ethylhexyl)phthalate	0.006
Dibenzofuran	0.098
Fluoranthene	0.98
Fluorene	0.98
2-Methylnaphthalene	0.098
Naphthalene	0.49
Phenathrene	0.73
Pyrene	0.73

LEGEND

- FENCE
- RAILROAD
- A-TZ MONITORING WELL LOCATION

NOTE(S)

1. SAMPLES COLLECTED IN JAN 2026.
2. J = ESTIMATED VALUE BETWEEN SQL AND MDL.
3. < = VALUE NOT DETECTED GREATER THAN MDL.
4. * = FIELD DUPLICATE.
5. ** = RESAMPLED ON 2/6/2026.

REFERENCE(S)

BASE MAP TAKEN FROM ERM-SOUTHWEST, INC 0014419a310.DWG, 6/19/2006.

CLIENT
UNION PACIFIC RAILROAD CO.

PROJECT
HOUSTON WOOD PRESERVING WORKS

TITLE
A-TZ REPORTED CONCENTRATIONS
2026 1ST SEMI-ANNUAL MONITORING EVENT

CONSULTANT

TEXAS GEOSCIENCE FIRM NO. 50561
TEXAS ENGINEERING FIRM NO. 2263

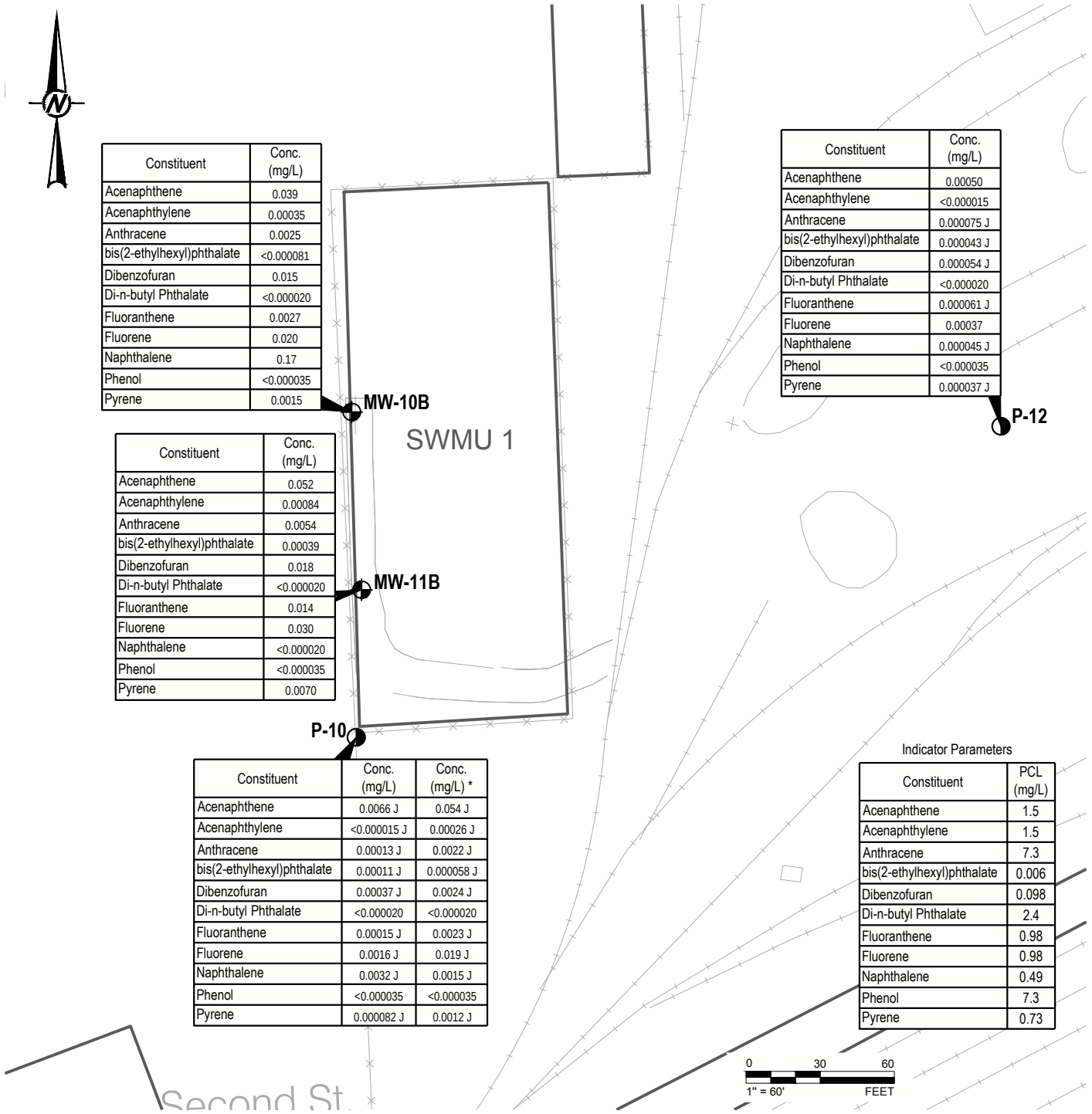
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DESIGNED	AJD
PREPARED	HT
REVIEWED	AKS
APPROVED	MKW

PROJECT NO. US0039040.3990 | REV. 0 | FIGURE 5

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

0 1 in

Last Edited By: adiamond Date: 2023-12-04 Time:1:46:55 PM | Printed By: adiamond Date: 2025-08-06
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Constituent	Conc. (mg/L)
Acenaphthene	0.039
Acenaphthylene	0.00035
Anthracene	0.0025
bis(2-ethylhexyl)phthalate	<0.000081
Dibenzofuran	0.015
Di-n-butyl Phthalate	<0.000020
Fluoranthene	0.0027
Fluorene	0.020
Naphthalene	0.17
Phenol	<0.000035
Pyrene	0.0015

Constituent	Conc. (mg/L)
Acenaphthene	0.052
Acenaphthylene	0.00084
Anthracene	0.0054
bis(2-ethylhexyl)phthalate	0.00039
Dibenzofuran	0.018
Di-n-butyl Phthalate	<0.000020
Fluoranthene	0.014
Fluorene	0.030
Naphthalene	<0.000020
Phenol	<0.000035
Pyrene	0.0070

Constituent	Conc. (mg/L)	Conc. (mg/L) *
Acenaphthene	0.0066 J	0.054 J
Acenaphthylene	<0.000015 J	0.00026 J
Anthracene	0.00013 J	0.0022 J
bis(2-ethylhexyl)phthalate	0.00011 J	0.000058 J
Dibenzofuran	0.00037 J	0.0024 J
Di-n-butyl Phthalate	<0.000020	<0.000020
Fluoranthene	0.00015 J	0.0023 J
Fluorene	0.0016 J	0.019 J
Naphthalene	0.0032 J	0.0015 J
Phenol	<0.000035	<0.000035
Pyrene	0.000082 J	0.0012 J

Constituent	Conc. (mg/L)
Acenaphthene	0.00050
Acenaphthylene	<0.000015
Anthracene	0.000075 J
bis(2-ethylhexyl)phthalate	0.000043 J
Dibenzofuran	0.000054 J
Di-n-butyl Phthalate	<0.000020
Fluoranthene	0.000061 J
Fluorene	0.00037
Naphthalene	0.000045 J
Phenol	<0.000035
Pyrene	0.000037 J

Indicator Parameters

Constituent	PCL (mg/L)
Acenaphthene	1.5
Acenaphthylene	1.5
Anthracene	7.3
bis(2-ethylhexyl)phthalate	0.006
Dibenzofuran	0.098
Di-n-butyl Phthalate	2.4
Fluoranthene	0.98
Fluorene	0.98
Naphthalene	0.49
Phenol	7.3
Pyrene	0.73

LEGEND

- FENCE
- RAILROAD
- B-TZ MONITORING WELL LOCATION
- PIEZOMETER LOCATION

NOTE(S)

1. SAMPLES COLLECTED IN JAN 2026.
2. J = ESTIMATED VALUE BETWEEN SQL AND MDL.
3. JL = ESTIMATED VALUE BETWEEN SQL AND MDL; BIASED LOW.
4. R = VALUE NOT DETECTED GRATER THAN MDL; REJECTED.
5. < = VALUE NOT DETECTED GREATER THAN MDL.
6. * = FIELD DUPLICATE.

REFERENCE(S)

BASE MAP TAKEN FROM ERM-SOUTHWEST, INC 0014419a310.DWG, 6/19/2006.

CLIENT
UNION PACIFIC RAILROAD CO.

PROJECT
HOUSTON WOOD PRESERVING WORKS

TITLE
B-TZ REPORTED CONCENTRATIONS
2026 1ST SEMI-ANNUAL MONITORING EVENT

CONSULTANT
wsp
TEXAS GEOSCIENCE FIRM NO. 50561
TEXAS ENGINEERING FIRM NO. 2263

YYYY-MM-DD	2026-03-16
DESIGNED	AJD
PREPARED	HT
REVIEWED	AKS
APPROVED	MKW

PROJECT NO. US0039040.3990 | REV. 0 | FIGURE 6

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

Last Edited By: adiamond Date: 2023-12-04 Time:1:50:59 PM | Printed By: adiamond Date: 2024-01-03 Time:9:22:28 AM
Path: \\golder.gds\complexdata\office\Texarkana\Projects - Round Rock_2019\19119232 - HWPWD-Semi-Annual Monitoring Event\SWMU Figures\2023 - 2nd Semi-Annual\ | File Name: 006 - B-TZ Reported Concentrations 2023 2nd SAME.dwg

APPENDIX A

Compliance Plan Tables

TABLE III - CORRECTIVE ACTION PROGRAM
Table of Detected Hazardous and Solid Waste Constituents and
Concentration Limits for the Ground-Water Protection Standard

Closed Surface Impoundment (NOR Unit No. 001, SWMU No. 01)

A-Transmissive Zone		B-Transmissive Zone	
COLUMN A Hazardous Constituents	COLUMN B Concentration Limits (mg/l)	COLUMN A Hazardous Constituents	COLUMN B Concentration Limits (mg/l)
Acenaphthene	1.5[PCL]	Acenaphthene	1.5[PCL]
Acenaphthylene	1.5[PCL]	Acenaphthylene	1.5[PCL]
Anthracene	7.3[PCL]	Anthracene	7.3[PCL]
Dibenzofuran	0.098[PCL]	Dibenzofuran	0.098[PCL]
Bis(2-ethylhexyl)phthalate	0.006[PCL]	Bis(2-ethylhexyl)phthalate	0.006[PCL]
Fluoranthene	0.98[PCL]	Fluoranthene	0.98[PCL]
Fluorene	0.98[PCL]	Fluorene	0.98[PCL]
2-Methylnaphthalene	0.098[PCL]	Di-n-butyl phthalate	2.4[PCL]
Naphthalene	0.49[PCL]	Naphthalene	0.49[PCL]
Phenanthrene	0.73[PCL]	Phenol	7.3[PCL]
Pyrene	0.73[PCL]	Pyrene	0.73[PCL]

PCL Alternate Concentration Limit pursuant to 30 TAC §335.160(b) based upon the Protective Concentration Level determined under 30 TAC Chapter 350 for Residential Land Use. The PCL value, Column B, will change as updates to the rule are promulgated. Changes to the rule automatically change the concentration value established in Column B in this table.

TABLE V
Designation of Wells by Function

POINT OF COMPLIANCE WELLS

1. Closed Surface Impoundment (NOR Unit No. 001, SWMU No. 01)
A-Transmissive Zone: MW-01A, MW-02, MW-07, MW-10A, and MW-11A
B-Transmissive Zone: MW-10B, MW-11B, and P-10

POINT OF EXPOSURE WELLS

1. Closed Surface Impoundment (NOR Unit No. 001, SWMU No. 01)
None

BACKGROUND WELLS

1. Closed Surface Impoundment (NOR Unit No. 001, SWMU No. 01)
A-Transmissive Zone: MW-8
B-Transmissive Zone: P-12

Note: Wells and piezometers identified on Attachment A maps that are not listed in this table are subject to change, upon approval by the executive director, without modification to the Compliance Plan. The wells and piezometers for the Closed Surface Impoundment are depicted on Attachment A, Sheets 3 and 4.

APPENDIX B

Field Parameters

Table B-1
Groundwater Sampling Field Parameters
Semiannual Monitoring Report: 2026 First Semi-Annual Event

Houston Wood Preserving Works
Houston, Texas

Field Parameter	Monitoring Well IDs										
	A-Transmissive Zone							B-Transmissive Zone			
	MW-01A	MW-01A	MW-02	MW-07	MW-08	MW-10A	MW-11A	MW-10B	MW-11B	P-10	P-12
	1/6/2026	2/6/2026	1/5/2026	1/6/2026	1/6/2026	1/5/2026	1/5/2026	1/5/2026	1/5/2026	1/6/2026	1/6/2026
Time Sampled (hrs CST)	10:15	12:30	14:30	11:20	13:37	13:48	11:50	13:20	10:41	11:58	14:45
Temperature (ºC)	23.42	24.33	24.96	23.18	24.69	24.85	25.03	25.26	22.31	24.52	26.17
pH (Standard Units)	6.36	6.36	6.64	6.49	6.73	6.83	6.84	6.54	6.41	6.46	6.42
Specific Conductivity (mmhos/cm)	1.07	1.06	0.860	0.843	0.405	0.924	0.734	1.11	0.969	1.06	1.14
Dissolved Oxygen (mg/L)	0.12	0.09	0.00	3.52	2.50	0.18	2.36	0.09	0.15	0.10	1.12
Turbidity (NTU)	20.3	19.0	9.5	1.3	1.0	0.0	0.0	0.0	4.1	1.1	8.4

APPENDIX C

Laboratory Analytical Reports and Data Usability Summaries

Data Validation Report

January 26, 2026
Revision_01: March 19, 2026

To	Matthew Wickham [matthew.wickham@wsp.com]	**Project No.**	12653513 06.1620
Copy to	Jesse Orth	**DVR No.**	287_Rev01
From	Chris G. Knight/eew	**Contact No.**	512-777-5833
Project Name	UPRR - Various Data Mgmt.	**Email**	christopher.knight@ghd.com
Subject	Data Usability Summary HWPW - Semiannual SWMU 1 Groundwater Monitoring Union Pacific Railroad (UPRR)/Houston TX-Wood Preserving Works Houston, Texas January-February 2026		

The services undertaken by GHD in connection with preparing this report were limited to those specifically detailed in the report and are subject to the scope limitations set out in the report.

1. Scope of Data Usability Summary

This document details a Data Usability Summary (DUS) of analytical results for samples collected in support of the HWPW - Semiannual SWMU 1 Groundwater Monitoring at the UPRR/Houston TX-Wood Preserving Works site during January-February 2026. Samples were submitted to ALS Global, located in Houston, Texas and are reported in data packages HS26010095 and HS26020184. The intended use of the data is to support the HWPW - Semiannual SWMU 1 Groundwater Monitoring at the site by providing current concentrations of chemicals of concern.

Data were reviewed and validated by Chris G. Knight of GHD Services Inc. (GHD)., in accordance with Title 30 of the Texas Risk Reduction Program (TRRP) 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, finished report forms, method blank data, recovery data from surrogate spikes/laboratory control samples (LCS)/matrix spikes (MS), field quality assurance/quality control (QA/QC) samples, the laboratory review checklist (LRC), and the laboratory exception reports (ER).

A sample collection and analysis summary are 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. Each data package includes a cross-reference list of field sample identifications to laboratory sample designations.

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 # TX-C25-00104at 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 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 and MS analyses.

4. Data Review/Validation Results

4.1 Sample Holding Time and Preservation

Samples were shipped with chains of custody, and the paperwork was filled out properly.

i.) HS26010095: WG-1620-P-10-20260106 was submitted with different times on the sample containers than what was listed on the chain of custody. The time listed on the chain of custody was used when the sample was logged in. No further action was required.

ii.) HS26020184: WG-1620-MW-01A-20260206 was submitted with different times on the sample containers than what was listed on the chain of custody. The time listed on the sample container was used when the sample was logged in. No further action was required

All samples were properly preserved, delivered on ice, and stored by the laboratory at the required temperature (0-6°C).

Sample chain of custody documents and analytical report were used to determine sample holding times. All samples were prepared and analyzed within the required holding time.

4.2 Sample Containers

Sample containers used were certified pre-cleaned glass 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 methods.

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 managed in the field, these blanks are not listed on the sample identification cross-reference list found in the data packages.

For this summary, laboratory method blanks were analyzed at a minimum frequency of 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 (IS) are addressed in the LRC of the data packages. All IS 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 organic determinations are spiked with the appropriate number of surrogate compounds prior to sample extraction and 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 if the recovery is at least ten percent.

Surrogate recoveries were assessed against laboratory control limits and/or the guidance in TRRP-13. Samples analyzed at elevated sample dilutions (five times or greater) were not assessed. Most surrogate recoveries met the above criteria. The following outlier was noted:

i.) WG-1620-MW-01A-20260206 was reported with a low surrogate recovery for semi-volatile organic compounds (SVOCs) determinations. The associated detected sample result was qualified as estimated; biased low (JL) and is presented in Table 4.

4.6 Laboratory Control Sample Analyses

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.

For this study, LCS or LCS/LCSD were analyzed at a minimum frequency of one per analytical batch.

The LCS contained all compounds of interest. All LCS recoveries were within the laboratory control limits, demonstrating acceptable analytical accuracy and/or precision (where applicable).

4.7 Matrix Spike Analyses

To evaluate the effects of sample matrices on the preparation process, measurement procedures, and accuracy of a particular analysis, samples are spiked with a known concentration of the analytes of concern and analyzed as MS/matrix spike duplicate (MSD) samples. The RPD between the MS and MSD is used to assess analytical precision.

The MS/MSD samples were spiked with all compounds of interest. All percent recoveries and RPD values were within the laboratory control limits, demonstrating acceptable analytical accuracy and precision.

The laboratory also performed additional MS/MSD analyses on non-site samples. These cannot be used to assess accuracy and precision for the site samples.

4.8 Field QA/QC Samples

The field QA/QC consisted of two field blank samples and three field duplicate sample sets.

Field Blank Sample Analysis

To assess ambient conditions at the site, two field blank samples were submitted for analysis. Most results were non-detect for the compounds of interest. The following detection was noted:

i.) WG-1620-FB02-20260105 was reported with a detection for bis(2-ethylhexyl)phthalate (DEHP). One associated sample result was significantly greater in concentration then the field bank detection and was not affected. No further action was required. The remaining associated sample results were reported with similar concentrations to the field blank detection and were qualified as non-detect. These data are presented in Table 5.

Field Duplicate Sample Analysis

To assess the analytical and sampling protocol precision, three field duplicate sample sets were collected and submitted 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. Some field duplicate results met the above criteria demonstrating acceptable sampling and analytical precision. The following outliers were noted:

i.) WG-1620-MW-01A-20260106 and WG-1620-FD01-20260106 were reported with variability in the following compounds: 2-methylnaphthalene, DEHP, and naphthalene. All associated sample were qualified as estimated (J) and are presented in Table 6.

ii.) WG-1620-P-10-20260106 and WG-1620-FD02-20260106 were reported with variability in most compounds. All associated sample results were qualified as estimated (J) and are presented in Table 6.

4.9 Field Procedures

WSP USA, Inc. collected groundwater samples in accordance with their Standard Operating Procedures (SOP) for sample collection.

4.10 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 report.

All detectability check standard (DCS) results supported the laboratory MDLs.

5. Conclusion

Based on the assessment detailed in the foregoing, the analytical data summarized in Table 2 are usable for the purpose of supporting the HWPW - Semiannual SWMU 1 Groundwater Monitoring at the site with the specific qualifications noted herein.

Regards,



Chris G. Knight
NA Environmental – Central/Chemistry Data Validator/Analytical Coordinator/Chemistry Team Lead

Table 1

Sample Collection and Analysis Summary
HWPW - Semiannual SWMU 1 Groundwater Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
January-February 2026

					Analysis/Parameters	
Sample Identification	**Location**	**Matrix**	**Collection Date (mm/dd/yyyy)**	**Collection Time (hr:min)**	**SVOCs**	**Comments**
WG-1620-MW-11B-20260105	MW-11B	Water	01/05/2026	10:41	X	
WG-1620-MW-11A-20260105	MW-11A	Water	01/05/2026	11:50	X	
WG-1620-MW-10B-20260105	MW-10B	Water	01/05/2026	13:20	X	
WG-1620-MW-10A-20260105	MW-10A	Water	01/05/2026	13:48	X	
WG-1620-MW-02-20260105	MW-02	Water	01/05/2026	14:30	X	
WG-1620-FB01-20260105	-	Water	01/05/2026	14:50	X	Field Blank
WG-1620-FB02-20260105	-	Water	01/05/2026	15:05	X	Field Blank
WG-1620-MW-01A-20260106	MW-01A	Water	01/06/2026	10:15	X	
WG-1620-FD01-20260106	MW-01A	Water	01/06/2026	10:15	X	Field duplicate of MW-01A
WG-1620-P-10-20260106	P-10	Water	01/06/2026	10:58	X	
WG-1620-FD02-20260106	P-10	Water	01/06/2026	10:58	X	Field duplicate of P-10
WG-1620-MW-07-20260106	MW-07	Water	01/06/2026	11:20	X	
WG-1620-MW-08-20260106	MW-08	Water	01/06/2026	13:37	X	
WG-1620-P-12-20260106	P-12	Water	01/06/2026	14:45	X	MS/MSD

Table 1

Sample Collection and Analysis Summary
HWPW - Semiannual SWMU 1 Groundwater Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
January-February 2026

					Analysis/Parameters	
Sample Identification	**Location**	**Matrix**	**Collection Date (mm/dd/yyyy)**	**Collection Time (hr:min)**	**SVOCs**	**Comments**
WG-1620-MW-01A-20260206	MW-01A	Water	02/06/2026	12:30	X	
WG-1620-FD01-20260206	MW-01A	Water	02/06/2026	12:45	X	Field duplicate of MW-01A

Notes:

SVOCs - Semi-volatile Organic Compounds
MS/MSD - Matrix Spike/Matrix Spike Duplicate
"-" - Not Applicable

Table 2

Analytical Results Summary
HWPW - Semiannual SWMU 1 Groundwater Monitoring
Union Pacific Railroad (UPRR)/Houston TX-Wood Preserving Works
Houston, Texas
January-February 2026

Location ID:		MW-01A	MW-01A	MW-01A	MW-01A	MW-02
Sample Name:		WG-1620-MW-01A-20260106	WG-1620-FD01-20260106	WG-1620-MW-01A-20260206	WG-1620-FD01-20260206	WG-1620-MW-02-20260105
Sample Date:		01/06/2026	01/06/2026	02/06/2026	02/06/2026	01/05/2026
			Duplicate		Duplicate	
Parameters	**Unit**					
Semi-volatile Organic Compounds						
2-Methylnaphthalene	mg/L	<0.000019 J	0.000043 J	--	--	0.0011
Acenaphthene	mg/L	0.019	0.019	--	--	0.0094
Acenaphthylene	mg/L	0.0010	0.00096	--	--	0.000077 J
Anthracene	mg/L	0.00027	0.00028	--	--	0.00016
bis(2-Ethylhexyl)phthalate (DEHP)	mg/L	0.016 J	0.00012 J	0.00014 JL	0.00012 J	<0.000057
Di-n-butylphthalate (DBP)	mg/L	--	--	--	--	--
Dibenzofuran	mg/L	0.0023	0.0025	--	--	0.000082 J
Fluoranthene	mg/L	0.0011	0.00097	--	--	0.00031
Fluorene	mg/L	0.0042	0.0043	--	--	0.0046
Naphthalene	mg/L	0.00024 J	0.00036 J	--	--	<0.000020
Phenanthrene	mg/L	0.000073 J	0.000085 J	--	--	0.00019
Phenol	mg/L	--	--	--	--	--
Pyrene	mg/L	0.00054	0.00051	--	--	0.00016

Analytical Results Summary
HWPW - Semiannual SWMU 1 Groundwater Monitoring
Union Pacific Railroad (UPRR)/Houston TX-Wood Preserving Works
Houston, Texas
January-February 2026

Location ID:		MW-07	MW-08	MW-10A	MW-10B
Sample Name:		WG-1620-MW-07-20260106	WG-1620-MW-08-20260106	WG-1620-MW-10A-20260105	WG-1620-MW-10B-20260105
Sample Date:		01/06/2026	01/06/2026	01/05/2026	01/05/2026
Parameters	**Unit**				
Semi-volatile Organic Compounds					
2-Methylnaphthalene	mg/L	0.000025 J	<0.000019	<0.000019	--
Acenaphthene	mg/L	0.00027	0.000044 J	0.0058	0.039
Acenaphthylene	mg/L	<0.000015	<0.000015	0.00016	0.00035
Anthracene	mg/L	0.000058 J	<0.000014	<0.000014	0.0025
bis(2-Ethylhexyl)phthalate (DEHP)	mg/L	0.00018 J	0.00016 J	<0.00015	<0.000081
Di-n-butylphthalate (DBP)	mg/L	--	--	--	<0.000020
Dibenzofuran	mg/L	<0.000020	<0.000020	0.00029	0.015
Fluoranthene	mg/L	0.000050 J	<0.000010	0.000062 J	0.0027
Fluorene	mg/L	0.00014	<0.000030	0.00022	0.020
Naphthalene	mg/L	<0.000020	<0.000020	<0.000020	0.17
Phenanthrene	mg/L	<0.000021	<0.000021	<0.000021	--
Phenol	mg/L	--	--	--	<0.000035
Pyrene	mg/L	0.000057 J	<0.000019	0.000047 J	0.0015

Analytical Results Summary
HWPW - Semiannual SWMU 1 Groundwater Monitoring
Union Pacific Railroad (UPRR)/Houston TX-Wood Preserving Works
Houston, Texas
January-February 2026

Location ID:		MW-11A	MW-11B	P-10	P-10	P-12
Sample Name:		WG-1620-MW-11A-20260105	WG-1620-MW-11B-20260105	WG-1620-P-10-20260106	WG-1620-FD02-20260106	WG-1620-P-12-20260106
Sample Date:		01/05/2026	01/05/2026	01/06/2026	01/06/2026	01/06/2026
					Duplicate	
Parameters	**Unit**					
Semi-volatile Organic Compounds						
2-Methylnaphthalene	mg/L	<0.000019	--	--	--	--
Acenaphthene	mg/L	<0.000027	0.052	0.0066 J	0.054 J	0.00050
Acenaphthylene	mg/L	<0.000015	0.00084	<0.000015 J	0.00026 J	<0.000015
Anthracene	mg/L	0.000071 J	0.0054	0.00013 J	0.0022 J	0.000075 J
bis(2-Ethylhexyl)phthalate (DEHP)	mg/L	<0.00014	0.00039	0.00011 J	0.000058 J	0.000043 J
Di-n-butylphthalate (DBP)	mg/L	--	<0.000020	<0.000020	<0.000020	<0.000020
Dibenzofuran	mg/L	<0.000020	0.018	0.00037 J	0.0024 J	0.000054 J
Fluoranthene	mg/L	<0.000010	0.014	0.00015 J	0.0023 J	0.000061 J
Fluorene	mg/L	<0.000030	0.030	0.0016 J	0.019 J	0.00037
Naphthalene	mg/L	<0.000020	<0.000020	0.0032 J	0.0015 J	0.000045 J
Phenanthrene	mg/L	<0.000021	--	--	--	--
Phenol	mg/L	--	<0.000035	<0.000035	<0.000035	<0.000035
Pyrene	mg/L	<0.000019	0.0070	0.000082 J	0.0012 J	0.000037 J

Notes:

< - Not detected at the associated reporting limit

J - Estimated concentration

JL - Estimated concentration; biased low

"--" - Not analyzed

Table 3

Analytical Methods
HWPW - Semiannual SWMU 1 Groundwater Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
January-February 2026

Parameter	Method	Matrix	Holding Time	
			Collection to Extraction (Days)	Extraction to Analysis (Days)
SVOCs	SW-846 8270D	Water	7	40

Notes:

SVOCs - Semi-volatile Organic Compounds

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 - Semiannual SWMU 1 Groundwater Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
January-February 2026

Parameter	Sample ID	Surrogate	Surrogate % Recovery	Control Limits % Recovery	Analyte	Qualified Result		Units
SVOCs	WG-1620-MW-01A-20260206	2,4,6-Tribromophenol	5.76	34-129	bis(2-Ethylhexyl)phthalate (DEHP)	0.00014	JL	mg/L

Notes:

SVOCs - Semi-volatile Organic Compounds
JL - Estimated concentration; baised low

Table 5

Qualified Sample Data Due to Analyte Concentrations in the Field Blank
HWPW - Semiannual SWMU 1 Groundwater Monitoring
Union Pacific Railroad (UPRR)/Houston, TX-Wood Preserving Works
Houston, Texas
January-February 2026

Parameter	Field Blank ID	Blank Date (mm/dd/yyyy)	Analyte	Blank Result	Associated Sample ID	Original Result	Qualified Result	Units
SVOCs	WG-1620-FB02-20260105	01/05/2026	bis(2-Ethylhexyl)phthalate (DEHP)	0.000044 J	WG-1620-MW-02-20260105	0.000057 J	<0.000057	mg/L
					WG-1620-MW-10A-20260105	0.00015 J	<0.00015	mg/L
					WG-1620-MW-10B-20260105	0.000081 J	<0.000081	mg/L
					WG-1620-MW-11A-20260105	0.00014 J	<0.00014	mg/L

Notes:

SVOCs - Semi-volatile Organic Compounds
< - Not detected at the associated reporting limit
J - Estimated concentration

Table 6

Qualified Sample Data Due to Variability in Field Duplicate Results
HWPW - Semiannual SWMU 1 Groundwater Monitoring
Union Pacific Railroad (UPRR)/Houston TX-Wood Preserving Works
Houston, Texas
January-February 2026

Parameter	Analyte	RPD	Diff	Sample ID	Qualified Result	Field Duplicate Sample ID	Qualified Result	Units
SVOCs	2-Methylnaphthalene	77.4	0.000024	WG-1620-MW-01A-20260106	<0.000019 J	WG-1620-FD01-20260106	0.000043 J	mg/L
	bis(2-Ethylhexyl)phthalate (DEHP)	102	0.00025		<0.00037 J		0.00012 J	mg/L
	Naphthalene	40.0	0.00012		0.00024 J		0.00036 J	mg/L
SVOCs	Acenaphthene	156	0.0474	WG-1620-P-10-20260106	0.0066 J	WG-1620-FD02-20260106	0.054 J	mg/L
	Acenaphthylene	178	0.000245		<0.000015 J		0.00026 J	mg/L
	Anthracene	177	0.00207		0.00013 J		0.0022 J	mg/L
	bis(2-Ethylhexyl)phthalate (DEHP)	61.9	0.000052		0.00011 J		0.000058 J	mg/L
	Dibenzofuran	146	0.00203		0.00037 J		0.0024 J	mg/L
	Fluoranthene	175	0.00215		0.00015		0.0023	mg/L
	Fluorene	168	0.0174		0.0016 J		0.019 J	mg/L
	Naphthalene	72.3	0.0017		0.0032 J		0.0015 J	mg/L
	Pyrene	174	0.001118		0.000082 J		0.0012 J	mg/L

Notes:

RPD - Relative Percent Difference
Diff - Difference
SVOCs - Semi-volatile Organic Compounds
< - Not detected at the associated reporting limit
J - Estimated concentration

Attachment A

Laboratory NELAP Certificate

Texas Commission on Environmental Quality

Certificate of Accreditation

Accreditation is hereby granted to

ALS Laboratory Group, Environmental Services Division (Houston, Texas)

10450 Stancliff Road, Suite 210,
Houston, TX 77099-4338

State Lab ID: T104704231
Effective Date: 05/01/2025
Expiration Date: 04/30/2026
Certificate ID: TX-C25-00104

Conditions of Accreditation

This laboratory has been found to conform with TCEQ rules and applicable standards for laboratory accreditation. The scope of accreditation is limited to the Fields of Accreditation (FoA) specifically listed on the subsequent page(s) of this certificate. Accreditation is for all version of a method approved per 40 CFR 136, 40 CFR 141, and/ or 40 CFR 143. Continued accreditation requires ongoing compliance with all applicable standards and requirements.

Note: For the attached FoA table, matrices may include DW (drinking water), NPW (non-potable water), S (solid and chemical materials), A (air), and/ or BT (biological tissue).

Issued By: Kelly Keel, Executive Director Texas Commission on Environmental Quality
Date Issued: 05/01/2025

10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887

January 13, 2026

Manny Higa
WSP Austin
1601 S. MoPac Expressway
Suite 325D
Austin, TX 78746

Work Order: **HS26010095**

Laboratory Results for: **Houston TX-Wood Preserving Works**

Dear Manny Higa ,

ALS Environmental received 14 sample(s) on Jan 07, 2026 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,

Alexis Dorenbosch

Generated By: JUMOKE.LAWAL
Alexis Dorenbosch
Project Manager

Client:	WSP Austin	**TRRP Laboratory Data Package Cover Page**
Project:	Houston TX-Wood Preserving Works	
WorkOrder:	**HS26010095**	

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:	WSP Austin
Project:	Houston TX-Wood Preserving Works
WorkOrder:	**HS26010095**

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.



Alexis Dorenbosch
Project Manager

Laboratory Review Checklist: Reportable Data								
Laboratory Name: ALS Laboratory Group			LRC Date: 01/12/2026					
Project Name: Houston TX-Wood Preserving Works			Laboratory Job Number: HS26010095					
Reviewer Name: Alexis Dorenbosch			Prep Batch Number(s): 237288					
#[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					
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				3	
		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: 01/12/2026				
Project Name: Houston TX-Wood Preserving Works			Laboratory Job Number: HS26010095				
Reviewer Name: Alexis Dorenbosch			Prep Batch Number(s): 237288				
#[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: 01/12/2026
Project Name: Houston TX-Wood Preserving Works	Laboratory Number: HS26010095
Reviewer Name: Alexis Dorenbosch	Prep Batch Number(s): 237288

ER#[5]	Description
1	Semivolatiles Method SW8270, sample WG-1620-MW-10B-20260105, the surrogate recoveries could not be determined due to dilution below the calibration range.
2	Batch 237288, Semivolatiles Method SW8270, sample WG-1620-P-12-20260106, MS and MSD recovered outside the control limit for Di-n-butyl phthalate
3	Log In Notes: Different Time collection on the WG-1620-P-10-20260106 on the chain

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: WSP Austin
Project: Houston TX-Wood Preserving Works
Work Order: HS26010095

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS26010095-01	WG-1620-MW-11B-20260105	Groundwater		05-Jan-2026 10:41	07-Jan-2026 09:04	☐
HS26010095-02	WG-1620-MW-11A-20260105	Groundwater		05-Jan-2026 11:50	07-Jan-2026 09:04	☐
HS26010095-03	WG-1620-MW-10B-20260105	Groundwater		05-Jan-2026 13:20	07-Jan-2026 09:04	☐
HS26010095-04	WG-1620-MW-10A-20260105	Groundwater		05-Jan-2026 13:48	07-Jan-2026 09:04	☐
HS26010095-05	WG-1620-MW-02-20260105	Groundwater		05-Jan-2026 14:30	07-Jan-2026 09:04	☐
HS26010095-06	WG-1620-FB01-20260105	Water		05-Jan-2026 14:50	07-Jan-2026 09:04	☐
HS26010095-07	WG-1620-FB02-20260105	Water		05-Jan-2026 15:05	07-Jan-2026 09:04	☐
HS26010095-08	WG-1620-MW-01A-20260106	Groundwater		06-Jan-2026 10:15	07-Jan-2026 09:04	☐
HS26010095-09	WG-1620-MW-07-20260106	Groundwater		06-Jan-2026 11:20	07-Jan-2026 09:04	☐
HS26010095-10	WG-1620-MW-08-20260106	Groundwater		06-Jan-2026 13:37	07-Jan-2026 09:04	☐
HS26010095-11	WG-1620-P-10-20260106	Groundwater		06-Jan-2026 10:58	07-Jan-2026 09:04	☐
HS26010095-12	WG-1620-P-12-20260106	Groundwater		06-Jan-2026 14:45	07-Jan-2026 09:04	☐
HS26010095-13	WG-1620-FD01-20260106	Groundwater		06-Jan-2026 00:00	07-Jan-2026 09:04	☐
HS26010095-14	WG-1620-FD02-20260106	Groundwater		06-Jan-2026 00:00	07-Jan-2026 09:04	☐

Client: WSP Austin
Project: Houston TX-Wood Preserving Works
Sample ID: WG-1620-MW-11B-20260105
Collection Date: 05-Jan-2026 10:41

ANALYTICAL REPORT
WorkOrder:HS26010095
Lab ID:HS26010095-01
Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D	**Method:SW8270**				Prep:SW3510 / 08-Jan-2026		Analyst: GEY
Acenaphthene	**0.052**		**0.00027**	**0.0010**	**mg/L**	10	12-Jan-2026 19:39
Acenaphthylene	**0.00084**		**0.000015**	**0.00010**	**mg/L**	1	09-Jan-2026 12:57
Anthracene	**0.0054**		**0.000014**	**0.00010**	**mg/L**	1	09-Jan-2026 12:57
Bis(2-ethylhexyl)phthalate	**0.00039**		**0.000037**	**0.00020**	**mg/L**	1	09-Jan-2026 12:57
Dibenzofuran	**0.018**		**0.00020**	**0.0010**	**mg/L**	10	12-Jan-2026 19:39
Di-n-butyl phthalate	< 0.000020		0.000020	0.00020	mg/L	1	09-Jan-2026 12:57
Fluoranthene	**0.014**		**0.00010**	**0.0010**	**mg/L**	10	12-Jan-2026 19:39
Fluorene	**0.030**		**0.00030**	**0.0010**	**mg/L**	10	12-Jan-2026 19:39
Naphthalene	< 0.000020		0.000020	0.00010	mg/L	1	09-Jan-2026 12:57
Phenol	< 0.000035		0.000035	0.00020	mg/L	1	09-Jan-2026 12:57
Pyrene	**0.0070**		**0.00019**	**0.0010**	**mg/L**	10	12-Jan-2026 19:39
Surr: 2,4,6-Tribromophenol	*70.6*			*34-129*	*%REC*	*10*	*12-Jan-2026 19:39*
Surr: 2,4,6-Tribromophenol	*90.8*			*34-129*	*%REC*	*1*	*09-Jan-2026 12:57*
Surr: 2-Fluorobiphenyl	*73.0*			*40-125*	*%REC*	*1*	*09-Jan-2026 12:57*
Surr: 2-Fluorobiphenyl	*52.2*			*40-125*	*%REC*	*10*	*12-Jan-2026 19:39*
Surr: 2-Fluorophenol	*55.8*			*20-120*	*%REC*	*10*	*12-Jan-2026 19:39*
Surr: 2-Fluorophenol	*79.3*			*20-120*	*%REC*	*1*	*09-Jan-2026 12:57*
Surr: 4-Terphenyl-d14	*59.6*			*40-135*	*%REC*	*10*	*12-Jan-2026 19:39*
Surr: 4-Terphenyl-d14	*106*			*40-135*	*%REC*	*1*	*09-Jan-2026 12:57*
Surr: Nitrobenzene-d5	*49.4*			*41-120*	*%REC*	*10*	*12-Jan-2026 19:39*
Surr: Nitrobenzene-d5	*83.8*			*41-120*	*%REC*	*1*	*09-Jan-2026 12:57*
Surr: Phenol-d6	*92.7*			*20-120*	*%REC*	*1*	*09-Jan-2026 12:57*
Surr: Phenol-d6	*61.0*			*20-120*	*%REC*	*10*	*12-Jan-2026 19:39*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: WSP Austin
Project: Houston TX-Wood Preserving Works
Sample ID: WG-1620-MW-11A-20260105
Collection Date: 05-Jan-2026 11:50

ANALYTICAL REPORT
WorkOrder:HS26010095
Lab ID:HS26010095-02
Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D	**Method:SW8270**				Prep:SW3510 / 08-Jan-2026		Analyst: GEY
2-Methylnaphthalene	< 0.000019		0.000019	0.00010	mg/L	1	09-Jan-2026 13:20
Acenaphthene	< 0.000027		0.000027	0.00010	mg/L	1	09-Jan-2026 13:20
Acenaphthylene	< 0.000015		0.000015	0.00010	mg/L	1	09-Jan-2026 13:20
Anthracene	**0.000071**	J	**0.000014**	**0.00010**	**mg/L**	1	09-Jan-2026 13:20
Bis(2-ethylhexyl)phthalate	**0.00014**	J	**0.000037**	**0.00020**	**mg/L**	1	09-Jan-2026 13:20
Dibenzofuran	< 0.000020		0.000020	0.00010	mg/L	1	09-Jan-2026 13:20
Fluoranthene	< 0.000010		0.000010	0.00010	mg/L	1	09-Jan-2026 13:20
Fluorene	< 0.000030		0.000030	0.00010	mg/L	1	09-Jan-2026 13:20
Naphthalene	< 0.000020		0.000020	0.00010	mg/L	1	09-Jan-2026 13:20
Phenanthrene	< 0.000021		0.000021	0.00010	mg/L	1	09-Jan-2026 13:20
Pyrene	< 0.000019		0.000019	0.00010	mg/L	1	09-Jan-2026 13:20
Surr: 2-Fluorobiphenyl	*75.5*			*40-125*	*%REC*	*1*	*09-Jan-2026 13:20*
Surr: 4-Terphenyl-d14	*103*			*40-135*	*%REC*	*1*	*09-Jan-2026 13:20*
Surr: Nitrobenzene-d5	*84.1*			*41-120*	*%REC*	*1*	*09-Jan-2026 13:20*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: WSP Austin
Project: Houston TX-Wood Preserving Works
Sample ID: WG-1620-MW-10B-20260105
Collection Date: 05-Jan-2026 13:20

ANALYTICAL REPORT
WorkOrder:HS26010095
Lab ID:HS26010095-03
Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D	**Method:SW8270**				Prep:SW3510 / 08-Jan-2026		Analyst: GEY
Acenaphthene	**0.039**		**0.00027**	**0.0010**	**mg/L**	10	12-Jan-2026 20:01
Acenaphthylene	**0.00035**		**0.000015**	**0.00010**	**mg/L**	1	09-Jan-2026 13:43
Anthracene	**0.0025**		**0.000014**	**0.00010**	**mg/L**	1	09-Jan-2026 13:43
Bis(2-ethylhexyl)phthalate	**0.000081**	J	**0.000037**	**0.00020**	**mg/L**	1	09-Jan-2026 13:43
Dibenzofuran	**0.015**		**0.00020**	**0.0010**	**mg/L**	10	12-Jan-2026 20:01
Di-n-butyl phthalate	< 0.000020		0.000020	0.00020	mg/L	1	09-Jan-2026 13:43
Fluoranthene	**0.0027**		**0.000010**	**0.00010**	**mg/L**	1	09-Jan-2026 13:43
Fluorene	**0.020**		**0.00030**	**0.0010**	**mg/L**	10	12-Jan-2026 20:01
Naphthalene	**0.17**		**0.0020**	**0.010**	**mg/L**	100	12-Jan-2026 20:23
Phenol	< 0.000035		0.000035	0.00020	mg/L	1	09-Jan-2026 13:43
Pyrene	**0.0015**		**0.000019**	**0.00010**	**mg/L**	1	09-Jan-2026 13:43
Surr: 2,4,6-Tribromophenol	*94.1*			*34-129*	*%REC*	*1*	*09-Jan-2026 13:43*
Surr: 2-Fluorobiphenyl	*69.6*			*40-125*	*%REC*	*1*	*09-Jan-2026 13:43*
Surr: 2-Fluorobiphenyl	*45.0*			*40-125*	*%REC*	*10*	*12-Jan-2026 20:01*
Surr: 2-Fluorobiphenyl	*0*	*JS*		*40-125*	*%REC*	*100*	*12-Jan-2026 20:23*
Surr: 2-Fluorophenol	*72.0*			*20-120*	*%REC*	*1*	*09-Jan-2026 13:43*
Surr: 4-Terphenyl-d14	*104*			*40-135*	*%REC*	*1*	*09-Jan-2026 13:43*
Surr: 4-Terphenyl-d14	*51.2*			*40-135*	*%REC*	*10*	*12-Jan-2026 20:01*
Surr: 4-Terphenyl-d14	*0*	*JS*		*40-135*	*%REC*	*100*	*12-Jan-2026 20:23*
Surr: Nitrobenzene-d5	*42.2*			*41-120*	*%REC*	*10*	*12-Jan-2026 20:01*
Surr: Nitrobenzene-d5	*0*	*JS*		*41-120*	*%REC*	*100*	*12-Jan-2026 20:23*
Surr: Nitrobenzene-d5	*78.0*			*41-120*	*%REC*	*1*	*09-Jan-2026 13:43*
Surr: Phenol-d6	*87.2*			*20-120*	*%REC*	*1*	*09-Jan-2026 13:43*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: WSP Austin
Project: Houston TX-Wood Preserving Works
Sample ID: WG-1620-MW-10A-20260105
Collection Date: 05-Jan-2026 13:48

ANALYTICAL REPORT
WorkOrder:HS26010095
Lab ID:HS26010095-04
Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D	**Method:SW8270**				Prep:SW3510 / 08-Jan-2026		Analyst: GEY
2-Methylnaphthalene	< 0.000019		0.000019	0.00010	mg/L	1	09-Jan-2026 14:06
Acenaphthene	**0.0058**		**0.000027**	**0.00010**	**mg/L**	1	09-Jan-2026 14:06
Acenaphthylene	**0.00016**		**0.000015**	**0.00010**	**mg/L**	1	09-Jan-2026 14:06
Anthracene	< 0.000014		0.000014	0.00010	mg/L	1	09-Jan-2026 14:06
Bis(2-ethylhexyl)phthalate	**0.00015**	J	**0.000037**	**0.00020**	**mg/L**	1	09-Jan-2026 14:06
Dibenzofuran	**0.00029**		**0.000020**	**0.00010**	**mg/L**	1	09-Jan-2026 14:06
Fluoranthene	**0.000062**	J	**0.000010**	**0.00010**	**mg/L**	1	09-Jan-2026 14:06
Fluorene	**0.00022**		**0.000030**	**0.00010**	**mg/L**	1	09-Jan-2026 14:06
Naphthalene	< 0.000020		0.000020	0.00010	mg/L	1	09-Jan-2026 14:06
Phenanthrene	< 0.000021		0.000021	0.00010	mg/L	1	09-Jan-2026 14:06
Pyrene	**0.000047**	J	**0.000019**	**0.00010**	**mg/L**	1	09-Jan-2026 14:06
Surr: 2-Fluorobiphenyl	*70.8*			*40-125*	*%REC*	*1*	*09-Jan-2026 14:06*
Surr: 4-Terphenyl-d14	*99.0*			*40-135*	*%REC*	*1*	*09-Jan-2026 14:06*
Surr: Nitrobenzene-d5	*79.0*			*41-120*	*%REC*	*1*	*09-Jan-2026 14:06*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: WSP Austin
Project: Houston TX-Wood Preserving Works
Sample ID: WG-1620-MW-02-20260105
Collection Date: 05-Jan-2026 14:30

ANALYTICAL REPORT
WorkOrder:HS26010095
Lab ID:HS26010095-05
Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D	**Method:SW8270**				Prep:SW3510 / 08-Jan-2026		Analyst: GEY
2-Methylnaphthalene	**0.0011**		**0.000019**	**0.00010**	**mg/L**	1	09-Jan-2026 14:29
Acenaphthene	**0.0094**		**0.000027**	**0.00010**	**mg/L**	1	09-Jan-2026 14:29
Acenaphthylene	**0.000077**	J	**0.000015**	**0.00010**	**mg/L**	1	09-Jan-2026 14:29
Anthracene	**0.00016**		**0.000014**	**0.00010**	**mg/L**	1	09-Jan-2026 14:29
Bis(2-ethylhexyl)phthalate	**0.000057**	J	**0.000037**	**0.00020**	**mg/L**	1	09-Jan-2026 14:29
Dibenzofuran	**0.000082**	J	**0.000020**	**0.00010**	**mg/L**	1	09-Jan-2026 14:29
Fluoranthene	**0.00031**		**0.000010**	**0.00010**	**mg/L**	1	09-Jan-2026 14:29
Fluorene	**0.0046**		**0.000030**	**0.00010**	**mg/L**	1	09-Jan-2026 14:29
Naphthalene	< 0.000020		0.000020	0.00010	mg/L	1	09-Jan-2026 14:29
Phenanthrene	**0.00019**		**0.000021**	**0.00010**	**mg/L**	1	09-Jan-2026 14:29
Pyrene	**0.00016**		**0.000019**	**0.00010**	**mg/L**	1	09-Jan-2026 14:29
Surr: 2-Fluorobiphenyl	*79.1*			*40-125*	*%REC*	*1*	*09-Jan-2026 14:29*
Surr: 4-Terphenyl-d14	*102*			*40-135*	*%REC*	*1*	*09-Jan-2026 14:29*
Surr: Nitrobenzene-d5	*90.9*			*41-120*	*%REC*	*1*	*09-Jan-2026 14:29*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: WSP Austin
Project: Houston TX-Wood Preserving Works
Sample ID: WG-1620-FB01-20260105
Collection Date: 05-Jan-2026 14:50

ANALYTICAL REPORT
WorkOrder:HS26010095
Lab ID:HS26010095-06
Matrix:Water

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D	**Method:SW8270**				Prep:SW3510 / 08-Jan-2026		Analyst: GEY
2-Methylnaphthalene	< 0.000019		0.000019	0.00010	mg/L	1	09-Jan-2026 14:53
Acenaphthene	< 0.000027		0.000027	0.00010	mg/L	1	09-Jan-2026 14:53
Acenaphthylene	< 0.000015		0.000015	0.00010	mg/L	1	09-Jan-2026 14:53
Anthracene	< 0.000014		0.000014	0.00010	mg/L	1	09-Jan-2026 14:53
Bis(2-ethylhexyl)phthalate	< 0.000037		0.000037	0.00020	mg/L	1	09-Jan-2026 14:53
Dibenzofuran	< 0.000020		0.000020	0.00010	mg/L	1	09-Jan-2026 14:53
Fluoranthene	< 0.000010		0.000010	0.00010	mg/L	1	09-Jan-2026 14:53
Fluorene	< 0.000030		0.000030	0.00010	mg/L	1	09-Jan-2026 14:53
Naphthalene	< 0.000020		0.000020	0.00010	mg/L	1	09-Jan-2026 14:53
Phenanthrene	< 0.000021		0.000021	0.00010	mg/L	1	09-Jan-2026 14:53
Pyrene	< 0.000019		0.000019	0.00010	mg/L	1	09-Jan-2026 14:53
Surr: 2-Fluorobiphenyl	*73.9*			*40-125*	*%REC*	*1*	*09-Jan-2026 14:53*
Surr: 4-Terphenyl-d14	*94.1*			*40-135*	*%REC*	*1*	*09-Jan-2026 14:53*
Surr: Nitrobenzene-d5	*88.2*			*41-120*	*%REC*	*1*	*09-Jan-2026 14:53*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: WSP Austin
Project: Houston TX-Wood Preserving Works
Sample ID: WG-1620-FB02-20260105
Collection Date: 05-Jan-2026 15:05

ANALYTICAL REPORT
WorkOrder:HS26010095
Lab ID:HS26010095-07
Matrix:Water

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D	**Method:SW8270**				Prep:SW3510 / 08-Jan-2026		Analyst: GEY
Acenaphthene	< 0.000027		0.000027	0.00010	mg/L	1	09-Jan-2026 15:16
Acenaphthylene	< 0.000015		0.000015	0.00010	mg/L	1	09-Jan-2026 15:16
Anthracene	< 0.000014		0.000014	0.00010	mg/L	1	09-Jan-2026 15:16
Bis(2-ethylhexyl)phthalate	**0.000044**	J	**0.000037**	**0.00020**	**mg/L**	1	09-Jan-2026 15:16
Dibenzofuran	< 0.000020		0.000020	0.00010	mg/L	1	09-Jan-2026 15:16
Di-n-butyl phthalate	< 0.000020		0.000020	0.00020	mg/L	1	09-Jan-2026 15:16
Fluoranthene	< 0.000010		0.000010	0.00010	mg/L	1	09-Jan-2026 15:16
Fluorene	< 0.000030		0.000030	0.00010	mg/L	1	09-Jan-2026 15:16
Naphthalene	< 0.000020		0.000020	0.00010	mg/L	1	09-Jan-2026 15:16
Phenol	< 0.000035		0.000035	0.00020	mg/L	1	09-Jan-2026 15:16
Pyrene	< 0.000019		0.000019	0.00010	mg/L	1	09-Jan-2026 15:16
Surr: 2,4,6-Tribromophenol	*96.1*			*34-129*	*%REC*	*1*	*09-Jan-2026 15:16*
Surr: 2-Fluorobiphenyl	*74.5*			*40-125*	*%REC*	*1*	*09-Jan-2026 15:16*
Surr: 2-Fluorophenol	*93.6*			*20-120*	*%REC*	*1*	*09-Jan-2026 15:16*
Surr: 4-Terphenyl-d14	*92.5*			*40-135*	*%REC*	*1*	*09-Jan-2026 15:16*
Surr: Nitrobenzene-d5	*86.5*			*41-120*	*%REC*	*1*	*09-Jan-2026 15:16*
Surr: Phenol-d6	*107*			*20-120*	*%REC*	*1*	*09-Jan-2026 15:16*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: WSP Austin
Project: Houston TX-Wood Preserving Works
Sample ID: WG-1620-MW-01A-20260106
Collection Date: 06-Jan-2026 10:15

ANALYTICAL REPORT
WorkOrder:HS26010095
Lab ID:HS26010095-08
Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D	**Method:SW8270**				Prep:SW3510 / 08-Jan-2026		Analyst: GEY
2-Methylnaphthalene	< 0.000019		0.000019	0.00010	mg/L	1	09-Jan-2026 15:39
Acenaphthene	**0.019**		**0.00027**	**0.0010**	**mg/L**	10	12-Jan-2026 20:45
Acenaphthylene	**0.0010**		**0.000015**	**0.00010**	**mg/L**	1	09-Jan-2026 15:39
Anthracene	**0.00027**		**0.000014**	**0.00010**	**mg/L**	1	09-Jan-2026 15:39
Bis(2-ethylhexyl)phthalate	**0.016**		**0.00037**	**0.0020**	**mg/L**	10	12-Jan-2026 20:45
Dibenzofuran	**0.0023**		**0.000020**	**0.00010**	**mg/L**	1	09-Jan-2026 15:39
Fluoranthene	**0.0011**		**0.000010**	**0.00010**	**mg/L**	1	09-Jan-2026 15:39
Fluorene	**0.0042**		**0.000030**	**0.00010**	**mg/L**	1	09-Jan-2026 15:39
Naphthalene	**0.00024**		**0.000020**	**0.00010**	**mg/L**	1	09-Jan-2026 15:39
Phenanthrene	**0.000073**	J	**0.000021**	**0.00010**	**mg/L**	1	09-Jan-2026 15:39
Pyrene	**0.00054**		**0.000019**	**0.00010**	**mg/L**	1	09-Jan-2026 15:39
Surr: 2-Fluorobiphenyl	*73.4*			*40-125*	*%REC*	*1*	*09-Jan-2026 15:39*
Surr: 2-Fluorobiphenyl	*51.6*			*40-125*	*%REC*	*10*	*12-Jan-2026 20:45*
Surr: 4-Terphenyl-d14	*53.8*			*40-135*	*%REC*	*10*	*12-Jan-2026 20:45*
Surr: 4-Terphenyl-d14	*97.9*			*40-135*	*%REC*	*1*	*09-Jan-2026 15:39*
Surr: Nitrobenzene-d5	*84.1*			*41-120*	*%REC*	*1*	*09-Jan-2026 15:39*
Surr: Nitrobenzene-d5	*47.0*			*41-120*	*%REC*	*10*	*12-Jan-2026 20:45*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: WSP Austin
Project: Houston TX-Wood Preserving Works
Sample ID: WG-1620-MW-07-20260106
Collection Date: 06-Jan-2026 11:20

ANALYTICAL REPORT
WorkOrder:HS26010095
Lab ID:HS26010095-09
Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D	**Method:SW8270**				Prep:SW3510 / 08-Jan-2026		Analyst: GEY
2-Methylnaphthalene	**0.000025**	J	**0.000019**	**0.00010**	**mg/L**	1	09-Jan-2026 16:03
Acenaphthene	**0.00027**		**0.000027**	**0.00010**	**mg/L**	1	09-Jan-2026 16:03
Acenaphthylene	< 0.000015		0.000015	0.00010	mg/L	1	09-Jan-2026 16:03
Anthracene	**0.000058**	J	**0.000014**	**0.00010**	**mg/L**	1	09-Jan-2026 16:03
Bis(2-ethylhexyl)phthalate	**0.00018**	J	**0.000037**	**0.00020**	**mg/L**	1	09-Jan-2026 16:03
Dibenzofuran	< 0.000020		0.000020	0.00010	mg/L	1	09-Jan-2026 16:03
Fluoranthene	**0.000050**	J	**0.000010**	**0.00010**	**mg/L**	1	09-Jan-2026 16:03
Fluorene	**0.00014**		**0.000030**	**0.00010**	**mg/L**	1	09-Jan-2026 16:03
Naphthalene	< 0.000020		0.000020	0.00010	mg/L	1	09-Jan-2026 16:03
Phenanthrene	< 0.000021		0.000021	0.00010	mg/L	1	09-Jan-2026 16:03
Pyrene	**0.000057**	J	**0.000019**	**0.00010**	**mg/L**	1	09-Jan-2026 16:03
Surr: 2-Fluorobiphenyl	*71.6*			*40-125*	*%REC*	*1*	*09-Jan-2026 16:03*
Surr: 4-Terphenyl-d14	*92.4*			*40-135*	*%REC*	*1*	*09-Jan-2026 16:03*
Surr: Nitrobenzene-d5	*78.7*			*41-120*	*%REC*	*1*	*09-Jan-2026 16:03*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: WSP Austin
Project: Houston TX-Wood Preserving Works
Sample ID: WG-1620-MW-08-20260106
Collection Date: 06-Jan-2026 13:37

ANALYTICAL REPORT
WorkOrder:HS26010095
Lab ID:HS26010095-10
Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D	**Method:SW8270**				Prep:SW3510 / 08-Jan-2026		Analyst: GEY
2-Methylnaphthalene	< 0.000019		0.000019	0.00010	mg/L	1	09-Jan-2026 16:26
Acenaphthene	**0.000044**	J	**0.000027**	**0.00010**	**mg/L**	1	09-Jan-2026 16:26
Acenaphthylene	< 0.000015		0.000015	0.00010	mg/L	1	09-Jan-2026 16:26
Anthracene	< 0.000014		0.000014	0.00010	mg/L	1	09-Jan-2026 16:26
Bis(2-ethylhexyl)phthalate	**0.00016**	J	**0.000037**	**0.00020**	**mg/L**	1	09-Jan-2026 16:26
Dibenzofuran	< 0.000020		0.000020	0.00010	mg/L	1	09-Jan-2026 16:26
Fluoranthene	< 0.000010		0.000010	0.00010	mg/L	1	09-Jan-2026 16:26
Fluorene	< 0.000030		0.000030	0.00010	mg/L	1	09-Jan-2026 16:26
Naphthalene	< 0.000020		0.000020	0.00010	mg/L	1	09-Jan-2026 16:26
Phenanthrene	< 0.000021		0.000021	0.00010	mg/L	1	09-Jan-2026 16:26
Pyrene	< 0.000019		0.000019	0.00010	mg/L	1	09-Jan-2026 16:26
Surr: 2-Fluorobiphenyl	*74.3*			*40-125*	*%REC*	*1*	*09-Jan-2026 16:26*
Surr: 4-Terphenyl-d14	*95.7*			*40-135*	*%REC*	*1*	*09-Jan-2026 16:26*
Surr: Nitrobenzene-d5	*84.3*			*41-120*	*%REC*	*1*	*09-Jan-2026 16:26*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: WSP Austin
Project: Houston TX-Wood Preserving Works
Sample ID: WG-1620-P-10-20260106
Collection Date: 06-Jan-2026 10:58

ANALYTICAL REPORT
WorkOrder:HS26010095
Lab ID:HS26010095-11
Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D	**Method:SW8270**				Prep:SW3510 / 08-Jan-2026		Analyst: GEY
Acenaphthene	**0.0066**		**0.000027**	**0.00010**	**mg/L**	1	09-Jan-2026 16:50
Acenaphthylene	< 0.000015		0.000015	0.00010	mg/L	1	09-Jan-2026 16:50
Anthracene	**0.00013**		**0.000014**	**0.00010**	**mg/L**	1	09-Jan-2026 16:50
Bis(2-ethylhexyl)phthalate	**0.00011**	J	**0.000037**	**0.00020**	**mg/L**	1	09-Jan-2026 16:50
Dibenzofuran	**0.00037**		**0.000020**	**0.00010**	**mg/L**	1	09-Jan-2026 16:50
Di-n-butyl phthalate	< 0.000020		0.000020	0.00020	mg/L	1	09-Jan-2026 16:50
Fluoranthene	**0.00015**		**0.000010**	**0.00010**	**mg/L**	1	09-Jan-2026 16:50
Fluorene	**0.0016**		**0.000030**	**0.00010**	**mg/L**	1	09-Jan-2026 16:50
Naphthalene	**0.0032**		**0.000020**	**0.00010**	**mg/L**	1	09-Jan-2026 16:50
Phenol	< 0.000035		0.000035	0.00020	mg/L	1	09-Jan-2026 16:50
Pyrene	**0.000082**	J	**0.000019**	**0.00010**	**mg/L**	1	09-Jan-2026 16:50
Surr: 2,4,6-Tribromophenol	*94.1*			*34-129*	*%REC*	*1*	*09-Jan-2026 16:50*
Surr: 2-Fluorobiphenyl	*69.7*			*40-125*	*%REC*	*1*	*09-Jan-2026 16:50*
Surr: 2-Fluorophenol	*77.3*			*20-120*	*%REC*	*1*	*09-Jan-2026 16:50*
Surr: 4-Terphenyl-d14	*91.2*			*40-135*	*%REC*	*1*	*09-Jan-2026 16:50*
Surr: Nitrobenzene-d5	*80.5*			*41-120*	*%REC*	*1*	*09-Jan-2026 16:50*
Surr: Phenol-d6	*91.4*			*20-120*	*%REC*	*1*	*09-Jan-2026 16:50*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: WSP Austin
Project: Houston TX-Wood Preserving Works
Sample ID: WG-1620-P-12-20260106
Collection Date: 06-Jan-2026 14:45

ANALYTICAL REPORT
WorkOrder:HS26010095
Lab ID:HS26010095-12
Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D	**Method:SW8270**				Prep:SW3510 / 08-Jan-2026		Analyst: GEY
Acenaphthene	**0.00050**		**0.000027**	**0.00010**	**mg/L**	1	09-Jan-2026 17:14
Acenaphthylene	< 0.000015		0.000015	0.00010	mg/L	1	09-Jan-2026 17:14
Anthracene	**0.000075**	J	**0.000014**	**0.00010**	**mg/L**	1	09-Jan-2026 17:14
Bis(2-ethylhexyl)phthalate	**0.000043**	J	**0.000037**	**0.00020**	**mg/L**	1	09-Jan-2026 17:14
Dibenzofuran	**0.000054**	J	**0.000020**	**0.00010**	**mg/L**	1	09-Jan-2026 17:14
Di-n-butyl phthalate	< 0.000020		0.000020	0.00020	mg/L	1	09-Jan-2026 17:14
Fluoranthene	**0.000061**	J	**0.000010**	**0.00010**	**mg/L**	1	09-Jan-2026 17:14
Fluorene	**0.00037**		**0.000030**	**0.00010**	**mg/L**	1	09-Jan-2026 17:14
Naphthalene	**0.000045**	J	**0.000020**	**0.00010**	**mg/L**	1	09-Jan-2026 17:14
Phenol	< 0.000035		0.000035	0.00020	mg/L	1	09-Jan-2026 17:14
Pyrene	**0.000037**	J	**0.000019**	**0.00010**	**mg/L**	1	09-Jan-2026 17:14
Surr: 2,4,6-Tribromophenol	*102*			*34-129*	*%REC*	*1*	*09-Jan-2026 17:14*
Surr: 2-Fluorobiphenyl	*81.7*			*40-125*	*%REC*	*1*	*09-Jan-2026 17:14*
Surr: 2-Fluorophenol	*90.2*			*20-120*	*%REC*	*1*	*09-Jan-2026 17:14*
Surr: 4-Terphenyl-d14	*104*			*40-135*	*%REC*	*1*	*09-Jan-2026 17:14*
Surr: Nitrobenzene-d5	*93.4*			*41-120*	*%REC*	*1*	*09-Jan-2026 17:14*
Surr: Phenol-d6	*107*			*20-120*	*%REC*	*1*	*09-Jan-2026 17:14*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: WSP Austin
Project: Houston TX-Wood Preserving Works
Sample ID: WG-1620-FD01-20260106
Collection Date: 06-Jan-2026 00:00

ANALYTICAL REPORT
WorkOrder:HS26010095
Lab ID:HS26010095-13
Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D	**Method:SW8270**				Prep:SW3510 / 08-Jan-2026		Analyst: GEY
2-Methylnaphthalene	**0.000043**	J	**0.000019**	**0.00010**	**mg/L**	1	09-Jan-2026 18:24
Acenaphthene	**0.019**		**0.00027**	**0.0010**	**mg/L**	10	12-Jan-2026 21:07
Acenaphthylene	**0.00096**		**0.000015**	**0.00010**	**mg/L**	1	09-Jan-2026 18:24
Anthracene	**0.00028**		**0.000014**	**0.00010**	**mg/L**	1	09-Jan-2026 18:24
Bis(2-ethylhexyl)phthalate	**0.00012**	J	**0.000037**	**0.00020**	**mg/L**	1	09-Jan-2026 18:24
Dibenzofuran	**0.0025**		**0.000020**	**0.00010**	**mg/L**	1	09-Jan-2026 18:24
Fluoranthene	**0.00097**		**0.000010**	**0.00010**	**mg/L**	1	09-Jan-2026 18:24
Fluorene	**0.0043**		**0.000030**	**0.00010**	**mg/L**	1	09-Jan-2026 18:24
Naphthalene	**0.00036**		**0.000020**	**0.00010**	**mg/L**	1	09-Jan-2026 18:24
Phenanthrene	**0.000085**	J	**0.000021**	**0.00010**	**mg/L**	1	09-Jan-2026 18:24
Pyrene	**0.00051**		**0.000019**	**0.00010**	**mg/L**	1	09-Jan-2026 18:24
Surr: 2-Fluorobiphenyl	*58.2*			*40-125*	*%REC*	*10*	*12-Jan-2026 21:07*
Surr: 2-Fluorobiphenyl	*74.9*			*40-125*	*%REC*	*1*	*09-Jan-2026 18:24*
Surr: 4-Terphenyl-d14	*96.7*			*40-135*	*%REC*	*1*	*09-Jan-2026 18:24*
Surr: 4-Terphenyl-d14	*61.6*			*40-135*	*%REC*	*10*	*12-Jan-2026 21:07*
Surr: Nitrobenzene-d5	*86.4*			*41-120*	*%REC*	*1*	*09-Jan-2026 18:24*
Surr: Nitrobenzene-d5	*54.8*			*41-120*	*%REC*	*10*	*12-Jan-2026 21:07*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client: WSP Austin
Project: Houston TX-Wood Preserving Works
Sample ID: WG-1620-FD02-20260106
Collection Date: 06-Jan-2026 00:00

ANALYTICAL REPORT
WorkOrder:HS26010095
Lab ID:HS26010095-14
Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D	**Method:SW8270**				Prep:SW3510 / 08-Jan-2026		Analyst: GEY
Acenaphthene	**0.054**		**0.00027**	**0.0010**	**mg/L**	10	12-Jan-2026 21:29
Acenaphthylene	**0.00026**		**0.000015**	**0.00010**	**mg/L**	1	09-Jan-2026 18:47
Anthracene	**0.0022**		**0.000014**	**0.00010**	**mg/L**	1	09-Jan-2026 18:47
Bis(2-ethylhexyl)phthalate	**0.000058**	J	**0.000037**	**0.00020**	**mg/L**	1	09-Jan-2026 18:47
Dibenzofuran	**0.0024**		**0.000020**	**0.00010**	**mg/L**	1	09-Jan-2026 18:47
Di-n-butyl phthalate	< 0.000020		0.000020	0.00020	mg/L	1	09-Jan-2026 18:47
Fluoranthene	**0.0023**		**0.000010**	**0.00010**	**mg/L**	1	09-Jan-2026 18:47
Fluorene	**0.019**		**0.00030**	**0.0010**	**mg/L**	10	12-Jan-2026 21:29
Naphthalene	**0.0015**		**0.000020**	**0.00010**	**mg/L**	1	09-Jan-2026 18:47
Phenol	< 0.000035		0.000035	0.00020	mg/L	1	09-Jan-2026 18:47
Pyrene	**0.0012**		**0.000019**	**0.00010**	**mg/L**	1	09-Jan-2026 18:47
Surr: 2,4,6-Tribromophenol	*69.4*			*34-129*	*%REC*	*10*	*12-Jan-2026 21:29*
Surr: 2,4,6-Tribromophenol	*94.4*			*34-129*	*%REC*	*1*	*09-Jan-2026 18:47*
Surr: 2-Fluorobiphenyl	*76.3*			*40-125*	*%REC*	*1*	*09-Jan-2026 18:47*
Surr: 2-Fluorobiphenyl	*59.2*			*40-125*	*%REC*	*10*	*12-Jan-2026 21:29*
Surr: 2-Fluorophenol	*59.8*			*20-120*	*%REC*	*10*	*12-Jan-2026 21:29*
Surr: 2-Fluorophenol	*87.6*			*20-120*	*%REC*	*1*	*09-Jan-2026 18:47*
Surr: 4-Terphenyl-d14	*99.5*			*40-135*	*%REC*	*1*	*09-Jan-2026 18:47*
Surr: 4-Terphenyl-d14	*61.8*			*40-135*	*%REC*	*10*	*12-Jan-2026 21:29*
Surr: Nitrobenzene-d5	*90.8*			*41-120*	*%REC*	*1*	*09-Jan-2026 18:47*
Surr: Nitrobenzene-d5	*58.4*			*41-120*	*%REC*	*10*	*12-Jan-2026 21:29*
Surr: Phenol-d6	*64.6*			*20-120*	*%REC*	*10*	*12-Jan-2026 21:29*
Surr: Phenol-d6	*102*			*20-120*	*%REC*	*1*	*09-Jan-2026 18:47*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Weight / Prep Log

Client: WSP Austin
Project: Houston TX-Wood Preserving Works
WorkOrder: HS26010095

Batch ID: 237288 **Start Date:** 08 Jan 2026 09:08 **End Date:** 08 Jan 2026 09:08
Method: SV AQ SEP FUN EXTRACT-LOWLEV - 3510C **Prep Code:** 3510_B_LOW

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS26010095-01	1	1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat
HS26010095-02	1	1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat
HS26010095-03	1	1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat
HS26010095-04	1	1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat
HS26010095-05	1	1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat
HS26010095-06	1	1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat
HS26010095-07	1	1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat
HS26010095-08	1	1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat
HS26010095-09	1	1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat
HS26010095-10	1	1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat
HS26010095-11	1	1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat
HS26010095-12	1	1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat
HS26010095-13	1	1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat
HS26010095-14	1	1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat

Client: WSP Austin
Project: Houston TX-Wood Preserving Works
WorkOrder: HS26010095

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 237288 (0)	**Test Name :** LOW-LEVEL SEMIVOLATILES BY 8270D				**Matrix:** Water	
HS26010095-06	WG-1620-FB01-20260105	05 Jan 2026 14:50		08 Jan 2026 09:08	09 Jan 2026 14:53	1
HS26010095-07	WG-1620-FB02-20260105	05 Jan 2026 15:05		08 Jan 2026 09:08	09 Jan 2026 15:16	1
Batch ID: 237288 (0)	**Test Name :** LOW-LEVEL SEMIVOLATILES BY 8270D				**Matrix:** Groundwater	
HS26010095-01	WG-1620-MW-11B-20260105	05 Jan 2026 10:41		08 Jan 2026 09:08	12 Jan 2026 19:39	10
HS26010095-01	WG-1620-MW-11B-20260105	05 Jan 2026 10:41		08 Jan 2026 09:08	09 Jan 2026 12:57	1
HS26010095-02	WG-1620-MW-11A-20260105	05 Jan 2026 11:50		08 Jan 2026 09:08	09 Jan 2026 13:20	1
HS26010095-03	WG-1620-MW-10B-20260105	05 Jan 2026 13:20		08 Jan 2026 09:08	12 Jan 2026 20:23	100
HS26010095-03	WG-1620-MW-10B-20260105	05 Jan 2026 13:20		08 Jan 2026 09:08	12 Jan 2026 20:01	10
HS26010095-03	WG-1620-MW-10B-20260105	05 Jan 2026 13:20		08 Jan 2026 09:08	09 Jan 2026 13:43	1
HS26010095-04	WG-1620-MW-10A-20260105	05 Jan 2026 13:48		08 Jan 2026 09:08	09 Jan 2026 14:06	1
HS26010095-05	WG-1620-MW-02-20260105	05 Jan 2026 14:30		08 Jan 2026 09:08	09 Jan 2026 14:29	1
HS26010095-08	WG-1620-MW-01A-20260106	06 Jan 2026 10:15		08 Jan 2026 09:08	12 Jan 2026 20:45	10
HS26010095-08	WG-1620-MW-01A-20260106	06 Jan 2026 10:15		08 Jan 2026 09:08	09 Jan 2026 15:39	1
HS26010095-09	WG-1620-MW-07-20260106	06 Jan 2026 11:20		08 Jan 2026 09:08	09 Jan 2026 16:03	1
HS26010095-10	WG-1620-MW-08-20260106	06 Jan 2026 13:37		08 Jan 2026 09:08	09 Jan 2026 16:26	1
HS26010095-11	WG-1620-P-10-20260106	06 Jan 2026 10:58		08 Jan 2026 09:08	09 Jan 2026 16:50	1
HS26010095-12	WG-1620-P-12-20260106	06 Jan 2026 14:45		08 Jan 2026 09:08	09 Jan 2026 17:14	1
HS26010095-13	WG-1620-FD01-20260106	06 Jan 2026 00:00		08 Jan 2026 09:08	12 Jan 2026 21:07	10
HS26010095-13	WG-1620-FD01-20260106	06 Jan 2026 00:00		08 Jan 2026 09:08	09 Jan 2026 18:24	1
HS26010095-14	WG-1620-FD02-20260106	06 Jan 2026 00:00		08 Jan 2026 09:08	12 Jan 2026 21:29	10
HS26010095-14	WG-1620-FD02-20260106	06 Jan 2026 00:00		08 Jan 2026 09:08	09 Jan 2026 18:47	1

WorkOrder: HS26010095
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	Acenaphthene	83-32-9	0.000050	0.000070	0.000027	0.00010
A	Dibenzofuran	132-64-9	0.000050	0.000066	0.000020	0.00010
A	Fluoranthene	206-44-0	0.000050	0.000071	0.000010	0.00010
A	Fluorene	86-73-7	0.000050	0.000073	0.000030	0.00010
A	Naphthalene	91-20-3	0.000050	0.000075	0.000020	0.00010
A	Pyrene	129-00-0	0.000050	0.000067	0.000019	0.00010
A	Bis(2-ethylhexyl)phthalate	117-81-7	0.00010	0.000071	0.000037	0.00020
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: HS26010095
InstrumentID: SV-13
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	Acenaphthene	83-32-9	0.000050	0.000086	0.000027	0.00010
A	Acenaphthylene	208-96-8	0.000050	0.000067	0.000015	0.00010
A	Anthracene	120-12-7	0.000050	0.000066	0.000014	0.00010
A	Bis(2-ethylhexyl)phthalate	117-81-7	0.00010	0.000059	0.000037	0.00020
A	Dibenzofuran	132-64-9	0.000050	0.000083	0.000020	0.00010
A	Di-n-butyl phthalate	84-74-2	0.00010	0.000059	0.000020	0.00020
A	Fluoranthene	206-44-0	0.000050	0.000073	0.000010	0.00010
A	Fluorene	86-73-7	0.000050	0.000076	0.000030	0.00010
A	Naphthalene	91-20-3	0.000050	0.000077	0.000020	0.00010
A	Phenol	108-95-2	0.00010	0.000081	0.000035	0.00020
A	Pyrene	129-00-0	0.000050	0.000070	0.000019	0.00010
A	2-Methylnaphthalene	91-57-6	0.000050	0.000075	0.000019	0.00010
A	Phenanthrene	85-01-8	0.000050	0.000082	0.000021	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

Client: WSP Austin
Project: Houston TX-Wood Preserving Works
WorkOrder: HS26010095

QC BATCH REPORT

Batch ID: 237288 (0) **Instrument: SV-13** **Method: LOW-LEVEL SEMIVOLATILES BY 8270D**

MBLK Sample ID: **MBLK-237288** Units: **ug/L** Analysis Date: **09-Jan-2026 12:10**
Client ID: Run ID: **SV-13_529531** SeqNo: **9217264** PrepDate: **08-Jan-2026** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2-Methylnaphthalene	< 0.019	0.10								
Acenaphthene	< 0.027	0.10								
Acenaphthylene	< 0.015	0.10								
Anthracene	< 0.014	0.10								
Bis(2-ethylhexyl)phthalate	< 0.037	0.20								
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								
Phenanthrene	< 0.021	0.10								
Phenol	< 0.035	0.20								
Pyrene	< 0.019	0.10								
Surr: 2,4,6-Tribromophenol	*4.239*	*0.20*	*5*	*0*	*84.8*	*34 - 129*				
Surr: 2-Fluorobiphenyl	*3.503*	*0.20*	*5*	*0*	*70.1*	*40 - 125*				
Surr: 2-Fluorophenol	*3.964*	*0.20*	*5*	*0*	*79.3*	*20 - 120*				
Surr: 4-Terphenyl-d14	*4.256*	*0.20*	*5*	*0*	*85.1*	*40 - 135*				
Surr: Nitrobenzene-d5	*3.96*	*0.20*	*5*	*0*	*79.2*	*41 - 120*				
Surr: Phenol-d6	*4.489*	*0.20*	*5*	*0*	*89.8*	*20 - 120*				

Client: WSP Austin
Project: Houston TX-Wood Preserving Works
WorkOrder: HS26010095

QC BATCH REPORT

Batch ID: 237288 (0) **Instrument: SV-13** **Method: LOW-LEVEL SEMIVOLATILES BY 8270D**

LCS Sample ID: **LCS-237288** Units: **ug/L** Analysis Date: **09-Jan-2026 12:34**
Client ID: Run ID: **SV-13_529531** SeqNo: **9217265** PrepDate: **08-Jan-2026** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2-Methylnaphthalene	4.18	0.10	5	0	83.6	50 - 120				
Acenaphthene	4.087	0.10	5	0	81.7	45 - 120				
Acenaphthylene	4.62	0.10	5	0	92.4	47 - 120				
Anthracene	4.549	0.10	5	0	91.0	45 - 120				
Bis(2-ethylhexyl)phthalate	5.197	0.20	5	0	104	40 - 139				
Dibenzofuran	3.94	0.10	5	0	78.8	50 - 120				
Di-n-butyl phthalate	5.21	0.20	5	0	104	45 - 123				
Fluoranthene	4.279	0.10	5	0	85.6	45 - 125				
Fluorene	4.218	0.10	5	0	84.4	49 - 120				
Naphthalene	3.916	0.10	5	0	78.3	45 - 120				
Phenanthrene	4.125	0.10	5	0	82.5	45 - 121				
Phenol	4.66	0.20	5	0	93.2	20 - 124				
Pyrene	4.624	0.10	5	0	92.5	40 - 130				
Surr: 2,4,6-Tribromophenol	*4.288*	*0.20*	*5*	*0*	*85.8*	*34 - 129*				
Surr: 2-Fluorobiphenyl	*3.546*	*0.20*	*5*	*0*	*70.9*	*40 - 125*				
Surr: 2-Fluorophenol	*3.932*	*0.20*	*5*	*0*	*78.6*	*20 - 120*				
Surr: 4-Terphenyl-d14	*3.989*	*0.20*	*5*	*0*	*79.8*	*40 - 135*				
Surr: Nitrobenzene-d5	*4.114*	*0.20*	*5*	*0*	*82.3*	*41 - 120*				
Surr: Phenol-d6	*4.64*	*0.20*	*5*	*0*	*92.8*	*20 - 120*				

Client: WSP Austin
Project: Houston TX-Wood Preserving Works
WorkOrder: HS26010095

QC BATCH REPORT

Batch ID: 237288 (0) **Instrument: SV-13** **Method: LOW-LEVEL SEMIVOLATILES BY 8270D**

MS Sample ID: **HS26010095-12MS** Units: **ug/L** Analysis Date: **09-Jan-2026 17:37**
Client ID: **WG-1620-P-12-20260106** Run ID: **SV-13_529531** SeqNo: **9219093** PrepDate: **08-Jan-2026** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2-Methylnaphthalene	4.646	0.10	5	0.037	92.2	50 - 120				
Acenaphthene	4.722	0.10	5	0.5	84.4	45 - 120				
Acenaphthylene	5.21	0.10	5	0	104	47 - 120				
Anthracene	5.254	0.10	5	0.075	104	45 - 120				
Bis(2-ethylhexyl)phthalate	6.076	0.20	5	0.043	121	40 - 139				
Dibenzofuran	4.432	0.10	5	0.054	87.6	50 - 120				
Di-n-butyl phthalate	6.183	0.20	5	0	124	45 - 123				S
Fluoranthene	4.932	0.10	5	0.061	97.4	45 - 125				
Fluorene	4.818	0.10	5	0.367	89.0	49 - 120				
Naphthalene	4.476	0.10	5	0.045	88.6	45 - 120				
Phenanthrene	4.7	0.10	5	0.359	86.8	45 - 121				
Phenol	5.276	0.20	5	0	106	20 - 124				
Pyrene	5.55	0.10	5	0.037	110	40 - 130				
Surr: 2,4,6-Tribromophenol	*4.924*	*0.20*	*5*	*0*	*98.5*	*34 - 129*				
Surr: 2-Fluorobiphenyl	*3.893*	*0.20*	*5*	*0*	*77.9*	*40 - 125*				
Surr: 2-Fluorophenol	*4.17*	*0.20*	*5*	*0*	*83.4*	*20 - 120*				
Surr: 4-Terphenyl-d14	*4.844*	*0.20*	*5*	*0*	*96.9*	*40 - 135*				
Surr: Nitrobenzene-d5	*4.534*	*0.20*	*5*	*0*	*90.7*	*41 - 120*				
Surr: Phenol-d6	*5.25*	*0.20*	*5*	*0*	*105*	*20 - 120*				

Client: WSP Austin
Project: Houston TX-Wood Preserving Works
WorkOrder: HS26010095

QC BATCH REPORT

Batch ID: 237288 (0) **Instrument: SV-13** **Method: LOW-LEVEL SEMIVOLATILES BY 8270D**

MSD Sample ID: **HS26010095-12MSD** Units: **ug/L** Analysis Date: **09-Jan-2026 18:01**
Client ID: **WG-1620-P-12-20260106** Run ID: **SV-13_529531** SeqNo: **9219094** PrepDate: **08-Jan-2026** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit	Qual
2-Methylnaphthalene	4.649	0.10	5	0.037	92.2	50 - 120	4.646	0.0646	20	
Acenaphthene	4.685	0.10	5	0.5	83.7	45 - 120	4.722	0.787	20	
Acenaphthylene	5.234	0.10	5	0	105	47 - 120	5.21	0.46	20	
Anthracene	5.52	0.10	5	0.075	109	45 - 120	5.254	4.94	20	
Bis(2-ethylhexyl)phthalate	6.251	0.20	5	0.043	124	40 - 139	6.076	2.84	20	
Dibenzofuran	4.541	0.10	5	0.054	89.7	50 - 120	4.432	2.43	20	
Di-n-butyl phthalate	6.509	0.20	5	0	130	45 - 123	6.183	5.14	20	S
Fluoranthene	5.205	0.10	5	0.061	103	45 - 125	4.932	5.39	20	
Fluorene	4.875	0.10	5	0.367	90.2	49 - 120	4.818	1.18	20	
Naphthalene	4.503	0.10	5	0.045	89.2	45 - 120	4.476	0.601	20	
Phenanthrene	4.916	0.10	5	0.359	91.1	45 - 121	4.7	4.49	20	
Phenol	5.248	0.20	5	0	105	20 - 124	5.276	0.532	20	
Pyrene	5.747	0.10	5	0.037	114	40 - 130	5.55	3.49	20	
Surr: 2,4,6-Tribromophenol	*4.792*	*0.20*	*5*	*0*	*95.8*	*34 - 129*	*4.924*	*2.72*	*20*	
Surr: 2-Fluorobiphenyl	*3.707*	*0.20*	*5*	*0*	*74.1*	*40 - 125*	*3.893*	*4.89*	*20*	
Surr: 2-Fluorophenol	*4.038*	*0.20*	*5*	*0*	*80.8*	*20 - 120*	*4.17*	*3.22*	*20*	
Surr: 4-Terphenyl-d14	*4.773*	*0.20*	*5*	*0*	*95.5*	*40 - 135*	*4.844*	*1.48*	*20*	
Surr: Nitrobenzene-d5	*4.361*	*0.20*	*5*	*0*	*87.2*	*41 - 120*	*4.534*	*3.89*	*20*	
Surr: Phenol-d6	*4.941*	*0.20*	*5*	*0*	*98.8*	*20 - 120*	*5.25*	*6.06*	*20*	

The following samples were analyzed in this batch:

HS26010095-01	HS26010095-02	HS26010095-03	HS26010095-04
HS26010095-05	HS26010095-06	HS26010095-07	HS26010095-08
HS26010095-09	HS26010095-10	HS26010095-11	HS26010095-12
HS26010095-13	HS26010095-14		

Client: WSP Austin
Project: Houston TX-Wood Preserving Works
WorkOrder: **HS26010095**

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 Quantitaion 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
Arizona	AZ0793	27-May-2026
Arkansas	88-00356_2024	17-Mar-2026
California	2919 - 2025	30-Apr-2026
Dept of Defense	L24-240-R4	30-Apr-2026
Dept of Defense	L24-239-R1	30-Apr-2026
Florida	E87611-2025	30-Jun-2026
Illinois	200032 - 2025	31-Jul-2026
Kansas	KS-C25-00168	31-Jul-2026
Kentucky	123043-2025	30-Apr-2026
Louisiana	03087-2025	30-Jun-2026
Louisiana	LA028	31-Dec-2026
Maine	2024017	23-Jun-2026
Maryland	343-2025-26	30-Jun-2026
Michigan	9971-2025	30-Apr-2026
Missouri	136	30-Sep-2026
Nebraska	NE-OS-25-13 - 2025	30-Apr-2026
Nevada	NV-C25-00124 - 2025	31-Jul-2026
New Hampshire	209425	24-Apr-2026
New Jersey	TX008-2025	30-Jun-2026
New York	11707 - 2025	01-Apr-2026
North Carolina	624-2026	31-Dec-2026
Oregon	TX200002-013	15-May-2026
Pennsylvania	019	01-Jul-2026
Tennessee	TN	30-Apr-2026
Texas	TX-C25-00104	30-Apr-2026
Utah	TX026932025-17	31-Jul-2026

Sample Receipt Checklist

Work Order ID: HS26010095 **Date/Time Received:** **07-Jan-2026 09:04**

Client Name: PBW **Received by:** **Liam Senior**

Completed By:	/S/ ruden.vakiari	07-Jan-2026 11:38	**Reviewed by:**	/S/ Beverly Mustafa	07-Jan-2026 12:02
	eSignature	Date/Time		eSignature	Date/Time

Matrices: **GW** Carrier name: **FedEx**

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 ☐	2 Page(s)
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	COC IDs:346420;346419
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):	1.6uc/1.6c;3.4uc/3.4c;0.9uc/0.9c	ir#34
Cooler(s)/Kit(s):	52364;54625;52046	
Date/Time sample(s) sent to storage:	01/07/2026 11:38	

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: DIFFERENT TIME COLLECTION ON THE WG-1620-P-10-20260106. ON THE CHAIN OF CUSTODY 10:58 AND ON THE BOTTLE 11:58.

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

Page 1 of 2

COC ID: 346419

HS26010095

WSP Austin

Houston TX-Wood Preserving Works

ALS Project Manager:

Customer Information		Project Information			
Purchase Order		Project Name	TX - Wood Preserving Works	A	8270 LOW W (SemiVolatiles Select list ATZ)
Work Order		Project Number	1620-23-Rev0	B	8270 LOW W (SemiVolatiles Select list BTZ)
Company Name	WSP USA	Bill To Company	WSP-HOU	C	8270 LOW W (SemiVolatiles Select list ATZ&BTZ)
Send Report To	Manny Higa	Invoice Attn	Accounts Payable	D	MS/MSD
Address	16200 Park Row Suite 200	Address	9855 Katy Freeway Suite 200	E	
				F	
City/State/Zip	Houston, TX 77084	City/State/Zip	Houston TX 77024	G	
Phone	(281) 913-1936	Phone	(281) 913-1936	H	
Fax		Fax		I	
e-Mail Address	emmanuel.higa@wsp.com	e-Mail Address	arthur.gibson@alsglobal.com	J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	WG-1620-MW-11B-20260105	1-5-2026	1041	GW	NONE	2		X									
2	WG-1620-MW-11A-20260105	1-5-2026	1150	GW	None	2	X										
3	WG-1620-MW-10B-20260105	1-5-2026	1320	GW	NONE	2		X									
4	WG-1620-MW-10A-20260105	1-5-2026	1348	GW	NONE	2	X										
5	WG-1620-MW-02-20260105	1-5-2026	1430	GW	NONE	2	X										
6	WG-1620-FB01-20260105	1-5-2026	1450	W	NONE	2	X										
7	WG1620-FB02-20260105	1-5-2026	1505	W	NONE	2		X									
8	WG-1620-MW-01A-20260106	1-6-2026	1015	GW	NONE	2	X										
9	WG-1620-MW-07-20260106	1-6-2026	1120	GW	NONE	2	X										
10	WG-1620-MW-08-20260106	1-6-2026	1337	GW	NONE	2	X										

Sampler(s) Please Print & Sign: Charles Young

Shipment Method:

Required Turnaround Time: (Check Box) ☐ Other ☒ STD 10 W. Days ☐ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour

Results Due Date:

Relinquished by:	Date:	Time:	Received by:	Notes:
	1-7-2026	0904	1/7/2026 0904	UPRR HWPW 1620-210 (Previous WO HS25070252)
Relinquished by:	Date:	Time:	Received by (Laboratory):	
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	

Cooler ID	Cooler Temp.
2034	0.0
52364	1.6
54625	3.4
52046	0.9

QC Package: (Check One Box Below)
☐ Level II Std QC
☐ Level III Std QC/Raw Data
☐ Level IV SW846/CLP
☐ Other
☒ TRRP Checklist
☐ TRRP Level IV

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 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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Holland, MI +1 616 399 6070

Chain of Custody Form

Page 2 of 2

COC ID: 346420

HS26010095

WSP Austin
Houston TX-Wood Preserving Works

ALS Project Manager:

Customer Information		Project Information			
Purchase Order		Project Name	TX - Wood Preserving Works	A	8270_LOW_W (SemiVolatiles Select list ATZ)
Work Order		Project Number	1620-23-Rev0	B	8270_LOW_W (SemiVolatiles Select list BTZ)
Company Name	WSP USA	Bill To Company	WSP-HOU	C	8270_LOW_W (SemiVolatiles Select list ATZ&BTZ)
Send Report To	Manny Higa	Invoice Attn	Accounts Payable	D	MS/MSD
Address	16200 Park Row Suite 200	Address	9855 Katy Freeway Suite 200	E	
				F	
City/State/Zip	Houston, TX 77084	City/State/Zip	Houston TX 77024	G	
Phone	(281) 913-1936	Phone	(281) 913-1936	H	
Fax		Fax		I	
e-Mail Address	emmanuel.higa@wsp.com	e-Mail Address	arthur.gibson@alsglobal.com	J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	WG-1620-P-10-20260106	1-6-2026	1058	GW	NONE	2		X									
2	WG-1620-P-12-20260106	1-6-2026	1445	GW	NONE	4		X		X							
3	WG-1620-FD01-20260106	1-6-2026	—	GW	NONE	2	X										
4	WG-1620-FD02-20260106	1-6-2026	—	GW	NONE	2		X									
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: Charles Young

Shipment Method:

Required Turnaround Time: (Check Box) ☐ Other ☒ STD 10 Wk Days ☐ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour

Results Due Date:

Relinquished by:	Date: 1-7-26	Time: 0904	Received by:	1/7/26	Notes: UPRR HWPW 1620-21D (Previous WO HS25070252)
Relinquished by:	Date:	Time:	Received by (Laboratory):		
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):		

Cooler ID	Cooler Temp.

QC Package: (Check One Box Below)
☐ Level II Std QC
☐ Level II Std QC/Raw Data
☐ Level IV SW846/CLP
☐ Other
☒ TRRP Checklist
☐ TRRP Level IV

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 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
F: +1 281 530 5887

February 18, 2026

Manny Higa
WSP Austin
1601 S. MoPac Expressway
Suite 325D
Austin, TX 78746

Work Order: **HS26020184**

Laboratory Results for: **Houston TX-Wood Preserving Works**

Dear Manny Higa ,

ALS Environmental received 2 sample(s) on Feb 06, 2026 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,

Alexis Dorenbosch

Generated By: DAYNA.FISHER
Alexis Dorenbosch
Project Manager

Client:	WSP Austin	**TRRP Laboratory Data Package Cover Page**
Project:	Houston TX-Wood Preserving Works	
WorkOrder:	**HS26020184**	

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.

ALS Houston, US Date: 18-Feb-26

Client:	WSP Austin	**TRRP Laboratory Data Package Cover Page**
Project:	Houston TX-Wood Preserving Works	
WorkOrder:	**HS26020184**	

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.

Alexis Dorenbosch

Alexis Dorenbosch

Project Manager

Laboratory Review Checklist: Reportable Data							
Laboratory Name: ALS Laboratory Group			LRC Date: 02/16/2026				
Project Name: Houston TX-Wood Preserving Works			Laboratory Job Number: HS26020184				
Reviewer Name: Alexis Dorenbosch			Prep Batch Number(s): 238420				
#[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		
		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				3
		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: 02/16/2026				
Project Name: Houston TX-Wood Preserving Works			Laboratory Job Number: HS26020184				
Reviewer Name: Alexis Dorenbosch			Prep Batch Number(s): 238420				
#[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: 02/16/2026
Project Name: Houston TX-Wood Preserving Works	Laboratory Job Number: HS26020184
Reviewer Name: Alexis Dorenbosch	Prep Batch Number(s): 238420

ER#[5]	Description
1	Semivolatiles by method SW8270, Sample WG-1620-MW-01A-20260206 Surrogate recoveries were outside of the control limits due to matrix interference.
2	Batch 238420, Semivolatiles by method SW8270, LCS/LCSD provided as batch quality control in lieu of MS/MSD
3	Log In Notes: Sample Label Times Differ for WG-1620-MW-01A-20260206: Chain of Custody 12:25 , Label 12:30 Per client email on February 9, 2026, reporting only Bis(2-ethylhexyl)phthalate for both 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: WSP Austin
Project: Houston TX-Wood Preserving Works
Work Order: HS26020184

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS26020184-01	WG-1620-MW-01A-20260206	Groundwater		06-Feb-2026 12:30	06-Feb-2026 15:25	☐
HS26020184-02	WG-1620-FD01-20260206	Groundwater		06-Feb-2026 12:45	06-Feb-2026 15:25	☐

Client: WSP Austin
Project: Houston TX-Wood Preserving Works
Sample ID: WG-1620-MW-01A-20260206
Collection Date: 06-Feb-2026 12:30

ANALYTICAL REPORT
WorkOrder:HS26020184
Lab ID:HS26020184-01
Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D	**Method:SW8270**				Prep:SW3510 / 07-Feb-2026		Analyst: AR
Bis(2-ethylhexyl)phthalate	**0.00014**	J	**0.000037**	**0.00020**	**mg/L**	1	11-Feb-2026 19:54
Surr: 2,4,6-Tribromophenol	*5.76*	*S*		*34-129*	*%REC*	*1*	*11-Feb-2026 19:54*
Surr: 2-Fluorobiphenyl	*61.9*			*40-125*	*%REC*	*1*	*11-Feb-2026 19:54*
Surr: 2-Fluorophenol	*43.4*			*20-120*	*%REC*	*1*	*11-Feb-2026 19:54*
Surr: 4-Terphenyl-d14	*67.7*			*40-135*	*%REC*	*1*	*11-Feb-2026 19:54*
Surr: Nitrobenzene-d5	*57.3*			*41-120*	*%REC*	*1*	*11-Feb-2026 19:54*
Surr: Phenol-d6	*54.6*			*20-120*	*%REC*	*1*	*11-Feb-2026 19:54*

Client: WSP Austin
Project: Houston TX-Wood Preserving Works
Sample ID: WG-1620-FD01-20260206
Collection Date: 06-Feb-2026 12:45

ANALYTICAL REPORT
WorkOrder:HS26020184
Lab ID:HS26020184-02
Matrix:Groundwater

ANALYSES	RESULT	QUAL	SDL	MQL	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW-LEVEL SEMIVOLATILES BY 8270D	**Method:SW8270**				Prep:SW3510 / 07-Feb-2026		Analyst: AR
Bis(2-ethylhexyl)phthalate	**0.00012**	J	**0.000037**	**0.00020**	**mg/L**	1	11-Feb-2026 20:18
Surr: 2,4,6-Tribromophenol	*53.3*			*34-129*	*%REC*	*1*	*11-Feb-2026 20:18*
Surr: 2-Fluorobiphenyl	*55.7*			*40-125*	*%REC*	*1*	*11-Feb-2026 20:18*
Surr: 2-Fluorophenol	*65.6*			*20-120*	*%REC*	*1*	*11-Feb-2026 20:18*
Surr: 4-Terphenyl-d14	*60.5*			*40-135*	*%REC*	*1*	*11-Feb-2026 20:18*
Surr: Nitrobenzene-d5	*55.6*			*41-120*	*%REC*	*1*	*11-Feb-2026 20:18*
Surr: Phenol-d6	*70.0*			*20-120*	*%REC*	*1*	*11-Feb-2026 20:18*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Weight / Prep Log

Client: WSP Austin
Project: Houston TX-Wood Preserving Works
WorkOrder: HS26020184

Batch ID: 238420 **Start Date:** 07 Feb 2026 11:37 **End Date:** 07 Feb 2026 11:37
Method: SV AQ SEP FUN EXTRACT-LOWLEV - 3510C **Prep Code:** 3510_B_LOW

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS26020184-01	1	1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat
HS26020184-02	1	1000 (mL)	1 (mL)	0.001	1-liter amber glass, Neat

Client: WSP Austin
Project: Houston TX-Wood Preserving Works
WorkOrder: HS26020184

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 238420 (0)	**Test Name :** LOW-LEVEL SEMIVOLATILES BY 8270D				**Matrix:** Groundwater	
HS26020184-01	WG-1620-MW-01A-20260206	06 Feb 2026 12:30		07 Feb 2026 11:37	11 Feb 2026 19:54	1
HS26020184-02	WG-1620-FD01-20260206	06 Feb 2026 12:45		07 Feb 2026 11:37	11 Feb 2026 20:18	1

WorkOrder: HS26020184
InstrumentID: SV-12
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	Bis(2-ethylhexyl)phthalate	117-81-7	0.00010	0.00015	0.000037	0.00020
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

Client: WSP Austin
Project: Houston TX-Wood Preserving Works
WorkOrder: HS26020184

QC BATCH REPORT

Batch ID: 238420 (0) **Instrument: SV-10** **Method: LOW-LEVEL SEMIVOLATILES BY 8270D**

MBLK Sample ID: **MBLK-238420** Units: **ug/L** Analysis Date: **09-Feb-2026 11:43**
Client ID: Run ID: **SV-10_531241** SeqNo: **9256120** PrepDate: **07-Feb-2026** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bis(2-ethylhexyl)phthalate	< 0.037	0.20								
Surr: 2,4,6-Tribromophenol	*3.139*	*0.20*	*5*	*0*	*62.8*	*34 - 129*				
Surr: 2-Fluorobiphenyl	*2.876*	*0.20*	*5*	*0*	*57.5*	*40 - 125*				
Surr: 2-Fluorophenol	*3.126*	*0.20*	*5*	*0*	*62.5*	*20 - 120*				
Surr: 4-Terphenyl-d14	*4.108*	*0.20*	*5*	*0*	*82.2*	*40 - 135*				
Surr: Nitrobenzene-d5	*2.901*	*0.20*	*5*	*0*	*58.0*	*41 - 120*				
Surr: Phenol-d6	*3.265*	*0.20*	*5*	*0*	*65.3*	*20 - 120*				

LCS Sample ID: **LCS-238420** Units: **ug/L** Analysis Date: **09-Feb-2026 12:04**
Client ID: Run ID: **SV-10_531241** SeqNo: **9256121** PrepDate: **07-Feb-2026** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bis(2-ethylhexyl)phthalate	3.9	0.20	5	0	78.0	40 - 139				
Surr: 2,4,6-Tribromophenol	*3.458*	*0.20*	*5*	*0*	*69.2*	*34 - 129*				
Surr: 2-Fluorobiphenyl	*2.984*	*0.20*	*5*	*0*	*59.7*	*40 - 125*				
Surr: 2-Fluorophenol	*3.297*	*0.20*	*5*	*0*	*65.9*	*20 - 120*				
Surr: 4-Terphenyl-d14	*3.481*	*0.20*	*5*	*0*	*69.6*	*40 - 135*				
Surr: Nitrobenzene-d5	*3.146*	*0.20*	*5*	*0*	*62.9*	*41 - 120*				
Surr: Phenol-d6	*3.411*	*0.20*	*5*	*0*	*68.2*	*20 - 120*				

LCSD Sample ID: **LCSD-238420** Units: **ug/L** Analysis Date: **09-Feb-2026 12:26**
Client ID: Run ID: **SV-10_531241** SeqNo: **9256122** PrepDate: **07-Feb-2026** DF: **1**

Analyte	Result	MQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bis(2-ethylhexyl)phthalate	3.646	0.20	5	0	72.9	40 - 139	3.9	6.73	20	
Surr: 2,4,6-Tribromophenol	*3.484*	*0.20*	*5*	*0*	*69.7*	*34 - 129*	*3.458*	*0.749*	*20*	
Surr: 2-Fluorobiphenyl	*3.041*	*0.20*	*5*	*0*	*60.8*	*40 - 125*	*2.984*	*1.89*	*20*	
Surr: 2-Fluorophenol	*3.075*	*0.20*	*5*	*0*	*61.5*	*20 - 120*	*3.297*	*6.97*	*20*	
Surr: 4-Terphenyl-d14	*3.331*	*0.20*	*5*	*0*	*66.6*	*40 - 135*	*3.481*	*4.4*	*20*	
Surr: Nitrobenzene-d5	*3.063*	*0.20*	*5*	*0*	*61.3*	*41 - 120*	*3.146*	*2.67*	*20*	
Surr: Phenol-d6	*3.329*	*0.20*	*5*	*0*	*66.6*	*20 - 120*	*3.411*	*2.43*	*20*	

The following samples were analyzed in this batch: HS26020184-01 HS26020184-02

Client: WSP Austin
Project: Houston TX-Wood Preserving Works
WorkOrder: **HS26020184**

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 Quantitaion 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
Arizona	AZ0793	27-May-2026
Arkansas	88-00356_2024	17-Mar-2026
California	2919 - 2025	30-Apr-2026
Dept of Defense	L24-240-R4	30-Apr-2026
Dept of Defense	L24-239-R1	30-Apr-2026
Florida	E87611-2025	30-Jun-2026
Illinois	200032 - 2025	31-Jul-2026
Kansas	KS-C25-00168	31-Jul-2026
Kentucky	123043-2025	30-Apr-2026
Louisiana	03087-2025	30-Jun-2026
Louisiana	LA028	31-Dec-2026
Maine	2024017	23-Jun-2026
Maryland	343-2025-26	30-Jun-2026
Michigan	9971-2025	30-Apr-2026
Missouri	136	30-Sep-2026
Nebraska	NE-OS-25-13 - 2025	30-Apr-2026
Nevada	NV-C25-00124 - 2025	31-Jul-2026
New Hampshire	209425	24-Apr-2026
New Jersey	TX008-2025	30-Jun-2026
New York	11707 - 2025	01-Apr-2026
North Carolina	624-2026	31-Dec-2026
Oklahoma	2026-078	31-Dec-2026
Oregon	TX200002-013	15-May-2026
Pennsylvania	019	01-Jul-2026
Tennessee	TN	30-Apr-2026
Texas	TX-C25-00104	30-Apr-2026
Utah	TX026932025-17	31-Jul-2026

ALS Houston, US Date: 18-Feb-26

Sample Receipt Checklist

Work Order ID: HS26020184 **Date/Time Received:** **06-Feb-2026 15:25**

Client Name: PBW **Received by:** **Si Ma**

Completed By: */S/ Si Ma* 06-Feb-2026 18:15 **Reviewed by:** */S/ Beverly Mustafa* 09-Feb-2026 08:16

eSignature Date/Time eSignature Date/Time

Matrices: **GW** 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:336869
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):	2.0UC/2.0C	IR37
Cooler(s)/Kit(s):	24085	
Date/Time sample(s) sent to storage:	02/06/2026 18:16	

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: Sample Label Times Differ for WG-1620-MW-01A-20260206: Chain of Custody 12:25 , Label 12:30

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 1 of 1

COC ID: 336869

HS26020184

WSP Austin

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 (8260 Volatile Organics (7))
Work Order		Project Number	1620-21-Rev0 SR 92688	B	8270_LOW_W (SemiVolatiles Select List (27))
Company Name	WSP Austin	Bill To Company	Union Pacific Railroad- A/P	C	ICP_TW (ICP Arsenic)
Send Report To	Manny Higa	Invoice Attn	Accounts Payable	D	+ Vinyl Chloride
Address	1601 S. MoPac Expressway Suite 325D	Address	1400 Douglas Street Stop 0750	E	
				F	
City/State/Zip	Austin, TX 78746	City/State/Zip	Omaha NE 681790750	G	
Phone	(512) 275-0593	Phone		H	
Fax	(832) 792-6659	Fax		I	
e-Mail Address	emmanuel.higa@wsp.com	e-Mail Address	arthur.gibson@alsglobal.com	J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	WG-1620-MW-01A-20260206	2-6-2026	1225	GW	N	2		X									
2	WG-1620-FD01-20260206	2-6-2026	1245	GW	N	2		X									
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: Charles Young

Shipment Method: HAND Carry

Required Turnaround Time: (Check Box) ☒ 7 ☐ 5 ☐ 3 ☐ 2 ☐ 1 ☐ SD

Results Due Date:

Relinquished by:	Date: 2-6-2026	Time: 1525	Received by:	Notes: UPRR HWPW1620-21
Relinquished by:	Date:	Time:	Received by (Laboratory): 02/06/26 15:25	Cooler ID: 24085 / Cooler Temp.: 2.0
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	

QC Package: (Check One Box Below)

☐ Level II Std QC ☐ Level III Std QC/Raw Data ☐ Level IV SW846/CLP ☐ Other ☒ TRRP Checklist ☐ TRRP Level IV

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 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.

PM 37 CFO. 3

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Revised 2/9/26

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Chain of Custody Form

Page 1 of 1

COC ID: 336869

HS26020184

WSP Austin

Houston TX-Wood Preserving Works

ALS Project Manager:

Customer Information		Project Information			
Purchase Order	UPRR/Kevin Peterbuts	Project Name	Houston TX-Wood Preserving Works	A	8260_LL_W (8260 Volatile Organics (7))
Work Order		Project Number	1620-21-Rev0 SR 92682	B	8270_LOW_W (Semivolatiles Select List (27))
Company Name	WSP Austin	Bill To Company	Union Pacific Railroad- A/P	C	ICP_TW (ICP Arsenic)
Send Report To	Manny Higa	Invoice Attn	Accounts Payable	D	+ Vinyl Chloride
Address	1601 S. MoPac Expressway Suite 325D	Address	1400 Douglas Street Stop 0750	E	
				F	
City/State/Zip	Austin, TX 78746	City/State/Zip	Omaha NE 68179-0750	G	
Phone	(512) 275-0595	Phone		H	
Fax	(832) 792-6656	Fax		I	
e-Mail Address	emmanuel.higa@wsp.com	e-Mail Address	arthur.gibson@alsglobal.com	J	

REVISED 02/09/26-AD

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	WG-1620-MW-01A-20260206	2-6-2026	1225	GW	N	2		X									
2	WG-1620-FD01-20260206	2-6-2026	1245	GW	N	2		X									
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

MLA 2/9/26

Sampler(s) Please Print & Sign: Charles Young

Shipment Method: HAND Carry

Required Turnaround Time: (Check Box) [X]

Results Due Date:

Relinquished by:	Date:	Time:	Received by:	Notes:
	2-6-26	1525		UPRR HWPW 1620-21
Relinquished by:	Date:	Time:	Received by (Laboratory): GM 02/06/26 15:25	Cooler ID: 24085 / Cooler Temp: 2.0 / QC Package: (Check One Box Below) [X]
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

PR# 137 Exp. 3

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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APPENDIX D

Waste Manifests

Please print or type. Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	TXD000820266	1	888-877-7267	025006402 JJK

GENERATOR

5. Generator's Name and Mailing Address: Union Pacific Railroad (UPRR) c/o GHD
9100 Centre Pointe Dr Suite 240
West Chester, OH 45069
Generator's Phone: 414-267-4164

Generator's Site Address (if different than mailing address)
4910 Liberty Rd
Houston, Tx 77026

6. Transporter 1 Company Name: E3 Environmental Deer Park
U.S. EPA ID Number: TXD981055163

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address: US Ecology Robstown
3277 County Rd 69
Robstown, Tx 78380
Facility's Phone: 800-242-3209
U.S. EPA ID Number: TXD069452340

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. RQ NA3082 Hazardous Waste Liquid, NOS Creosote, Benzene) 9 PG III (F034)	3	DM	600	P	F034 D018 D019 219H
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1) Profile#090130010-0 Exp. 3.24.26 WR#024612 ERG 171
Job#135-26-0009
PO#135-2026-0020

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Anthony Mcmullins on behalf of UPRR
Signature: [signature]
Month: 2 Day: 25 Year: 26

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Alfredo Flores
Signature: [signature]
Month: 2 Day: 25 Year: 26

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H042			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Terrence Carter
Signature: [signature]
Month: 02 Day: 27 Year: 26

Please print or type. Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	TXD000820266	1	888-877-7267	025006404 JJK

GENERATOR

5. Generator's Name and Mailing Address: Union Pacific Railroad (UPRR) c/o GHD
9100 Centre Pointe Dr Suite 240
West Chester, OH 45069
Generator's Phone: 414-267-4164

Generator's Site Address (if different than mailing address):
4910 Liberty Rd
Houston, Tx 77026

6. Transporter 1 Company Name: E3 Environmental Deer Park
U.S. EPA ID Number: TXD981055163

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Address: US Ecology Robstown
3277 County Rd 69
Robstown, Tx 78380
Facility's Phone: 800-242-3209
U.S. EPA ID Number: TXD069452340

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. NA3082 Hazardous Waste Liquid, NOS (Creosote) 9 PG III RQ (F034)	18	DM	18000	P	F034 09141101H
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1) Profile#090129643-0 Exp. 3.16.26 WR#024613 ERG 171
Job#135-26-0009
PO#135-2026-0020

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Anthony McMullins on behalf of UPRR
Signature: Anthony Mcmullins
Month: 2 Day: 25 Year: 26

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Alfredo Flores
Signature:
Month: 2 Day: 25 Year: 26

Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H042			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Laraunce Carter
Signature:
Month: 02 Day: 27 Year: 26

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UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	TXD000820266	1	888-877-7267	025006405 JJK

GENERATOR

5. Generator's Name and Mailing Address: Union Pacific Railroad (UPRR) c/o GHD
9100 Centre Pointe Dr Suite 240
West Chester, OH 45069
Generator's Phone: 414-267-4164

Generator's Site Address (if different than mailing address)
4910 Liberty Rd
Houston, Tx 77026

6. Transporter 1 Company Name: E3 Environmental Deer Park
U.S. EPA ID Number: TXD981055163

7. Transporter 2 Company Name: US ECOLOGY
U.S. EPA ID Number: NVK593743838

8. Designated Facility Name and Site Address: US Ecology - Robstown
3277 County Rd 69
Robstown, Tx 78380
Facility's Phone: 800-242-3209

U.S. EPA ID Number: TXD069452340

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. NA3082 Hazardous Waste Liquid, NOS (Creosote) 9 PG III RQ (F034)	3	DM	600	P	F034 0914 101H
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1) Profile#090129643-0 Exp. 3.16.26 WR#024613 ERG 171
Job#135-26-0009
PO#135-2026-0020

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Anthony McMullins on behalf of UPRR
Signature: Anthony Mcmullins
Month: 2 Day: 26 Year: 26

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Alfredo Flores
Signature:
Month: 2 Day: 26 Year: 26

Transporter 2 Printed/Typed Name: Richard Almaguer
Signature:
Month: 2 Day: 26 Year: 26

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H042			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Terrance Carter
Signature:
Month: 03 Day: 05 Year: 26

Please print or type. Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: TXD000820266
2. Page 1 of: 1
3. Emergency Response Phone: 888-877-7267
4. Manifest Tracking Number: 025350950 JJK

GENERATOR

5. Generator's Name and Mailing Address: Union Pacific Railroad
9100 Centre Pointe Dr Suite 240
West Chester, OH 45069
Generator's Phone: 414-267-4164

Generator's Site Address (if different than mailing address)
4910 Liberty Rd
Houston, Tx 77026

6. Transporter 1 Company Name: E3 Environmental Deer Park
U.S. EPA ID Number: TXD981055163

7. Transporter 2 Company Name: US ECOLOGY
U.S. EPA ID Number: NJK593743838

8. Designated Facility Name and Site Address: US Ecology
3277 County Rd 69
Robstown, Tx 78380
Facility's Phone: 800-242-3209
U.S. EPA ID Number: TXD069452340

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. NA3082 Hazardous Waste Liquid, NOS (Creosote, Benzene) 9 PG III RQ (F034)	6	DM	500	P	F034	D018 0918	219H
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1) Profile#090130010-0 Exp. 8.28.26 WR#025335
Job#135-26-0009
PO#135-2026-0020

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Anthony McMullins on behalf of UPRR
Signature:
Month: 5 Day: 5 Year: 26

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: James Henry
Signature:
Month: 5 Day: 5 Year: 26

Transporter 2 Printed/Typed Name: Richard Almaguer
Signature:
Month: 5 Day: 5 Year: 26

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H042			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Phillip Dan Myers
Signature:
Month: 5 Day: 15 Year: 26

EPA Form 8700-22 (Rev. 12-17) Previous editions are obsolete.

DESIGNATED FACILITY TO EPA's e-MANIFEST SYSTEM

APPENDIX E

POC Concentration vs. Time Graphs

Figure E-1
2-Methylnaphthalene Concentrations vs Time - A-TZ Unit
UPRR HWPW Facility - RCRA SWMU No. 1

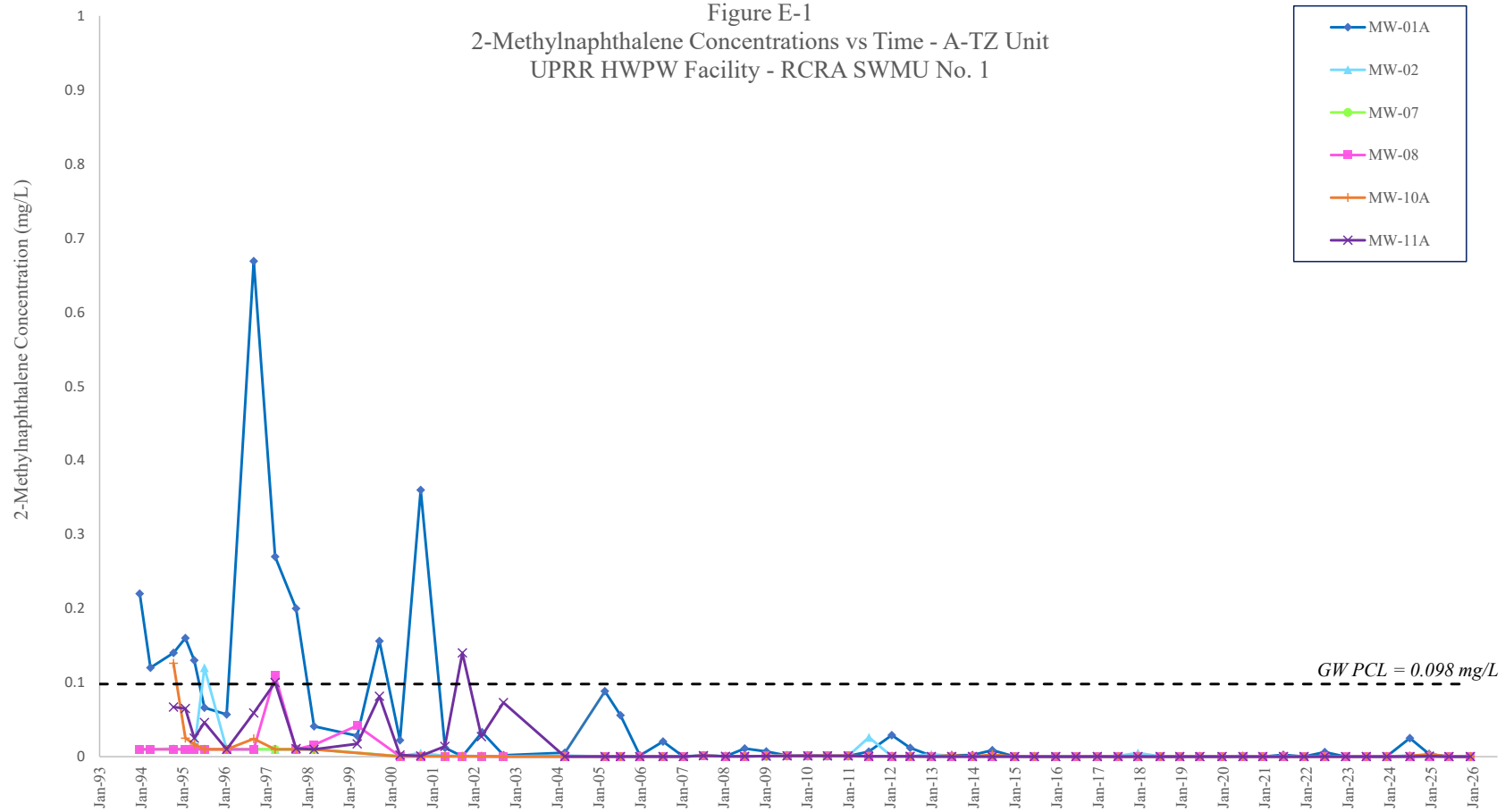


Figure E-2
Dibenzofuran Concentrations vs Time - A-TZ Unit
UPRR HWPW Facility - RCRA SWMU No. 1

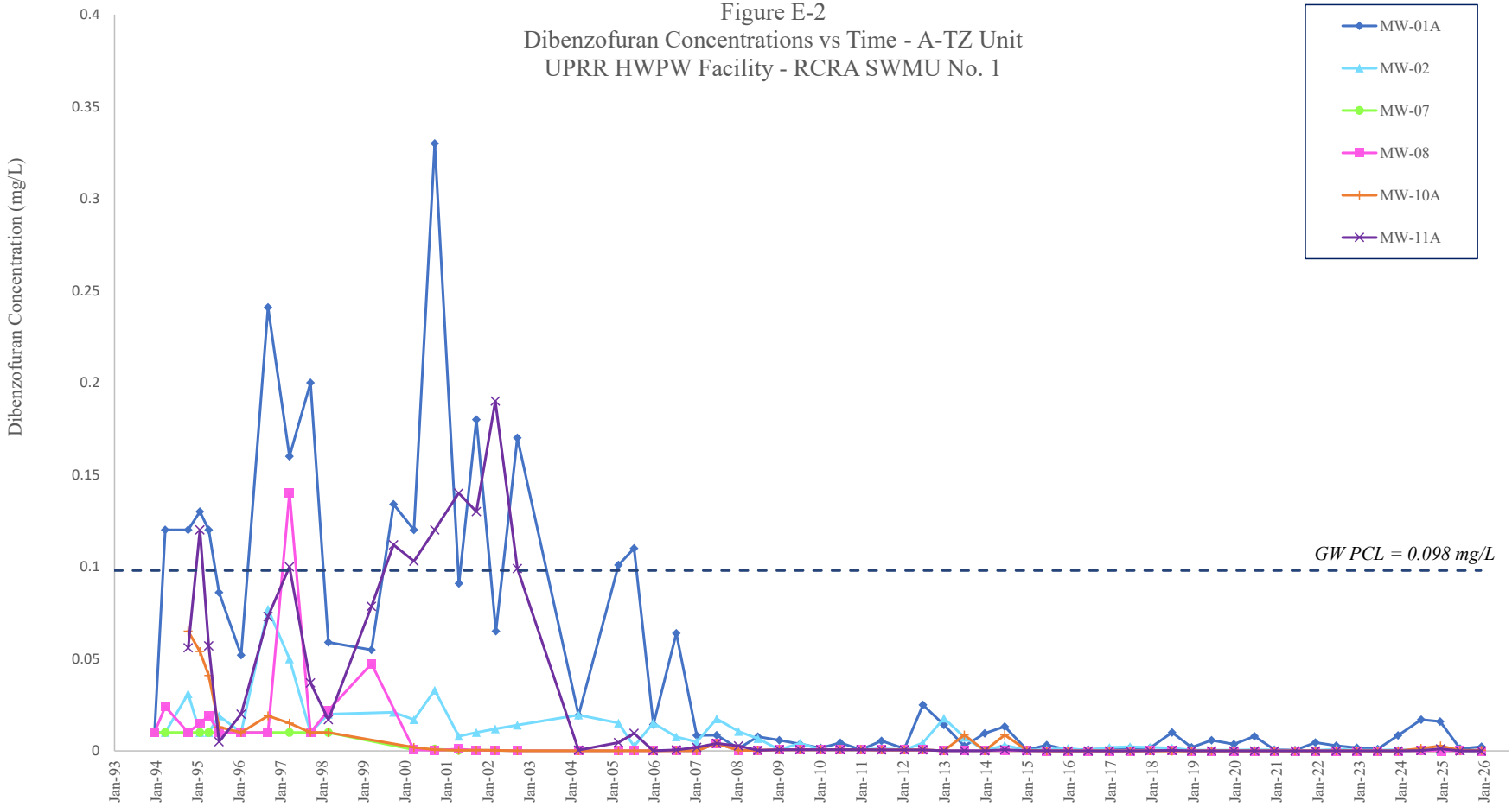


Figure E-3
Naphthalene Concentrations vs Time - A-TZ Unit
UPRR HWPW Facility - RCRA SWMU No. 1

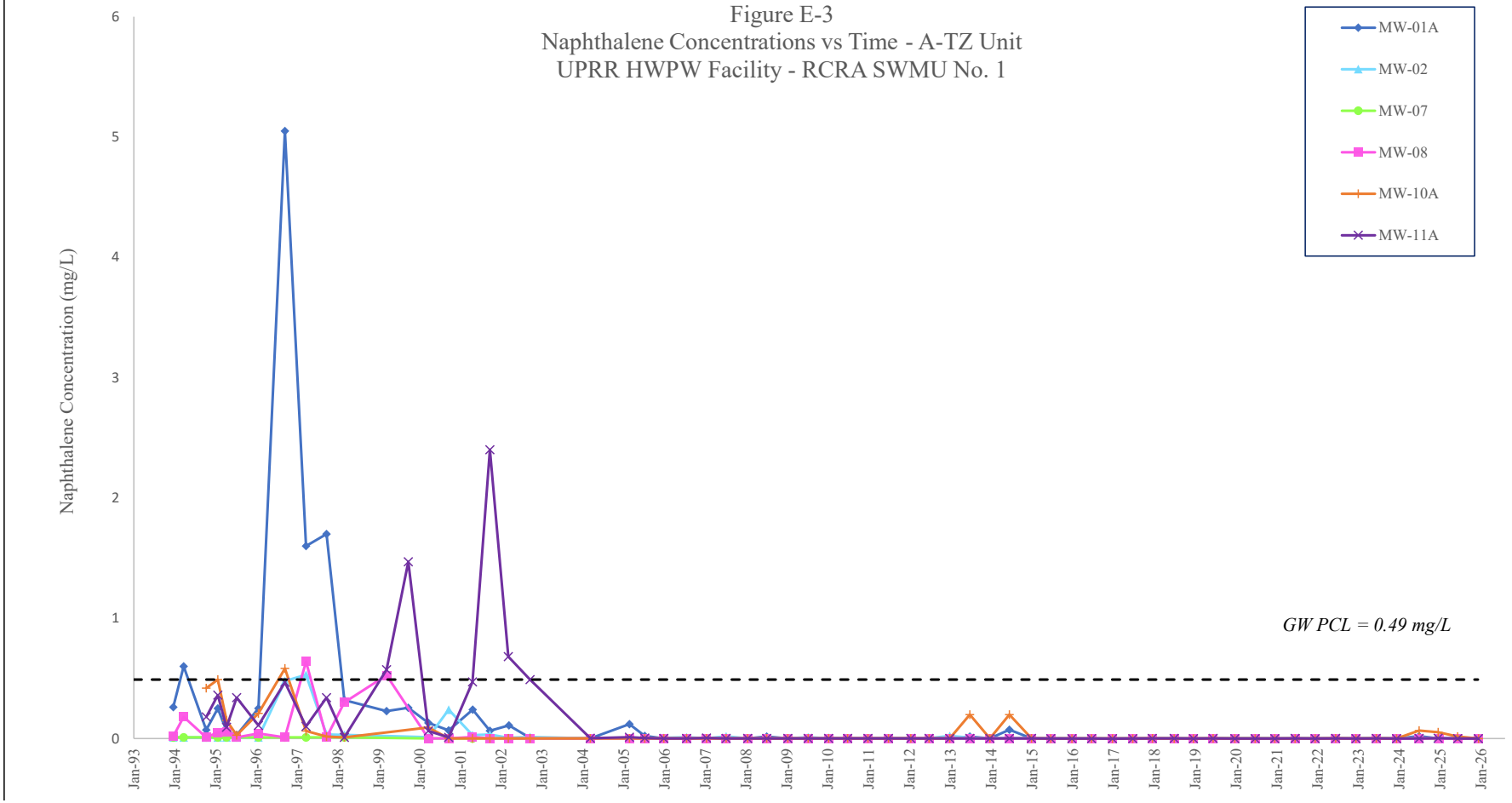
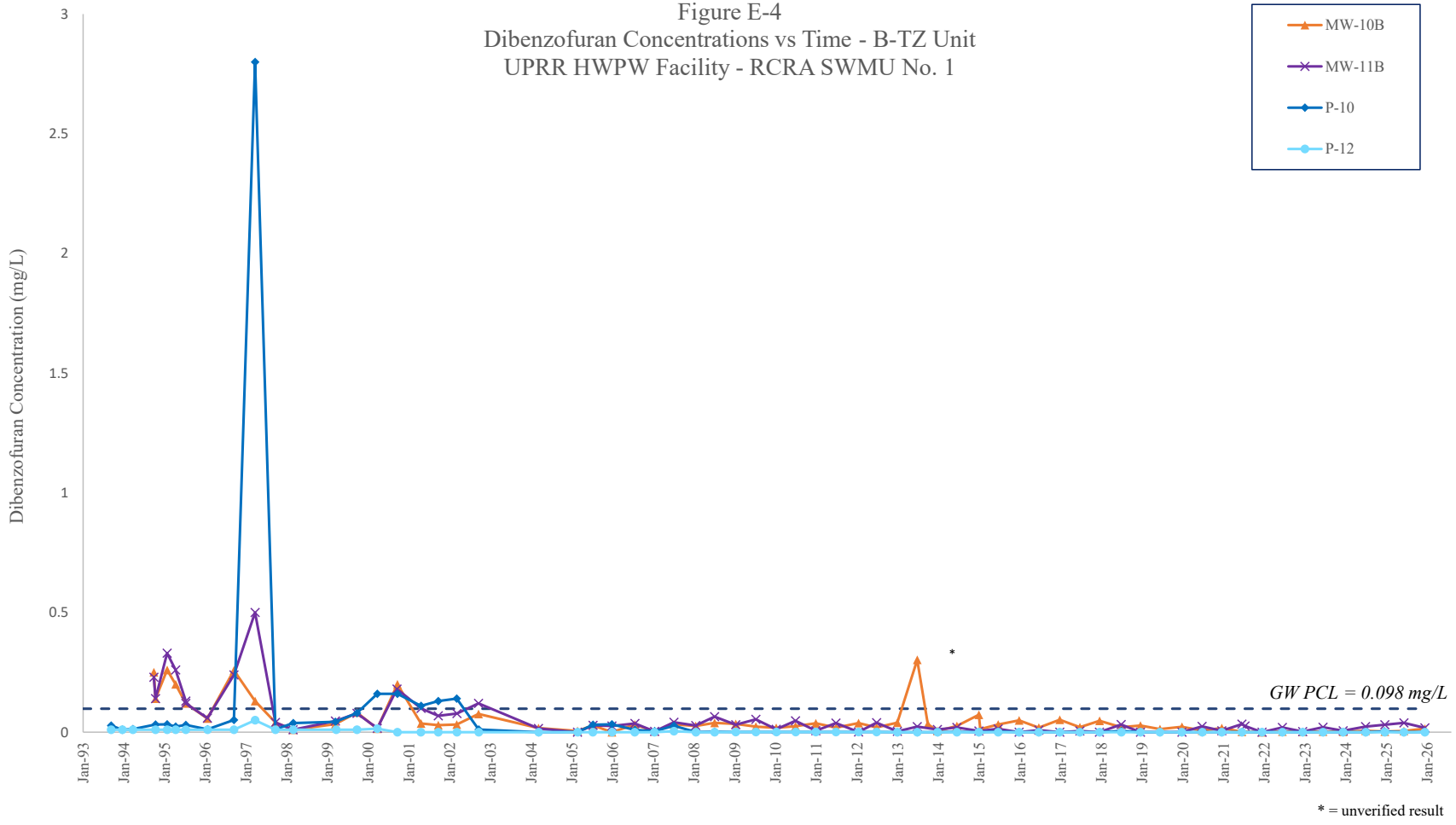
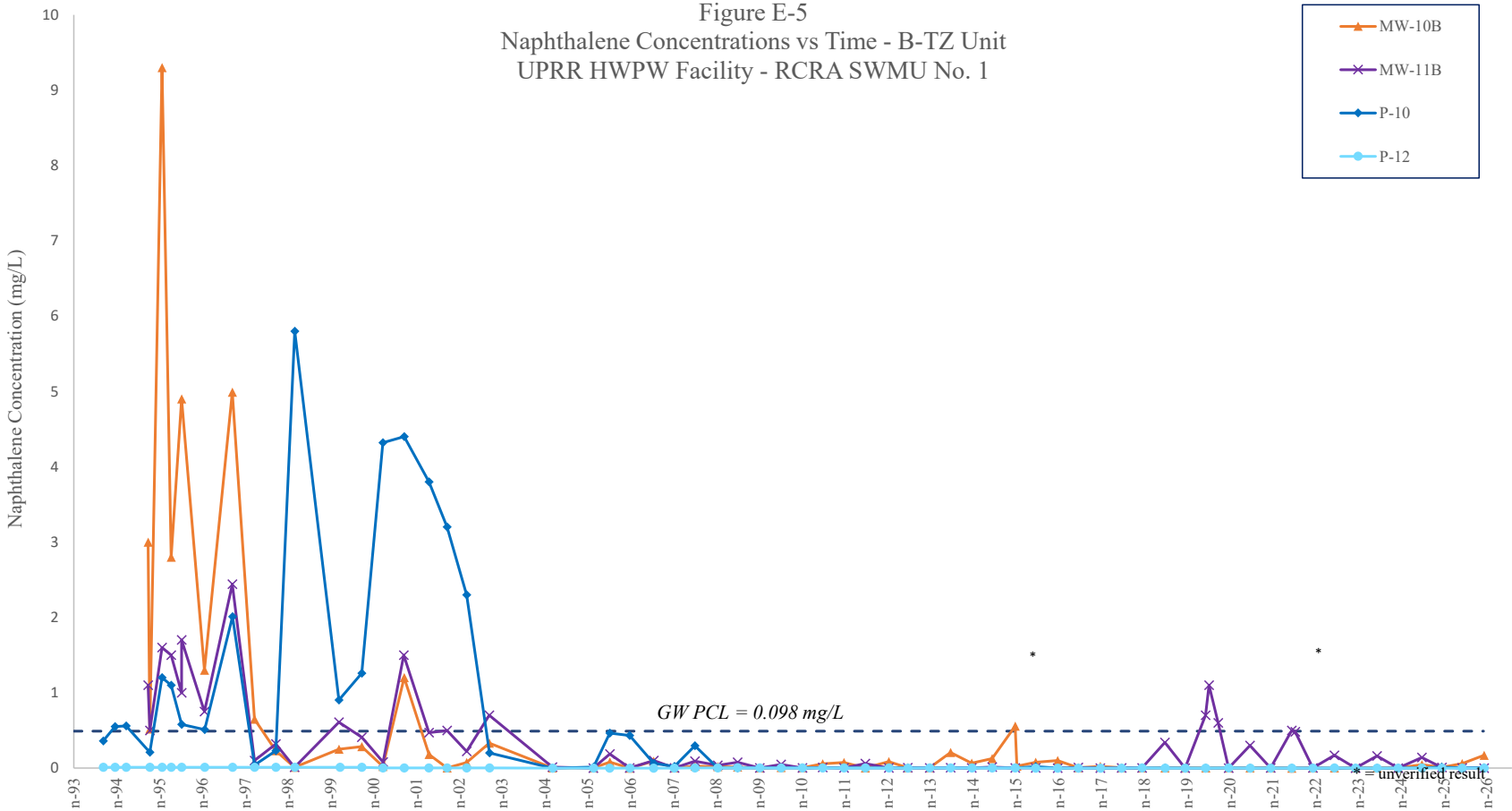


Figure E-4
Dibenzofuran Concentrations vs Time - B-TZ Unit
UPRR HWPW Facility - RCRA SWMU No. 1



* = unverified result

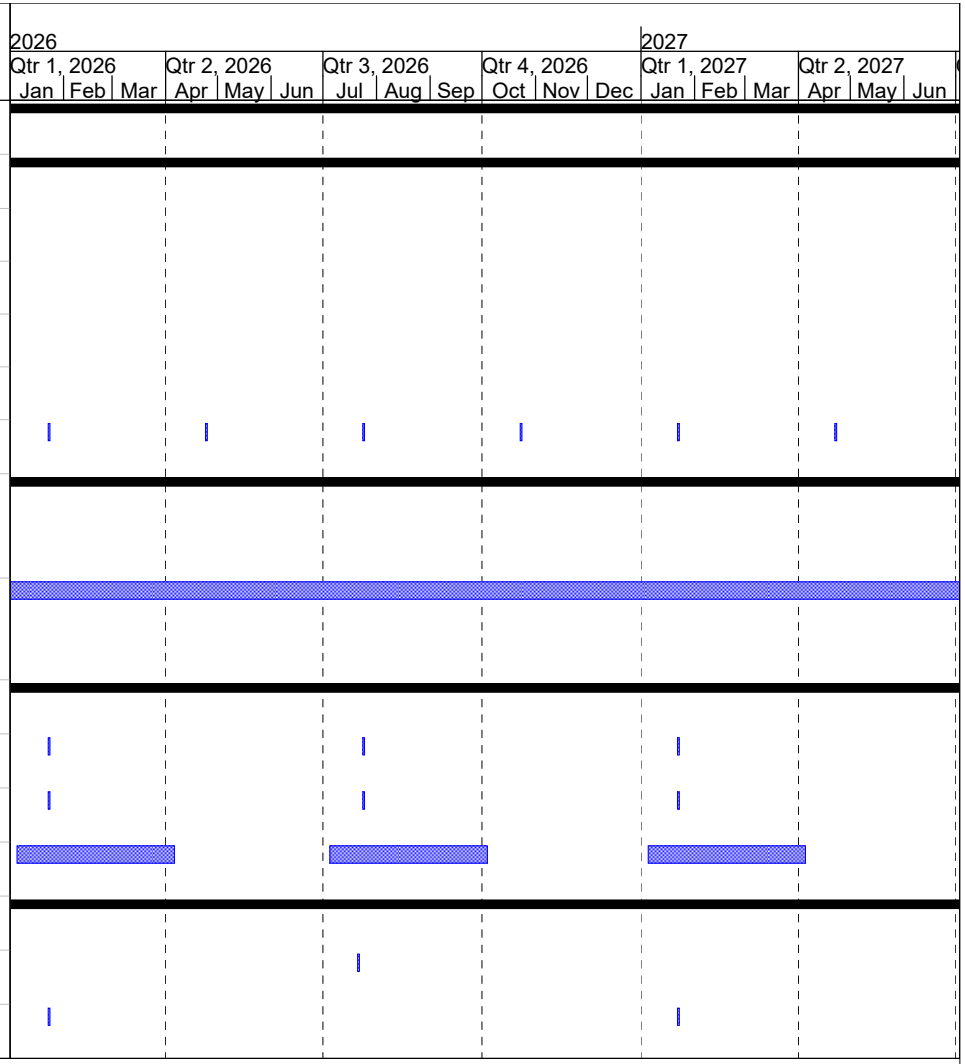
Figure E-5
Naphthalene Concentrations vs Time - B-TZ Unit
UPRR HWPW Facility - RCRA SWMU No. 1



APPENDIX F

Updated Compliance Schedule

ID	Task Name/Permit or CP Section No.
1	**Facility Management**
2	**RCRA Permit/Compliance Plan Renewal and Major Amendments**
15	Permit Revision No. 5, 6, and 7
16	Preliminary Decision and Final Draft Permit Issued
17	Public Meeting
18	Public Comment Period
19	General Inspection Requirements (quaterly) [Permit Section III.D; Table III.D]
103	**Corrective Measures Implementation (CMI)/Response Action Plan (RAP) [CP Section VIII.F]**
110	Implement Corrective Action as detailed in RAP (pending approval of Permit Renewal/Compliance Plan)
111	**Ground-Water Monitoring Program [Permit Section VI.A.; CP Section VI.]**
112	Water Level Measurements (Semiannually) [CP Section VI.C.4.a]1
152	Monitoring Well Inspections (Semiannually) [CP Section VI.C.4.a]1
193	**Groundwater Sampling and Data Evaluation [CP Section VI.C.2]**
244	**Response and Reporting [Permit Section II.B.7; CP Section VII.)**
245	First Semi-Annual GW Monitoring Report - July 21 [CP Section VII.C.2]
265	Second Semi-Annual GW Monitoring Report - January 21 [CP Section VII.C.2]



Compliance Schedule
UPRR Houston Wood Preserving Works Site
Houston, Texas

Task
Milestone
Summary
Rolled Up Task
Rolled Up Milestone
Rolled Up Progress
External Tasks
Manual Summary

APPENDIX G

Laboratory Data QA/QC Report Checklist

FORMER HOUSTON WOOD PRESERVING WORKS
LABORATORY DATA QA/QC REPORT CHECKLIST
ANALYTICAL REPORT HS26010095 & HS26020184
April 15, 2026

Facility Name: Former Houston Wood Preserving Works SWMU 1	**Permit/ISW Reg No.: 50343**	**For TCEQ Use Only**
Laboratory Name: ALS Environmental	**EPA I.D. No.:**	**Project Mgr:**
Reviewer Name: Herman Tay		
Date: 04/14/2026	**Date:**	

Description	Status	More in Case Narrative (Check Box)	Technically Complete
1. Were laboratory analyses performed by a laboratory accredited by TCEQ, whose accreditation included the matrix (ces), methods, and parameters associated with the data? If not was an explanation given in the Case-Narrative (e.g., laboratory exemption, accreditation for method /parameter not available from TCEQ)?	**Yes☒ No☐ NA☐**	☐	**Yes☐ No☐ NA☐**
2. Was a Case Narrative from laboratory (QC data description summary) submitted with the data set?	**Yes☒ No☐ NA☐**	☐	**Yes☐ No☐ NA☐**
3. Are the sample collection, preparation and analyses methods listed in the permit, preparation and analysis methods listed in the permit or other documents specifying criteria the ones used on the final report?	**Yes☒ No☐ NA☐**	☐	**Yes☐ No☐ NA☐**
4. Were there any modifications to the sample collection, preparation and/or analytical methodology (ies)? If so was the description included on the Case-Narrative?	**Yes☐ No☒ NA☐** **Yes☐ No☐ NA☒**	☐	**Yes☐ No☐ NA☐**
5. Were all samples prepared and analyzed within required holding times?	**Yes☒ No☐ NA☐**	☐	**Yes☐ No☐ NA☐**
6. Were samples properly preserved according to method and QAPP requirements?	**Yes☒ No☐ NA☐**	☐	**Yes☐ No☐ NA☐**

Description	Status	More in Case Narrative (Check Box)	Technically Complete
7. Have the method detection limits (MDL) and/or practical quantitation limit (PQL) been defined in the final report? Note: NELAC uses terms limit of detection (LOD) and Limit of Quantitation respectively.	**Yes☒ No☐ NA☐**	☐	**Yes☐ No☐ NA☐**
8. Do parameters listed on final report match regulatory parameters of concern (POC) specified in permit and/or Waste Analysis Plan or other required document? Note: POC may also be referred to chemicals of concern (COCs)	**Yes☒ No☐ NA☐**	☐	**Yes☐ No☐ NA☐**
9. Are the POCs included within the analytical methods target analyte list?	**Yes☒ No☐ NA☐**	☐	**Yes☐ No☐ NA☐**
10. Were the appropriate type(s) of blanks analyzed?	**Yes☒ No☐ NA☐**	☐	
11. Did any blank samples contain POC concentrations >5x or 10x of MDL? If so, please explain potential bias?	**Yes☐ No☒ NA☐**	☐	**Yes☐ No☐ NA☐**
12. Were method blanks taken through the entire preparation and analytical process?	**Yes☒ No☐ NA☐**	☐	**Yes☐ No☐ NA☐**
13. Did the calibration curve and continuing calibration verification meet regulatory (e.g. NELAC Standards) method specifications (No. of standards, acceptance criteria, etc.)?	**Yes☒ No☐ NA☐**	☐	**Yes☐ No☐ NA☐**
14. Do the initial calibration standards include a concentration below the regulatory limit/decision level? If not please explain? If an MDL and PQL are each used on a report then the relationship between the two must be defined for each method.	**Yes☒ No☐ NA☐** **Yes☐ No☐ NA☒**	☐	**Yes☐ No☐ NA☐**
15. Were manual peak integrations performed? If so pre and post chromatograms and method change histories may be requested?	**Yes☐ No☒ NA☐** **Yes☐ No☐ NA☒**	☐	**Yes☐ No☐ NA☐**
16. Were all results bracketed by a lower and upper range calibration standard?	**Yes☒ No☐ NA☐**	☐	**Yes☐ No☐ NA☐**
17. Was any result reported outside of the range of the calibration standards?	**Yes☒ No☐ NA☐**	☐	**Yes☐ No☐ NA☐**
18. Were all matrix spike (MS) and MS duplicate (MSD) recoveries within the data decision making goals of QC data in the RCRA/UIC QAPP and/or within the laboratories control charts? If not were data flagged with explanation in case narrative?	**Yes☒ No☐ NA☐** **Yes☐ No☐ NA☒**	☐	**Yes☐ No☐ NA☐**
19. Were all of the MS and MSD relative percent differences (RPDs) within the data decision making goals of QC data in the RCRA/UIC QAPP? If not were data flagged with explanation in case narrative?	**Yes☒ No☐ NA☐** **Yes☐ No☐ NA☒**	☐	**Yes☐ No☐ NA☐**
20. Were all laboratory control sample (LCS) recoveries at least within the MS and MSD ranges of recoveries and within laboratories control charts? If not were data flagged with explanation in Case Narrative?	**Yes☒ No☐ NA☐** **Yes☐ No☐ NA☒**	☐	**Yes☐ No☐ NA☐**

Description	Status	More in Case Narrative (Check Box)	Technically Complete
21. Were all POCs (COCs) in the LCS?	**Yes☒ No☐ NA☐**	☐	**Yes☐ No☐ NA☐**
22. Were the MS and MSD from samples collected for this work order or other samples in the analytical batch as defined by the NELAC Standards? *This information is used to identify factors contributing to matrix interferences. It should not be assumed, unless it is understood by the laboratory, that samples relating to this report were the ones selected to be fortified with the POCs*.	**Yes☐ No☒ NA☐**	☒	**Yes☐ No☐ NA☐**
23. Were any of the samples diluted? If so were appropriate calculations made to the MDL and/or PQL of the final report?	**Yes☒ No☐ NA☐**	☐	**Yes☐ No☐ NA☐**

LABORATORY DATA REPORT QA/QC CHECKLIST
LABORATORY CASE-NARRATIVE
(To accompany laboratory checklist)

Facility Name: Former Houston Wood Preserving Works SWMU 1	**Permit/ISW Reg No.: 50343**
Laboratory Name: ALS Environmental	**EPA I.D. No.:**

Method No.	Non-conformance Description	Method Modification Description
SW8270	Surrogate recoveries for the sample (WG-1620-MW10B-20260105), could not be determined due to dilution below the calibration range.	
SW8270	MS and MSD for the sample (WG-1620-P-12-20260106) recovered outside the control limit for Di-n-butyl-phthalate.	
	Different time collection on the sample (WG-1620-P-10-20260106).	
SW8270	Surrogate recoveries for the sample (WG-1620-MW-01A-20260206), were outside of the control limits due to matrix interference. -HS26020184	

Method No.	Non-conformance Description	Method Modification Description
SW8270	LCS/LCSD provided as bath quality control in lieu of MS/MSD.	