See Ecology comment letter dated September 28, 2023 providing clarification of some of the information contained in this letter report.

August 31, 2023

Ms. Tena Seeds
Senior Engineer, Uplands Unit
Northwest Region Toxics Cleanup Program
Washington State Department of Ecology
15700 Dayton Ave N
Shoreline, WA 98133

RE: Block 37 Independent Action Report
Subsurface Investigation and Groundwater Monitoring Results
Phillips 66 Facility No. 255353 (AOC #5292)
BLOCK 37 SITE
600 – 630 WESTLAKE AVENUE NORTH
SEATTLE, WASHINGTON
AGREED ORDER NO: DE 19430

Dear Ms. Seeds:

Atlas Technical Consultants (Atlas), on behalf of Phillips 66 Company (P66) and City Investors XI L.L.C. (City Investors), is pleased to submit this Independent Action Report documenting the subsurface investigation and groundwater monitoring activities conducted at the Block 37 Site. The Block 37 Site, as defined under Agreed Order DE 19430 (AO), is where a hazardous substance, other than a consumer product in consumer use, has been deposited, stored, disposed of, or placed, or otherwise come to be located. The Block 37 Site is generally located at 600 through 630 Westlake Avenue North in Seattle, Washington (Block 37 Property) and limited portions of the adjacent City of Seattle rights-of-way. The Block 37 Property location is shown on **Figure 1-1**. The immediate vicinity of the Block 37 Property and surrounding area are shown on **Figure 1-2**.

1.0 BACKGROUND

An Agency Review Remedial Investigation (AR RI) Work Plan was prepared on behalf of P66 and City Investors in accordance with Agreed Order No. DE 19430 (AO) effective May 4, 2021, and entered into by the Washington State Department of Ecology (Ecology) with P66 and City Investors (Ecology, 2021). The ARD RI Work Plan that is currently under review by Ecology was submitted on October 4, 2021, revised on April 11, 2023, and submitted as Final on August 23, 2023, and describes the scope of work for RI activities necessary to be conducted to resolve investigative data gaps and complete site characterization tasks in accordance with Washington State's Model Toxics Control Act (MTCA) for the Block 37 Site.

The completed independent action documented herein included two phases of subsurface investigation (geotechnical and sheet pile wall investigation), and groundwater monitoring and sampling. The results obtained by the independent action supplement the pending RI, which will be conducted following finalization of the revised AR RI Work Plan. The independent action subsurface investigation activities were conducted by Farallon Consulting, L.L.C. of Issaquah, Washington (Farallon), and groundwater monitoring and sampling activities were conducted by both Farallon and Atlas.

The first phase of the independent action work included soil sampling and installation and sampling of wells completed for geotechnical purposes in March and May 2021 and the second phase included soil sampling and installation and sampling of wells as part of the existing sheet pile structural shoring wall investigation in January 2022 at the Block 37 Property. Both the geotechnical and sheet pile wall investigations were conducted to support future development design and construction of a new building on the Block 37 Property. On March 5, 2021, Farallon requested from Ecology to approve the environmental sampling work conducted in conjunction with the geotechnical investigation and Ecology provided concurrence via an email on March 10, 2021, indicating that the work can be performed as an independent action.

The nature of the subsurface investigation requested to be performed by Farallon in conjunction with the sheet pile wall investigation was outlined in an email to Ecology on January 4, 2022. In their response email dated January 6, 2022, Ecology advised Farallon that the proposed work appeared to meet the applicability requirement for an independent action under MTCA, WAC 173-340-515(2) for the Block 37 Site since the proposed work would not interfere with the RI work nor interfere with selection of a final cleanup action for the Block 37 Site.

Following completion of each phase of subsurface investigation, groundwater monitoring and sampling was conducted at newly installed wells B-37-3 through B-37-9 in April and May 2021, and in select monitoring wells at the Block 37 Site, including the collection of groundwater samples during four consecutive quarters in February, May, August, and November 2022.

This report documents subsurface investigation activities, sample collection methods, Farallon's and Atlas's field observations, and presents the analytical results. A detailed version of the Block 37 Site history is presented in the AR RI Work Plan.

2.0 FIELD ACTIVITIES

2.1 PRE-FIELD ACTIVITIES

Prior to the beginning of subsurface soil work, underground utilities and piping in the vicinity of the proposed borings were identified by requesting a public utility locate through the One Call Utility Notification Service.

2.2 SOIL BORINGS AND MONITORING WELLS INSTALLATION

From March 16 through 19 and May 4 through 6, 2021, GeoEngineers, Inc. advanced borings B-37-3 through B-37-9 at the Block 37 Property in order to gather geotechnical data in support of future construction activities. Farallon collected soil and later groundwater samples to support soil and groundwater characterizations. Borings were completed as monitoring wells B-37-3 through B-37-7 with screens completed in the shallow water-bearing zone and monitoring wells B-37-8 and B-37-9 completed in the intermediate water-bearing zone. Advancement of borings and installation of monitoring wells B-37-3 through B-37-7 is documented in the *Geotechnical Master Use Permit Report, Block 37-South Lake Union Development, Seattle, Washington* dated February 8, 2022, prepared by GeoEngineers, Inc (Geotechnical Report).

Drilling activities were conducted on January 26 and 27, 2022, in conjunction with a structural shoring investigation to support future development design and construction at the Block 37 Property and to verify the depth and construction of the sheet pile wall that was previously installed along the western boundary of the Block 37 Property to accommodate the remedial excavations conducted between 2006 and 2009. The drilling and soil sampling work was conducted at four locations on the Block 37 Property, identified as PH-1 through PH-4 and depicted on the attached Figure 4-2 from the revised AR RI Work Plan. Borings PH-1 and PH-2 were located to be proximate to borings AB-4 and AB-7 that are proposed in the AR RI Work Plan. Monitoring well PH-2 was located to be proximate to proposed monitoring well AMW-1 in the AR RI Work Plan, and to evaluate groundwater quality near the top of the shallow water-bearing zone. Monitoring wells PH-1 and PH-3 were installed to evaluate groundwater quality near the base of the shallow water-bearing zone just below the expected development excavation. A monitoring well was not installed within boring PH-4.

Malcolm Drilling Company of Kent, Washington (Malcolm), a structural shoring contractor, advanced the four borings to approximately 50 feet below ground surface (bgs) adjacent to the existing sheet pile wall on the west side of the Block 37 Property. Borings were advanced using a Terra Sonic drilling rig, and soil was screened continuously during advancement of the soil borings, for lithologic profiling, field screening and chemical analysis. Samples were collected via Sonic equipment (macro-core sampler equipped with disposable acetate

liners). The macro-core samplers were advanced continuously. The Malcolm Drilling report is included in **Appendix A**.

Samples were field-screened for the presence of volatile organic constituents (VOCs) using a portable photoionization detector (PID). Soil lithology was described in general accordance with ASTM D2488. Boring logs are included in **Appendix B**.

2.3 SOIL SAMPLING

Soil samples were collected during drilling of the borings, in order to characterize the soil for disposal and to inform the scope of on-property work for the RI at the Block 37 Site. Field screening and collection of soil samples were performed during drilling. Soil samples were collected continuously from the ground surface to the bottom of each boring, at approximately 50 feet bgs at each location. Select soil samples were collected and transferred directly into laboratory-prepared glass sample containers for potential laboratory analysis. The soil samples were placed on ice in a cooler and delivered to the On-Site Environmental laboratory of Redmond, Washington (On-Site) using standard chain-of-custody procedures.

The depths from which the soils samples were collected for laboratory analysis for borings B-37-3 through B-37-9 were from 5 feet bgs to depths between 24 to 33 feet bgs. The depths from which the soil samples were collected for laboratory analysis from borings PH-1, PH-2/AMW-1, and PH-3 were 15, 20, 25, 30, and 35 feet bgs. The depths from which the soil samples were collected for laboratory analysis from boring PH-4 were 25, 30, and 35 feet bgs. The soil samples from each of the borings were submitted on a standard 7-day turnaround time for laboratory analysis for the analysis of one or more of the following Contaminants of Potential Concern (COPCs) identified in the AR RI Work Plan, and for Polychlorinated Biphenyl (PCBs), Carcinogenic polycyclic aromatic hydrocarbons (CPAHs), and the metals barium and chromium:

- Total petroleum hydrocarbons (TPH) as gasoline-range organics (GRO) by Northwest Method NWTPH-Gx.
- Total petroleum hydrocarbons as diesel- and as oil-range organics (DRO and ORO) by Northwest Method NWTPH-Dx.
- Benzene, toluene, ethylbenzene, xylenes (BTEX), and methyl tertiary-butyl ether (MTBE) by U.S. Environmental Protection Agency (EPA) Method 8260D.
- CPAHs and naphthalene by U.S. EPA Method 8270E/Selective Ion Monitoring.
- Metals arsenic and lead by U.S. EPA 200-, 6000-, and 7000-Series Methods.
- PCBs as Aroclors by U.S. EPA Method 8028.

Select soil samples also were analyzed for cadmium, mercury, and fuel additives 1,2-dibromoethane and 1,2-dichloroethane. In accordance with Ecology requirements, soil samples collected for BTEX/GRO were obtained from the macro-core samplers and split spoons using a laboratory provided, hand-held plunger set to collect the appropriate volume of soil for subsequent analysis using EPA Method 8260D. Soil collected in the plunger was transferred to laboratory-prepared volatile organic analysis (VOA) vials equipped with septum lids. Samples for remaining analysis was transferred to laboratory-prepared jars equipped with Teflon lids. All samples were immediately placed in a laboratory provided cooler with ice and kept cool until delivery to the laboratory. Standard chain-of-custody procedures were followed during transport of the samples to the laboratory.

2.4 MONITORING WELL INSTALLATION

Borings B-37-3 through B-37-6 were completed as monitoring wells in the shallow water-bearing zone and screened at depths between approximately 15 to 25 bgs (11.8 to 2.2 feet NAVD 88). Boring B-37-7 was completed as a monitoring well screened across the base of the shallow water-bearing zone, but slightly penetrating into the intermediate zone at depths between approximately 30 to 40 bgs (-0.8 to -11 feet NAVD88). Borings B-37-8 and B-37-9 were completed as monitoring wells in the intermediate water-bearing zone and screened at depths between approximately 30 to 40 feet bgs (0 to 10 feet NAVD 88).

Monitoring wells were installed at soil borings PH-1, PH-2/AMW-1, and PH-3. A monitoring well was not installed at boring PH-4 because there was no groundwater data gap identified for this location in the AR RI Work Plan. Monitoring wells PH-1 and PH-3 were screened from +6 to -4 feet North American Vertical Datum of 1988 (NAVD88) elevation (a 10-foot screen), which corresponds to approximately 24 to 34 bgs. The screen depth for monitoring wells PH-1 and PH-3 was selected to evaluate groundwater quality near the base of the shallow water-bearing zone below the expected development excavation. Monitoring well PH-2/AMW-1 was screened from +20 to +5 feet NAVD88 elevation, which is approximately 8 to 23 feet bgs. The monitoring wells were constructed of 4-inch-diameter Schedule 40 polyvinyl chloride casing and 0.020-inch slotted screens. The monitoring wells were completed in flush-mounted steel monuments and developed immediately following installation.

Monitoring wells PH-1, PH-2/AMW-1, and PH-3 were developed by Malcolm Drilling on February 2, 2022 using a submersible pump until water was relatively clear. Well PH-1 was purged for approximately 30 minutes, generating 55 gallons, well PH-2/AMW-1 was purged for 25 min, generating 25 gallons, and well PH-3 was purged for 45 minutes, generating 55 gallons.

2.5 SURVEYING

Following completion of well installation, the elevations of the top of casing (TOC) in the new monitoring wells were surveyed by Bush, Roed, and Hitchings, Inc., of Seattle, Washington. Surveyed the top of casing and ground surface elevations of wells B-37-3 through B-37-9 were provided in the Geotechnical Report. The surveyors' drawings for the wells survey conducted on February 17, 2022 for monitoring wells PH-1, PH-2/AMW-1, and PH-3 and boring PH-4 is included in **Appendix C.** The survey information was gathered in order to calculate groundwater surface elevations for estimation of the groundwater flow direction and gradient of the shallow water-bearing zone.

2.6 GROUNDWATER SAMPLING

Following completion of monitoring well installation, development, and surveying, groundwater monitoring and sampling at existing shallow and intermediate water-bearing zone wells and the newly installed monitoring wells was performed. Prior to purging and sampling, depth to groundwater was measured from the wells. Groundwater levels were measured from the monitoring well TOC using an electronic water level meter. Groundwater elevations were calculated from the surveyed TOC elevations for all of the wells.

In order to aid in assessing long-term trends in groundwater quality, groundwater samples were collected by Farallon for one quarter in 2021 and for four quarters for wells located on the Block 37 Property in 2022 and by Atlas for three quarters in 2022 for wells generally located both on and off the Block 37 Property. Samples were collected using low-flow purge methods with a peristaltic pump and new dedicated polyethylene and silicone tubing. During purging, groundwater parameters were measured using a water quality parameter meter connected in line with sample tubing via a flow-through cell.

Groundwater samples were collected in laboratory-provided bottles following stabilization of measured parameters. Bottles were immediately placed in a laboratory provided cooler with ice and kept cool until delivery to the laboratories. Standard chain-of-custody procedures were observed during transport of the samples to the laboratories.

Groundwater samples collected by Farallon were delivered to On-Site analytical laboratory. Groundwater samples collected by Atlas were delivered to Pace Analytical Laboratory of Minneapolis, Minnesota (Pace) and Fremont Analytical of Seattle, Washington (Fremont). The groundwater samples from these monitoring wells were analyzed for the same COPCs and additional analyses using methods cited for the soil sample analysis above.

2.6.1 Second Quarter 2021

Samples were collected by Farallon on April 1 and May 10, 2021. Farallon collected samples for analysis from existing City Investors wells B-37-3 through B-37-9.

2.6.2 First Quarter 2022

Samples were collected by both Farallon and Atlas on February 16-17, 2022. Farallon collected samples for analysis from newly installed wells PH-1, PH-2/AMW-1, and PH-3, from existing City Investors wells B-37-1 (GEI-1), B-37-2 (GEI-2), B-37-3 through B-37-9, and FMW-139, and existing P66 wells MWR-3, MWR-6, MW-45, MW-50, and MW-54. Atlas collected samples for analysis from existing P66 wells MW-209 through MW-218.

2.6.3 Second Quarter 2022

Samples were collected by Farallon on May 17-18, 2022. Farallon collected samples for analysis from wells PH-1, PH-2/AMW-1, and PH-3, from existing City Investor wells B-37-1 (GEI-1), B-37-2 (GEI-2), B-37-3 through B-37-9, and FMW-139, and existing P66 wells MWR-3, MWR-6, MW-45, MW-50, and MW-54. Atlas collected samples for analysis from existing P66 wells MW-209 through MW-218.

2.6.4 Third Quarter 2022

Samples were collected by Farallon on August 24-25, 2022, and by Atlas on August 16-17, 2022. Farallon collected samples for analysis from wells PH-1, PH-2/AMW-1, and PH-3, from existing City Investor wells B-37-1 (GEI-1), B-37-2 (GEI-2), B-37-3 through B-37-9, and FMW-139, and existing P66 wells MWR-3, MWR-6, MW-45, MW-50, and MW-54. Atlas collected samples for analysis from existing P66 wells MW-209 through MW-218.

2.6.5 Fourth Quarter 2022

Prior to conducting the fourth quarter 2022 groundwater sampling event, on November 23, 2022, Atlas conducted field activities using surveying and air-knifing in an attempt to locate several on-property wells that had been covered by crushed gravel. Wells MWR-1, MWR-4, and MWR-5 were located and uncovered, while well MWR-2 could not be located.

Samples were collected by Farallon on November 8-9, 2022, and by Atlas on November 30 and December 1, 2022. Farallon collected samples for analysis from wells PH-1, PH-2/AMW-1, and PH-3, from existing City Investor wells B-37-1 (GEI-1), B-37-2 (GEI-2), B-37-3 through B-37-9, and FMW-139, and existing P66 wells MWR-3, MWR-6, MW-45, MW-50, and MW-54. Atlas collected samples for analysis from existing P66 wells MW-209 through MW-215, and from wells MWR-1, MWR-3, MWR-4, and MWR-5. Wells MW-216, MW-217, and MW-218 were not sampled due to access issues (traffic control for the Mercer Street right-of-way access was not available).

2.7 DECONTAMINATION

All reusable drilling equipment were decontaminated prior to the start of drilling and between each drilling location, as needed. The water level indicator used during drilling and groundwater sampling was decontaminated prior to use and between each well location by washing with non-phosphate soap and deionized water solution followed by a deionized water rinse. All decontamination wash water generated during the project was managed as investigation derived waste.

2.8 Investigation Derived Waste

Investigation-derived waste (IDW) generated during the field activities (soil generated during drilling as well as water generated from equipment decontamination, well development and sampling purge water was placed into labeled 16- or 55-gallon drums and temporarily stored on-site pending profiling for disposal. The waste disposal also included soil and decontamination water drums generated from potholing for utilities by Turner around the Block 37 property. Disposal documentation is included in **Appendix D**.

3.0 Site Hydrogeology

The top of the groundwater at the Block 37 Site has historically been encountered between 5 to 13.5 feet bgs in the shallow water-bearing zone, which corresponds to approximately 27 to 18.5 feet NAVD88. Groundwater flow maps during static conditions were generated for the quarterly groundwater monitoring events conducted in 2022 (Figures 3-7 through 3-10). As depicted on the groundwater elevation contour maps, groundwater flow direction for the shallow water-bearing zone at the Block 37 Site appears to flow generally outward from the center of the property. Groundwater flow has generally been northerly towards Lake Union at the northern portion of the Block 37 Site and generally southerly towards Mercer Street at the southern portion of the Block 37 Site, with easterly flow to the east and westerly flow to the west of the north/south divide.

4.0 Analytical Results

4.1 Soil

Laboratory analytical results for the soil samples collected from borings B-37-3 through B-37-9 and PH-1 through PH-4 are summarized below and presented in **Tables 1a, 1b, and 1c**. Laboratory analytical reports for the soil samples collected are included in **Appendix E**.

Concentrations of Block 37 Site COPCs including DRO, ORO, GRO, BTEX, naphthalene, arsenic, and lead plus non-COPCs PCBs and CPAHs, were either not detected at the laboratory practical quantitation limit (PQL) or were detected at concentrations less than the Block 37 Site screening levels presented in the AR RI Work Plan..

4.2 Groundwater

Laboratory analytical results for the groundwater samples collected in 2021 and 2022 from monitoring wells at the Block 37 Site are summarized below and are included in **Tables 2a, through 2d**. Laboratory analytical reports are included in **Appendix E**.

Groundwater analytical data from 2022 sampling activities are depicted on **Figures 4-2a** through **4-2g** from the revised ARD RI Work Plan. Analyte distribution in groundwater based on 2022 sampling results are summarized below:

- GRO was detected in groundwater at a concentration (1,580 micrograms per liter [µg/l]) exceeding the screening level (800 µg/L) in December 2022 at well MWR-5 within the unexcavated portion of the Block 37 Property (Denny's parcel). GRO concentrations were either not detected at the laboratory PQL or were less than the screening levels in groundwater samples collected from remaining wells on the Block 37 Property, the remaining wells in Mercer Street, and wells between the Block 37 Property and Lake Union (**Figure 4-2a**).
- Total extractable hydrocarbons [TEH] (DRO/kerosene + ORO) in groundwater was detected at concentrations exceeding the screening level (500 µg/l) at on-property monitoring well B-37-1 (GEI-1) at the northwest corner of the Block 37 Property within the Phase 2 Excavation and in wells MWR-5, MW-45 and MW-50 within the unexcavated portion of the Block 37 Property (Denny's parcel). TEH also exceeded

the screening level in groundwater sample(s) collected from off-property well MW-213 in Valley Street and off-property wells MW-216, MW-217 and MW-218 in the Mercer Street right-of-way. TEH concentrations in groundwater were either not detected at the laboratory PQL or did not exceed the screening level in any other wells on or off the Block 37 Property (**Figure 4-2b**).

- Benzene in groundwater at concentrations exceeding the screening level was detected at monitoring wells B-37-2 (GEI-2), located at the western portion of the Block 37 Property within the Phase 2 Excavation, and in well MWR-5, located within the unexcavated portion of the Block 37 Property (Denny's parcel). Benzene concentrations in groundwater were either not detected at the laboratory PQL or did not exceed the screening level in any other wells on or off the Block 37 Property (**Figure 4-2c**).
- Naphthalene in groundwater was detected at monitoring wells MWR-5 and MW-50, located within the unexcavated portion of the Block 37 Property (Denny's parcel), at concentrations exceeding the screening level. Naphthalene concentrations in groundwater were either not detected at the laboratory PQL or did not exceed the screening level in any other wells on or off the Block 37 Property (**Figure 4-2d**).
- PCBs in groundwater were not detected at any of the monitoring wells at concentrations exceeding the laboratory PQL.
- cPAH TTEC concentrations in groundwater were either not detected at the laboratory PQL or did not exceed the screening level in any wells on or off the Block 37 Property during quarterly groundwater monitoring events conducted in 2021 and 2022 (cPAH TTEC concentrations in groundwater shown on **Figure 4-2e**).
- Total or dissolved lead concentrations in groundwater were either not detected at the laboratory PQL or did not exceed the screening level in any other wells on or off the Block 37 Property (**Figure 4-2f**).
- Total and dissolved arsenic in groundwater were detected at concentrations exceeding the selected screening level (natural background for Puget Sound Basin) in several monitoring wells on and off the Block 37 Property. No sources of arsenic are identified in soil, and the arsenic widespread distribution in groundwater suggests that arsenic is likely a regional issue and not related to historical releases from the Block 37 Site (**Figure 4-2g**).
- Total and dissolved barium and chromium were either not detected at the laboratory PQL or were not detected at concentrations exceeding the selected screening levels in any groundwater samples collected during quarterly groundwater monitoring events conducted in 2021 and 2022 (**Figure 4-2g**).

5.0 SUMMARY

In March and May 2021, GeoEngineers, Inc. advanced seven borings and installed monitoring wells within each of the borings (B-37-3 through B-37-9). In January 2022, Farallon installed four soil borings (PH-1 through PH-4) and completed three as monitoring wells (PH-1, PH-2/AMW-1. And PH-3). During 2021 and 2022, quarterly groundwater monitoring and sampling events were conducted by Farallon and Atlas. Wells on property and in the surrounding rights-of-way were gauged and sampled. The objective of the work was to collect soil information during geotechnical and sheet pile wall investigations, as well as evaluate groundwater quality to supplement the pending RI. Soil samples were collected for the eleven borings, and groundwater samples were collected from the newly installed and select existing monitoring wells on and off the Block 37 Property. Data from the new wells were compared to AR RI Work Plan screening levels. Results from the investigation indicate the following:

- Groundwater contour maps for static conditions indicate that groundwater flow direction at the Block 37 Site appears to flow generally outward from the center of the Block 37 Property.
- Soil analytical results indicated that no compounds were detected at concentrations exceeding their respective screening levels.
- Groundwater analytical results indicated concentrations of GRO, TEH, benzene, naphthalene, and arsenic were detected at concentrations exceeding the Block 37 Site screening levels at limited areas on and off the Block 37 Property.

The soil and groundwater results presented in this letter report have been included in the AR RI Work Plan currently under review by Ecology. The AR RI Work Plan describes additional remedial investigation work necessary to address soil and groundwater data gaps at the Block 37 Site.

We appreciate the opportunity to be of service in this matter. If you have questions regarding this report, please contact me at (206) 491-9754.

Sincerely,
Atlas Technical Consultants

Elisabeth Silver

State of Washington 442 Licensed Geologist

Elisabeth S. Silver

Elisabeth Silver, L.G.
Senior Project Manager

cc: Branislav Jurista and Cliff Schmitt – Farallon
Corey Wilson and Jim Broadlick – City Investors
Eli Gurian – Phillips66

ATTACHMENTS

Tables (Modified: from AR RI Workplan)

Table 1a	Soil Analytical Results – TPH, VOCs, Naphthalene, and PCBs
Table 1b	Soil Analytical Results – PAHs and CPAHs
Table 1c	Soil Analytical Results – Metals
Table 2a	Groundwater Analytical Results – TPH, VOCs, Naphthalene, and PCBs
Table 2b	Groundwater Analytical Results – PAHs and CPAHs
Table 2c	Groundwater Analytical Results – Metals
Table 3	Groundwater Monitoring Results - 2021 and 2022

Figures (from AR RI Workplan)

Figure 1-1	Site Location
Figure 1-2	Site layout
Figure 3-7	Groundwater Elevation Contour Map – February 16, 2022
Figure 3-8	Groundwater Elevation Contour Map – May 17, 2022
Figure 3-9	Groundwater Elevation Contour Map – August 24-25, 2022
Figure 3-10	Groundwater Elevation Contour Map – November 8-9, 2022
Figure 4-2	Existing Groundwater Monitoring Network
Figure 4-2a	2022 Groundwater TPH-GRO Concentrations
Figure 4-2b	2022 Groundwater Total Extractable Hydrocarbons Concentrations
Figure 4-2c	2022 Groundwater Benzene Concentrations
Figure 4-2d	2022 Groundwater Naphthalene Concentrations
Figure 4-2e	2022 Groundwater Total cPAHs Concentrations
Figure 4-2f	2022 Groundwater Total and Dissolved Lead Concentrations
Figure 4-2g	2022 Groundwater Total and Dissolved Metals Concentrations

Appendices

Appendix A	Malcolm Sheet Pile Exploration Report
Appendix B	Boring Logs
Appendix C	Surveyors Report
Appendix D	Disposal Documentation
Appendix E	Laboratory Analytical Reports

REFERENCES

ATLAS, 2023. *Agency Review Remedial Investigation Work Plan*, Block 37, 600-630 Westlake Avenue North, Seattle, King County, Washington 98109. Original Draft Date October 4, 2021. August 23.

Washington State Department of Ecology (Ecology). 2021. Agreed Order No. DE 19430. In the Matter of Remedial Action by: Phillips 66 Company and City Investors XI L.L.C. May 4.

TABLES

Table 1a. Soil Analytical Results - TPH, VOCs, Naphthalene, and PCBs
Independent Action Report
Block 37 Site
600-630 Westlake Avenue North | Seattle, Washington

Sample ID	Sample Excavated (Yes=sample removed; No=sample present)	Sample Depth (feet bgs)	Elevation (feet NAVD88)	Sample Date	Consultant	TPH (mg/kg)					VOCs[4] (mg/kg)							PAHs (mg/kg)	PCB (Aroclors) (mg/kg)
						GRO[1]	DRO[2]	ORO[2]	TEH (DRO + ORO)[3]	Kerosene	Benzene	Toluene	Ethyl benzene	Total Xylenes	EDB	EDC	MTBE	Naphthalene	
Screening Levels [5]																			
SL-1 Direct Contact						**1,500**	**NE**	**NE**	**NE**	**NE**	**18**	**6,400**	**8,000**	**16,000**	**0.50**	**11**	**560**	**1,600**	**1.0**
SL-2 Protect Drinking Water Vadose Zone						**30**	**2,000**	**2,000**	**2,000**	**2,000**	**0.027**	**4.5**	**5.9**	**14**	**0.00027**	**0.023**	**0.1**	**4.5**	**0.34**
SL-5 Protect Drinking Water Saturated Zone						**30**	**2,000**	**2,000**	**2,000**	**2,000**	**0.0017**	**0.27**	**0.34**	**0.83**	**0.000018**	**0.0016**	**0.0072**	**0.24**	**0**
SL-10 Natural Background						**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**
Laboratory PQL						**5**	**15**	**10**	**3.44**	**NA**	**0.02**	**0.05**	**0.05**	**0.15**	**0.05**	**0.05**	**0.05**	**0.2**	**0.0330**
B-37-3-5.0	No	5	22.5	3/16/2021	Farallon	< 4.9	< 28	< 56	42	--	< 0.00089	< 0.0044	< 0.00089	< 0.0027	--	--	< 0.00089	< 0.0074	--
B-37-3-13.0	No	13	14.5	3/16/2021	Farallon	< 4.8	< 29	86	101	--	< 0.00085	< 0.0043	< 0.00085	< 0.0026	--	--	< 0.00085	< 0.0077	--
B-37-3-19.0	No	19	8.5	3/16/2021	Farallon	< 5.5	53 N	300	353	--	< 0.001	< 0.005	< 0.001	< 0.003	--	--	< 0.001	< 0.0078	--
B-37-3-24.0	No	24	3.5	3/16/2021	Farallon	< 5.8	< 30	< 61	45.5	--	< 0.00082	< 0.0041	< 0.00082	< 0.0024	--	--	< 0.00082	0.018	--
B-37-4-5.0	No	5	22.4	3/17/2021	Farallon	< 4.7	< 26	71	84	--	< 0.00083	< 0.0042	< 0.00083	< 0.0025	--	--	< 0.00083	< 0.007	--
B-37-4-13.0	No	13	14.4	3/17/2021	Farallon	< 4.2	< 27	230	244	--	< 0.0007	< 0.0035	< 0.0007	< 0.0021	--	--	< 0.0007	0.0075	--
B-37-4-19.0	No	19	8.4	3/17/2021	Farallon	< 5.8	< 29	540	555	--	< 0.00099	< 0.0049	< 0.00099	< 0.003	--	--	< 0.00099	< 0.0075	--
B-37-4-24.0	No	24	3.4	3/17/2021	Farallon	< 8.8	72 N	490	562	--	< 0.0013	0.0087	< 0.0013	< 0.0038	--	--	< 0.0013	< 0.0089	--
B-37-5-5.0	No	5	23	3/18/2021	Farallon	< 4.2	< 28	340	354	--	< 0.0008	< 0.004	< 0.0008	< 0.0024	--	--	< 0.0008	< 0.0075	--
B-37-5-13.0	No	13	15	3/18/2021	Farallon	< 4.8	< 29	< 57	43	--	< 0.00084	< 0.0042	< 0.00084	< 0.0025	--	--	< 0.00084	< 0.0076	--
B-37-5-20.0	No	20	8	3/19/2021	Farallon	< 6.9	< 33	88	105	--	0.0028	< 0.0053	< 0.0011	< 0.0032	--	--	< 0.0011	0.16	--
B-37-5-25.0	No	25	3	3/19/2021	Farallon	< 5.6	< 30	72	87	--	< 0.00091	< 0.0046	< 0.00091	< 0.0027	--	--	< 0.00091	0.028	--
B-37-5-33.0	No	33	-5	3/19/2021	Farallon	< 5.1	< 29	< 58	43.5	--	< 0.00081	< 0.004	< 0.00081	< 0.0024	--	--	< 0.00081	< 0.0077	--
B-37-6-5.0	No	5	22.5	3/18/2021	Farallon	< 4.8	< 27	< 54	40.5	--	< 0.00082	< 0.0041	< 0.00082	< 0.0024	--	--	< 0.00082	< 0.0072	--
B-37-6-17.0	No	17	10.5	3/18/2021	Farallon	< 7.6	< 36	120	138	--	< 0.0011	< 0.0054	< 0.0011	< 0.0032	--	--	< 0.0011	0.13	--
B-37-6-20.0	No	20	7.5	3/18/2021	Farallon	< 5.6	< 31	< 61	46	--	< 0.00089	< 0.0045	< 0.00089	< 0.0027	--	--	< 0.00089	0.026	--
B-37-6-25.0	No	25	2.5	3/18/2021	Farallon	< 5.5	< 30	< 59	44.5	--	< 0.00092	< 0.0046	< 0.00092	< 0.0027	--	--	< 0.00092	< 0.0079	--
B-37-6-33.0	No	33	-5.5	3/18/2021	Farallon	< 5.9	< 30	< 61	45.5	--	< 0.00091	< 0.0045	< 0.00091	< 0.0027	--	--	< 0.00091	< 0.0081	--
B-37-7-5.0	No	5	25	5/6/2021	Farallon	< 5.4	< 26	110	123	--	< 0.0011	< 0.0057	< 0.0011	< 0.0034	--	--	--	< 0.007	--
B-37-7-13.0	No	13	17	5/6/2021	Farallon	< 6.2	< 28	< 55	41.5	--	< 0.001	< 0.0051	< 0.001	< 0.0031	--	--	--	< 0.0074	--
B-37-7-18.0	No	18	12	5/6/2021	Farallon	< 5.9	< 30	< 60	45	--	< 0.001	< 0.0051	< 0.001	< 0.003	--	--	--	< 0.008	--
B-37-7-22.0	No	22	8	5/6/2021	Farallon	< 8.1	< 32	< 65	48.5	--	< 0.0014	< 0.0069	< 0.0014	< 0.0042	--	--	--	< 0.0086	--
B-37-7-27.0	No	27	3	5/6/2021	Farallon	< 7	< 31	< 61	46	--	< 0.0013	< 0.0063	< 0.0013	< 0.0038	--	--	--	< 0.0082	--
B-37-7-33.0	No	33	-3	5/6/2021	Farallon	< 6.9	< 32	< 64	48	--	< 0.0012	< 0.0058	< 0.0012	< 0.0035	--	--	--	< 0.0086	--
B-37-8-5.0	No	5	24	5/5/2021	Farallon	< 6.2	< 27	< 54	40.5	--	< 0.0013	< 0.0063	< 0.0013	< 0.0038	--	--	--	< 0.0073	--
B-37-8-13.0	No	13	16	5/5/2021	Farallon	< 5.9	< 28	< 55	41.5	--	< 0.00099	< 0.005	< 0.00099	< 0.00299	--	--	--	< 0.0074	--
B-37-8-18.0	No	18	11	5/5/2021	Farallon	< 11	< 41	250	271	--	< 0.0023	< 0.011	< 0.0023	< 0.0068	< 0.0023	< 0.0023	< 0.0023	0.03	--
B-37-8-22.0	No	22	7	5/5/2021	Farallon	< 6.4	< 30	< 60	45	--	< 0.001	< 0.0052	< 0.001	< 0.0031	< 0.001	< 0.001	< 0.001	< 0.008	--
B-37-8-27.0	No	27	2	5/5/2021	Farallon	< 6.3	< 31	< 62	46.5	--	< 0.0011	< 0.0053	< 0.0011	< 0.0032	--	--	--	< 0.0083	--
B-37-8-33.0	No	33	-4	5/5/2021	Farallon	< 6.5	< 31	< 62	46.5	--	< 0.001	< 0.0051	< 0.001	< 0.003	--	--	--	< 0.0083	--
B-37-9-5.0	No	5	24.5	5/4/2021	Farallon	< 7.4	< 32	< 63	47.5	--	< 0.0011	< 0.0054	< 0.0011	< 0.0033	--	--	--	< 0.0084	--
B-37-9-22.0	No	22	7.5	5/4/2021	Farallon	< 6.5	< 31	< 62	46.5	--	< 0.0012	< 0.0061	< 0.0012	< 0.0036	--	--	--	0.027	--
B-37-9-27.0	No	27	2.5	5/4/2021	Farallon	< 6.3	< 32	< 63	47.5	--	< 0.0012	< 0.0059	< 0.0012	< 0.0035	--	--	--	< 0.0084	--
B-37-9-33.0	No	33	-3.5	5/4/2021	Farallon	< 6.1	< 29	< 57	43	--	< 0.001	< 0.0051	< 0.001	< 0.003	--	--	--	< 0.0076	--
PH-1-15.0	No	15	14.4	1/26/2022	Farallon	< 5.8	< 31	< 61	46	--	< 0.0011	< 0.0057	< 0.0011	< 0.0034	--	--	--	< 0.0024	< 0.02
PH-1-20.0	No	20	9.4	1/26/2022	Farallon	< 5.6	< 30	< 60	45.5	--	< 0.00083	< 0.0042	< 0.00083	< 0.00253	--	--	--	< 0.0024	< 0.02
PH-1-25.0	No	25	4.4	1/26/2022	Farallon	< 6.8	< 30	< 61	45.5	--	< 0.0012	< 0.0058	< 0.0012	< 0.0035	--	--	--	< 0.0024	< 0.02
PH-1-30.0	No	30	-0.6	1/26/2022	Farallon	< 7.1	< 31	< 62	46.5	--	< 0.0012	< 0.0059	< 0.0012	< 0.0036	--	--	--	< 0.0025	< 0.02
PH-1-35.0	No	35	-5.6	1/26/2022	Farallon	< 5.8	< 32	< 63	47.5	--	< 0.0012	< 0.0059	< 0.0012	< 0.0036	--	--	--	< 0.0025	< 0.02
PH-3-15.0	No	15	15.1	1/26/2022	Farallon	< 6.1	< 30	< 59	44.5	--	< 0.00097	< 0.0049	< 0.00097	< 0.00287	--	--	--	< 0.0024	< 0.02
PH-2/AMW-1-15.0	No	15	14.4	1/26/2022	Farallon	< 6.5	< 31	< 62	46.5	--	< 0.0011	< 0.0057	< 0.0011	< 0.0034	--	--	--	< 0.0025	< 0.02
PH-2/AMW-1-20.0	No	20	9.4	1/26/2022	Farallon	< 5.3	< 29	< 58	43.5	--	< 0.00095	< 0.0047	< 0.00095	< 0.00285	--	--	--	< 0.0023	< 0.02
PH-2/AMW-1-25.0	No	25	4.4	1/26/2022	Farallon	< 6.9	< 29	< 58	43.5	--	< 0.0011	< 0.0057	< 0.0011	< 0.0034	--	--	--	< 0.0023	< 0.02
PH-2/AMW-1-30.0	No	30	-0.6	1/26/2022	Farallon	< 7.6	< 30	< 60	45	--	< 0.0013	< 0.0064	< 0.0013	< 0.0039	--	--	--	< 0.0024	< 0.02
PH-2/AMW-1-35.0	No	35	-5.6	1/26/2022	Farallon	< 6.1	< 30	< 61	45.5	--	< 0.00089	< 0.0045	< 0.00089	< 0.00269	--	--	--	< 0.0024	< 0.02
PH-3-20.0	No	20	10.1	1/27/2022	Farallon	< 5.5	< 29	< 58	43.5	--	< 0.0011	< 0.0055	< 0.0011	< 0.0033	--	--	--	< 0.0023	< 0.02
PH-3-25.0	No	25	5.1	1/27/2022	Farallon	< 8.3	< 31	< 62	46.5	--	< 0.0015	< 0.0075	< 0.0015	< 0.0045	--	--	--	< 0.0025	< 0.02
PH-3-30.0	No	30	0.1	1/27/2022	Farallon	< 7.2	< 31	< 62	46	--	< 0.0012	< 0.0058	< 0.0012	< 0.0035	--	--	--	< 0.0025	< 0.02
PH-3-35.0	No	35	-4.9	1/27/2022	Farallon	< 7	< 29	< 57	46.5	--	< 0.0012	< 0.0062	< 0.0012	< 0.0037	--	--	--	< 0.0023	< 0.02
PH-4-25.0	No	25	5.4	1/27/2022	Farallon	< 7.4	< 33	< 65	48	--	< 0.0011	< 0.0057	< 0.0011	< 0.0034	--	--	--	< 0.0026	< 0.02
PH-4-30.0	No	30	0.4	1/27/2022	Farallon	< 5.8	< 30	< 60	45	--	0.001	< 0.005	< 0.00099	< 0.00299	--	--	--	< 0.0024	< 0.02
PH-4-35.0	No	35	-4.6	1/27/2022	Farallon	< 6.1	< 30	< 60	45	--	< 0.00098	< 0.0049	< 0.00098	< 0.00298	--	--	--	< 0.0024	< 0.02

Table 1a. Soil Analytical Results - TPH, VOCs, Naphthalene, and PCBs
Independent Action Report
Block 37 Site
600-630 Westlake Avenue North | Seattle, Washington

Sample ID	Sample Excavated (Yes=sample removed; No=sample present)	Sample Depth (feet bgs)	Elevation (feet NAVD88)	Sample Date	Consultant	TPH (mg/kg)					VOCs[4] (mg/kg)							PAHs (mg/kg)	PCB (Aroclors) (mg/kg)
						GRO[1]	DRO[2]	ORO[2]	TEH (DRO + ORO)[3]	Kerosene	Benzene	Toluene	Ethyl benzene	Total Xylenes	EDB	EDC	MTBE	Naphthalene	
Screening Levels [5]																			
SL-1 Direct Contact						1,500	NE	NE	NE	NE	18	6,400	8,000	16,000	0.50	11	560	1,600	1.0
SL-2 Protect Drinking Water Vadose Zone						30	2,000	2,000	2,000	2,000	0.027	4.5	5.9	14	0.00027	0.023	0.1	4.5	0.34
SL-5 Protect Drinking Water Saturated Zone						30	2,000	2,000	2,000	2,000	0.0017	0.27	0.34	0.83	0.000018	0.0016	0.0072	0.24	0
SL-10 Natural Background						NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
Laboratory PQL						5	15	10	3.44	NA	0.02	0.05	0.05	0.15	0.05	0.05	0.05	0.2	0.0330

Notes:

1. TPH as gasoline range hydrocarbons (GRO) analysis by Ecology Method NWTPH-Gx.
2. TPH as diesel-range (DRO) and motor oil-range (ORO) analysis by Ecology Method NWTPH-Dx without acid/silica gel cleanup.
3. Due to significant overlap between the two hydrocarbons, when both kerosene and diesel values are present for a sample the higher concentration and/or detection limit was used for the total extractable hydrocarbon calculation. Results are DRO+ ORO calculations. A value of half the detection limit was used for non-detect values.
4. VOCs analysis by EPA Method 8260, prepared by EPA Method 5035/5030B. Benzene, toluene, ethylbenzene, and xylenes (BTEX) analysis by EPA Method 8020A, 8021B, or 8260B/C/D.
5. The lowest relevant screening level for each constituent is highlighted in the corresponding color.

Bold font indicates the reported value exceeds the corresponding (shaded) screening level (i.e., most stringent).
Shaded cell indicates the detected value exceeds the corresponding screening level (i.e., most stringent).
Font color indicates the samples at elevation 20 or shallower that were compared to SL-2 Protect Drinking Water Vadose Zone screening levels, as applicable.
"<" = less than the laboratory method reporting limit
"--" = not analyzed, sampled, or reported
bgs = below ground surface
Ecology = Washington State Department of Ecology
EDB = 1,2-dibromoethane
EDC = 1,2-dichloroethane
EPA = United States Environmental Protection Agency
ID = identification
J = estimated concentration
mg/kg = milligram per kilogram
MTBE = methyl tert-butyl ether
N = Hydrocarbons in the lube oil range are impacting the diesel range result
NA = not applicable
NAVD88 = North American Vertical Datum 1988
NE = not established
PAHs = polycyclic aromatic hydrocarbon
PCB = polychlorinated biphenyl
PQL = practical quantitation limit
SL = screening level
TEH = total extractable hydrocarbons
TPH = total petroleum hydrocarbons
VOC = volatile organic compound
WAC = Washington Administrative Code

Table 1b. Soil Analytical Results - PAHs and cPAHs
Independent Action Report
Block 37 Site
600-630 Westlake Avenue North | Seattle, Washington

Sample ID	Sample Excavated (Yes=sample removed; No=sample present)	Sample Depth (feet bgs)	Elevation (feet NAVD88)	Sample Date	Consultant	PAHs (mg/kg)		cPAHs (mg/kg) [1]							
						1-Methyl naphthalene	2-Methyl naphthalene	Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo(k) fluoran thene	Chrysene	Dibenz(a,h) anthracene	Indeno (1,2,3-cd) pyrene	TTEC[1]
Screening Levels[2]															
SL-1 Direct Contact						**34**	**320**	**NE**	**0.19**	**NE**	**NE**	**NE**	**NE**	**NE**	**0.19**
SL-2 Protect Drinking Water Vadose Zone						**0.082**	**1.7**	**NE**	**3.9**	**NE**	**NE**	**NE**	**NE**	**NE**	**3.90**
SL-5 Protect Drinking Water Saturated Zone						**0.0042**	**0.089**	**NE**	**0.19**	**NE**	**NE**	**NE**	**NE**	**NE**	**0.19**
SL-10 Natural Background						**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**
Laboratory PQL						**0.01**	**0.01**	**0.01**	**0.01**	**0.01**	**(total benzofl uoranthenes)**	**0.01**	**0.01**	**0.01**	**0.0151**
B-37-3-5.0	No	5	22.5	3/16/2021	Farallon	--	--	< 0.0074	< 0.0074	< 0.0074	< 0.0074	< 0.0074	< 0.0074	< 0.0074	< 0.0056
B-37-3-13.0	No	13	14.5	3/16/2021	Farallon	--	--	< 0.0077	< 0.0077	< 0.0077	< 0.0077	< 0.0077	< 0.0077	< 0.0077	< 0.0058
B-37-3-19.0	No	19	8.5	3/16/2021	Farallon	--	--	0.01	0.01	0.01	< 0.0078	0.02	< 0.0078	< 0.0078	0.01
B-37-3-24.0	No	24	3.5	3/16/2021	Farallon	--	--	0.02	0.02	0.02	< 0.0081	0.02	< 0.0081	0.01	0.02
B-37-4-5.0	No	5	22.4	3/17/2021	Farallon	--	--	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.007	< 0.0053
B-37-4-13.0	No	13	14.4	3/17/2021	Farallon	--	--	0.01	0.014	0.01	< 0.0071	0.02	< 0.0071	< 0.0071	0.02
B-37-4-19.0	No	19	8.4	3/17/2021	Farallon	--	--	0.01	0.012	0.01	< 0.0075	0.03	< 0.0075	< 0.0075	0.02
B-37-4-24.0	No	24	3.4	3/17/2021	Farallon	--	--	< 0.0089	< 0.0089	< 0.0089	< 0.0089	0.01	< 0.0089	< 0.0089	0.01
B-37-5-5.0	No	5	23	3/18/2021	Farallon	--	--	< 0.0075	0.01	< 0.0075	< 0.0075	0.02	< 0.0075	< 0.0075	0.01
B-37-5-13.0	No	13	15	3/18/2021	Farallon	--	--	< 0.0076	< 0.0076	< 0.0076	< 0.0076	< 0.0076	< 0.0076	< 0.0076	< 0.0057
B-37-5-20.0	No	20	8	3/19/2021	Farallon	--	--	< 0.0088	0.01	0.02	< 0.0088	0.02	< 0.0088	0.01	0.01
B-37-5-25.0	No	25	3	3/19/2021	Farallon	--	--	< 0.0079	< 0.0079	< 0.0079	< 0.0079	< 0.0079	< 0.0079	< 0.0079	< 0.006
B-37-5-33.0	No	33	-5	3/19/2021	Farallon	--	--	< 0.0077	< 0.0077	< 0.0077	< 0.0077	< 0.0077	< 0.0077	< 0.0077	< 0.0058
B-37-6-5.0	No	5	22.5	3/18/2021	Farallon	--	--	< 0.0072	< 0.0072	< 0.0072	< 0.0072	< 0.0072	< 0.0072	< 0.0072	< 0.0054
B-37-6-17.0	No	17	10.5	3/18/2021	Farallon	--	--	0.11	0.11	0.13	0.04	0.1	0.01	0.08	0.15
B-37-6-20.0	No	20	7.5	3/18/2021	Farallon	--	--	0.01	0.01	0.01	< 0.0081	0.01	< 0.0081	< 0.0081	0.02
B-37-6-25.0	No	25	2.5	3/18/2021	Farallon	--	--	< 0.0079	< 0.0079	< 0.0079	< 0.0079	< 0.0079	< 0.0079	< 0.0079	< 0.006
B-37-6-33.0	No	33	-5.5	3/18/2021	Farallon	--	--	< 0.0081	< 0.0081	< 0.0081	< 0.0081	< 0.0081	< 0.0081	< 0.0081	< 0.0061
B-37-7-5.0	No	5	25	5/6/2021	Farallon	--	--	0.01	0.01	0.02	< 0.007	0.01	< 0.007	0.01	0.02
B-37-7-13.0	No	13	17	5/6/2021	Farallon	--	--	< 0.0074	< 0.0074	< 0.0074	< 0.0074	< 0.0074	< 0.0074	< 0.0074	< 0.0056
B-37-7-18.0	No	18	12	5/6/2021	Farallon	--	--	< 0.008	< 0.008	< 0.0080	< 0.0080	< 0.0080	< 0.0080	< 0.008	< 0.006
B-37-7-22.0	No	22	8	5/6/2021	Farallon	--	--	< 0.0086	< 0.0086	< 0.0086	< 0.0086	< 0.0086	< 0.0086	< 0.0086	< 0.0065
B-37-7-27.0	No	27	3	5/6/2021	Farallon	--	--	< 0.0082	< 0.0082	< 0.0082	< 0.0082	< 0.0082	< 0.0082	< 0.0082	< 0.0062
B-37-7-33.0	No	33	-3	5/6/2021	Farallon	--	--	< 0.0086	< 0.0086	< 0.0086	< 0.0086	< 0.0086	< 0.0086	< 0.0086	< 0.0065
B-37-8-5.0	No	5	24	5/5/2021	Farallon	--	--	< 0.0073	< 0.0073	< 0.0073	< 0.0073	< 0.0073	< 0.0073	< 0.0073	< 0.0055
B-37-8-13.0	No	13	16	5/5/2021	Farallon	--	--	< 0.0074	< 0.0074	< 0.0074	< 0.0074	< 0.0074	< 0.0074	< 0.0074	< 0.0056
B-37-8-18.0	No	18	11	5/5/2021	Farallon	--	--	< 0.011	< 0.011	0.0110	< 0.0110	< 0.0110	< 0.0110	< 0.011	0.01
B-37-8-22.0	No	22	7	5/5/2021	Farallon	--	--	< 0.0080	< 0.008	< 0.0080	< 0.0080	< 0.0080	< 0.0080	< 0.008	< 0.006
B-37-8-27.0	No	27	2	5/5/2021	Farallon	--	--	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0063
B-37-8-33.0	No	33	-4	5/5/2021	Farallon	--	--	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0063
B-37-9-5.0	No	5	24.5	5/4/2021	Farallon	--	--	< 0.0084	< 0.0084	< 0.0084	< 0.0084	< 0.0084	< 0.0084	< 0.0084	< 0.0063
B-37-9-22.0	No	22	7.5	5/4/2021	Farallon	--	--	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0083	< 0.0063
B-37-9-27.0	No	27	2.5	5/4/2021	Farallon	--	--	< 0.0084	< 0.0084	< 0.0084	< 0.0084	< 0.0084	< 0.0084	< 0.0084	< 0.0063
B-37-9-33.0	No	33	-3.5	5/4/2021	Farallon	--	--	< 0.0076	< 0.0076	< 0.0076	< 0.0076	< 0.0076	< 0.0076	< 0.0076	< 0.0057
PH-2/AMW-1-15.0	No	15	14.4	1/26/2022	Farallon	< 0.0025	< 0.0025	0.0006 J	0.00061 J	0.0009 J	< 0.0025	0.0007 J	< 0.0025	0.0004 J	0.0011 J
PH-2/AMW-1-20.0	No	20	9.4	1/26/2022	Farallon	< 0.0023	< 0.0023	0.00096 J	0.0012	0.0012 J	0.0004 J	0.0009 J	< 0.0023	0.0007 J	0.0016 J
PH-2/AMW-1-25.0	No	25	4.4	1/26/2022	Farallon	< 0.0023	< 0.0023	< 0.0023	< 0.0023	< 0.0023	< 0.0023	< 0.0023	< 0.0023	< 0.0023	< 0.0017
PH-2/AMW-1-30.0	No	30	-0.6	1/26/2022	Farallon	< 0.0024	< 0.0024	< 0.0024	< 0.0024	< 0.0024	< 0.0024	< 0.0024	< 0.0024	< 0.0024	< 0.0018
PH-2/AMW-1-35.0	No	35	-5.6	1/26/2022	Farallon	< 0.0024	< 0.0024	< 0.0024	< 0.0024	< 0.0024	< 0.0024	< 0.0024	< 0.0024	< 0.0024	< 0.0018
PH-1-15.0	No	15	14.4	1/26/2022	Farallon	< 0.0024	< 0.0024	0.00073 J	0.0011 J	0.0011 J	0.0005 J	0.0009 J	< 0.0024	0.0007 J	0.0015 J
PH-1-20.0	No	20	9.4	1/26/2022	Farallon	< 0.0024	< 0.0024	0.0015 J	0.0023 J	0.0023 J	0.0007 J	0.0021 J	0.0004 J	0.0016 J	0.003 J
PH-1-25.0	No	25	4.4	1/26/2022	Farallon	< 0.0024	< 0.0024	0.0009 J	0.0012 J	0.0012 J	0.0004 J	0.0009 J	< 0.0024	0.0008 J	0.0016 J
PH-1-30.0	No	30	-0.6	1/26/2022	Farallon	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0019
PH-1-35.0	No	35	-5.6	1/26/2022	Farallon	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0019
PH-3-15.0	No	15	15.1	1/27/2022	Farallon	< 0.0024	< 0.0024	< 0.0024	0.00054 J	0.0006 J	< 0.0024	0.0004 J	< 0.0024	0.0004 J	0.001 J
PH-3-20.0	No	20	10.1	1/27/2022	Farallon	< 0.0023	< 0.0023	< 0.0023	< 0.0023	< 0.0023	< 0.0023	< 0.0023	< 0.0023	< 0.0023	< 0.0017
PH-3-25.0	No	25	5.1	1/27/2022	Farallon	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0019
PH-3-30.0	No	30	0.1	1/27/2022	Farallon	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0019
PH-3-35.0	No	35	-4.9	1/27/2022	Farallon	< 0.0023	< 0.0023	< 0.0023	< 0.0023	< 0.0023	< 0.0023	< 0.0023	< 0.0023	< 0.0023	< 0.0017
PH-4-25.0	No	25	5.4	1/27/2022	Farallon	< 0.0026	< 0.0026	< 0.0026	< 0.0026	< 0.0026	< 0.0026	< 0.0026	< 0.0026	< 0.0026	< 0.002
PH-4-30.0	No	30	0.4	1/27/2022	Farallon	< 0.0024	< 0.0024	< 0.0024	< 0.0024	< 0.0024	< 0.0024	< 0.0024	< 0.0024	< 0.0024	< 0.0018
PH-4-35.0	No	35	-4.6	1/27/2022	Farallon	< 0.0024	< 0.0024	< 0.0024	< 0.0024	< 0.0024	< 0.0024	< 0.0024	< 0.0024	< 0.0024	< 0.0018

Notes:
1. cPAHs are subject to WAC-173-340 Toxicity Equivalent Concentration calculations. Individual screening levels do not apply to individual cPAHs.
2. The lowest relevant screening level for each constituent is highlighted in the corresponding color.
Bold font indicates the reported value exceeds the corresponding (shaded) screening level (i.e., most stringent).
Shaded cell indicates the detected value exceeds the corresponding screening level (i.e., most stringent).
Font color indicates the samples at elevation 20 or shallower that were compared to SL-2 Protect Drinking Water Vadose Zone screening levels, as applicable.
"<" = less than the laboratory method detection limit
"--" = not analyzed, sampled, or reported
bgs = below ground surface
cPAH = carcinogenic polycyclic aromatic hydrocarbon
Naphthalene results for soil are provided in Table 1a
EPA = United States Environmental Protection Agency
J = Estimated concentration
mg/kg = milligram per kilogram
MTCA = Model Toxics Control Act
NAVD88 = North American Vertical Datum 1988
NE = not established
PAH = polycyclic aromatic hydrocarbon
PQL = practical quantitation limit
SL = screening level
TTEC = total toxicity equivalent concentration
WAC = Washington Administrative Code

Table 1c. Soil Analytical Results - Metals
Independent Action Report
Block 37 Site
600-630 Westlake Avenue North | Seattle, Washington

Sample ID	Sample Excavated (Yes = sample removed; No = sample present)	Sample Depth (feet bgs)	Elevation (feet NAVD88)	Sample Date	Consultant	Metals (mg/kg)					
						Arsenic	Barium	Cadmium	Chromium[1]	Lead[2]	Mercury
Screening Levels[3]											
					SL-1 Direct Contact	**0.67**	**16,000**	**80**	**120,000**	**250**	**NE**
					SL-2 Protect Drinking Water Vadose Zone	**4.67**	**1,600**	**0.69**	**480,000**	**3,000**	**2.1**
					SL-5 Protect Drinking Water Saturated Zone	**0.234**	**83**	**0.035**	**24,000**	**150**	**0.10**
					SL-10 Natural Background	**7.3**	**NE**	**0.77**	**48**	**17**	**0.07**
					Laboratory PQL	**1.0**	**0.5**	**0.15**	**0.5**	**0.5**	**0.02**
B-37-3-5.0	No	5	22.5	3/16/2021	Farallon	< 5.6	--	< 0.55	20	< 5.5	< 0.28
B-37-3-13.0	No	13	14.5	3/16/2021	Farallon	< 5.8	--	< 0.58	29	6.1	**< 0.29**
B-37-3-19.0	No	19	8.5	3/16/2021	Farallon	< 5.9	--	< 0.59	36	9.8	**< 0.29**
B-37-3-24.0	No	24	3.5	3/16/2021	Farallon	< 6.1	--	< 0.61	29	51	**< 0.3**
B-37-4-5.0	No	5	22.4	3/17/2021	Farallon	< 5.3	--	< 0.53	19	< 5.3	< 0.26
B-37-4-13.0	No	13	14.4	3/17/2021	Farallon	< 5.3	--	< 0.53	15	< 5.3	**< 0.27**
B-37-4-19.0	No	19	8.4	3/17/2021	Farallon	< 5.6	--	< 0.56	8.7	< 5.6	**< 0.28**
B-37-4-24.0	No	24	3.4	3/17/2021	Farallon	< 6.7	--	< 0.67	11	11	**< 0.33**
B-37-5-5.0	No	5	23	3/18/2021	Farallon	< 5.7	--	< 0.57	24	< 5.7	< 0.28
B-37-5-13.0	No	13	15	3/18/2021	Farallon	< 5.7	--	< 0.57	23	< 5.7	**< 0.28**
B-37-6-5.0	No	5	22.5	3/18/2021	Farallon	< 5.4	--	< 0.54	19	< 5.4	< 0.27
B-37-6-17.0	No	17	10.5	3/18/2021	Farallon	< 3.6	--	< 0.71	28	8.8	**< 0.36**
B-37-6-20.0	No	20	7.5	3/18/2021	Farallon	< 6.1	--	< 0.61	25	< 6.1	**< 0.31**
B-37-6-25.0	No	25	2.5	3/18/2021	Farallon	< 5.9	--	< 0.59	21	< 5.9	**< 0.3**
B-37-6-33.0	No	33	-5.5	3/18/2021	Farallon	< 6.1	--	< 0.61	26	< 6.1	**< 0.3**
B-37-5-20.0	No	20	8	3/19/2021	Farallon	< 6.6	--	< 0.66	26	74	**< 0.33**
B-37-5-25.0	No	25	3	3/19/2021	Farallon	< 5.9	--	< 0.59	27	< 5.9	**< 0.3**
B-37-5-33.0	No	33	-5	3/19/2021	Farallon	< 5.8	--	< 0.58	18	25	**< 0.29**
B-37-9-5.0	No	5	24.5	5/4/2021	Farallon	< 6.3	--	< 0.63	42	< 6.3	< 0.32
B-37-9-22.0	No	22	7.5	5/4/2021	Farallon	< 6.2	--	< 0.62	21	< 6.2	**< 0.31**
B-37-9-27.0	No	27	2.5	5/4/2021	Farallon	< 6.3	--	< 0.63	30	< 6.3	**< 0.32**
B-37-9-33.0	No	33	-3.5	5/4/2021	Farallon	< 5.7	--	< 0.57	19	< 5.7	**< 0.29**
B-37-8-5.0	No	5	24	5/5/2021	Farallon	< 5.4	--	< 0.54	24	< 5.4	< 0.27
B-37-8-13.0	No	13	16	5/5/2021	Farallon	< 5.5	--	< 0.55	22	< 5.5	**< 0.28**
B-37-8-18.0	No	18	11	5/5/2021	Farallon	< 4.0	--	**< 0.81**	20	11	**< 0.4**
B-37-8-22.0	No	22	7	5/5/2021	Farallon	< 6.0	--	< 0.6	24	< 6.0	**< 0.3**
B-37-8-27.0	No	27	2	5/5/2021	Farallon	< 6.2	--	< 0.62	23	< 6.2	**< 0.31**
B-37-8-33.0	No	33	-4	5/5/2021	Farallon	< 6.2	--	< 0.62	23	< 6.2	**< 0.31**
B-37-7-5.0	No	5	25	5/6/2021	Farallon	< 5.3	--	< 0.53	23	5.3	< 0.26
B-37-7-13.0	No	13	17	5/6/2021	Farallon	< 5.5	--	< 0.55	25	< 5.5	**< 0.28**
B-37-7-18.0	No	18	12	5/6/2021	Farallon	< 6.0	--	< 0.6	19	< 6.0	**< 0.3**
B-37-7-22.0	No	22	8	5/6/2021	Farallon	< 6.5	--	< 0.65	59	< 6.5	**< 0.32**
B-37-7-27.0	No	27	3	5/6/2021	Farallon	< 6.1	--	< 0.61	28	< 6.1	**< 0.31**
B-37-7-33.0	No	33	-3	5/6/2021	Farallon	< 6.4	--	< 0.64	30	< 6.4	**< 0.32**
PH-2/AMW-1-15.0	No	15	14.4	1/26/2022	Farallon	< 3.1	36	--	20	< 6.2	--
PH-2/AMW-1-20.0	No	20	9.4	1/26/2022	Farallon	< 2.9	34	--	18	< 5.8	--
PH-2/AMW-1-25.0	No	25	4.4	1/26/2022	Farallon	3.9	43	--	22	< 5.8	--
PH-2/AMW-1-30.0	No	30	-0.6	1/26/2022	Farallon	3.1	62	--	23	< 6.0	--
PH-2/AMW-1-35.0	No	35	-5.6	1/26/2022	Farallon	< 3.0	42	--	21	< 6.1	--
PH-1-15.0	No	15	14.4	1/26/2022	Farallon	< 3.1	35	--	21	< 6.1	--
PH-1-20.0	No	20	9.4	1/26/2022	Farallon	< 3.0	37	--	18	< 6.0	--
PH-1-25.0	No	25	4.4	1/26/2022	Farallon	< 3.0	63	--	26	8.4	--
PH-1-30.0	No	30	-0.6	1/26/2022	Farallon	< 3.1	70	--	28	< 6.2	--
PH-1-35.0	No	35	-5.6	1/26/2022	Farallon	< 3.2	56	--	18	< 6.3	--
PH-3-15.0	No	15	15.1	1/27/2022	Farallon	< 3.0	28	--	16	< 5.9	--
PH-3-20.0	No	20	10.1	1/27/2022	Farallon	< 2.9	28	--	23	< 5.8	--
PH-3-25.0	No	25	5.1	1/27/2022	Farallon	< 3.1	47	--	23	< 6.2	--
PH-3-30.0	No	30	0.1	1/27/2022	Farallon	< 3.1	65	--	27	< 6.2	--
PH-3-35.0	No	35	-4.9	1/27/2022	Farallon	< 2.9	47	--	18	< 5.7	--
PH-4-25.0	No	25	5.4	1/27/2022	Farallon	< 3.3	51	--	31	< 6.5	--
PH-4-30.0	No	30	0.4	1/27/2022	Farallon	< 3.0	48	--	19	< 6.0	--
PH-4-35.0	No	35	-4.6	1/27/2022	Farallon	4.3	69	--	20	< 6.0	--

Notes:

1. Chromium cleanup levels for Soil are based on trivalent chromium, except for natural background.

2. Total lead analysis by EPA Method 6010; prepared by EPA Method 3050.

Bold font indicates the reported value exceeds the corresponding (shaded) screening level (i.e., most stringent).
Shaded cell indicates the detected value exceeds the corresponding screening level (i.e., most stringent).
Font color indicates the samples at elevation 20 or shallower that were compared to SL-2 Protect Drinking Water Vadose Zone screening levels, as applicable.
"<" = less than the laboratory method detection limit
"--" = not analyzed, sampled, or reported
bgs = below ground surface
Ecology = Washington State Department of Ecology
EPA = United States Environmental Protection Agency
mg/kg = milligram per kilogram
NAVD88 = North American Vertical Datum 1988

Table 2a. Groundwater Analytical Results - TPH, BTEX, Napthalene, and PCBs
Independent Action Report
Block 37 Site
600 - 630 Westlake Avenue North | Seattle, Washington

Monitoring Well ID	Sample Date	TPH (µg/L)					VOCs[4] (µg/L)						PCBs - Total as Aroclors (µg/L)
		GRO[1]	DRO[2]	ORO[2]	TEH (DRO+ORO)[3]	Kerosene	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Naphthalene	
Screening Levels[5]													
GW-1 Protect Drinking Water GW-Detail-PW		**800**	**500**	**500**	**500**	**500**	**5**	**640**	**700**	**1,600**	**24**	**160**	**0.22**
GW-4 Screening Level Protect Indoor Air GW-Detail-PW		**NE**	**NE**	**NE**	**NE**	**NE**	**2.4**	**15,000**	**2,800**	**320**	**800**	**8.9**	**NE**
Laboratory PQL		**100**	**200**	**200**	**400**	**100**	**0.2**	**1.0**	**0.2**	**0.6**	**1.0**	**0.10**	**0.175**
Existing Monitoring Wells													
B-37-1 (GEI-1)	02/16/22	< 100	210	390	**700**	--	< 0.2	< 1.0	< 0.2	< 0.6	--	0.037 J	--
	05/17/22	< 100	< 150	< 210	< 270	--	< 0.2	< 1.0	< 0.2	< 0.6	--	0.12	< 0.074
	08/25/22	< 100	270	420	400	--	< 0.2	< 1.0	< 0.2	< 0.6	--	< 0.1	< 0.086
	11/09/22	< 100	290	390	**500**	--	< 0.2	< 1.0	< 0.2	< 0.6	--	< 0.096	< 0.086
B-37-2 (GEI-2)	02/18/22	< 100	< 200	< 200	200	--	< 0.2	< 1.0	< 0.2	< 0.6	--	< 0.096	--
	05/18/22	< 100	< 160	< 220	< 270	--	**2.8**	< 1.0	< 0.2	< 0.6	--	< 0.099	--
	08/24/22	< 100	< 130	250	< 260	--	< 0.2	< 1.0	< 0.2	< 0.6	--	< 0.097	--
	11/09/22	< 100	140	230	< 250	--	2.0	< 1.0	< 0.2	< 0.6	--	< 0.095	--
B-37-3	04/01/21	< 100	330	380	**710**	--	< 0.2	< 1.0	< 0.2	< 0.6	< 0.2	< 1.0	--
	02/16/22	< 100	< 200	< 200	200	--	< 0.2	< 1.0	< 0.2	< 0.6	--	0.016 J	--
	05/17/22	< 100	< 150	< 210	< 260	--	< 0.2	< 1.0	< 0.2	< 0.6	--	< 0.1	< 0.074
	08/25/22	< 100	< 130	280	< 260	--	< 0.2	< 1.0	< 0.2	< 0.6	--	< 0.097	< 0.086
	11/07/22	< 100	< 130	< 200	< 250	--	< 0.2	< 1.0	< 0.2	< 0.6	--	< 0.1	< 0.086
B-37-4	04/01/21	< 100	**560**	400	**960**	--	0.21	< 1.0	< 0.2	< 0.6	< 0.2	< 1.0	--
	02/16/22	< 100	< 200	210	310	--	< 0.2	< 1.0	< 0.2	< 0.6	--	< 0.1	--
	05/17/22	< 100	< 150	340	300	--	< 0.2	< 1.0	< 0.2	< 0.6	--	< 0.1	--
	08/25/22	< 100	240	400	360	--	< 0.2	< 1.0	< 0.2	< 0.6	--	< 0.099	--
	11/07/22	< 100	210	280	320	--	< 0.2	< 1.0	< 0.2	< 0.6	--	< 0.097	--
B-37-5	04/01/21	< 100	< 210	270	375	--	< 0.2	< 1.0	< 0.2	< 0.6	< 0.2	< 1.0	--
	02/17/22	< 100	< 130	< 200	165	--	< 0.2	< 1.0	< 0.2	< 0.6	--	< 0.1	--
	05/18/22	< 100	< 160	260	< 270	--	< 0.2	< 1.0	< 0.2	< 0.6	--	< 0.098	--
	08/25/22	< 100	< 130	280	< 250	--	< 0.2	< 1.0	< 0.2	< 0.6	--	< 0.096	--
	11/07/22	< 100	160	330	310	--	< 0.2	< 1.0	< 0.2	< 0.6	--	< 0.096	--
B-37-6	04/01/21	< 100	260	450	**710**	--	< 0.2	< 1.0	< 0.2	< 0.6	< 0.2	< 1.0	--
	02/16/22	< 100	< 200	< 200	200	--	< 0.2	< 1.0	< 0.2	< 0.6	--	0.024 J	--
	05/18/22	< 122	< 150	330	< 260	--	< 0.2	< 1.0	< 0.2	< 0.6	--	< 0.1	--
	08/25/22	< 100	160	340	330	--	< 0.2	< 1.0	< 0.2	< 0.6	--	< 0.1	--
	11/07/22	< 100	150	260	260	--	< 0.2	< 1.0	< 0.2	< 0.6	--	< 0.096	--
B-37-7	05/10/21	< 100	400	250	**650**	--	< 0.2	< 1.0	< 0.2	< 0.6	< 0.2	< 0.1	--
	02/17/22	< 100	< 130	< 200	165	--	< 0.2	< 1.0	< 0.2	< 0.6	--	< 0.1	--
	05/18/22	< 100	< 180	280	< 300	--	< 0.2	< 1.0	< 0.2	< 0.6	--	< 0.11	--
	08/25/22	< 100	270	< 200	320	--	< 0.2	< 1.0	< 0.2	< 0.6	--	< 0.095	--
	11/09/22	< 100	140	< 200	< 250	--	< 0.2	< 1.0	< 0.2	< 0.6	--	< 0.095	--
B-37-8	05/10/21	< 100	< 210	< 210	210	--	< 0.2	< 1.0	< 0.2	< 0.6	< 0.2	< 0.1	**< 0.35**
	02/17/22	< 100	< 130	< 200	165	--	< 0.2	< 1.0	< 0.2	< 0.6	--	< 0.099	--
	05/18/22	< 100	< 150	230	< 250	--	< 0.2	< 1.0	< 0.2	< 0.6	--	< 0.1	--
	08/25/22	< 100	< 130	270	< 250	--	< 0.2	< 1.0	< 0.2	< 0.6	--	< 0.096	--
	11/09/22	< 100	140	< 200	< 250	--	< 0.2	< 1.0	< 0.2	< 0.6	--	< 0.095	--
B-37-9	05/10/21	< 100	240	< 210	345	--	< 0.2	< 1.0	< 0.2	< 0.6	< 0.2	0.15	--
	02/17/22	< 100	< 130	220	285	--	< 0.2	< 1.0	< 0.2	< 0.6	--	0.034 J	--
	05/17/22	< 100	< 160	< 220	< 280	--	< 0.2	< 1.0	< 0.2	< 0.6	--	0.016 J	--
	08/24/22	< 100	230	290	360	--	< 0.2	< 1.0	< 0.2	< 0.6	--	< 0.097	--
	11/08/22	< 100	270	300	430	--	< 0.2	< 1.0	< 0.2	< 0.6	< 0.02	< 0.095	--
FMW-131	05/18/22	< 100	< 170	280	365	--	< 0.2	< 1.0	< 0.2	< 0.6	--	< 0.1	--
	08/24/22	< 100	< 130	< 210	< 260	--	< 0.2	< 1.0	< 0.2	< 0.6	--	< 0.097	--
	11/08/22	< 100	< 130	< 200	< 250	--	< 0.2	< 1.0	< 0.2	< 0.6	--	< 0.095	--

Table 2a. Groundwater Analytical Results - TPH, BTEX, Napthalene, and PCBs
Independent Action Report
Block 37 Site
600 - 630 Westlake Avenue North | Seattle, Washington

Monitoring Well ID	Sample Date	TPH (µg/L)					VOCs[4] (µg/L)						PCBs - Total as Aroclors (µg/L)
		GRO[1]	DRO[2]	ORO[2]	TEH (DRO+ORO)[3]	Kerosene	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Naphthalene	
Screening Levels[5]													
GW-1 Protect Drinking Water GW-Detail-PW		**800**	**500**	**500**	**500**	**500**	**5**	**640**	**700**	**1,600**	**24**	**160**	**0.22**
GW-4 Screening Level Protect Indoor Air GW-Detail-PW		**NE**	**NE**	**NE**	**NE**	**NE**	**2.4**	**15,000**	**2,800**	**320**	**800**	**8.9**	**NE**
Laboratory PQL		**100**	**200**	**200**	**400**	**100**	**0.2**	**1.0**	**0.2**	**0.6**	**1.0**	**0.10**	**0.175**
FMW-139	02/16/22	< 100	< 200	260	360	--	< 0.2	< 1.0	< 0.2	< 0.6	--	< 0.11	--
	05/18/22	< 100	< 160	< 210	< 270	--	< 0.2	< 1.0	< 0.2	< 0.6	--	< 0.1	--
	08/24/22	< 100	< 130	< 210	< 260	--	< 0.2	< 1.0	< 0.2	< 0.6	--	< 0.096	--
	11/08/22	< 100	130	360	340	--	< 0.2	< 1.0	< 0.2	< 0.6	--	< 0.095	--
MW-45	02/16/22	410	480	220	**700**	--	< 0.2	< 1.0	3.9	< 0.6	--	2.2	--
	05/17/22	160	240	320	390	--	< 0.2	< 1.0	< 0.2	< 0.6	--	0.24	--
	08/24/22	< 100	220	< 200	320	--	< 0.2	< 1.0	< 0.2	< 0.6	--	< 0.095	--
	11/08/22	< 100	220	210	300	--	< 0.2	< 1.0	< 0.2	< 0.6	--	0.18	--
MW-50	02/18/22	< 100	**720**	310	**1,030**	--	< 0.2	< 1.0	< 0.2	< 0.6	--	**30**	--
	05/17/22	< 100	< 170	< 230	< 340	--	< 0.2	< 1.0	< 0.2	< 0.6	--	2.7	--
	08/24/22	< 100	390	400	**560**	--	< 0.2	< 1.0	< 0.2	< 0.6	--	4.0	--
	11/08/22	< 100	440	400	**650**	--	< 0.2	< 1.0	< 0.2	< 0.6	--	**12**	--
MW-54	02/16/22	< 100	< 200	280	380	--	< 0.2	< 1.0	< 0.2	< 0.6	--	< 0.1	--
	05/18/22	< 100	< 170	< 220	< 280	--	< 0.2	< 1.0	< 0.2	< 0.6	--	< 0.11	--
	08/24/22	< 100	< 130	< 200	< 250	--	< 0.2	< 1.0	< 0.2	< 0.6	--	< 0.095	--
	11/08/22	< 100	< 130	210	< 250	--	< 0.2	< 1.0	< 0.2	< 0.6	--	< 0.095	--
MW-209	02/17/22	< 13.4	156	< 119	215.5	< 119	< 0.1	< 0.1	< 0.11	< 0.2	< 0.13	--	--
	08/17/22	24.4 J	162 / <140	< 94.2 / <218	209.1	--	< 0.1	< 0.1	< 0.11	< 0.2	< 0.13	< 0.02	--
	11/30/22	< 22.6 / <239	< 239	< 478	< 359	< 239	< 0.1	< 0.1	< 0.11	< 0.2	--	< 0.18	--
MW-210	02/17/22	< 13.4	273	< 118	332	< 118	< 0.1	< 0.1	< 0.11	< 0.2	< 0.13	--	--
	08/17/22	< 22.6	189 / <134	< 93.9 / <208	236	--	< 0.1	< 0.1	< 0.11	< 0.2	< 0.13	< 0.02	--
	11/30/22	< 22.6 / <235	< 235	< 470	< 353	< 235	< 0.1	< 0.1	< 0.11	< 0.2	--	< 0.18	--
MW-211	02/16/22	< 13.4	169	< 119	228.5	< 119	< 0.1	< 0.1	< 0.11	< 0.2	< 0.13	--	--
	08/17/22	23.5 J	< 94.1 / <148	< 94.1 / <229	< 94.1	--	< 0.1	< 0.1	< 0.11	< 0.2	< 0.13	< 0.02	--
	11/30/22	< 22.6 / <241	< 241	< 482	< 362	< 241	< 0.1	< 0.1	< 0.11	< 0.2	--	< 0.18	--
MW-212	02/17/22	< 13.4	372	< 119	431.5	< 119	< 0.1	< 0.1	< 0.11	< 0.2	0.3 J	--	--
	08/17/22	45.4 J	174 / <148	< 94 / <229	221	--	< 0.1	< 0.1	< 0.11	< 0.2	0.25 J	< 0.02	--
	11/30/22	43.4 J / <239	< 239	< 479	< 359	< 239	< 0.1	< 0.1	< 0.11	< 0.2	--	< 0.18	--
MW-213	02/17/22	168	< 116	< 116	**531**	473	1.6	0.15 J	0.23 J	< 0.2	< 0.13	--	--
	08/17/22	46.9 J	173 / <140	< 94 / <218	220	--	< 0.1	< 0.1	< 0.11	< 0.2	0.13	0.35	--
	12/01/22	< 22.6 / <233	< 233	< 467	< 350	< 233	< 0.1	< 0.1	< 0.11	< 0.2	--	< 0.18	--
MW-214	02/17/22	< 13.4	< 116	< 116	< 116	< 116	< 0.1	< 0.1	< 0.11	< 0.2	< 0.13	--	--
	08/17/22	< 22.6	< 94.9 / <128	< 94.9 / <199	< 94.9	--	< 0.1	< 0.1	< 0.11	< 0.2	0.13	< 0.02	--
	12/01/22	< 22.6 / <239	< 239	< 477	< 358	< 239	< 0.1	< 0.1	< 0.11	< 0.2	--	< 0.18	--
MW-215	02/17/22	< 13.4	< 119	< 119	< 119	< 119	< 0.1	< 0.1	< 0.11	< 0.2	< 0.13	--	--
	08/17/22	31.6 J	< 94.3 / <134	< 94.3 / <208	< 94.3	--	< 0.1	< 0.1	< 0.11	< 0.2	< 0.13	< 0.02	--
	12/01/22	< 22.6 / <236	< 236	< 472	< 354	< 236	< 0.1	< 0.1	< 0.11	< 0.2	--	0.24 J	--
MW-216	02/16/22	< 13.4	329	< 117	387.5	< 117	0.22 J	< 0.1	< 0.11	< 0.2	< 0.13	< 0.02	--
	08/16/22	33.2 J	**529 / <148**	< 95.2 / <229	**576.6**	--	< 0.1	< 0.1	< 0.11	< 0.2	< 0.13	< 0.18	--
MW-217	02/16/22	110	< 116	< 116	**1,458**	**1,400**	< 0.1	< 0.1	< 0.11	< 0.2	< 0.13	0.24	--
	08/16/22	127	475	< 96.7 / <208	**1,108**	**1,060**	< 0.1	0.28 J	< 0.11	< 0.2	< 0.13	< 0.18	--
MW-218	02/16/22	126	< 119	< 119	**1,210**	**1,150**	< 0.1	< 0.1	< 0.11	< 0.2	< 0.13	< 0.02	--
	08/16/22	91 J	**326 J**	< 96.3 / <183	**861.2**	**813**	< 0.1	0.11 J	< 0.11	< 0.2	< 0.13	< 0.18	--
MWR-1	12/01/22	< 22.6 / <243	< 243	< 486	< 365	< 243	0.21	< 1.0	< 0.11	< 0.2	--	< 0.18	--

Table 2a. Groundwater Analytical Results - TPH, BTEX, Napthalene, and PCBs
Independent Action Report
Block 37 Site
600 - 630 Westlake Avenue North | Seattle, Washington

Monitoring Well ID	Sample Date	TPH (µg/L)					VOCs[4] (µg/L)						PCBs - Total as Aroclors (µg/L)
		GRO[1]	DRO[2]	ORO[2]	TEH (DRO+ORO)[3]	Kerosene	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Naphthalene	
Screening Levels[5]													
GW-1 Protect Drinking Water GW-Detail-PW		**800**	**500**	**500**	**500**	**500**	**5**	**640**	**700**	**1,600**	**24**	**160**	**0.22**
GW-4 Screening Level Protect Indoor Air GW-Detail-PW		**NE**	**NE**	**NE**	**NE**	**NE**	**2.4**	**15,000**	**2,800**	**320**	**800**	**8.9**	**NE**
Laboratory PQL		**100**	**200**	**200**	**400**	**100**	**0.2**	**1.0**	**0.2**	**0.6**	**1.0**	**0.10**	**0.175**
MWR-3	02/17/22	< 100	< 130	< 200	< 165	--	< 0.2	< 1.0	< 0.2	< 0.6	--	< 0.098	--
	05/18/22	< 100	< 170	< 220	< 280	--	< 0.2	< 1.0	< 0.2	< 0.6	--	< 0.1	**< 0.186**
	08/24/22	< 100	< 130	< 210	< 260	--	< 0.2	< 1.0	< 0.2	< 0.6	--	< 0.096	< 0.090
	11/08/22	< 100	< 130	220	< 250	--	< 0.2	< 1.0	< 0.2	< 0.6	--	< 0.095	< 0.086
	12/01/22	< 22.6 / <239	< 239	< 479	< 359	< 239	< 0.1	< 0.1	< 0.11	< 0.2	--	< 0.096	--
MWR-4	12/01/22	< 22.6 / <237	< 237	< 473	< 355	< 237	< 0.1	< 0.1	< 0.11	< 0.2	--	< 0.18	--
MWR-5	12/01/22	**1,580**	< 94.3	< 94.3	**1,627**	**1,580**	**3.2**	0.51 J	55	6.9	--	**45**	--
MWR-6	02/17/22	< 100	< 130	350	415	--	< 0.2	< 1.0	< 0.2	< 0.6	--	< 0.1	--
	05/17/22	< 100	< 160	< 220	< 270	--	< 0.2	< 1.0	< 0.2	< 0.6	--	< 0.11	--
	08/24/22	< 100	150	270	270	--	< 0.2	< 1.0	< 0.2	< 0.6	--	< 0.096	--
	11/08/22	< 100	190	350	350	--	< 0.2	< 1.0	< 0.2	< 0.6	--	< 0.096	--
PH-1	02/17/22	< 100	< 130	260	325	--	< 0.2	< 1.0	< 0.2	< 0.6	--	0.024 J	--
	05/17/22	< 100	< 150	300	375	--	< 0.2	< 1.0	< 0.2	< 0.6	--	< 0.1	< 0.070
	08/24/22	< 100	< 130	< 210	< 170	--	< 0.2	< 1.0	< 0.2	< 0.6	--	< 0.097	< 0.086
	11/09/22	< 100	140	220	360	--	< 0.2	< 1.0	< 0.2	< 0.6	--	< 0.095	< 0.086
PH-2 /AMW-1	02/17/22	120	< 130	< 200	< 165	--	**2.4**	< 4.0	< 0.8	< 2.4	--	0.14	--
	05/17/22	< 100	< 150	< 210	< 180	--	1.3	< 1.0	0.6	< 0.6	--	0.31	< 0.070
	08/24/22	< 100	< 130	< 210	< 170	--	0.54	< 1.0	< 0.2	< 0.6	--	< 0.099	< 0.090
	11/09/22	< 100	180	290	470	--	0.43	< 1.0	< 0.2	< 0.6	--	< 0.096	< 0.086
PH-3	02/17/22	< 100	< 130	< 200	< 165	--	< 0.2	< 1.0	< 0.2	< 0.6	--	< 0.096	--
	05/18/22	< 100	< 160	270	< 250	--	< 0.2	< 1.0	< 0.2	< 0.6	--	< 0.1	**< 0.182**
	08/24/22	< 100	< 130	< 200	< 250	--	< 0.2	< 1.0	< 0.2	< 0.6	--	< 0.096	< 0.086
	11/08/22	< 100	< 130	< 200	< 250	--	< 0.2	< 1.0	< 0.2	< 0.6	--	< 0.095	< 0.086

Notes:
1. TPH as gasoline-range organics (GRO) analyzed by Ecology Method NWTPH-Gx.
2. TPH as diesel-range organics (DRO) and motor oil-range organics (ORO) analyzed by Ecology Method NWTPH-Dx.
3. Results are DRO+ORO calculations. A value of half the detection limit was used for non-detect values. Due to significant overlap between the two hydrocarbons, when both kerosene and diesel values are present for a sample the higher concentration and/or detection limit was used for the total extractable hydrocarbon calculation. Beginning in May 2022, Farallon lab (OnSite) results were reported by the laboratory as hydrocarbon range of C10 to C36 (diesel and oil ranges). Fourth quarter 2022 Fremont lab results are HCID and TPH-Dx results (when detected).
4. Volatile organic Carbons (VOC) analysis by EPA Method 8020A, 8021B or 8260B/C/D.
5. The lowest relevant screening level for each constituent is highlighted in the corresponding color.

Bold font indicates the reported value exceeds the corresponding (shaded) screening level (i.e., most stringent).
Shaded cell indicates the detected value exceeds the corresponding screening level (i.e., most stringent). Shading color corresponds to respective SL.
"<" = denotes analyte not detected at of exceeding the reporting limit listed
"--" = not analyzed, sampled, or reported
Ecology = Washington State Department of Ecology
EPA = United States Environmental Protection Agency
J = estimated concentration
MTBE = methyl tert-butyl ether
NE = not established
PCB = polychlorinated biphenyl
PQL = practical quantitation limit
TEH = total extractable hydrocarbons
TPH - total petroleum hydrocarbons
µg/L = microgram per liter

Table 2b. Groundwater Analytical Results - PAHs and cPAHs
Independent Action Report
Block 37 Site
600 - 630 Westlake Avenue North | Seattle, Washington

Monitoring Well ID	Sample Date	PAHs (µg/L)									cPAHs (µg/L)							
		1-Methyl-naphthalene	Acenaphthene	Anthracene	Dibenzofuran	Fluoranthene	Fluorene	Naphthalene [6]	Phenanthrene	Pyrene	Benzo(a) pyrene	Benzo(a) anthracene	Benzo(b) fluoranthene	Benzo(j,k) fluoranthene	Chrysene	Dibenz(a,h) anthracene	Indeno(1,2,3-cd)pyrene	TTEC[2]
Screening Levels[1]																		
GW-1 Protect Drinking Water GW-Detail-PW		**1.5**	**480**	**2,400**	**8.0**	**640**	**320**	**160**	**NE**	**240**	**0.2**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**0.2**
GW-4 Screening Level Protect Indoor Air GW-Detail-PW		**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**8.9**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**
Laboratory PQL		**0.04**	**0.04**	**0.04**	**0.04**	**0.04**	**0.04**	**0.10**	**0.04**	**0.04**	**0.01**	**0.01**	**0.01**	**(Total Benzofluoranthenes)**	**0.01**	**0.01**	**0.01**	**0.0151**
Existing Monitoring Wells																		
B-37-1 (GEI-1)	2/16/2022	--	--	--	--	--	--	0.037 J	--	--	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< 0.0076
	5/17/2022	--	--	--	--	--	--	0.12	--	--	< **0.011**	< **0.011**	< **0.011**	< **0.011**	< **0.011**	< **0.011**	< **0.011**	< 0.0083
	8/25/2022	--	--	--	--	--	--	< 0.10	--	--	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< 0.0076
	11/9/2022	--	--	--	--	--	--	< 0.096	--	--	< 0.0096	< 0.0096	< **0.0096**	< **0.0096**	< 0.0096	< 0.0096	< 0.0096	< 0.0072
B-37-2 (GEI-2)	2/18/2022	--	--	--	--	--	--	< 0.096	--	--	< 0.0096	< 0.0096	< **0.0096**	< **0.0096**	< 0.0096	< 0.0096	< 0.0096	< 0.0072
	5/18/2022	--	--	--	--	--	--	< 0.099	--	--	< 0.0099	< 0.0099	< **0.0099**	< **0.0099**	< 0.0099	< 0.0099	< 0.0099	< 0.0075
	8/24/2022	--	--	--	--	--	--	< 0.097	--	--	--	--	--	--	--	--	--	--
	11/7/2022	--	--	--	--	--	--	< 0.095	--	--	--	--	--	--	--	--	--	--
B-37-3	4/1/2021	--	--	--	--	--	--	< 1.0	--	--	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< 0.0076
	2/16/2022	--	--	--	--	--	--	0.016 J	--	--	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< 0.0076
	5/17/2022	--	--	--	--	--	--	< 0.10	--	--	< **0.01**	< **0.01**	< **0.01**	**0.014**	< **0.01**	< **0.01**	< **0.01**	0.0085
	8/25/2022	--	--	--	--	--	--	< 0.097	--	--	< 0.0097	< 0.0097	< **0.0097**	< **0.0097**	< 0.0097	< 0.0097	< 0.0097	< 0.0073
	11/7/2022	--	--	--	--	--	--	< 0.10	--	--	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< 0.0076
B-37-4	4/1/2021	--	--	--	--	--	--	< 1.0	--	--	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< 0.0076
	2/16/2022	--	--	--	--	--	--	< 0.10	--	--	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< 0.0076
	5/17/2022	--	--	--	--	--	--	< 0.10	--	--	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< 0.0076
	8/25/2022	--	--	--	--	--	--	< 0.099	--	--	< 0.0099	< 0.0099	< **0.0099**	< **0.0099**	< 0.0099	< 0.0099	< 0.0099	< 0.0075
	11/7/2022	--	--	--	--	--	--	< 0.097	--	--	< 0.0097	< 0.0097	< **0.0097**	< **0.0097**	< 0.0097	< 0.0097	< 0.0097	< 0.0073
B-37-5	4/1/2021	--	--	--	--	--	--	< 1.0	--	--	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< 0.0076
	2/17/2022	--	--	--	--	--	--	< 0.10	--	--	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.0076
	5/18/2022	--	--	--	--	--	--	< 0.098	--	--	< **0.098**	< **0.098**	< **0.098**	< **0.098**	< **0.098**	< **0.098**	< **0.098**	< 0.0074
	8/25/2022	--	--	--	--	--	--	< 0.096	--	--	< 0.0096	< 0.0096	< **0.0096**	< **0.0096**	< 0.0096	< 0.0096	< 0.0096	< 0.0072
	11/7/122							< 0.096	--	--	< 0.0096	< 0.0096	< **0.0096**	< **0.0096**	< 0.0096	< 0.0096	< 0.0096	< 0.0072
B-37-6	4/1/2021	--	--	--	--	--	--	< 1.0	--	--	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< 0.0076
	2/16/2022	--	--	--	--	--	--	0.024 J	--	--	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< 0.0076
	5/18/2022	--	--	--	--	--	--	< 0.10	--	--	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< 0.0076
	8/25/2022	--	--	--	--	--	--	< 0.10	--	--	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< 0.0076
	11/7/2022	--	--	--	--	--	--	< 0.096	--	--	< 0.0096	< 0.0096	< **0.0096**	< **0.0096**	< 0.0096	< 0.0096	< 0.0096	< 0.0072
B-37-7	5/10/2021	--	--	--	--	--	--	< 0.10	--	--	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< 0.0076
	2/17/2022	--	--	--	--	--	--	< 0.10	--	--	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< 0.0076
	5/18/2022	--	--	--	--	--	--	< 0.11	--	--	< **0.011**	< **0.011**	< **0.011**	< **0.011**	< **0.011**	< **0.011**	< **0.011**	< 0.0083
	8/25/2022	--	--	--	--	--	--	< 0.095	--	--	< 0.0095	< 0.0095	< **0.0095**	< **0.0095**	< 0.0095	< 0.0095	< 0.0095	< 0.0072
	11/9/2022	--	--	--	--	--	--	< 0.095	--	--	< 0.0095	< 0.0095	< **0.0095**	< **0.0095**	< 0.0095	< 0.0095	< 0.0095	< 0.0072
B-37-8	5/10/2021	--	--	--	--	--	--	< 0.10	--	--	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< 0.0076
	2/17/2022	--	--	--	--	--	--	0.099	--	--	< 0.0099	< 0.0099	< **0.0099**	< **0.0099**	< 0.0099	< 0.0099	< 0.0099	< 0.0075
	5/18/2022	--	--	--	--	--	--	< 0.10	--	--	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< 0.0076
	8/25/2022	--	--	--	--	--	--	< 0.096	--	--	< 0.0096	< 0.0096	< **0.0096**	< **0.0096**	< 0.0096	< 0.0096	< 0.0096	< 0.0072
	11/9/2022	--	--	--	--	--	--	< 0.095	--	--	< 0.0095	< 0.0095	< **0.0095**	< **0.0095**	< 0.0095	< 0.0095	< 0.0095	< 0.0072
B-37-9	5/10/2021	--	--	--	--	--	--	0.15	--	--	< 0.0099	< 0.0099	< **0.0099**	< **0.0099**	< 0.0099	< 0.0099	< 0.0099	< 0.0075
	2/17/2022	--	--	--	--	--	--	0.034 J	--	--	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< 0.0076
	5/17/2022	--	--	--	--	--	--	0.016 J	--	--	< **0.012**	< **0.012**	< **0.012**	< **0.012**	< **0.012**	< **0.012**	< **0.012**	< 0.0091
	8/24/2022	--	--	--	--	--	--	< 0.097	--	--	< 0.0097	< 0.0097	< **0.0097**	< **0.0097**	< 0.0097	< 0.0097	< 0.0097	< 0.0073
	11/8/2022	--	--	--	--	--	--	< 0.095	--	--	< 0.0095	< 0.0095	< **0.0095**	< **0.0095**	< 0.0095	< 0.0095	< 0.0095	< 0.0072
FMW-131	5/18/2022	--	--	--	--	--	--	< 0.10	--	--	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< 0.0076
	8/24/2022	--	--	--	--	--	--	< 0.097	--	--	< 0.0097	< 0.0097	< **0.0097**	< **0.0097**	< 0.0097	< 0.0097	< 0.0097	< 0.0073
	11/8/2022	--	--	--	--	--	--	< 0.095	--	--	< 0.0095	< 0.0095	< **0.0095**	< **0.0095**	< 0.0095	< 0.0095	< 0.0095	< 0.0072
FMW-139	2/16/2022	--	--	--	--	--	--	< 0.11	--	--	< **0.011**	< **0.011**	< **0.011**	< **0.011**	< **0.011**	< **0.011**	< **0.011**	< 0.0083
	5/18/2022	--	--	--	--	--	--	< 0.10	--	--	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< 0.0076
	8/24/2022	--	--	--	--	--	--	< 0.096	--	--	< 0.0096	< 0.0096	< **0.0096**	< **0.0096**	< 0.0096	< 0.0096	< 0.0096	< 0.0072
	11/8/2022	--	--	--	--	--	--	< 0.095	--	--	< 0.0095	< 0.0095	< **0.0095**	< **0.0095**	< 0.0095	< 0.0095	< 0.0095	< 0.0072
MW-45	2/16/2022	--	--	--	--	--	--	2.2	--	--	< 0.0099	< 0.0099	< **0.0099**	< **0.0099**	< 0.0099	< 0.0099	< 0.0099	< 0.0075
	5/17/2022	--	--	--	--	--	--	0.24	--	--	< **0.011**	< **0.011**	< **0.011**	< **0.011**	< **0.011**	< **0.011**	< **0.011**	< 0.0083
	8/24/2022	--	--	--	--	--	--	< 0.095	--	--	< 0.0095	< 0.0095	< **0.0095**	< **0.0095**	< 0.0095	< 0.0095	< 0.0095	< 0.0072
	11/8/2022	--	--	--	--	--	--	0.18	--	--	< 0.0095	< 0.0095	< **0.0095**	< **0.0095**	< 0.0095	< 0.0095	< 0.0095	< 0.0072
MW-50	2/18/2022	--	--	--	--	--	--	**30**	--	--	**0.017**	**0.064**	**0.039**	**0.011**	**0.048**	< **0.01**	< **0.01**	0.03
	5/17/2022	--	--	--	--	--	--	2.7	--	--	0.0092 J	**0.02**	**0.017**	**0.023**	**0.012**	< **0.012**	< **0.012**	0.017
	8/25/2022	--	--	--	--	--	--	4.0	--	--	< 0.0096	**0.22**	**0.019**	< **0.0096**	**0.017**	< 0.0096	< 0.0096	0.011
	11/8/2022	--	--	--	--	--	--	**12**	--	--	< 0.0096	**0.014**	< **0.0096**	< **0.0096**	**0.016**	< 0.0096	< 0.0096	0.0083
MW-54	2/16/2022	--	--	--	--	--	--	< 0.10	--	--	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< 0.0076
	5/18/2022	--	--	--	--	--	--	< 0.11	--	--	< **0.011**	< **0.011**	< **0.011**	< **0.011**	< **0.011**	< **0.011**	< **0.011**	< 0.0083
	8/24/2022	--	--	--	--	--	--	< 0.095	--	--	< 0.0095	< 0.0095	< **0.0095**	< **0.0095**	< 0.0095	< 0.0095	< 0.0095	< 0.0072
	11/8/2022	--	--	--	--	--	--	< 0.095	--	--	< 0.0095	< 0.0095	< **0.0095**	< **0.0095**	< 0.0095	< 0.0095	< 0.0095	< 0.0072
MW-209	2/17/2022	0.25	2.6	0.23	0.13	**0.36**	1.0	< 0.015	0.42	**0.4**	< **0.011**	**0.018 J**	< **0.024**		< **0.014**	< **0.015**	< **0.015**	0.001
	8/17/2022	--	--	--	--	--	--	< 0.18	--	--	< **0.011**	**0.037**	< **0.034**		**0.042**	**0.016**	**0.016**	0.0145
MW-210	2/17/2022	< 0.0084	0.014 J	< 0.0078	< 0.018	< 0.018	< 0.01	< 0.016	< 0.016	< 0.014	< **0.012**	< **0.016**	< **0.026**		< **0.015**	< **0.016**	< **0.016**	< 0.009
	8/17/2022	--	--	--	--	--	--	< 0.18	--	--	< **0.01**	< 0.008	< **0.035**		< 0.0083	< **0.016**	< **0.016**	< 0.01
MW-211	2/16/2022	< 0.0086	< 0.011	< 0.008	< 0.018	< 0.018	< 0.01	< 0.017	< 0.016	< 0.014	< **0.012**	< **0.017**	< **0.027**		< **0.015**	< **0.017**	< **0.017**	< 0.009
	8/17/2022	--	--	--	--	--	--	< 0.18	--	--	< **0.011**	< 0.0079	< **0.034**		< 0.0082	< **0.016**	< **0.016**	< 0.01
MW-212	2/17/2022	0.012 J	0.057	< 0.0078	< 0.018	< 0.018	0.015 J	< 0.016	< 0.016	< 0.014	< **0.012**	< **0.016**	< **0.026**		< **0.015**	< **0.016**	< **0.016**	< 0.01
	8/17/2022	--	--	--	--	--	--	< 0.18	--	--	< **0.01**	< 0.0079	< **0.034**		< 0.0082	< **0.016**	< **0.016**	< 0.01
MW-213	2/17/2022	1.1	0.028 J	< 0.0074	< 0.017	< 0.017	< 0.0095	0.35	< 0.015	< 0.013	< **0.011**	< **0.016**	< **0.025**		< **0.014**	< **0.016**	< **0.016**	< 0.009
	8/17/2022	--	--	--	--	--	--	< 0.18	--	--	< **0.011**	< 0.0079	< **0.034**		< 0.0082	< **0.016**	< **0.016**	< 0.01
MW-214	2/17/2022	< 0.0084	< 0.011	< 0.0078	< 0.018	< 0.018	< 0.01	< 0.016	< 0.016	< 0.014	< **0.012**	< **0.016**	< **0.026**		< **0.015**	< **0.016**	< **0.016**	< 0.009
	8/17/2022	--	--	--	--	--	--	< 0.18	--	--	< **0.011**	< 0.0078	< **0.034**		< 0.008	< **0.016**	< **0.016**	< 0.009
MW-215	2/17/2022	< 0.0079	< 0.010	< 0.0073	< 0.016	< 0.016	< 0.0093	< 0.015	< 0.015	< 0.013	< **0.011**	< **0.015**	< **0.024**		< **0.014**	< **0.015**	< **0.015**	< 0.009
	8/17/2022	--	--	--	--	--	--	--	--	--	< **0.011**	< 0.0081	< **0.035**		< 0.0084	< **0.016**	< **0.017**	< 0.01
MW-216	2/16/2022	< 0.0088	< 0.012	< 0.0081	< 0.018	< 0.018	< 0.01	< 0.017	< 0.016	< 0.014	< **0.013**	< **0.017**	< **0.027**		< **0.016**	< **0.017**	< **0.017**	< 0.009
	8/16/2022	--	--	--	--	--	--	< 0.18	--	--	< **0.011**	< 0.0079	< **0.034**		< 0.0081	< **0.016**	< **0.016**	< 0.01
MW-217	2/16/2022	0.017 J	0.2	< 0.0081	< 0.018	< 0.018	0.047	0.24	< 0.016	< 0.014	< **0.012**	< **0.017**	< **0.027**		< **0.015**	< **0.017**	< **0.017**	< 0.009
	8/16/2022	--	--	--	--	--	--	< 0.18	--	--	< **0.011**	< 0.0083	< **0.036**		< 0.0085	< **0.017**	< **0.017**	< 0.01
MW-218	2/16/2022	0.016 J	0.014 J	< 0.0076	< 0.017	< 0.017	< 0.0097	< 0.016	< 0.015	< 0.013	< **0.012**	< **0.016**	< **0.025**		< **0.015**	< **0.016**	< **0.016**	< 0.009
	8/16/2022	--	--	--	--	--	--	< 0.18	--	--	< **0.012**	< 0.0086	< **0.037**		< 0.0088	< **0.017**	< **0.017**	< 0.01
MWR-3	2/17/2022	--	--	--	--	--	--	< 0.098	--	--	< 0.0098	< 0.0098	< **0.0098**	< **0.0098**	< 0.0098	< 0.0098	< 0.0098	< 0.0074
	5/18/2022	--	--	--	--	--	--	< 0.10	--	--	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< 0.0076
	8/24/2022	--	--	--	--	--	--	< 0.096	--	--	< 0.0096	< 0.0096	< **0.0096**	< **0.0096**	< 0.0096	< 0.0096	< 0.0096	< 0.0072
	11/8/2022	--	--	--	--	--	--	< 0.096	--	--	< 0.0095	< 0.0095	< **0.0095**	< **0.0095**	< 0.0095	< 0.0095	< 0.0095	< 0.0072
MWR-6	2/17/2022	--	--	--	--	--	--	< 0.10	--	--	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< 0.0076
	5/17/2022	--	--	--	--	--	--	< 0.11	--	--	< **0.011**	< **0.011**	< **0.011**	< **0.011**	< **0.011**	< **0.011**	< **0.011**	< 0.0083
	8/24/2022	--	--	--	--	--	--	< 0.096	--	--	< 0.0096	< 0.0096	< **0.0096**	< **0.0096**	< 0.0096	< 0.0096	< 0.0096	< 0.0072
	11/8/2022	--	--	--	--	--	--	< 0.096	--	--	< 0.0096	< 0.0096	< **0.0096**	< **0.0096**	< 0.0096	< 0.0096	< 0.0096	< 0.0072
PH-1	2/17/2022	--	--	--	--	--	--	0.024 J	--	--	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< 0.0076
	5/17/2022	--	--	--	--	--	--	< 0.10	--	--	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< 0.0076
	8/25/2022	--	--	--	--	--	--	< 0.097	--	--	< 0.0097	< 0.0097	< **0.0097**	< **0.0097**	< 0.0097	< 0.0097	< 0.0097	< 0.0073
	11/9/2022	--	--	--	--	--	--	< 0.095	--	--	< 0.0095	< 0.0095	< **0.0095**	< **0.0095**	< 0.0095	< 0.0095	< 0.0095	< 0.0072
PH-2 /AMW-1	2/17/2022	--	--	--	--	--	--	0.14	--	--	< 0.0096	< 0.0096	< **0.0096**	< **0.0096**	< 0.0096	< 0.0096	< 0.0096	< 0.0072
	5/17/2022	--	--	--	--	--	--	0.31	--	--	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< 0.0076
	8/25/2022	--	--	--	--	--	--	< 0.099	--	--	< 0.0099	< 0.0099	< **0.0099**	< **0.0099**	< 0.0099	< 0.0099	< 0.0099	< 0.0075
	11/9/2022	--	--	--	--	--	--	< 0.096	--	--	< 0.0096	< 0.0096	< **0.0096**	< **0.0096**	< 0.0096	< 0.0096	< 0.0096	< 0.0072
PH-3	2/17/2022	--	--	--	--	--	--	< 0.096	--	--	< 0.0096	< 0.0096	< **0.0096**	< **0.0096**	< 0.0096	< 0.0096	< 0.0096	< 0.0072
	5/18/2022	--	--	--	--	--	--	< 0.10	--	--	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< **0.01**	< 0.0076
	8/25/2022	--	--	--	--	--	--	< 0.096	--	--	< 0.0096	< 0.0096	< **0.0096**	< **0.0096**	< 0.0096	< 0.0096	< 0.0096	< 0.0072
	11/8/2022	--	--	--	--	--	--	< 0.095	--	--	< 0.0095	< 0.0095	< **0.0095**	< **0.0095**	< 0.0095	< 0.0095	< 0.0095	< 0.0072

Notes:
1. The lowest relevant screening level for each constituent is highlighted in the corresponding color.
2. cPAH (carcinogenic polycyclic aromatic hydrocarbon) are subject to Washington Administrative Code (WAC)-173-340 Toxicity Equivalent Concentration calculations.
Naphthalene results are included in Table 2a
Bold font indicates the reported value exceeds the corresponding (shaded) screening level (i.e., most stringent).
Shaded cell indicates the detected value exceeds the corresponding screening level (i.e., most stringent).
"<" = denotes analyte not detected at of exceeding the reporting limit listed
"--" = not analyzed, sampled, or reported
J = Result is an estimate.
NE = not established
PQL = practical quantitation limit
TTEC = total toxicity equivalent concentration
µg/L = micrograms per liter

Table 2c. Groundwater Analytical Results - Metals
Independent Action Report
Block 37 Site
600 - 630 Westlake Avenue North | Seattle, Washington

Monitoring Well ID	Sample Date	Metals (µg/L)							
		Arsenic (Total)	Arsenic (Dissolved)	Barium (Total)	Barium (Dissolved)	Chromium III (Total)	Chromium III (Dissolved)	Lead (Total)[1]	Lead (Dissolved)[1]
Screening Levels[2]									
GW-1 Protect Drinking Water GW-Detail-PW		**0.58**	**0.58**	**2,000**	**2,000**	**100**	**100**	**15**	**15**
GW-4 Screening Level Protect Indoor Air GW-Detail-PW		**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**
GW-5 Natural Background		**8**	**8**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**
Laboratory PQL		**3.3**	**3.3**	**28**	**28**	**11**	**11**	**0.5**	**0.5**
Existing Monitoring Wells									
B-37-1 (GEI-1)	02/16/22	< 3.0	< 3.0	120	99	< 10	< 10	< 1.1	< 1.0
	05/17/22	< 3.0	< 3.0	140	2	< 10	< 10	< 1.1	< 1.0
	08/25/22	< 3.0	< 3.0	130	130	< 10	< 10	< 1.1	< 1.0
	11/09/22	< 3.0	< 3.0	130	120	< 10	< 10	< 1.1	< 1.0
B-37-2 (GEI-2)	02/18/22	3.5	--	60	--	< 10	--	< 1.1	--
B-37-3	04/01/21	**9.6**	< 3.0	--	--	< 11	--	1.5	--
	02/16/22	**9.6**	**9.5**	120	120	< 10	< 10	< 1.1	< 1.0
	05/17/22	5.3	< 3.0	110	68	< 10	< 10	< 1.1	< 1.0
	08/25/22	5.2	5.5	110	110	< 10	< 10	< 1.1	< 1.0
	11/07/22	7.5	**8.4**	110	120	< 10	< 10	< 1.1	< 1.0
B-37-4	04/01/21	< 3.3	--	--	--	< 11	--	1.8	--
	02/16/22	< 3.0	< 3.0	110	110	< 10	< 10	< 1.1	< 1.0
	05/17/22	< 3.0	< 3.0	120	83	< 10	< 10	< 1.1	< 1.0
	08/25/22	< 3.0	< 3.0	110	110	< 10	< 10	< 1.1	< 1.0
	11/07/22	< 3.0	< 3.0	120	110	< 10	< 10	< 1.1	< 1.0
B-37-5	04/01/21	6.0	< 3.0	--	--	< 11	--	1.2	--
	02/17/22	**10**	--	72	--	< 10	--	< 1.1	--
	05/18/22	**8.9**	5.1	55	38	< 10	< 10	< 1.1	< 1.0
	08/25/22	**11**	**11**	90	78	< 10	< 10	< 1.1	< 1.0
	11/07/22	**12**	**12**	72	65	< 10	< 10	< 1.1	< 1.0
B-37-6	04/01/21	< 3.3	--	--	--	< 11	--	< 1.1	--
	02/16/22	< 3.0	< 3.0	91	85	< 10	< 10	< 1.1	< 1.0
	05/18/22	< 3.0	< 3.0	74	61	< 10	< 10	< 1.1	< 1.0
	08/25/22	< 3.0	< 3.0	77	76	< 10	< 10	< 1.1	< 1.0
	11/07/22	< 3.0	< 3.0	86	83	< 10	< 10	< 1.1	< 1.0
B-37-7	05/10/21	< 3.3	--	--	--	< 11	--	< 1.1	--
	02/17/22	< 3.0	--	160	--	< 10	--	< 1.1	--
	05/18/22	< 3.0	< 3.0	150	99	< 10	< 10	< 1.1	< 1.0
	08/25/22	< 3.0	< 3.0	140	140	< 10	< 10	< 1.1	< 1.0
	11/09/22	< 3.0	< 3.0	130	140	< 10	< 10	< 1.1	< 1.0
B-37-8	05/10/21	< 3.3	--	--	--	< 11	--	< 1.1	--
	02/17/22	**9.1**	--	150	--	19	--	6.6	--
	05/18/22	7.2	5.2	110	85	< 10	< 10	< 1.1	< 1.0
	08/25/22	5.6	5.4	120	94	< 10	< 10	< 1.1	< 1.0
	11/09/22	7.0	5.2	100	85	< 10	< 10	< 1.1	< 1.0
B-37-9	05/10/21	**21**	**18**	--	--	< 11	--	< 1.1	--
	02/17/22	**16**	--	150	--	< 10	--	< 1.1	--
	05/17/22	**12**	7.7	120	83	< 10	< 10	< 1.1	< 1.0
	08/24/22	**10**	**11**	93	90	< 10	< 10	< 1.1	< 1.0
	11/08/22	**16**	**12**	130	98	< 10	< 10	< 1.1	< 1.0
FMW-131	05/18/22	**140**	**78**	< 28	< 25	< 10	< 10	< 1.1	< 1.0
	08/24/22	**53**	**53**	< 28	< 25	< 10	< 10	< 1.1	< 1.0
	11/08/22	**84**	**61**	< 28	< 25	< 10	< 10	1.2	< 1.0
FMW-139	02/16/22	< 3.0	< 3.0	72	55	< 10	< 10	< 1.1	< 1.0
	05/18/22	< 3.0	< 3.0	64	56	< 10	< 10	< 1.1	< 1.0
	08/24/22	< 3.0	< 3.0	67	66	< 10	< 10	< 1.1	< 1.0
	11/08/22	< 3.0	< 3.0	72	79	< 10	< 10	< 1.1	< 1.0
MW-45	02/16/22	< 3.0	< 3.0	55	51	< 10	< 10	< 1.1	< 1.0
	05/17/22	< 3.0	< 3.0	53	43	< 10	< 10	< 1.1	< 1.0
	08/24/22	< 3.0	< 3.0	62	40	< 10	< 10	< 1.1	< 1.0
	11/08/22	< 3.0	< 3.0	69	63	< 10	< 10	< 1.1	< 1.0
MW-50	02/18/22	**16**	--	120	--	< 10	--	< 1.1	--
	05/17/22	**20**	**11**	69	35	< 10	< 10	< 1.1	< 1.0
	08/25/22	**19**	**19**	81	80	< 10	< 10	< 1.1	< 1.0
	11/09/22	**21**	**19**	66	65	< 10	< 10	< 1.1	< 1.0
MW-54	02/16/22	4.1	3.6	69	66	< 10	< 10	< 1.1	< 1.0
	05/18/22	< 3.0	< 3.0	56	48	< 10	< 10	< 1.1	< 1.0
	08/24/22	< 3.0	< 3.0	55	54	< 10	< 10	< 1.1	< 1.0
	11/08/22	< 3.0	< 3.0	74	67	< 10	< 10	< 1.1	< 1.0
MW-209	02/17/22	1.5	0.9	86	84.7	0.53	0.5 J	0.042 J	0.15
	08/17/22	1.4	1.4	113	111	0.92	0.86	< 0.063 J	< 0.069 J
	11/30/22	2.9	3.1	48	52.1	< 0.36	< 0.36	0.092 J	< 0.056
MW-210	02/17/22	0.41 J	0.39 J	116	110	< 0.67	< 0.59	< 0.058 J	< 0.045 J
	08/17/22	0.76	0.60	93.4	85.2	< 1.2 J	< 1.3 J	< 0.056	< 0.056
	11/30/22	1.4	0.93	103	98.5	< 0.36	< 0.36	< 0.056	< 0.056
MW-211	02/16/22	0.24 J	0.2 J	62	62.5	0.6	0.63	0.031 J	< 0.028
	08/17/22	0.27 J	0.21 J	68	65.5	1.10 J	0.97 J	< 0.056	< 0.056
	11/30/22	2.0	2.1	63.9	63.4	< 0.36	< 0.36	< 0.056	< 0.056
MW-212	02/17/22	7.8	5.5	161	156	1	0.86	0.084 J	0.11
	08/17/22	0.86	0.65	165	163	1 J	1 J	< 0.056	< 0.056
	11/30/22	2.7	1.6	173	171	< 0.36	< 0.36	< 0.056	< 0.056
MW-213	02/17/22	**13.5**	**11.8**	69.1	59.8	1.2	1.0	1.0	0.34
	08/17/22	**12.5**	**12.6**	72.1	59.7	1.9 J	1.6 J	0.39 J	0.2 J
	12/01/22	2.7	2.4	47.4	45.5	7.2	6.4	0.72	0.14 J
MW-214	02/17/22	6.1	4.7	38	37	0.8	0.83	0.11	< 0.03
	08/17/22	**8.5**	**8.4**	48	51	0.91 J	0.97 J	< 0.056	< 0.056
	12/01/22	3.1	2.9	18	19	2.5	2.2	0.079 J	< 0.056
MW-215	02/17/22	2.5	1.9	55.6	48	1.3	0.7	0.41	0.11
	08/17/22	3.4	2.6	68.8	57.5	2.3	1.4 J	1.3	0.09 J
	12/01/22	1.8	1.9	14.9	14.8	< 0.36	< 0.36	0.49 J	0.47 J
MW-216	02/16/22	2.6	1.9	47.1	42.6	1.4	1.1	0.29	0.1
	08/16/22	**21**	**19**	97.3	89.1	4.0	3.6	0.28 J	0.08 J
MW-217	02/16/22	1.4	1.1	157	137	1.4	1.2	1.4	0.23
	08/16/22	1.2	1.1	147	130	1.3 J	1.1 J	< 0.056	< 0.056

Table 2c. Groundwater Analytical Results - Metals
Independent Action Report
Block 37 Site
600 - 630 Westlake Avenue North | Seattle, Washington

Monitoring Well ID	Sample Date	Metals (µg/L)							
		Arsenic (Total)	Arsenic (Dissolved)	Barium (Total)	Barium (Dissolved)	Chromium III (Total)	Chromium III (Dissolved)	Lead (Total)[1]	Lead (Dissolved)[1]
Screening Levels[2]									
GW-1 Protect Drinking Water GW-Detail-PW		0.58	0.58	2,000	2,000	100	100	15	15
GW-4 Screening Level Protect Indoor Air GW-Detail-PW		NE	NE	NE	NE	NE	NE	NE	NE
GW-5 Natural Background		8	8	NE	NE	NE	NE	NE	NE
Laboratory PQL		3.3	3.3	28	28	11	11	0.5	0.5
MW-218	02/16/22	1.4	0.84	141	121	0.94	0.59	0.2	< 0.028
	08/16/22	0.43 J	0.37 J	145	127	1.5 J	1.3 J	0.14 J	< 0.056
MWR-1	12/01/22	4.3	4.3	38.7	38.00	1.7 J	0.49 J	< 0.06	< 0.06
MWR-3	02/17/22	**22**	--	60	--	< 10	--	< 1.1	--
	05/18/22	**9.1**	5.4	45	34	< 10	< 10	< 1.1	< 1.0
	08/24/22	**8.3**	7.9	56	50	< 10	< 10	< 1.1	< 1.0
	11/08/22	5.2	3.4	57	43	< 10	< 10	< 1.1	< 1.0
	12/01/22	3.5	3.2	49.1	47.7	< 0.36	< 0.36	0.1 J	< 0.06
MWR-4	12/01/22	1.6	1.5	17.4	17.4	< 0.36	< 0.36	< 0.06	< 0.06
MWR-5	12/01/22	**23.4**	**21.6**	29.1	24.3	2.5	0.67 J	1.1	< 0.2
MWR-6	02/17/22	< 3.0	--	150	--	< 10	--	< 1.1	--
	05/17/22	< 3.0	< 3.0	140	70	< 10	< 10	< 1.1	< 1.0
	08/24/22	< 3.0	< 3.0	160	150	< 10	< 10	< 1.1	< 1.0
	11/08/22	4.6	3.9	160	160	< 10	< 10	< 1.1	< 1.0
PH-1	02/17/22	6.8	--	180	--	< 10	--	< 1.1	--
	05/17/22	3.4	< 3.0	170	100	< 10	< 10	< 1.1	< 1.0
PH-2 /AMW-1	02/17/22	5.3	--	120	--	< 10	--	< 1.1	--
	05/17/22	**8.7**	3.6	110	79	< 10	< 10	< 1.1	< 1.0
	08/25/22	**12.0**	5.6	110	90	< 10	< 10	< 1.1	< 1.0
PH-3	02/17/22	< 3.0	--	130	--	< 10	--	< 1.1	--
	05/18/22	4.1	< 3.0	140	88	< 10	< 10	< 1.1	< 1.0
	08/25/22	7.2	7.4	160	160	< 10	< 10	< 1.1	< 1.0
	11/08/22	7.0	6.2	110	96	< 10	< 10	< 1.1	< 1.0

Notes:

1. Total lead analysis by EPA Method 6020.
2. The lowest relevant screening level for each constituent is highlighted in the corresponding color.

Bold font indicates the reported value exceeds the corresponding (shaded) screening level (i.e., most stringent).

Shaded cell indicates the detected value exceeds the corresponding screening level (i.e., most stringent).

"<" = denotes analyte not detected at or exceeding the reporting limit listed

"--" = not analyzed, sampled, or reported

J = Result is an estimate

MW = monitoring well

MWR = monitoring well replacement

NE = not established

PQL = practical quantitation limit

µg/L = microgram per liter

Table 3. Groundwater Monitoring Results – 2021 and 2022
Independent Action Report
Block 37 Site
600 - 630 Westlake Avenue North | Seattle, Washington

Monitoring Well ID	TOC Elevation (feet aMSL)	Date Monitored	Consulatnt	Well Measurements		Field Parameters					
				DTW (feet bTOC)	GWE (feet aMSL)	DO (mg/L)	ORP (mV)	Spec. Cond. (µS/cm)	Temp. (°C)	pH	Turbidity (NTU)
Monitoring Wells - Active											
B-37-1	27.95	02/16/22	Farallon	10.15	17.80	2.43	-91.1	911	12.70	6.61	5.36
		05/17/22	Farallon	8.89	19.06	1.18	-51.4	2,328	15.20	6.55	22.67
		08/24/22	Farallon	9.65	18.30	0.39	183.7	633	16.90	6.75	3.54
		11/09/22	Farallon	9.70	18.25	6.98	211.9	746	15.40	6.62	15.91
B-37-2	29.38	02/16/22	Farallon	12.34	17.04	3.17	-80.6	266	12.10	6.86	6.16
		05/17/22	Farallon	11.18	18.20	1.52	-58.4	1,899	15.10	6.76	42.67
		08/24/22	Farallon	11.53	17.85	0.32	-8.3	314	16.40	6.94	4.00
		11/09/22	Farallon	12.03	17.35	0.22	-90.6	718	15.00	6.86	1.15
B-37-3	26.78	04/01/21	Farallon	12.09	14.69	0.27	-79.9	1,007	15.70	6.46	54.49
		02/16/22	Farallon	8.79	17.99	1.93	-145.1	1,687	13.30	6.74	20.20
		05/17/22	Farallon	7.97	18.81	1.24	-74.8	3,797	15.20	6.72	22.69
		08/24/22	Farallon	8.63	18.15	0.29	-95.0	1,963	20.40	6.76	137.20
		11/09/22	Farallon	8.87	17.91	0.52	-89.4	1,327	18.20	6.74	12.64
B-37-4	27.20	04/01/21	Farallon	12.14	15.06	0.36	-6.6	706	12.60	6.10	18.96
		02/16/22	Farallon	8.70	18.50	2.52	-89.2	1,225	13.60	6.43	7.29
		05/17/22	Farallon	7.95	19.25	1.24	-19.2	2,909	14.50	6.32	41.06
		08/24/22	Farallon	8.58	18.62	0.28	-51.0	1,444	19.40	6.50	167.50
		11/09/22	Farallon	8.85	18.35	0.35	-50.9	1,029	18.10	6.37	284.24
B-37-5	27.55	04/01/21	Farallon	12.52	15.03	0.35	-12.4	792	13.90	6.76	60.59
		02/16/22	Farallon	9.02	18.53	2.26	-127.0	1,241	12.50	7.07	8.26
		05/17/22	Farallon	8.27	19.28	1.51	-79.2	2,588	13.00	7.05	16.03
		08/24/22	Farallon	8.95	18.60	--	--	--	--	--	--
		08/25/22	Farallon	9.07	18.48	0.18	-124.8	1,479	18.50	6.89	3.12
		11/09/22	Farallon	9.12	18.43	5.73	188.7	1,572	16.50	6.87	19.00
B-37-6	27.54	04/01/21	Farallon	12.47	15.07	0.56	-23.7	690	13.80	6.21	7.43
		02/16/22	Farallon	9.08	18.46	2.39	-130.6	772	14.50	7.10	5.24
		05/17/22	Farallon	8.33	19.21	1.48	-64.5	1,571	13.50	7.14	19.03
		08/24/22	Farallon	8.98	18.56	0.31	-110.8	796	18.20	7.22	122.47
		11/09/22	Farallon	8.29	19.25	0.48	-93.2	648	15.50	6.88	33.91
B-37-7	29.71	05/10/21	Farallon	15.15	14.56	0.47	-329.7	1,292	18.30	6.67	54.24
		02/16/22	Farallon	12.46	17.25	0.34	-106.9	2,066	13.00	6.52	17.82
		05/17/22	Farallon	11.52	18.19	0.86	-64.8	2,938	14.00	6.97	102.70
		08/24/22	Farallon	11.78	17.93	--	--	--	--	--	--
		08/25/22	Farallon	12.40	17.31	0.10	-102.5	1,362	16.80	6.74	8.50
		11/09/22	Farallon	12.01	17.70	0.33	-103.2	1,312	14.30	6.84	2.91
B-37-8	29.94	05/10/21	Farallon	15.44	14.50	1.41	-342.6	711	14.80	6.56	4.77
		02/16/22	Farallon	12.72	17.22	0.22	-49.4	1,097	12.80	6.43	415.64
		05/17/22	Farallon	12.65	17.29	0.90	-24.3	1,571	12.50	6.73	96.00
		08/24/22	Farallon	12.06	17.88	--	--	--	--	--	--
		08/25/22	Farallon	12.20	17.74	0.07	-55.8	762	16.60	6.41	125.03
		11/09/22	Farallon	12.26	17.68	0.21	-62.0	719	13.70	6.57	85.55
B-37-9	29.53	05/10/21	Farallon	15.26	14.27	2.23	-373.4	900	16.30	6.25	33.81
		02/16/22	Farallon	12.68	16.85	0.23	-49.2	1,401	13.50	6.22	8.33
		05/17/22	Farallon	11.68	17.85	0.80	-29.3	2,013	15.00	6.39	66.80
		08/24/22	Farallon	11.83	17.70	0.04	-55.1	920	18.00	6.17	193.70
		11/09/22	Farallon	12.09	17.44	0.16	-89.9	892	15.30	6.40	95.75
FMW-131	27.85	02/16/22	Farallon	10.97	16.88	--	--	--	--	--	--
		05/17/22	Farallon	9.65	18.20	0.89	-16.7	892	14.30	6.93	63.50
		08/24/22	Farallon	10.06	17.79	0.41	-12.6	421	16.50	6.71	4.21
		11/09/22	Farallon	10.45	17.40	0.16	-38.7	342	14.70	6.78	1.58
FWM-139	27.81	02/16/22	Farallon	9.85	17.96	2.31	-44.8	453	12.50	6.18	20.77
		05/17/22	Farallon	8.42	19.39	1.23	228.4	1,540	13.30	6.32	20.08
		08/24/22	Farallon	9.41	18.40	0.11	7.0	772	19.00	6.19	4.38
		11/09/22	Farallon	8.65	19.16	0.19	-2.6	831	15.40	6.34	3.65
MW-45	27.52	02/16/22	Farallon	9.57	17.95	2.21	-71.0	506	12.20	6.38	15.37
		05/17/22	Farallon	8.25	19.27	0.68	-6.6	1,505	13.50	6.51	36.20
		08/16/22	Atlas	9.27	18.25	--	--	--	--	--	--
		08/24/22	Farallon	9.53	17.99	0.32	20.9	700	17.20	6.23	22.61
		11/09/22	Farallon	8.32	19.20	4.70	43.7	913	14.50	6.14	36.78
		11/30/22	Atlas	9.71	17.81	--	--	--	--	--	--
MW-50	29.32	02/16/22	Farallon	10.23	19.09	2.19	-109.9	883	12.00	6.47	10.06
		05/17/22	Farallon	10.54	18.78	0.65	-54.6	1,929	14.30	6.67	10.30
		08/16/22	Atlas	10.76	18.56	--	--	--	--	--	--
		08/24/22	Farallon	10.93	18.39	--	--	--	--	--	--
		08/25/22	Farallon	11.00	18.32	0.12	-87.2	1,000	18.10	6.40	5.21
		11/09/22	Farallon	10.89	18.43	0.18	-95.3	799	17.10	6.44	1.45
		11/30/22	Atlas	11.51	17.81	--	--	--	--	--	--
MW-54	28.00	02/16/22	Farallon	10.18	17.82	2.14	-66.9	434	12.40	6.36	20.75
		05/17/22	Farallon	8.80	19.20	0.87	19.1	1,077	14.40	6.54	16.00
		08/24/22	Farallon	9.55	18.45	0.40	-5.7	477	16.10	6.03	9.38
		11/09/22	Farallon	9.18	18.82	5.14	93.7	624	15.30	6.23	16.94
		11/30/22	Atlas	9.74	18.26	--	--	--	--	--	--
MW-209	26.88	02/16/22	Farallon	9.62	17.26	--	--	--	--	--	--
		02/16/22	Atlas	9.72	17.16	0.20	16.3	917	13.20	6.74	Clear
		05/17/22	Farallon	7.87	19.01	--	--	--	--	--	--
		08/16/22	Atlas	8.79	18.09	0.43	-96.2	366	19.04	12.86	Clear
		08/25/22	Farallon	9.04	17.84	--	--	--	--	--	--
		11/09/22	Farallon	8.96	17.92	--	--	--	--	--	--
		11/30/22	Atlas	9.97	16.91	1.03	50.1	167	14.50	9.43	Clear

Table 3. Groundwater Monitoring Results – 2021 and 2022
Independent Action Report
Block 37 Site
600 - 630 Westlake Avenue North | Seattle, Washington

Monitoring Well ID	TOC Elevation (feet aMSL)	Date Monitored	Consulatnt	Well Measurements		Field Parameters					
				DTW (feet bTOC)	GWE (feet aMSL)	DO (mg/L)	ORP (mV)	Spec. Cond. (µS/cm)	Temp. (°C)	pH	Turbidity (NTU)
MW-210	26.56	02/16/22	Farallon	9.08	17.48	--	--	--	--	--	--
		02/16/22	Atlas	9.26	17.30	0.26	6.3	817	13.70	6.57	Clear
		05/17/22	Farallon	7.36	19.20	--	--	--	--	--	--
		08/16/22	Atlas	8.31	18.25	0.59	-70.1	373	18.62	12.04	Clear
		08/25/22	Farallon	8.60	17.96	--	--	--	--	--	--
		11/09/22	Farallon	8.38	18.18	--	--	--	--	--	--
		11/30/22	Atlas	8.90	17.66	1.32	27.7	369	14.57	9.53	Clear
MW-211	26.55	02/16/22	Farallon	8.99	17.56	--	--	--	--	--	--
		02/16/22	Atlas	9.28	17.27	0.29	16.1	895	14.10	6.82	Clear
		05/17/22	Farallon	7.42	19.13	--	--	--	--	--	--
		08/16/22	Atlas	8.27	18.28	0.70	-56.0	391	17.34	12.00	Clear
		08/25/22	Farallon	8.59	17.96	--	--	--	--	--	--
		11/09/22	Farallon	8.20	18.35	--	--	--	--	--	--
		11/30/22	Atlas	5.69	20.86	1.38	91.9	541	14.11	8.57	Clear
MW-212	29.09	02/16/22	Farallon	11.01	18.08	--	--	--	--	--	--
		02/16/22	Atlas	11.32	17.77	1.49	25.8	1,138	13.10	6.40	Clear
		05/17/22	Farallon	10.61	18.48	--	--	--	--	--	--
		08/16/22	Atlas	10.79	18.30	0.45	-102.6	453	18.44	13.15	Clear
		08/25/22	Farallon	10.96	18.13	--	--	--	--	--	--
		11/09/22	Farallon	11.15	17.94	--	--	--	--	--	--
		11/30/22	Atlas	11.37	17.72	1.00	26.2	383	15.20	10.46	Clear
MW-213	27.35	02/16/22	Farallon	9.36	17.99	--	--	--	--	--	--
		02/16/22	Atlas	9.64	17.71	0.17	-1.0	1,092	12.30	7.19	Clear
		05/17/22	Farallon	7.95	19.40	--	--	--	--	--	--
		08/16/22	Atlas	8.95	18.40	0.76	-121.2	539	18.58	13.74	Clear
		08/25/22	Farallon	9.14	18.21	--	--	--	--	--	--
		11/09/22	Farallon	9.07	18.28	--	--	--	--	--	--
		11/30/22	Atlas	8.51	18.84	1.69	114.5	638	12.61	7.82	Clear
MW-214	27.33	02/16/22	Atlas	9.60	17.73	0.27	11.4	1,236	12.60	6.97	Clear
		05/17/22	Farallon	7.95	19.38	--	--	--	--	--	--
		08/16/22	Atlas	9.01	18.32	0.42	-113.6	667	20.69	13.08	Clear
		08/25/22	Farallon	9.29	18.04	--	--	--	--	--	--
		11/09/22	Farallon	9.04	18.29	--	--	--	--	--	--
		11/30/22	Atlas	6.54	20.79	2.29	104.0	386	11.69	8.42	Clear
MW-215	27.21	02/16/22	Atlas	9.65	17.56	0.37	3.7	983	12.10	6.61	Clear
		08/16/22	Atlas	8.84	18.37	0.45	-95.6	490	19.91	12.96	Clear
		08/25/22	Farallon	9.16	18.05	--	--	--	--	--	--
		11/09/22	Farallon	9.05	18.16	--	--	--	--	--	--
		11/30/22	Atlas	9.26	17.95	0.98	87.9	267	12.83	8.88	Clear
MW-216	29.68	02/16/22	Atlas	11.69	17.99	0.21	129.4	926	14.60	5.91	Clear
		08/16/22	Atlas	11.49	18.19	0.61	-109.8	739	17.65	12.83	Clear
MW-217	30.08	02/16/22	Atlas	12.02	18.06	0.22	23.8	1,241	13.60	6.28	Clear
		08/16/22	Atlas	11.74	18.34	0.71	-146.5	533	17.28	15.23	Clear
MW-218	29.64	02/16/22	Atlas	11.59	18.05	0.12	13.8	1,176	15.40	6.34	Clear
		08/16/22	Atlas	11.34	18.30	0.59	-150.7	504	17.05	15.26	Clear
MWR-1	29.86	11/30/22	Atlas	11.12	18.74	1.09	17.0	404	14.16	11.11	Clear
MWR-3	29.67	02/16/22	Farallon	10.84	18.83	2.38	-79.7	832	11.80	7.00	29.91
		05/17/22	Farallon	10.08	19.59	1.28	93.6	1,720	13.80	6.88	20.17
		08/24/22	Farallon	11.07	18.60	0.34	-67.6	1,033	18.20	6.77	14.33
		11/09/22	Farallon	10.77	18.90	0.19	-101.1	930	14.90	6.89	4.58
		11/30/22	Atlas	10.75	18.92	1.10	50.3	448	13.42	10.74	Clear
MWR-4	28.80	11/30/22	Atlas	10.39	18.41	0.91	0.8	224	14.20	10.93	Clear
MWR-5	27.12	11/30/22	Atlas	8.06	19.06	1.07	-10.1	184	12.41	11.22	Clear
MWR-6	29.12	02/16/22	Farallon	11.01	18.11	0.14	-69.5	1,526	13.40	6.22	7.15
		05/17/22	Farallon	10.51	18.61	0.91	-58.0	2,078	14.70	6.47	16.00
		08/16/22	Atlas	10.81	18.31	--	--	--	--	--	--
		08/24/22	Farallon	10.92	18.20	0.06	-72.4	1,063	20.20	6.19	89.97
		11/09/22	Farallon	11.00	18.12	5.49	214.8	1,208	17.30	6.18	18.51
		11/30/22	Atlas	11.80	17.32	--	--	--	--	--	--
PH-1	29.12	02/16/22	Farallon	11.45	17.67	2.48	-115.9	925	12.60	6.79	5.89
		05/17/22	Farallon	10.23	18.89	1.27	-38.8	2,093	15.00	6.53	32.11
		08/24/22	Farallon	11.01	18.11	0.29	-75.8	1,054	14.60	6.49	101.68
		11/09/22	Farallon	11.10	18.02	6.65	212.0	1,100	14.80	6.44	26.49
PH-2 (AMW-1)	29.21	02/16/22	Farallon	10.84	18.37	2.40	-101.7	648	11.90	6.86	7.85
		05/17/22	Farallon	9.80	19.41	1.41	-28.0	2,137	14.40	6.71	24.80
		08/24/22	Farallon	10.79	18.42	0.31	-38.8	1,160	18.10	6.68	120.16
		11/09/22	Farallon	10.60	18.61	6.35	153.1	1,306	16.70	6.72	41.48
PH-3	29.60	02/16/22	Farallon	11.82	17.78	2.44	-56.3	816	11.50	6.53	35.32
		05/17/22	Farallon	10.80	18.80	1.45	-28.1	1,951	13.10	6.46	40.61
		08/24/22	Farallon	11.55	18.05	--	--	--	--	--	--
		08/25/22	Farallon	11.50	18.10	0.03	-75.2	1,037	18.10	6.42	15.18
		11/08/22	Farallon	11.08	18.52	4.21	16.5	1,063	13.90	6.65	100.26

Notes:
"--" = not analyzed, sampled, or reported
mg/L = milligrams per liter
mV = millivolts
µS/cm = microsiemens per centimeter
°C = degrees Celcius
aMSL = above mean sea level
bTOC = below top of casing
DO = dissolved oxygen
DTW = depth to water
GWE = groundwater elevation (relative to DTW measurement)
MW = monitoring well
MWR = monitoring well replacement
NTU = nephlometric turbidity units
ORP = oxidation reduction potential
Spec. Cond. = specific conductivity
Temp. = temperature
TOC = top of casing

FIGURES

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Source: USGS 7.5-minute topographic quadrangles; Seattle South, Washington, 2020; and Seattle North, Washington, 2020

N
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0 2,000 4,000

APPROXIMATE SCALE IN FEET

SITE LOCATION

BLOCK 37 SITE
600-630 WESTLAKE AVENUE NORTH
SEATTLE, WASHINGTON
REMEDIAL INVESTIGATION WORK PLAN

PROJECT NUMBER: Z076000082		DATE: 8/30/23	FIGURE 1-1
APPROVED BY: ES		DRAWN BY: ICD	

ATLAS
6347 Seaview Avenue NW
Seattle, Washington 98107
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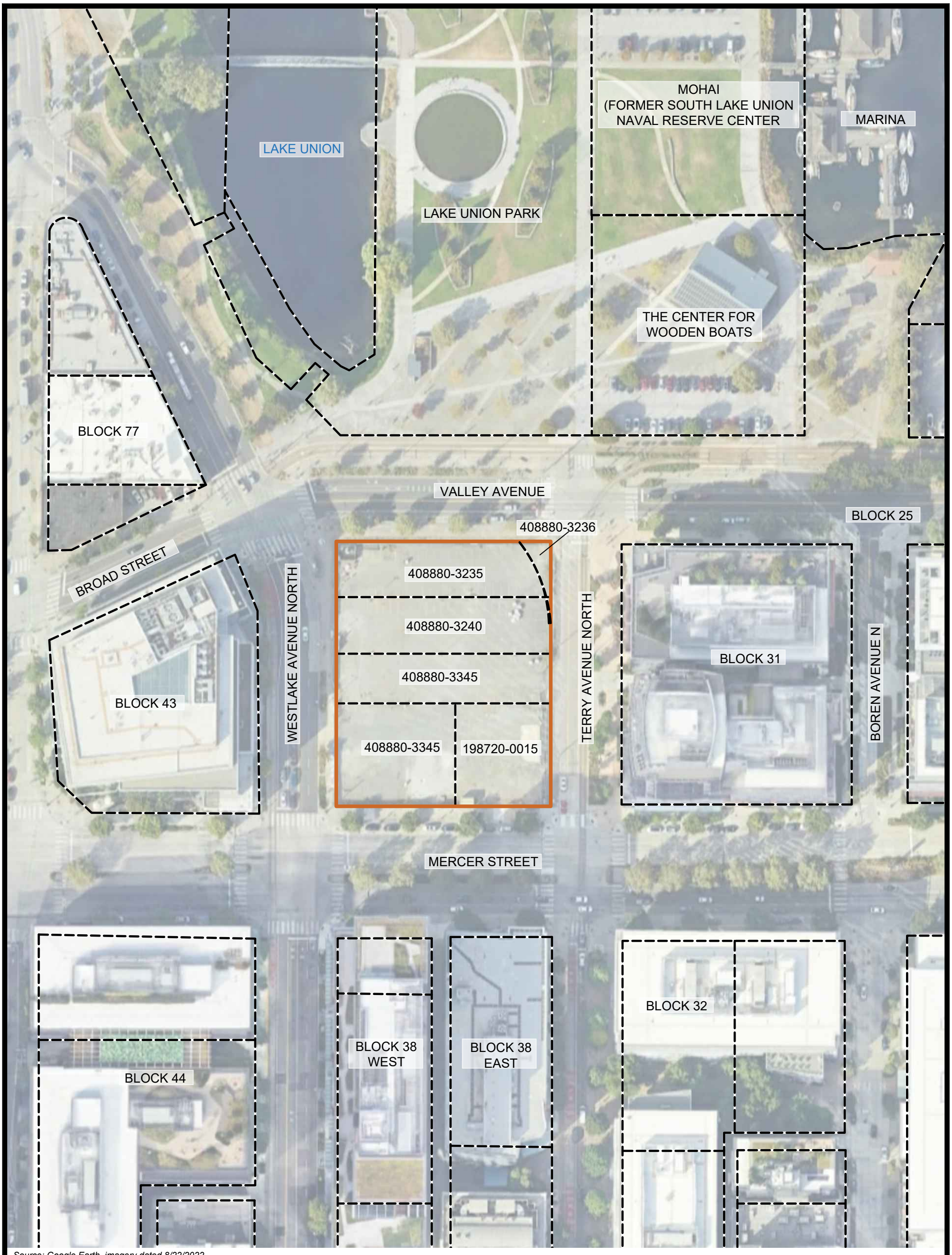

Source: Google Earth, imagery dated 8/22/2022

LEGEND

- Block 37 Property Boundary
- Tax Lot Parcel

NOTES

MOHAI = Museum of History & Industry

N
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0 100 200

APPROXIMATE SCALE IN FEET

BLOCK 37 PROPERTY VICINITY

BLOCK 37 SITE
600-630 WESTLAKE AVENUE NORTH
SEATTLE, WASHINGTON
REMEDIAL INVESTIGATION WORK PLAN

PROJECT NUMBER: Z076000082		DATE: 8/30/23	FIGURE 1-2
APPROVED BY: ES		DRAWN BY: ICD	

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LAKE UNION

VALLEY STREET

BROAD STREET

EXCAVATED:
-2' ELEVATION

EXCAVATED:
-12' ELEVATION

Block 43

EXCAVATED:
-4.5' ELEVATION

BLOCK 44 EXCAVATED:
UNKNOWN ELEVATION

Block 44

WESTLAKE AVENUE N.

MERCER STREET

Block 38 West

EXCAVATED:
-6.5' ELEVATION

Block 38 East

EXCAVATED:
15-16' ELEVATION

ALLEY - PARTIALLY
EXCAVATED

TERRY AVENUE N.

Block 31

EXCAVATED:
-4' ELEVATION

SMW-3
MW-209 17.26
MW-210 17.48
MW-211 17.56
MW-213 17.99
MW-214 17.73
MW-215 17.56
B-37-1(GEI-1) 17.80
B-37-3 17.99
B-37-4 18.50
PH-1 17.67
PH-2/AMW-1 18.37
B-37-5 18.53
B-37-6 18.46
PH-3 17.78
B-37-2(GEI-2)
MW-218 18.05*
MW-217 18.06*
MW-216 17.99*
MW-212 18.08
MW-45 17.95
MW-54 17.82
FMW-139 17.96
FMW-131
MW-50 19.09
B-37-8 18.46
MWR-1
MWR-2
MWR-3 18.83
MWR-4
MWR-5
MWR-6 18.11
B-37-7
B-37-9

17.50
18.00
18.50
19.00

Segment A
Segment B
Segment C
Segment D
Segment E
Segment F
Segment G
Segment H

LEGEND

- Monitoring Well
- Phase 1 Excavation
- Phase 2 Excavation-Area 1
- Phase 2 Excavation-Area 2
- Block 37 Property Boundary
- Sheet Pile Wall
- SLU Street Car Line
- Slurry (Gravity) Wall

NOTES:

1) All well locations are approximate.
2) Segment alphabet and number associated with grid sampling area. Refer to analytical data tables.
3) Locations of wells, excavation boundaries, and gravity wall based on maps obtained from Delta, Stantec, Farallon, GeoEngineers, and other consultants' reports.

Groundwater elevation measurements by Farallon Consulting, L.L.C.

17.99 Groundwater elevation (ft)

18.00 Groundwater elevation contour line (ft), dashed where inferred

* Groundwater elevation data collected by Atlas

Approximate groundwater flow direction

Contour Interval = 0.50 feet

N W E S

0 60 120

APPROXIMATE SCALE IN FEET

GROUNDWATER ELEVATION CONTOUR MAP FEBRUARY 16, 2022

BLOCK 37 SITE
600-630 WESTLAKE AVENUE NORTH
SEATTLE, WASHINGTON
REMEDIAL INVESTIGATION WORK PLAN

PROJECT NUMBER: Z076000082		DATE: 02/23/23	FIGURE 3-7
APPROVED BY: ES		DRAWN BY: ICD	

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LAKE UNION

SMW-3

MW-209
19.01

MW-210
19.20

MW-211
19.13

VALLEY STREET

MW-213
19.40

MW-214
19.38

MW-215

BROAD STREET

B-37-1 (GEI-1)
19.06

B-37-3
18.81*

B-37-4
19.25

PH-1
18.89

Segment B

Segment C

Segment D

Segment E

Segment F

Segment G

Segment H

Segment A

EXCAVATED:
-2' ELEVATION

EXCAVATED:
-12' ELEVATION

EXCAVATED:
-4.5' ELEVATION

Block 43

PH-2/MW-1
19.41

B-37-5
19.28

B-37-6
19.21

18.80
PH-3
B-37-2(GEI-2)

MWR-3
19.59

MWR-4

MW-45
19.27

19.20
MW-54

FMW-139
19.39

MWR-5

MWR-2
19.50

MWR-1

19.00

MW-50
18.78

MWR-6
18.61

B-37-7
18.19

B-37-8

B-37-9

18.50

MW-212
18.48

MW-218

MW-217

MW-216

Block 31

EXCAVATED:
-4' ELEVATION

TERRY AVENUE N.

WESTLAKE AVENUE N.

MERCER STREET

BLOCK 44 EXCAVATED:
UNKNOWN ELEVATION

Block 44

Block 38 West

EXCAVATED:
-6.5' ELEVATION

Block 38 East

EXCAVATED:
15-16' ELEVATION

ALLEY - PARTIALLY
EXCAVATED

LEGEND

- Monitoring Well
- Phase 1 Excavation
- Phase 2 Excavation-Area 1
- Phase 2 Excavation-Area 2
- Block 37 Property Boundary
- Sheet Pile Wall
- SLU Street Car Line
- Slurry (Gravity) Wall

17.40 Groundwater elevation (ft)

19.00 Groundwater elevation contour line (ft), dashed where inferred

* Groundwater elevation not used for contouring

Approximate groundwater flow direction

Contour Interval = 0.50 feet

NOTES:

1) All well locations are approximate.
2) Segment alphabet and number associated with grid sampling area. Refer to analytical data tables.
3) Locations of wells, excavation boundaries, and gravity wall based on maps obtained from Delta, Stantec, Farallon, GeoEngineers, and other consultants' reports.

Groundwater elevation measurements by Farallon Consulting, L.L.C.

N W E S

0 60 120

APPROXIMATE SCALE IN FEET

GROUNDWATER ELEVATION CONTOUR MAP MAY 17, 2022

BLOCK 37 SITE
600-630 WESTLAKE AVENUE NORTH
SEATTLE, WASHINGTON
REMEDIAL INVESTIGATION WORK PLAN

PROJECT NUMBER: Z076000082		DATE: 02/23/23	FIGURE 3-8
APPROVED BY: ES		DRAWN BY: ICD	

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LAKE UNION

SMW-3

MW-209
17.84

MW-210
17.96

MW-211
17.96

18.00

VALLEY STREET

MW-213
18.21

MW-214
18.04

MW-215
18.05

18.50

BROAD STREET

B-37-1(GEI-1)
18.30

B-37-3
18.15

B-37-4
18.62

PH-1
18.11

Segment B

EXCAVATED:
-2' ELEVATION

PH-2/AMW-1
18.42

Segment C

B-37-5
18.60

B-37-6
18.56

Segment D

18.05
PH-3
B-37-2(GEI-2)

Segment E

EXCAVATED:
-12' ELEVATION

Block 43

MWR-3
18.60

MWR-4

18.45
MW-54

MW-45
17.99*

FMW-139
18.40

FMW-131

MWR-5

Segment F

MWR-2

Segment G

EXCAVATED:
-4.5' ELEVATION

MWR-1

MW-50
18.39

MWR-6
18.20

B-37-7
17.93

B-37-8

B-37-9

Segment H

Segment A

18.00

MW-212
18.13

MW-218

MW-217

MW-216

Block 31

EXCAVATED:
-4' ELEVATION

TERRY AVENUE N.

WESTLAKE AVENUE N.

MERCER STREET

BLOCK 44 EXCAVATED:
UNKNOWN ELEVATION

Block 44

Block 38 West

EXCAVATED:
-6.5' ELEVATION

Block 38 East

EXCAVATED:
15-16' ELEVATION

ALLEY - PARTIALLY
EXCAVATED

LEGEND

- Monitoring Well
- Phase 1 Excavation
- Phase 2 Excavation-Area 1
- Phase 2 Excavation-Area 2
- Block 37 Property Boundary
- Sheet Pile Wall
- SLU Street Car Line
- Slurry (Gravity) Wall

18.21 Groundwater elevation (ft)

18.00 Groundwater elevation contour line (ft), dashed where inferred

* Groundwater elevation not used for contouring

Approximate groundwater flow direction

Contour Interval = 0.50 feet

NOTES:

1) All well locations are approximate.
2) Segment alphabet and number associated with grid sampling area. Refer to analytical data tables.
3) Locations of wells, excavation boundaries, and gravity wall based on maps obtained from Delta, Stantec, Farallon, GeoEngineers, and other consultants' reports.

Groundwater elevation measurements by Farallon Consulting, L.L.C.

N W E S

0 60 120

APPROXIMATE SCALE IN FEET

GROUNDWATER ELEVATION CONTOUR MAP AUGUST 24-25, 2022

BLOCK 37 SITE
600-630 WESTLAKE AVENUE NORTH
SEATTLE, WASHINGTON
REMEDIAL INVESTIGATION WORK PLAN

PROJECT NUMBER: Z076000082		DATE: 02/23/23	FIGURE 3-9
APPROVED BY: ES		DRAWN BY: ICD	

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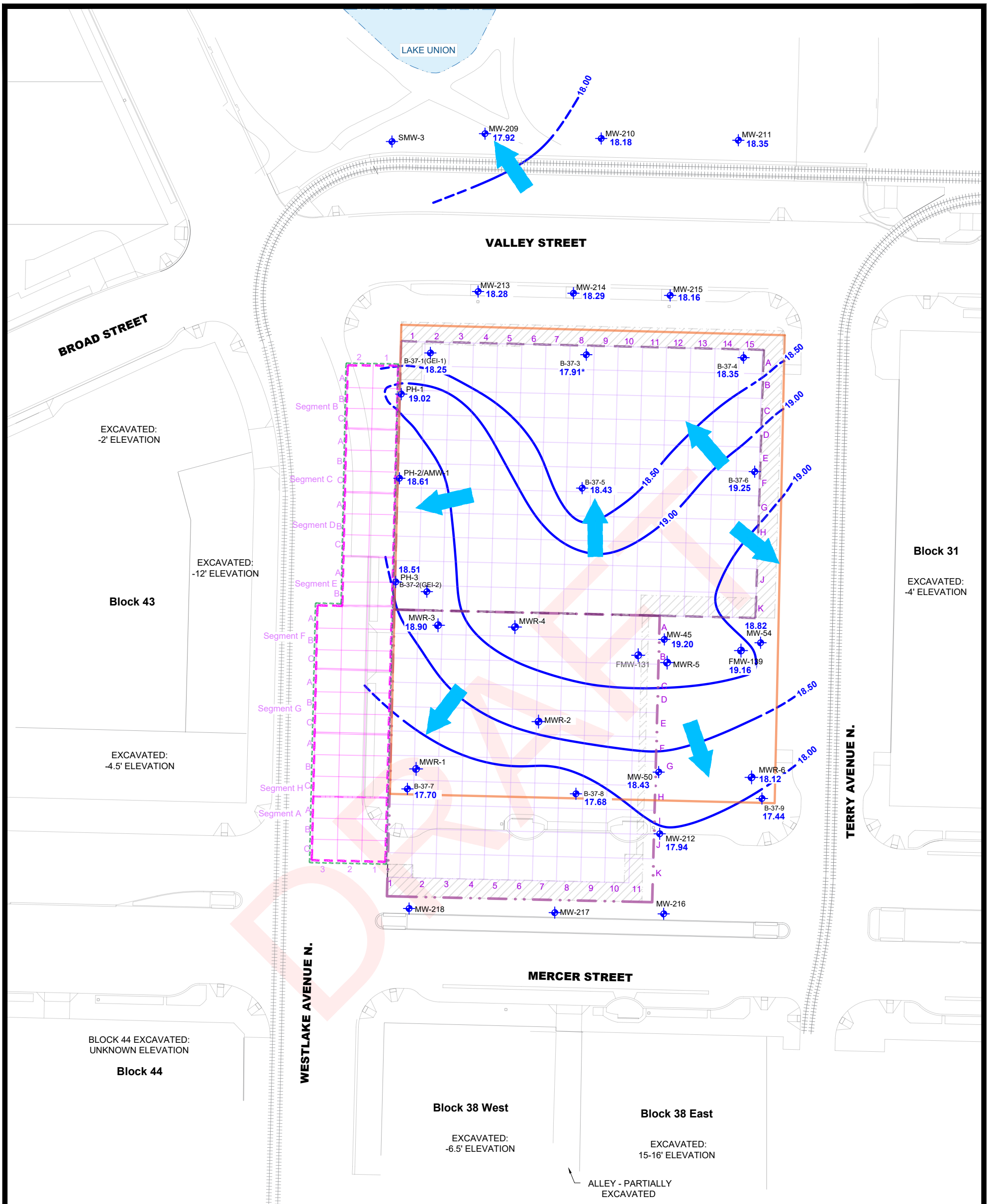

LEGEND

- Monitoring Well
- Phase 1 Excavation
- Phase 2 Excavation-Area 1
- Phase 2 Excavation-Area 2
- Block 37 Property Boundary
- Sheet Pile Wall
- SLU Street Car Line
- Slurry (Gravity) Wall

18.28 Groundwater elevation (ft)

18.00 Groundwater elevation contour line (ft), dashed where inferred

* Groundwater elevation not used for contouring

Approximate groundwater flow direction

Contour Interval = 0.50 feet

NOTES:

1) All well locations are approximate.
2) Segment alphabet and number associated with grid sampling area. Refer to analytical data tables.
3) Locations of wells, excavation boundaries, and gravity wall based on maps obtained from Delta, Stantec, Farallon, GeoEngineers, and other consultants' reports.

Groundwater elevation measurements by Farallon Consulting, L.L.C.

N W E S

0 60 120

APPROXIMATE SCALE IN FEET

GROUNDWATER ELEVATION CONTOUR MAP NOVEMBER 8-9, 2022

BLOCK 37 SITE
600-630 WESTLAKE AVENUE NORTH
SEATTLE, WASHINGTON
REMEDIAL INVESTIGATION WORK PLAN

PROJECT NUMBER: Z076000082		DATE: 02/23/23	FIGURE 3-10
APPROVED BY: ES		DRAWN BY: ICD	

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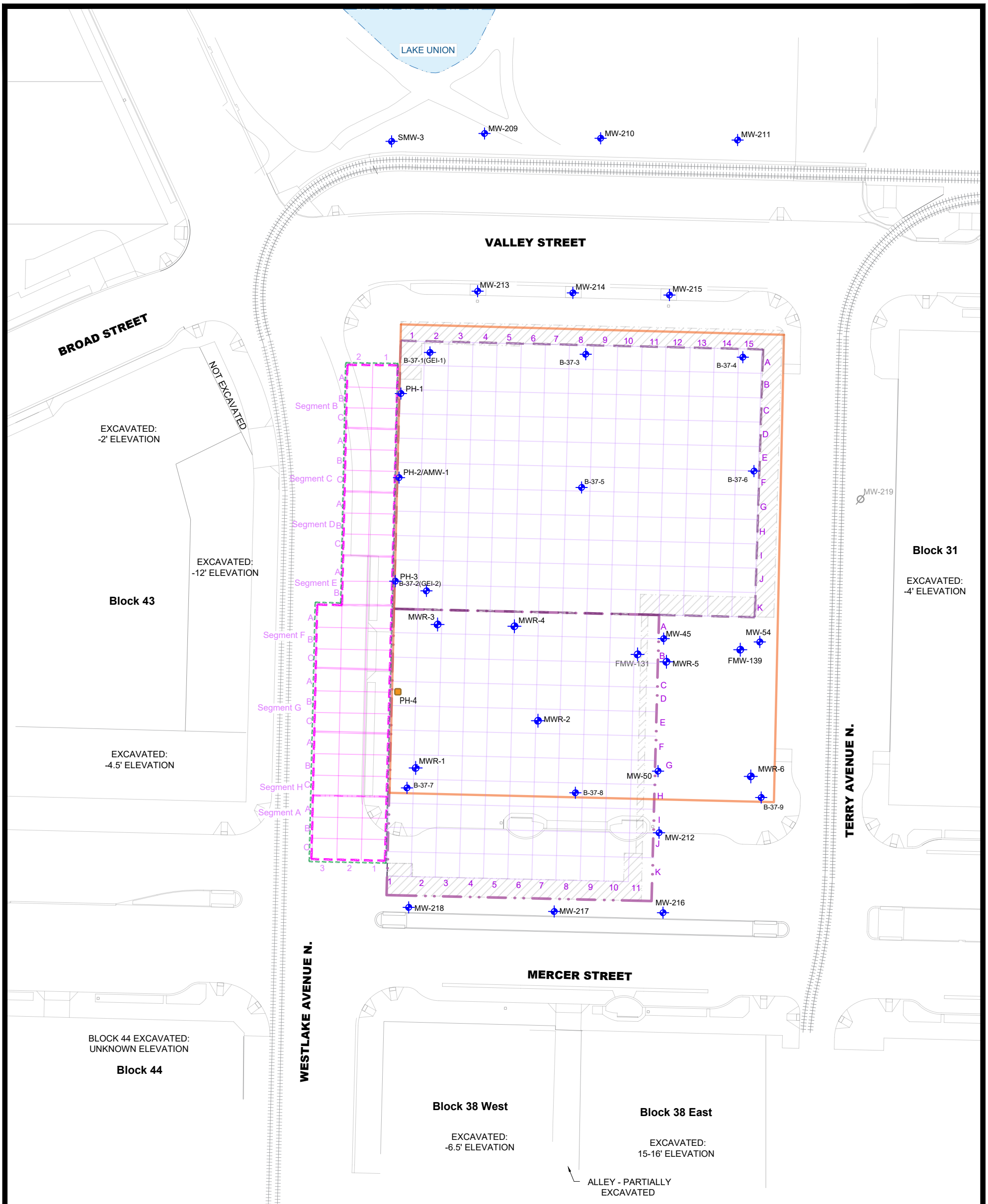

LEGEND

- Monitoring Well
- MW-219 Damaged/Missing Monitoring Well
- Phase 1 Excavation
- Phase 2 Excavation-Area 1
- Phase 2 Excavation-Area 2
- Block 37 Property Boundary
- Sheet Pile Wall
- SLU Street Car Line
- Slurry (Gravity) Wall

NOTES:

1) All well locations are approximate.
2) Segment alphabet and number associated with grid sampling area. Refer to analytical data tables.
3) Locations of wells, excavation boundaries, and gravity wall based on maps obtained from Delta, Stantec, Farallon, GeoEngineers, and other consultants' reports.

N W E S

0 60 120

APPROXIMATE SCALE IN FEET

EXISTING GROUNDWATER MONITORING NETWORK

BLOCK 37 SITE
600-630 WESTLAKE AVENUE NORTH
SEATTLE, WASHINGTON
REMEDIAL INVESTIGATION WORK PLAN

PROJECT NUMBER: Z076000082		DATE: 08/02/23	FIGURE 4-2
APPROVED BY: ES		DRAWN BY: ICD	

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Z076000073_23Q3.DWG

LAKE UNION

MW-209	02/17/22	08/17/22	11/30/22
GRO	<13.4	24.4 J	<22.6/<239

MW-210	02/17/22	08/17/22	11/30/22
GRO	<13.4	<22.6	<22.6/<235

MW-211	02/16/22	08/17/22	11/30/22
GRO	<13.4	23.5 J	<22.6/<241

SMW-3

MW-209

MW-210

MW-211

MW-213	02/17/22	08/17/22	12/01/22
GRO	168	46.9 J	<22.6/<233

MW-214	02/17/22	08/17/22	12/01/22
GRO	<13.4	<22.6	<22.6/<239

MW-215	02/17/22	08/17/22	12/01/22
GRO	<13.4	31.6 J	<22.6/<236

B-37-4	02/16/22	05/17/22	08/25/22	11/07/22
GRO	<100	<100	<100	<100

VALLEY STREET

MW-213

MW-214

MW-215

B-37-1	02/16/22	05/17/22	08/25/22	11/09/22
GRO	<100	<100	<100	<100

BROAD STREET

B-37-1(GEI-1)

B-37-3

B-37-4

B-37-3	02/16/22	05/17/22	08/25/22	11/07/22
GRO	<100	<100	<100	<100

PH-1	02/17/22	05/17/22	08/24/22	11/09/22
GRO	<100	<100	<100	<100

PH-1

Segment B

Segment C

Segment D

Segment E

Segment F

Segment G

Segment H

Segment A

EXCAVATED:
-2' ELEVATION

PH-2	02/17/22	05/17/22	08/24/22	11/09/22
GRO	120	<100	<100	<100

PH-2/AMW-1

B-37-5

B-37-6

B-37-6	02/16/22	05/18/22	08/25/22	11/07/22
GRO	<100	<122	<100	<100

B-37-5	02/17/22	05/18/22	08/25/22	11/07/22
GRO	<100	<100	<100	<100

PH-3	02/17/22	05/18/22	08/24/22	11/08/22
GRO	<100	<100	<100	<100

-12' ELEVATION

PH-3
B-37-2(GEI-2)

Block 43

B-37-2	02/18/22	05/18/22	08/24/22	11/09/22
GRO	<100	<100	<100	<100

FMW-131	05/18/22	08/24/22	11/08/22
GRO	<100	<100	<100

MWR-3

MWR-4

MWR-4	12/01/22
GRO	<22.6/<237

MW-54	02/16/22	05/18/22	08/24/22	11/08/22
GRO	<100	<100	<100	<100

Block 31

EXCAVATED:
-4' ELEVATION

MW-45

MW-54

FMW-131

MWR-5

FMW-139

FMW-139	02/16/22	05/18/22	08/24/22	11/08/22
GRO	<100	<100	<100	<100

MWR-5	12/01/22
GRO	1,580/<236

MW-45	02/16/22	05/17/22	08/24/22	11/08/22
GRO	410	160	<100	<100

MWR-3	02/17/22	05/18/22	08/24/22	11/08/22	12/01/22
GRO	<100	<100	<100	<100	<22.6/<239

MWR-2

MW-50	02/18/22	05/17/22	08/24/22	11/08/22
GRO	<100	<100	<100	<100

EXCAVATED:
-4.5' ELEVATION

MWR-1

MW-50

MWR-6

B-37-7

B-37-8

B-37-9

MWR-1	12/01/22
GRO	<22.6/<243

B-37-7	02/17/22	05/18/22	08/25/22	11/09/22
GRO	<100	<100	<100	<100

B-37-8	02/17/22	05/18/22	08/25/22	11/09/22
GRO	<100	<100	<100	<100

MWR-6	02/17/22	05/17/22	08/24/22	11/08/22
GRO	<100	<100	<100	<100

MW-212

B-37-9	02/17/22	05/17/22	08/24/22	11/08/22
GRO	<100	<100	<100	<100

MW-218

MW-217

MW-216

MW-218	02/16/22	08/16/22
GRO	126	91 J

MW-217	02/16/22	08/16/22
GRO	110	127

MW-216	02/16/22	08/16/22
GRO	<13.4	33.2 J

MW-212	02/17/22	08/17/22	11/30/22
GRO	<13.4	45.4 J	43.4 J/<239

WESTLAKE AVENUE N.

MERCER STREET

BLOCK 44 EXCAVATED:
UNKNOWN ELEVATION

Block 44

Block 38 West

EXCAVATED:
-6.5' ELEVATION

Block 38 East

EXCAVATED:
15-16' ELEVATION

ALLEY - PARTIALLY EXCAVATED

LEGEND

- Monitoring Well
- Phase 1 Excavation
- Phase 2 Excavation-Area 1
- Phase 2 Excavation-Area 2
- Block 37 Property Boundary
- Sheet Pile Wall
- SLU Street Car Line
- Slurry (Gravity) Wall

NOTES:

TPH-GRO = Total Petroleum Hydrocarbons-Gasoline Range Organics
1) All monitoring well locations are approximate and concentrations are expressed in micrograms per liter (µg/L)
2) Refer to Table 4-2a for details
3) TPH-GRO screening level is 800 µg/L
< = less than the reported method detection limit
Bold = The detection exceeds the screening level

Approximate extent of detected concentrations exceeding the screening level

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APPROXIMATE SCALE IN FEET

2022 GROUNDWATER TPH-GRO CONCENTRATIONS

BLOCK 37 SITE
600-630 WESTLAKE AVENUE NORTH
SEATTLE, WASHINGTON
REMEDIAL INVESTIGATION WORK PLAN

PROJECT NUMBER:	Z076000082	DATE:	08/02/23	FIGURE
APPROVED BY:	ES	DRAWN BY:	ICD	4-2a

ATLAS
6347 Seaview Avenue NW
Seattle, Washington 98107
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LAKE UNION

MW-209	02/17/22	08/17/22	11/30/22
TEH	215.5	209.1	<359

MW-210	02/17/22	08/17/22	11/30/22
TEH	332	236	<353

MW-211	02/16/22	08/17/22	11/30/22
TEH	228.5	<94.1	<362

SMW-3

MW-209

MW-210

MW-211

MW-213	02/17/22	08/17/22	12/01/22
TEH	531	220	<350

MW-214	02/17/22	08/17/22	12/01/22
TEH	116	<94.9	<358

MW-215	02/17/22	08/17/22	12/01/22
TEH	119	<94.3	<354

B-37-4	02/16/22	05/17/22	08/25/22	11/07/22
TEH	310	300	360	320

VALLEY STREET

B-37-1	02/16/22	05/17/22	08/25/22	11/09/22
TEH	700	<270	400	500

MW-213

MW-214

MW-215

BROAD STREET

PH-1	02/17/22	05/17/22	08/24/22	11/09/22
TEH	325	<260	<270	260

B-37-1(GEI-1)

B-37-3

B-37-4

B-37-3	02/16/22	05/17/22	08/25/22	11/07/22
TEH	200	<260	<260	<250

PH-1

Segment B

Segment C

Segment D

Segment E

Segment F

Segment G

Segment H

Segment A

EXCAVATED:
-2' ELEVATION

PH-2	02/17/22	05/17/22	08/24/22	11/09/22
TEH	165	<260	<260	340

PH-2/AMW-1

B-37-5

B-37-6

B-37-5	02/17/22	05/18/22	08/25/22	11/07/22
TEH	165	<270	<250	310

B-37-6	02/16/22	05/18/22	08/25/22	11/07/22
TEH	200	<260	330	260

Block 31

EXCAVATED:
-4' ELEVATION

PH-3	02/17/22	05/18/22	08/24/22	11/08/22
TEH	165	<260	<250	<250

-12' ELEVATION

PH-3
B-37-2(GEI-2)

Block 43

MW-54	02/16/22	05/18/22	08/24/22	11/08/22
TEH	380	<280	<250	<250

FMW-131	05/18/22	08/24/22	11/08/22
TEH	365	<260	<250

B-37-2	02/18/22	05/18/22	08/24/22	11/09/22
TEH	200	<270	<260	<250

MWR-3

MWR-4

MWR-4	12/01/22
TEH	<355

MW-45

MW-54

FMW-131

MWR-5

FMW-139

FMW-139	02/16/22	05/18/22	08/24/22	11/08/22
TEH	360	<270	<260	340

MWR-5	12/01/22
TEH	1,627

MW-45	02/16/22	05/17/22	08/24/22	11/08/22
TEH	700	390	320	300

MWR-3	02/17/22	05/18/22	08/24/22	11/08/22	12/01/22
TEH	<165	<280	<260	<250	<359

MWR-2

MW-50	02/18/22	05/17/22	08/24/22	11/08/22
TEH	1,030	340	560	650

EXCAVATED:
-4.5' ELEVATION

MWR-1

MWR-6

MW-50

MWR-1	12/01/22
TEH	<365

B-37-7

B-37-8

B-37-9

MWR-6	02/17/22	05/17/22	08/24/22	11/08/22
TEH	415	<270	270	350

B-37-7	02/17/22	05/18/22	08/25/22	11/09/22
TEH	165	<370	320	<250

B-37-8	02/17/22	05/18/22	08/25/22	11/09/22
TEH	165	<250	<250	<250

MW-212

B-37-9	02/17/22	05/17/22	08/24/22	11/08/22
TEH	285	<280	360	430

MW-218

MW-217

MW-216

MW-212	02/17/22	08/17/22	11/30/22
TEH	431.5	221	<359

MW-218	02/16/22	08/16/22
TEH	1,210	861.2

MW-217	02/16/22	08/16/22
TEH	1,458	1,108

MW-216	02/16/22	08/16/22
TEH	387.5	576.6

WESTLAKE AVENUE N.

MERCER STREET

BLOCK 44 EXCAVATED:
UNKNOWN ELEVATION

Block 44

Block 38 West

EXCAVATED:
-6.5' ELEVATION

Block 38 East

EXCAVATED:
15-16' ELEVATION

ALLEY - PARTIALLY EXCAVATED

LEGEND

- Monitoring Well
- Phase 1 Excavation
- Phase 2 Excavation-Area 1
- Phase 2 Excavation-Area 2
- Block 37 Property Boundary
- Sheet Pile Wall
- SLU Street Car Line
- Slurry (Gravity) Wall
- Approximate extent of detected concentrations exceeding the screening level

NOTES:

TEH = Total Extractable Hydrocarbons
1) All monitoring well locations are approximate and concentrations are expressed in micrograms per liter (µg/L)
2) Refer to Table 4-2a for details
3) TEH screening level is 500 µg/L
< = less than the reported method detection limit
Bold = The detection exceeds the screening level
-- = Not analyzed, sampled, or reported

N
W E
S

0 60 120

APPROXIMATE SCALE IN FEET

2022 GROUNDWATER TOTAL EXTRACTABLE HYDROCARBONS CONCENTRATIONS

BLOCK 37 SITE
600-630 WESTLAKE AVENUE NORTH
SEATTLE, WASHINGTON
REMEDIAL INVESTIGATION WORK PLAN

PROJECT NUMBER: Z076000082	DATE: 08/02/23	FIGURE
APPROVED BY: ES	DRAWN BY: ICD	4-2b

ATLAS
6347 Seaview Avenue NW
Seattle, Washington 98107
Ph: (206) 781-1449 Fax: (206) 781-1543

Z076000073_23Q1_2.DWG

LAKE UNION

MW-209	02/17/22	08/17/22	11/30/22
B	<0.1	<0.1	<0.1

MW-210	02/17/22	08/17/22	11/30/22
B	<0.1	<0.1	<0.1

MW-211	02/16/22	08/17/22	11/30/22
B	<0.1	<0.1	<0.1

SMW-3

MW-209

MW-210

MW-211

MW-213	02/17/22	08/17/22	12/01/22
B	1.6	<0.1	<0.1

MW-214	02/17/22	08/17/22	12/01/22
B	<0.1	<0.1	<0.1

MW-215	02/17/22	08/17/22	12/01/22
B	<0.1	<0.1	<0.1

B-37-4	02/16/22	05/17/22	08/25/22	11/07/22
B	<0.2	<0.2	<0.2	<0.2

VALLEY STREET

B-37-1	02/16/22	05/17/22	08/25/22	11/09/22
B	<0.2	<0.2	<0.2	<0.2

MW-213

MW-214

MW-215

BROAD STREET

PH-1	02/17/22	05/17/22	08/24/22	11/09/22
B	<0.2	<0.2	<0.2	<0.2

B-37-1(GEI-1)

B-37-3

B-37-4

PH-1

B-37-3	02/16/22	05/17/22	08/25/22	11/07/22
B	<0.2	<0.2	<0.2	<0.2

Segment B

B-37-6	02/16/22	05/18/22	08/25/22	11/07/22
B	<0.2	<0.2	<0.2	<0.2

EXCAVATED:
-2' ELEVATION

PH-2	02/17/22	05/17/22	08/24/22	11/09/22
B	2.4	1.3	0.54	0.43

PH-2/AMW-1

Segment C

B-37-5

B-37-6

B-37-5	02/17/22	05/18/22	08/25/22	11/07/22
B	<0.2	<0.2	<0.2	<0.2

Segment D

Block 31

EXCAVATED:
-4' ELEVATION

PH-3	02/17/22	05/18/22	08/24/22	11/08/22
B	<0.2	<0.2	<0.2	<0.2

-12' ELEVATION

PH-3
B-37-2(GEI-2)

Segment E

MW-54	02/16/22	05/18/22	08/24/22	11/08/22
B	<0.2	<0.2	<0.2	<0.2

Block 43

FMW-131	05/18/22	08/24/22	11/08/22
B	<0.2	<0.2	<0.2

MWR-3

MWR-4

B-37-2	02/18/22	05/18/22	08/24/22	11/09/22
B	<0.2	**2.8**	<0.2	2.0

Segment F

MWR-4	12/01/22
B	<0.1

MW-45

MW-54

FMW-131

MWR-5

FMW-139

FMW-139	02/16/22	05/18/22	08/24/22	11/08/22
B	<0.2	<0.2	<0.2	<0.2

MWR-5	12/01/22
B	**3.2**

MW-45	02/16/22	05/17/22	08/24/22	11/08/22
B	<0.2	<0.2	<0.2	<0.2

MWR-3	02/17/22	05/18/22	08/24/22	11/08/22	12/01/22
B	<0.2	<0.2	<0.2	<0.2	<0.1

Segment G

MWR-2

MW-50	02/18/22	05/17/22	08/24/22	11/08/22
B	<0.2	<0.2	<0.2	<0.2

EXCAVATED:
-4.5' ELEVATION

MWR-1

MW-50

MWR-6

MWR-1	12/01/22
B	0.2

B-37-7

B-37-8

B-37-9

Segment H

MWR-6	02/17/22	05/17/22	08/24/22	11/08/22
B	<0.2	<0.2	<0.2	<0.2

B-37-8	02/17/22	05/18/22	08/25/22	11/09/22
B	<0.2	<0.2	<0.2	<0.2

B-37-7	02/17/22	05/18/22	08/25/22	11/09/22
B	<0.2	<0.2	<0.2	<0.2

Segment A

MW-212

B-37-9	02/17/22	05/17/22	08/24/22	11/08/22
B	<0.2	<0.2	<0.2	<0.2

MW-218

MW-217

MW-216

MW-212	02/17/22	08/17/22	11/30/22
B	<0.1	<0.1	<0.1

MW-218	02/16/22	08/16/22
B	<0.1	<0.1

MW-217	02/16/22	08/16/22
B	<0.1	<0.1

MW-216	02/16/22	08/16/22
B	0.2 J	<0.1

WESTLAKE AVENUE N.

MERCER STREET

BLOCK 44 EXCAVATED:
UNKNOWN ELEVATION

Block 44

Block 38 West

EXCAVATED:
-6.5' ELEVATION

Block 38 East

EXCAVATED:
15-16' ELEVATION

ALLEY - PARTIALLY EXCAVATED

LEGEND

- Monitoring Well
- Phase 1 Excavation
- Phase 2 Excavation-Area 1
- Phase 2 Excavation-Area 2
- Block 37 Property Boundary
- Sheet Pile Wall
- SLU Street Car Line
- Slurry (Gravity) Wall
- Approximate extent of detected concentrations exceeding the screening level

NOTES:

1) All monitoring well locations are approximate and concentrations are expressed in micrograms per liter (µg/L)
2) Refer to Table 4-2a for details
3) Benzene screening level is 2.4 µg/L
< = less than the reported method detection limit
J = estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
Bold = The detection exceeds the screening level

N
W E
S

0 60 120

APPROXIMATE SCALE IN FEET

2022 GROUNDWATER BENZENE CONCENTRATIONS

BLOCK 37 SITE
600-630 WESTLAKE AVENUE NORTH
SEATTLE, WASHINGTON
REMEDIAL INVESTIGATION WORK PLAN

PROJECT NUMBER: Z076000082	DATE: 06/27/23	FIGURE
APPROVED BY: ES	DRAWN BY: ICD	**4-2c**

ATLAS
6347 Seaview Avenue NW
Seattle, Washington 98107
Ph: (206) 781-1449 Fax: (206) 781-1543

Z076000073_23Q1_2.DWG

LAKE UNION

MW-209	02/17/22	08/17/22	11/30/22
N	--	<0.02	<0.18

MW-210	02/17/22	08/17/22	11/30/22
N	--	<0.02	<0.18

MW-211	02/16/22	08/17/22	11/30/22
N	--	<0.02	<0.18

SMW-3

MW-209

MW-210

MW-211

MW-213	02/17/22	08/17/22	12/01/22
N	--	0.35	<0.18

MW-214	02/17/22	08/17/22	12/01/22
N	--	<0.02	<0.18

MW-215	02/17/22	08/17/22	12/01/22
N	--	<0.02	0.24 J

B-37-4	02/16/22	05/17/22	08/25/22	11/07/22
N	<0.1	<0.1	<0.099	<0.097

VALLEY STREET

MW-213

MW-214

MW-215

B-37-1	02/16/22	05/17/22	08/25/22	11/09/22
N	0.037 J	0.12	<0.1	<0.096

BROAD STREET

PH-1	02/17/22	05/17/22	08/24/22	11/09/22
N	0.024 J	<0.1	<0.097	<0.095

B-37-1(GEI-1)

B-37-3

B-37-4

PH-1

B-37-3	02/16/22	05/17/22	08/25/22	11/07/22
N	0.016 J	<0.1	<0.097	<0.1

Segment B

B-37-6	02/16/22	05/18/22	08/25/22	11/07/22
N	0.024 J	<0.1	<0.1	<0.096

EXCAVATED:
-2' ELEVATION

PH-2	02/17/22	05/17/22	08/24/22	11/09/22
N	0.14	0.31	<0.099	<0.096

PH-2/AMW-1

Segment C

B-37-5

B-37-6

B-37-5	02/17/22	05/18/22	08/25/22	11/07/22
N	<0.1	<0.098	<0.096	<0.096

Segment D

Block 31

EXCAVATED:
-4' ELEVATION

MW-54	02/16/22	05/18/22	08/24/22	11/08/22
N	<0.1	<0.1	<0.1	<0.1

PH-3	02/17/22	05/18/22	08/24/22	11/08/22
N	<0.096	<0.1	<0.096	<0.095

-12' ELEVATION

PH-3
B-37-2(GEI-2)

Segment E

Block 43

FMW-131	05/18/22	08/24/22	11/08/22
N	<0.1	<0.097	<0.095

MWR-3

MWR-4

MW-45

MW-54

B-37-2	02/18/22	05/18/22	08/24/22	11/09/22
N	<0.096	<0.099	<0.097	<0.095

Segment F

MWR-4	12/01/22
N	<0.18

FMW-131

MWR-5

FMW-139

FMW-139	02/16/22	05/18/22	08/24/22	11/08/22
N	<0.11	<0.1	<0.096	<0.095

MWR-5	12/01/22
N	45

MW-45	02/16/22	05/17/22	08/24/22	11/08/22
N	2.2	0.24	<0.095	0.18

MWR-3	02/17/22	05/18/22	08/24/22	11/08/22	12/01/22
N	<0.098	<0.1	<0.096	<0.095	<0.096

Segment G

MWR-2

MW-50	02/18/22	05/17/22	08/24/22	11/08/22
N	30	2.7	4.0	12

EXCAVATED:
-4.5' ELEVATION

MWR-1

MW-50

MWR-6

MWR-1	12/01/22
N	<0.18

B-37-7

B-37-8

B-37-9

Segment H

MWR-6	02/17/22	05/17/22	08/24/22	11/08/22
N	<0.1	<0.11	<0.096	<0.096

B-37-7	02/17/22	05/18/22	08/25/22	11/09/22
N	<0.1	<0.11	<0.095	<0.095

Segment A

B-37-8	02/17/22	05/18/22	08/25/22	11/09/22
N	<0.099	<0.1	<0.096	<0.095

MW-212

B-37-9	02/17/22	05/17/22	08/24/22	11/08/22
N	0.034 J	0.016 J	<0.097	<0.095

MW-216

MW-218

MW-217

MW-212	02/17/22	08/17/22	11/30/22
N	--	<0.02	<0.18

MW-218	02/16/22	08/16/22
N	<0.02	<0.18

MW-217	02/16/22	08/16/22
N	0.24	<0.18

MW-216	02/16/22	08/16/22
N	<0.02	<0.18

WESTLAKE AVENUE N.

MERCER STREET

BLOCK 44 EXCAVATED:
UNKNOWN ELEVATION

Block 44

Block 38 West

EXCAVATED:
-6.5' ELEVATION

Block 38 East

EXCAVATED:
15-16' ELEVATION

ALLEY - PARTIALLY EXCAVATED

LEGEND

- Monitoring Well
- Phase 1 Excavation
- Phase 2 Excavation-Area 1
- Phase 2 Excavation-Area 2
- Block 37 Property Boundary
- Sheet Pile Wall
- SLU Street Car Line
- Slurry (Gravity) Wall
- Approximate extent of detected concentrations exceeding the screening level

NOTES:

1) All monitoring well locations are approximate and concentrations are expressed in micrograms per liter (µg/L)
2) Refer to Table 4-2a for details
3) Naphthalene screening level is 8.9 µg/L
< = less than the reported method detection limit
J = estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
Bold = The detection exceeds the screening level

N
W E
S

0 60 120

APPROXIMATE SCALE IN FEET

2022 GROUNDWATER NAPHTHALENE CONCENTRATIONS

BLOCK 37 SITE
600-630 WESTLAKE AVENUE NORTH
SEATTLE, WASHINGTON
REMEDIAL INVESTIGATION WORK PLAN

PROJECT NUMBER: Z076000082	DATE: 02/14/23	FIGURE
APPROVED BY: ES	DRAWN BY: ICD	4-2d

ATLAS
6347 Seaview Avenue NW
Seattle, Washington 98107
Ph: (206) 781-1449 Fax: (206) 781-1543

Z076000073_23Q1_2.DWG

LAKE UNION

MW-209	02/17/22	08/17/22
cPAH	0.001	0.0145

MW-210	02/17/22	08/17/22
cPAH	<0.009	<0.01

MW-211	02/16/22	08/17/22
cPAH	<0.009	<0.01

SMW-3

MW-209

MW-210

MW-211

MW-213	02/17/22	08/17/22
cPAH	<0.009	<0.01

MW-214	02/17/22	08/17/22
cPAH	<0.009	<0.01

MW-215	02/17/22	08/17/22
cPAH	<0.009	<0.01

B-37-4	02/16/22	05/17/22	08/25/22	11/07/22
cPAH	<0.0076	<0.0076	<0.0075	<0.0073

VALLEY STREET

MW-213

MW-214

MW-215

B-37-1	02/16/22	05/17/22	08/25/22	11/09/22
cPAH	<0.0076	<0.0083	<0.0076	<0.0072

BROAD STREET

PH-1	02/17/22	05/17/22	08/25/22	11/09/22
cPAH	<0.0076	<0.0076	<0.0073	<0.0072

B-37-1(GEI-1)

B-37-3

B-37-4

B-37-3	02/16/22	05/17/22	08/25/22	11/07/22
cPAH	<0.0076	0.0085	<0.0073	<0.0076

PH-1

Segment B

EXCAVATED:
-2' ELEVATION

PH-2	02/17/22	05/17/22	08/25/22	11/09/22
cPAH	<0.0072	<0.0076	<0.0075	<0.0072

PH-2/AMW-1

Segment C

B-37-5

B-37-6

B-37-6	02/16/22	05/18/22	08/25/22	11/07/22
cPAH	<0.0076	<0.0076	<0.0076	<0.0072

B-37-5	02/17/22	05/18/22	08/25/22	07/11/22
cPAH	<0.0076	<0.0074	<0.0072	<0.0072

Segment D

Block 31

EXCAVATED:
-4' ELEVATION

PH-3	02/17/22	05/18/22	08/25/22	11/08/22
cPAH	<0.0072	<0.0076	<0.0072	<0.0072

-12' ELEVATION

PH-3

B-37-2(GEI-2)

Segment E

MW-54	02/16/22	05/18/22	08/24/22	11/08/22
cPAH	<0.0076	<0.0083	<0.0072	<0.0072

Block 43

FMW-131	05/18/22	08/24/22	11/08/22
cPAH	<0.0076	<0.0073	<0.0072

B-37-2	02/18/22	05/18/22	08/24/22	11/07/22
cPAH	<0.0072	<0.0075	–	–

MWR-3

MWR-4

MW-45

MW-54

FMW-131

MWR-5

FMW-139

FMW-139	02/16/22	05/18/22	08/24/22	11/08/22
cPAH	<0.0083	<0.0076	<0.0072	<0.0072

Segment F

MW-45	02/16/22	05/17/22	08/24/22	11/08/22
cPAH	<0.0075	<0.0083	<0.0072	<0.0072

MWR-3	02/17/22	05/18/22	08/24/22	11/08/22
cPAH	<0.0074	<0.0076	<0.0072	<0.0072

Segment G

MWR-2

MW-50	02/18/22	05/17/22	08/25/22	11/08/22
cPAH	0.03	0.017	0.011	0.0083

EXCAVATED:
-4.5' ELEVATION

MWR-1

MW-50

MWR-6

B-37-7

B-37-8

B-37-9

Segment H

MWR-6	02/17/22	05/17/22	08/24/22	11/08/22
cPAH	<0.0076	<0.0083	<0.0072	<0.0072

B-37-7	02/17/22	05/18/22	08/25/22	11/09/22
cPAH	<0.0076	<0.0083	<0.0072	<0.0072

Segment A

B-37-8	02/17/22	05/18/22	08/25/22	11/09/22
cPAH	<0.0075	<0.0076	<0.0072	<0.0072

B-37-9	02/17/22	05/17/22	08/24/22	11/08/22
cPAH	<0.0076	<0.0091	<0.0073	<0.0072

MW-212

MW-218

MW-217

MW-216

MW-212	02/17/22	08/17/22
cPAH	<0.01	<0.01

MW-218	02/16/22	08/16/22
cPAH	<0.009	<0.01

MW-217	02/16/22	08/16/22
cPAH	<0.0009	<0.01

MW-216	02/17/22	08/17/22
cPAH	<0.0009	<0.01

WESTLAKE AVENUE N.

MERCER STREET

BLOCK 44 EXCAVATED:
UNKNOWN ELEVATION

Block 44

Block 38 West

EXCAVATED:
-6.5' ELEVATION

Block 38 East

EXCAVATED:
15-16' ELEVATION

ALLEY - PARTIALLY EXCAVATED

LEGEND

- Monitoring Well
- Phase 1 Excavation
- Phase 2 Excavation-Area 1
- Phase 2 Excavation-Area 2
- Block 37 Property Boundary
- Sheet Pile Wall
- SLU Street Car Line
- Slurry (Gravity) Wall

NOTES:

cPAHs = Carcinogenic Polycyclic Aromatic Hydrocarbon: Value is calculated Total Toxicity Equivalence Concentration
1) All monitoring well locations are approximate and concentrations are expressed in micrograms per liter (µg/L)
2) Refer to Table 4-2b for details
3) cPAHs screening level is 0.0151 µg/L
< = less than the reported method detection limit
-- = Not analyzed, sampled, or reported

N
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APPROXIMATE SCALE IN FEET

2022 GROUNDWATER TOTAL cPAHs CONCENTRATIONS

BLOCK 37 SITE
600-630 WESTLAKE AVENUE NORTH
SEATTLE, WASHINGTON
REMEDIAL INVESTIGATION WORK PLAN

PROJECT NUMBER: Z076000082	DATE: 02/23/23	FIGURE
APPROVED BY: ES	DRAWN BY: ICD	4-2e

ATLAS
6347 Seaview Avenue NW
Seattle, Washington 98107
Ph: (206) 781-1449 Fax: (206) 781-1543

Z076000073_23Q1_2.DWG

LAKE UNION

MW-209	02/17/22	08/17/22	11/30/22
Pb T	0.042 J	<0.063 J	0.092 J
Pb D	0.15	<0.069 J	<0.056

MW-210	02/17/22	08/17/22	11/30/22
Pb T	<0.058 J	<0.056	<0.056
Pb D	<0.045 J	<0.056	<0.056

MW-211	02/16/22	08/17/22	11/30/22
Pb T	0.031 J	<0.056	<0.056
Pb D	<0.028	<0.056	<0.056

SMW-3

MW-209

MW-210

MW-211

MW-213	02/17/22	08/17/22	12/01/22
Pb T	1.0	0.39 J	0.72
Pb D	0.34	0.2 J	0.14 J

MW-214	02/17/22	08/17/22	12/01/22
Pb T	0.11	<0.056	0.079 J
Pb D	<0.03	<0.056	<0.056

MW-215	02/17/22	08/17/22	12/01/22
Pb T	0.41	1.3	0.49 J
Pb D	0.11	0.09 J	0.47 J

B-37-4	02/16/22	05/17/22	08/25/22	11/07/22
Pb T	<1.1	<1.1	<1.1	<1.1
Pb D	<1.0	<1.0	<1.0	<1.0

VALLEY STREET

MW-213

MW-214

MW-215

B-37-1	02/16/22	05/17/22	08/25/22	11/09/22
Pb T	<1.1	<1.1	<1.1	<1.1
Pb D	<1.0	<1.0	<1.0	<1.0

BROAD STREET

PH-1	02/17/22	05/17/22
Pb T	<1.1	<1.1
Pb D	--	<1.0

B-37-1(GEI-1)

B-37-3

B-37-4

PH-1

B-37-3	02/16/22	05/17/22	08/25/22	11/07/22
Pb T	<1.1	<1.1	<1.1	<1.1
Pb D	<1.0	<1.0	<1.0	<1.0

Segment B

EXCAVATED:
-2' ELEVATION

PH-2	02/17/22	05/17/22	08/25/22
Pb T	<1.1	<1.1	<1.1
Pb D	--	<1.0	<1.0

PH-2/AMW-1

Segment C

B-37-5

B-37-6

B-37-6	02/16/22	05/18/22	08/25/22	11/07/22
Pb T	<1.1	<1.1	<1.1	<1.1
Pb D	<1.0	<1.0	<1.0	<1.0

B-37-5	02/17/22	05/18/22	08/25/22	11/07/22
Pb T	<1.1	<1.1	<1.1	<1.1
Pb D	--	<1.0	<1.0	<1.0

Segment D

PH-3	02/17/22	05/18/22	08/25/22	11/08/22
Pb T	<1.1	<1.1	<1.1	<1.1
Pb D	--	<1.0	<1.0	<1.0

-12' ELEVATION

PH-3
B-37-2(GEI-2)

Segment E

MW-54	02/16/22	05/18/22	08/24/22	11/08/22
Pb T	<1.1	<1.1	<1.1	<1.1
Pb D	<1.0	<1.0	<1.0	<1.0

Block 31

EXCAVATED:
-4' ELEVATION

Block 43

B-37-2	02/18/22
Pb T	<1.1
Pb D	--

FMW-131	05/18/22	08/24/22	11/08/22
Pb T	<1.1	<1.1	1.2
Pb D	<1.0	<1.0	<1.0

MWR-3

MWR-4

Segment F

MWR-4	12/01/22
Pb T	<0.06
Pb D	<0.06

MW-45

MW-54

FMW-131

MWR-5

FMW-139

FMW-139	02/16/22	05/18/22	08/24/22	11/08/22
Pb T	<1.1	<1.1	<1.1	<1.1
Pb D	<1.0	<1.0	<1.0	<1.0

MWR-5	12/01/22
Pb T	1.1
Pb D	<0.2

MW-45	02/16/22	05/17/22	08/24/22	11/08/22
Pb T	<1.1	<1.1	<1.1	<1.1
Pb D	<1.0	<1.0	<1.0	<1.0

MWR-3	02/17/22	05/18/22	08/24/22	11/08/22	12/01/22
Pb T	<1.1	<1.1	<1.1	<1.1	0.1 J
Pb D	--	<1.0	<1.0	<1.0	<0.06

Segment G

MWR-2

MW-50	02/18/22	05/17/22	08/25/22	11/09/22
Pb T	<1.1	<1.1	<1.1	<1.1
Pb D	--	<1.0	<1.0	<1.0

EXCAVATED:
-4.5' ELEVATION

MWR-1

MW-50

MWR-6

Segment H

MWR-1	12/01/22
Pb T	<0.06
Pb D	<0.06

B-37-7

B-37-8

B-37-9

MWR-6	02/17/22	05/17/22	08/24/22	11/08/22
Pb T	<1.1	<1.1	<1.1	<1.1
Pb D	--	<1.0	<1.0	<1.0

B-37-7	02/17/22	05/18/22	08/25/22	11/09/22
Pb T	<1.1	<1.1	<1.1	<1.1
Pb D	--	<1.0	<1.0	<1.0

Segment A

B-37-8	02/17/22	05/18/22	08/25/22	11/09/22
Pb T	6.6	<1.1	<1.1	<1.1
Pb D	--	<1.0	<1.0	<1.0

MW-212

B-37-9	02/17/22	05/17/22	08/24/22	11/08/22
Pb T	<1.1	<1.1	<1.1	<1.1
Pb D	--	<1.0	<1.0	<1.0

MW-218

MW-217

MW-216

MW-212	02/17/22	08/17/22	11/30/22
Pb T	0.084 J	<0.056	<0.056
Pb D	0.11	<0.056	<0.056

MW-218	02/16/22	08/16/22
Pb T	0.2	0.14 J
Pb D	<0.028	<0.056

MW-217	02/16/22	08/16/22
Pb T	1.4	<0.056
Pb D	0.23	<0.056

MW-216	02/16/22	08/16/22
Pb T	0.29	0.28 J
Pb D	0.1	0.08 J

WESTLAKE AVENUE N.

MERCER STREET

BLOCK 44 EXCAVATED:
UNKNOWN ELEVATION

Block 44

Block 38 West

EXCAVATED:
-6.5' ELEVATION

Block 38 East

EXCAVATED:
15-16' ELEVATION

ALLEY - PARTIALLY EXCAVATED

LEGEND

- Monitoring Well
- Phase 1 Excavation
- Phase 2 Excavation-Area 1
- Phase 2 Excavation-Area 2
- Block 37 Property Boundary
- Sheet Pile Wall
- SLU Street Car Line
- Slurry (Gravity) Wall

NOTES:

1) All monitoring well locations are approximate and concentrations are expressed in micrograms per liter (µg/L)
2) Refer to Table 4-2d for details
3) Lead Total (Pb T) and Lead Dissolved (Pb D) screening level is 15 µg/L
< = less than the reported method detection limit
J = estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
-- = Not analyzed, sampled, or reported

N
W E
S

0 60 120

APPROXIMATE SCALE IN FEET

2022 GROUNDWATER TOTAL AND DISSOLVED LEAD CONCENTRATIONS

BLOCK 37 SITE
600-630 WESTLAKE AVENUE NORTH
SEATTLE, WASHINGTON
REMEDIAL INVESTIGATION WORK PLAN

PROJECT NUMBER: Z076000082	DATE: 02/23/23	FIGURE 4-2f
APPROVED BY: ES	DRAWN BY: ICD	

ATLAS
6347 Seaview Avenue NW
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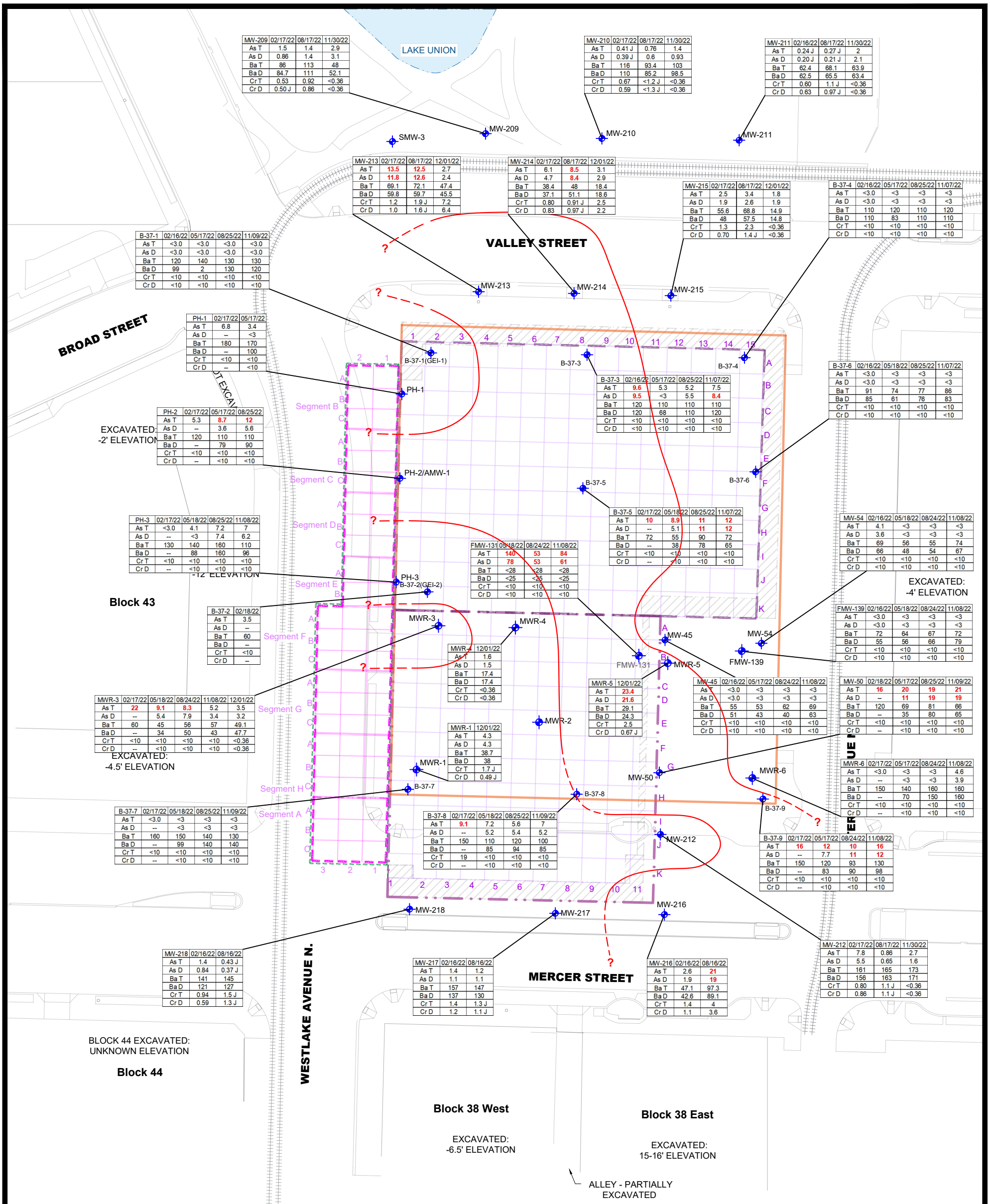
Z076000073_23Q1_2.DWG



MW-209	02/17/22	08/17/22	11/30/22
As T	1.5	1.4	2.9
As D	0.86	1.4	3.1
Ba T	86	113	48
Ba D	84.7	111	52.1
Cr T	0.53	0.92	<0.36
Cr D	0.50 J	0.86	<0.36

MW-210	02/17/22	08/17/22	11/30/22
As T	0.41 J	0.76	1.4
As D	0.39 J	0.6	0.93
Ba T	116	93.4	103
Ba D	110	85.2	98.5
Cr T	0.67	<1.2 J	<0.36
Cr D	0.59	<1.3 J	<0.36

MW-211	02/16/22	08/17/22	11/30/22
As T	0.24 J	0.27 J	2
As D	0.20 J	0.21 J	2.1
Ba T	62.4	68.1	63.9
Ba D	62.5	65.5	63.4
Cr T	0.60	1.1 J	<0.36
Cr D	0.63	0.97 J	<0.36

MW-213	02/17/22	08/17/22	12/01/22
As T	**13.5**	**12.5**	2.7
As D	**11.8**	**12.6**	2.4
Ba T	69.1	72.1	47.4
Ba D	59.8	59.7	45.5
Cr T	1.2	1.9 J	7.2
Cr D	1.0	1.6 J	6.4

MW-214	02/17/22	08/17/22	12/01/22
As T	6.1	**8.5**	3.1
As D	4.7	**8.4**	2.9
Ba T	38.4	48	18.4
Ba D	37.1	51.1	18.6
Cr T	0.80	0.91 J	2.5
Cr D	0.83	0.97 J	2.2

MW-215	02/17/22	08/17/22	12/01/22
As T	2.5	3.4	1.8
As D	1.9	2.6	1.9
Ba T	55.6	68.8	14.9
Ba D	48	57.5	14.8
Cr T	1.3	2.3	<0.36
Cr D	0.70	1.4 J	<0.36

B-37-4	02/16/22	05/17/22	08/25/22	11/07/22
As T	<3.0	<3	<3	<3
As D	<3.0	<3	<3	<3
Ba T	110	120	110	120
Ba D	110	83	110	110
Cr T	<10	<10	<10	<10
Cr D	<10	<10	<10	<10

B-37-1	02/16/22	05/17/22	08/25/22	11/09/22
As T	<3.0	<3.0	<3.0	<3.0
As D	<3.0	<3.0	<3.0	<3.0
Ba T	120	140	130	130
Ba D	99	2	130	120
Cr T	<10	<10	<10	<10
Cr D	<10	<10	<10	<10

PH-1	02/17/22	05/17/22
As T	6.8	3.4
As D	–	<3
Ba T	180	170
Ba D	–	100
Cr T	<10	<10
Cr D	–	<10

B-37-3	02/16/22	05/17/22	08/25/22	11/07/22
As T	**9.6**	5.3	5.2	7.5
As D	**9.5**	<3	5.5	**8.4**
Ba T	120	110	110	110
Ba D	120	68	110	120
Cr T	<10	<10	<10	<10
Cr D	<10	<10	<10	<10

B-37-6	02/16/22	05/18/22	08/25/22	11/07/22
As T	<3.0	<3	<3	<3
As D	<3.0	<3	<3	<3
Ba T	91	74	77	86
Ba D	85	61	76	83
Cr T	<10	<10	<10	<10
Cr D	<10	<10	<10	<10

PH-2	02/17/22	05/17/22	08/25/22
As T	5.3	**8.7**	**12**
As D	–	3.6	5.6
Ba T	120	110	110
Ba D	–	79	90
Cr T	<10	<10	<10
Cr D	–	<10	<10

B-37-5	02/17/22	05/18/22	08/25/22	11/07/22
As T	**10**	**8.9**	**11**	**12**
As D	--	5.1	**11**	**12**
Ba T	72	55	90	72
Ba D	--	38	78	65
Cr T	<10	<10	<10	<10
Cr D	--	<10	<10	<10

PH-3	02/17/22	05/18/22	08/25/22	11/08/22
As T	<3.0	4.1	7.2	7
As D	--	<3	7.4	6.2
Ba T	130	140	160	110
Ba D	--	88	160	96
Cr T	<10	<10	<10	<10
Cr D	--	<10	<10	<10

FMW-131	05/18/22	08/24/22	11/08/22
As T	**140**	**53**	**84**
As D	**78**	**53**	**61**
Ba T	<28	<28	<28
Ba D	<25	<25	<25
Cr T	<10	<10	<10
Cr D	<10	<10	<10

MW-54	02/16/22	05/18/22	08/24/22	11/08/22
As T	4.1	<3	<3	<3
As D	3.6	<3	<3	<3
Ba T	69	56	55	74
Ba D	66	48	54	67
Cr T	<10	<10	<10	<10
Cr D	<10	<10	<10	<10

B-37-2	02/18/22
As T	3.5
As D	–
Ba T	60
Ba D	–
Cr T	<10
Cr D	–

MWR-4	12/01/22
As T	1.6
As D	1.5
Ba T	17.4
Ba D	17.4
Cr T	<0.36
Cr D	<0.36

FMW-139	02/16/22	05/18/22	08/24/22	11/08/22
As T	<3.0	<3	<3	<3
As D	<3.0	<3	<3	<3
Ba T	72	64	67	72
Ba D	55	56	66	79
Cr T	<10	<10	<10	<10
Cr D	<10	<10	<10	<10

MWR-3	02/17/22	05/18/22	08/24/22	11/08/22	12/01/22
As T	**22**	**9.1**	**8.3**	5.2	3.5
As D	--	5.4	7.9	3.4	3.2
Ba T	60	45	56	57	49.1
Ba D	--	34	50	43	47.7
Cr T	<10	<10	<10	<10	<0.36
Cr D	--	<10	<10	<10	<0.36

MWR-5	12/01/22
As T	**23.4**
As D	**21.6**
Ba T	29.1
Ba D	24.3
Cr T	2.5
Cr D	0.67 J

MW-45	02/16/22	05/17/22	08/24/22	11/08/22
As T	<3.0	<3	<3	<3
As D	<3.0	<3	<3	<3
Ba T	55	53	62	69
Ba D	51	43	40	63
Cr T	<10	<10	<10	<10
Cr D	<10	<10	<10	<10

MW-50	02/18/22	05/17/22	08/25/22	11/09/22
As T	**16**	**20**	**19**	**21**
As D	--	**11**	**19**	**19**
Ba T	120	69	81	66
Ba D	--	35	80	65
Cr T	<10	<10	<10	<10
Cr D	--	<10	<10	<10

MWR-1	12/01/22
As T	4.3
As D	4.3
Ba T	38.7
Ba D	38
Cr T	1.7 J
Cr D	0.49 J

MWR-6	02/17/22	05/17/22	08/24/22	11/08/22
As T	<3.0	<3	<3	4.6
As D	--	<3	<3	3.9
Ba T	150	140	160	160
Ba D	--	70	150	160
Cr T	<10	<10	<10	<10
Cr D	--	<10	<10	<10

B-37-7	02/17/22	05/18/22	08/25/22	11/09/22
As T	<3.0	<3	<3	<3
As D	--	<3	<3	<3
Ba T	160	150	140	130
Ba D	--	99	140	140
Cr T	<10	<10	<10	<10
Cr D	--	<10	<10	<10

B-37-8	02/17/22	05/18/22	08/25/22	11/09/22
As T	**9.1**	7.2	5.6	7
As D	--	5.2	5.4	5.2
Ba T	150	110	120	100
Ba D	--	85	94	85
Cr T	19	<10	<10	<10
Cr D	--	<10	<10	<10

B-37-9	02/17/22	05/17/22	08/24/22	11/08/22
As T	**16**	**12**	**10**	**16**
As D	--	7.7	**11**	**12**
Ba T	150	120	93	130
Ba D	--	83	90	98
Cr T	<10	<10	<10	<10
Cr D	--	<10	<10	<10

MW-218	02/16/22	08/16/22
As T	1.4	0.43 J
As D	0.84	0.37 J
Ba T	141	145
Ba D	121	127
Cr T	0.94	1.5 J
Cr D	0.59	1.3 J

MW-217	02/16/22	08/16/22
As T	1.4	1.2
As D	1.1	1.1
Ba T	157	147
Ba D	137	130
Cr T	1.4	1.3 J
Cr D	1.2	1.1 J

MW-216	02/16/22	08/16/22
As T	2.6	**21**
As D	1.9	**19**
Ba T	47.1	97.3
Ba D	42.6	89.1
Cr T	1.4	4
Cr D	1.1	3.6

MW-212	02/17/22	08/17/22	11/30/22
As T	7.8	0.86	2.7
As D	5.5	0.65	1.6
Ba T	161	165	173
Ba D	156	163	171
Cr T	0.80	1.1 J	<0.36
Cr D	0.86	1.1 J	<0.36

LEGEND

- Monitoring Well
- Phase 1 Excavation
- Phase 2 Excavation-Area 1
- Phase 2 Excavation-Area 2
- Block 37 Property Boundary
- Sheet Pile Wall
- SLU Street Car Line
- Slurry (Gravity) Wall

NOTES:

1) All monitoring well locations are approximate and concentrations are expressed in micrograms per liter (µg/L)
2) Refer to Table 4-2d for details
< = less than the reported method detection limit
J = estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
Bold = The detection exceeds the screening level
-- = Not analyzed, sampled, or reported

Arsenic Total (As T)	8
Arsenic Dissolved (As D)	8
Barium Total (Ba T)	1,000
Barium Dissolved (Ba D)	1,000
Chromium III Total (Cr T)	74
Chromium III Dissolved (Cr D)	74

Screening Levels (µg/L)

Approximate extent of detected concentrations exceeding the screening level

N
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0 60 120

APPROXIMATE SCALE IN FEET

2022 GROUNDWATER TOTAL AND DISSOLVED METALS CONCENTRATIONS

BLOCK 37 SITE
600-630 WESTLAKE AVENUE NORTH
SEATTLE, WASHINGTON
REMEDIAL INVESTIGATION WORK PLAN

PROJECT NUMBER:	Z076000082	DATE:	02/14/23
APPROVED BY:	ES	DRAWN BY:	ICD

FIGURE **4-2g**

ATLAS
6347 Seaview Avenue NW
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APPENDICES

APPENDIX A
Malcolm Sheet Pile Exploration Report

MALCOLM
Look to the Blue

Sheet Pile Exploration Data Report

Block 37

February 4, 2022

MDCI Project #:	04.21.077
General Contractor:	Turner Construction
Prepared for:	Vulcan, Inc.

Contents:

Pothole & Test Boring Report
Location: PH-4
Date of Work: Monday Jan. 24th, 2022 (Pothole) Thursday Jan. 27th, 2022 (Testing Boring)

Located existing sheet pile wall underneath sidewalk along Westlake Avenue at PH-4 location. Found inside face of sheet pile approximately 6-8" behind back edge of walk and top of sheet pile about 8-10" below sidewalk elevation. Turner survey crew shot in front face of sheet pile location. Installed 10" HDPE sleeve in boring location and backfilled with 5/8" minus crushed rock. Installed test boring to depth of 50' below site grade and sleeved with 4" diameter PVC. Backfilled drill hole with bentonite hole plug. Bore hole not logged.

GRL Engineers (sub consultant) used LITE instrumentation to detect bottom of sheet pile on Wednesday Feb. 2nd, 2022. Found approximate bottom of sheet at elevation -7.5'. This corresponds with a bottom of sheet pile at roughly the same as the plan location shows. Reference GRL's complete report included in these findings in Attachment B.

Pothole & Test Boring Report
Location: PH-3
Date of Work: Monday Jan. 24th, 2022 (Pothole) Thursday Jan. 27th, 2022 (Testing Boring)

Located existing sheet pile wall underneath sidewalk along Westlake Avenue at PH-3 location. Found inside face of sheet pile approximately 6-8" behind back edge of walk and top of sheet pile about 10" below sidewalk elevation, very similar condition to what was found in PH-4. Turner survey crew shot in front face of sheet pile location. Installed 10" HDPE sleeve in boring location and backfilled with 5/8" minus crushed rock, existing buried piping prevented locating sleeve within 12-18" of sheet pile as desired. Sleeve was located 24" to the east of sheet pile. Installed test boring to depth of 50' below site grade and sleeved with 4" diameter PVC well casing. Backfilled drill hole with filter sand where screened and bentonite outside of screened area. Bore hole logged by Farallon Consulting, please reference Farallon's report material sampling and well construction logs.

GRL Engineers (sub consultant) used LITE instrumentation to detect bottom of sheet pile on Wednesday Feb. 2nd, 2022. The data was inconclusive due to the boring being located 24" from the sheet pile as a result of buried utilities. However, the data did provide a range within approximately 2' of where the approximate bottom of sheet is located,from elevation -2' to -4'. This places the tip of sheet pile roughly 2-3' above the plan location. Reference GRL's complete report included in these findings in Attachment B.

No photo taken during potholing activity as condition was very similar to PH-4.

Pothole & Test Boring Report
Location: PH-2
Date of Work: Monday Jan. 24th, 2022 (Pothole) Wednesday Jan. 26th, 2022 (Testing Boring)

Located existing sheet pile wall underneath sidewalk along Westlake Avenue at PH-2 location. Found inside face of sheet pile approximately 6-8" behind back edge of walk and top of sheet pile about 10-12" below sidewalk elevation, very similar condition to what was found in PH-4 and PH-3. Turner survey crew shot in front face of sheet pile location. Installed 10" HDPE sleeve in boring location and backfilled with 5/8" minus crushed rock. Sleeve was located 16-18" to the east of sheet pile. Installed test boring to depth of 50' below site grade and sleeved with 4" diameter PVC well casing. Backfilled drill hole with filter sand where screened and bentonite outside of screened area. Bore hole logged by Farallon Consulting, please reference Farallon's report material sampling and well construction logs.

GRL Engineers (sub consultant) used LITE instrumentation to detect bottom of sheet pile on Wednesday Feb. 2nd, 2022. Found approximate bottom of sheet at elevation -3'. Based on the LITE testing information, the bottom of sheet pile is roughly 2' above shown plan location. Reference GRL's complete report included in these findings.

No photo taken during potholing activity as condition was very similar to PH-4 and PH-3.

Pothole & Test Boring Report
Location: PH-1
Date of Work: Tuesday Jan. 24th, 2022 (Pothole) Wednesday Jan. 27th, 2022 (Testing Boring)

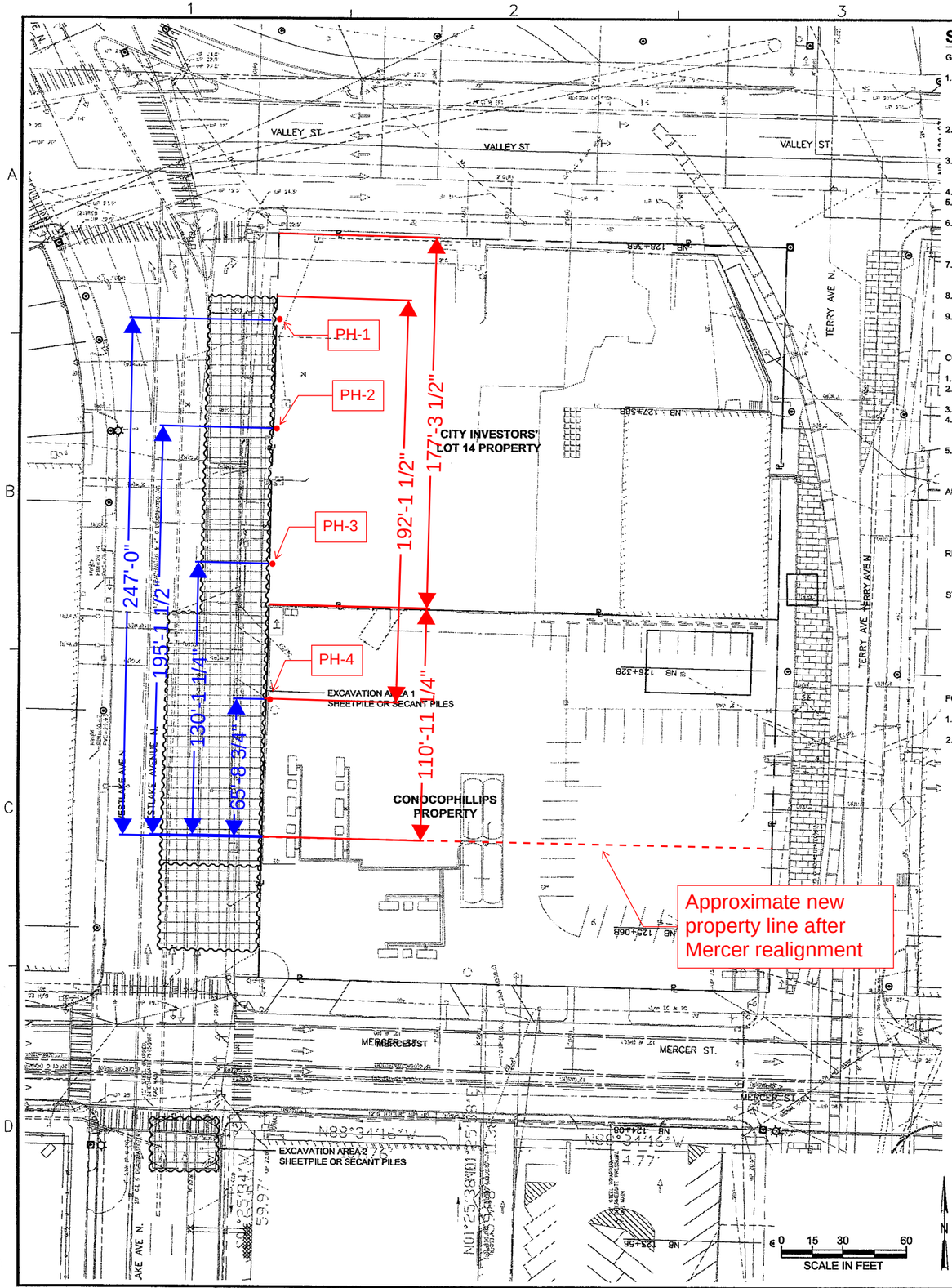
Located existing sheet pile wall underneath sidewalk along Westlake Avenue at PH-1 location. Found inside face of sheet pile approximately 6-8" behind back edge of walk and top of sheet pile about 10" below sidewalk elevation, very similar conditions to what was found in the three previous locations. Turner survey crew shot in front face of sheet pile location. Installed 10" HDPE sleeve in boring location and backfilled with 5/8" minus crushed rock. Sleeve was located 16-18" to the east of sheet pile. Installed test boring to depth of 50' below site grade and sleeved with 4" diameter PVC well casing. Backfilled drill hole with filter sand where screened and bentonite outside of screened area. Bore hole logged by Farallon Consulting, please reference Farallon's report material sampling and well construction logs.

GRL Engineers (sub consultant) used LITE instrumentation to detect bottom of sheet pile on Wednesday Feb. 2nd, 2022. Found approximate bottom of sheet at elevation -7.5'. Based on the LITE testing information, the bottom of sheet pile is roughly the same as shown plan location. Reference GRL's complete report included in these findings.

No photo taken during potholing activity as condition was very similar to previous locations.

Attachment A -
Bore Holes and Sheet Pile Depth Findings Overlay

JAN 26 REC'D



Potholing Locations Plan

PH-xx — Represents each location to pothole and expose existing sheet pile.

Note: Boreholes for LITE testing to be located at same location as sheet pile potholes and 12"-18" east of Sheet Piles

STRUCTURAL NOTES

GENERAL:

1. THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS BASED ON THIS SET OF SHORING DESIGN DRAWINGS. CHANGES IN ANY STRUCTURAL ELEMENTS AND CONFIGURATIONS SHALL BE REVIEWED, CHECKED, AND APPROVED BY THE ENGINEER PRIOR TO FABRICATION AND/OR USE ON THIS PROJECT.
2. AS A MINIMUM, ERECTION AND CONSTRUCTION PROCEDURES SHALL CONFORM TO THE REQUIREMENTS OF APPLICABLE ORDINANCES, REGULATIONS AND THE PROVISION OF CODES CITED BELOW.
3. ALL EXCAVATION AND SHORING WORK SHALL COMPLY WITH THE RECOMMENDATIONS GIVEN IN THE URS CORPORATION GEOTECHNICAL BASELINE MEMO DATED APRIL 6, 2006.
4. FOR DESIGN PRESSURES, SEE DETAILS 3/C 3.2 AND 4/C 3.2.
5. ALL CONSTRUCTION SHALL BE COORDINATED WITH AND SHALL BE SUBJECT TO THE INSPECTION REQUIREMENTS CITED BELOW.
6. THE CONTRACTOR SHALL COORDINATE ALL DIMENSIONS AND DETAILS BETWEEN THE STRUCTURAL DRAWINGS AND THAT OF OTHER TRADES PRIOR TO COMMENCING WORK. SHOULD THERE BE ANY CONFLICTS, NOTIFY THE ENGINEER FOR CLARIFICATION.
7. EQUIPMENT OR MATERIAL BEING TRANSPORTED TO LOCATION OR TEMPORARILY STORED ADJACENT TO SHORING SHALL NOT EXCEED 600 PSF.
8. THESE GENERAL NOTES ARE TO BE READ IN CONCERT WITH THE SPECIFICATIONS.
9. ANY CONFLICTS BETWEEN THESE NOTES, THE DRAWINGS AND THE SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION.

CODES:

1. CURRENT SEATTLE BUILDING CODE (SBC)
2. ASCE 7-02 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES.
3. AMERICAN CONCRETE INSTITUTE (ACI) 318-02.
4. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS ALLOWABLE STRESS DESIGN 9th EDITION 1989.
5. AMERICAN WELDING SOCIETY (AWS) D1.1, STRUCTURAL WELDING CODE STEEL AND WASHINGTON ASSOCIATION OF BUILDING OFFICIALS (WABO)

ALLOWABLE DESIGN STRESSES:

CONCRETE (28 DAY STRENGTH)
ALL CAST-IN-PLACE CONCRETE UNLESS NOTED OTHERWISE fc'=4,000 PSI
ALL PRECAST CONCRETE fc' = 6,000 PSI

REINFORCEMENT:

REINFORCEMENT BARS (ASTM A615).....FY = 60,000 PSI
WELDED WIRE FABRIC (ASTM A185).....FY = 65,000 PSI

STRUCTURAL STEEL:

STRUCTURAL STEEL (W-SHAPES, ETC.) (ASTM A992).....FY = 50,000 PSI
OTHER STRUCTUAL SHAPES A36).....FY = 36,000 PSI
STEEL TUBING (ASTM A500, GRADE B).....FY = 46,000 PSI
STEEL PIPE (ASTM A53, TYPE E OR S).....FY = 35,000 PSI
STEEL SHEET PILE (ASTM A328 OR EN10248 S270 GP).....FY = 36,000 PSI
WELDING ELECTRODE (E-70XX).....FY = 70,000 PSI

FOUNDATIONS FOR RAKERS (NOT USED UNLESS WITH ENGINEER APPROVAL):

1. SPREAD FOOTING INSTALLATION SHALL BE MONITORED BY THE RESIDENT ENGINEER OR BY A GEOTECHNICAL ENGINEER.
2. MINIMUM ALLOWABLE BEARING PRESSURE REQUIRED SHALL BE AS PER TECHNICAL SPECIFICATIONS, TO BE FIELD VERIFIED.
3. BEAR ALL FOOTINGS ON INORGANIC, UNDISTURBED, DENSE SANDY GRAVEL SOIL OR IN STRUCTURAL FILL AT DEPTHS INDICATED ON
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ALL WELDERS SHALL BE CURRENTLY QUALIFIED AND REGISTERED BY WABO AND/OR THE AMERICAN WELDING SOCIETY (AWS) AND, IF REQUIRED, ALL WELDERS SHALL HAVE THEIR QUALIFICATION RECORD FURNISHED TO THE ENGINEER. A COPY OF ANY WELDING PROCEDURES NOT PREQUALIFIED BY AWS SHALL BE SUBMITTED FOR REVIEW.

7. EXISTING AND NEW STEEL SURFACES TO BE WELDED SHALL BE CLEANED OF PAINT, GREASE, SCALE, OR OTHER FOREIGN MATERIAL.
8. MINIMUM WELD 3/16" UNO.
9. NO FIELD BURNING OF BOLT HOLES WILL BE ALLOWED. FIELD HOLES SHALL BE DRILLED AND REAMED.
10. STRUCTURAL MEMBERS SHALL BE SPLICED BY FULL PENETRATION WELDS UNLESS SPECIFICALLY NOTED ON DRAWINGS.

SHORING AND EXCAVATION:

1. EXCAVATION SHALL NOT EXCEED 15 FEET IN DEPTH. STEEL SHEET PILES SHALL BE A218 OR APPROVED EQUAL AND SHALL HAVE A MINIMUM SECTION MODULUS OF 33.5 CUBIC INCHES PER FOOT. MINIMUM SHEETPILE MOMENT OF INERTIA REQUIRED TO LIMIT DEFLECTION OF 1 INCH IS 132 IN^4 PER FOOT.
2. STEEL MEMBER CONNECTION SHALL BE COMPLETE JOINT PENETRATION WELDS UNLESS SPECIFIED OTHERWISE.
3. STRUTS SHALL BE PRELOADED TO 50% OF THE DESIGN STRUT LOAD. THIS PRELOADING VALUE MAY BE ADJUSTED TO REFLECT THE RESULTS OF FIELD MONITORING SETTLEMENT AND DISPLACEMENT.
4. LENGTH OF RAKERS SHALL BE ADJUSTABLE TO PROVIDE EFFECTIVE PRELOADING.
5. VIBRATION DURING SHEETPILE INSTALLATION AND OTHER CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO A SPECIFIED VALUE AS PER TECHNICAL SPECIFICATIONS.
6. THE CONTRACTOR SHALL MAINTAIN AN EFFECTIVE DEWATERING SYSTEM SUCH THAT GROUND WATER LEVEL IN THE EXCAVATION IS AT LEAST 1 FOOT, BUT NOT LOWER THAN 2 FEET, BELOW THE PLANNED EXCAVATION BOTTOM ELEVATION.
7. SHEET PILE SHALL BE INSTALLED WITH MINIMUM EMBEDMENT SHOWN ON C3.4 AND C3.5. THE EMBEDMENT SHOULD INCLUDE 5 FEET MINIMUM INTO NATIVE SOIL OR SIMILAR MATERIAL, AS INDICATED ON PLATES C3.4 AND C3.5, OR AS RECOMMENDED BY THE ENGINEER IN THE FIELD.

NO.	DATE	BY	REVISION DESCRIPTION
1	6/1/06	PM	FINAL FOR PERMITS

. SURFACE GRADE
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SPECIFICATIONS.
HEETPILE WALLS
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Y AND MONITORING
SHALL BE

DENT TESTING
C2003 FOR THE

SPECIAL INSPECTION PROGRAM:

ITEM	CONTINUOUS INSPECTION	PERIODIC INSPECTION	COMMENTS
SOIL			
Foundation Excavations, Bearing Strength, Preparation		X	
CONCRETE			
Cast-in-Place Concrete Placement		X	
Embedded Anchor Bolts and Inserts	X		
Placing of Reinforcement		X	
Epoxy Anchor Placement	X		
Expansion Anchor Placement	X		
WELDING			
All Structural Welding, unless listed		X	
Single Pass Fillet Welds < 5/16"		X	
Fillet Welds > 5/16"	X		
Partial/Full Penetration	X		
STRUCTURAL STEEL			
High Strength Bolting	X		
SHEET PILES, GROUND/BUILDING MOVEMENT			
Installation	X		
Vibration Monitoring	X		
Ground/Building Settlement		X	
Building Displacement		X	
Sheet Pile Displacement		X	
BRACING (FRAME, WALES, STRUTS)			
Installation and Preloading	X		
Strut Force		X	

ABBREVIATIONS

%	PERCENT	LOC	LOCATE, LOCATION
&	AND	MAX	MAXIMUM
L	ANGLE	MFR	MANUFACTURER
@	AT	MIN	MINIMUM
ADD'L	ADDITIONAL	MISC	MISCELLANEOUS
ALT	ALTERNATE	N/A	NOT APPLICABLE
APPROX	APPROXIMATE	NIC	NOT IN CONTRACT
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	NO OR #	NUMBER
		NTS	NOT TO SCALE
ATR	ALL THREADED ROD	OC	ON CENTER
BLDG	BUILDING	OD	OUTSIDE DIAMETER
CIP	CAST IN PLACE	OPP	OPPOSITE
CL OR ℄	CENTERLINE	OSHA	OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION
COL	COLUMN		
COMM	COMMUNICATIONS	PL OR P	PLATE
CONC	CONCRETE	PLF	POUNDS PER LINEAR FOOT
CONT	CONTINUOUS	PROP	PROPOSED
COORD	COORDINATE	PSI	POUNDS PER SQUARE INCH
DEMO	DEMOLISH, DEMOLITION	PSF	POUNDS PER SQUARE FOOT
DEPT	DEPARTMENT	R	RADIUS
DET	DETAIL	RAD	RADIUS
DIA OR Ø	DIAMETER	REF	REFER TO
DIM	DIMENSION	REINF	REINFORCE, REINFORCING
DWG	DRAWING	SCHED	SCHEDULE
EA	EACH	SECT	SECTION
EL	ELEVATION	SF	SQUARE FEET
EOR	ENGINEER OF RECORD	SIM	SIMILAR
EQ	EQUAL	SPECS	SPECIFICATIONS
EXIST	EXISTING	SQ	SQUARE
FDN	FOUNDATION	SS	STAINLESS STEEL/ SANITARY SEWER
FT	FOOT OR FEET		
GS	GROUND SURFACE	STD	STANDARD
GEN	GENERAL	STRUCT	STRUCTURE
HOR	HORIZONTAL	SYM	SYMMETRICAL
HR	HOUR	TBD	TO BE DETERMINED
HT	HEIGHT	TOC	TOP OF CONCRETE
IBC	INTERNATIONAL BUILDING CODE	TOS	TOP OF STEEL
ID	INSIDE DIAMETER	TOW	TOP OF WALL
IN	INCH, INCHES	TYP	TYPICAL
INT	INTERIOR	UL	UNDERWRITERS LABORATORY
JT	JOINT	UNO	UNLESS NOTED OTHERWISE
K	KIP	VERT	VERTICAL
LF	LINEAR FEET	W/	WITH
LLH	LONG LEG HORIZONTAL	W/O	WITHOUT
LLV	LONG LEG VERTICAL	WABO	WASHINGTON ASSOCIATION OF BUILDING OFFICIALS

LEGEND

- PROPERTY LINE
- PAVEMENT SAWCUT LINE
- SHEET PILE SHORING
- PROPOSED EXCAVATION AREA

FINAL PERMIT SUBMITTAL

NAME OR INITIALS AND DATE	INITIALS AND DATE
DESIGNED	REVIEWED:
CHECKED	DES. SPU CONST.
	SDOT. PROJ. MGR.
DRAWN	RECEIVED
CHECKED	REVISED AS BUILT

ALL WORK DONE IN ACCORDANCE WITH THE CITY OF SEATTLE STANDARD PLANS AND SPECIFICATIONS AND OTHER DOCUMENTS CALLED FOR IN SECTION 0-02.3 OF THE PROJECT MANUAL.

CHARLES I. DINSMORE — STATE OF WASHINGTON — 18255 — REGISTERED PROFESSIONAL ENGINEER

EXPIRES: 06/19/

WESTLAKE/MERCER CLEANUP PROJECT
SEATTLE, WASHINGTON

GENERAL NOTES AND SHEET PILE SHORING PLAN

DESIGNED:	VCV
DRAWN:	JK
CHECKED:	SR
PROJECT ENGINEER:	PM
APPROVED BY:	CD
DATE:	6/1/06

URS

SIZE: D — PLATE: C 3.1

SHEET: 22 OF 47

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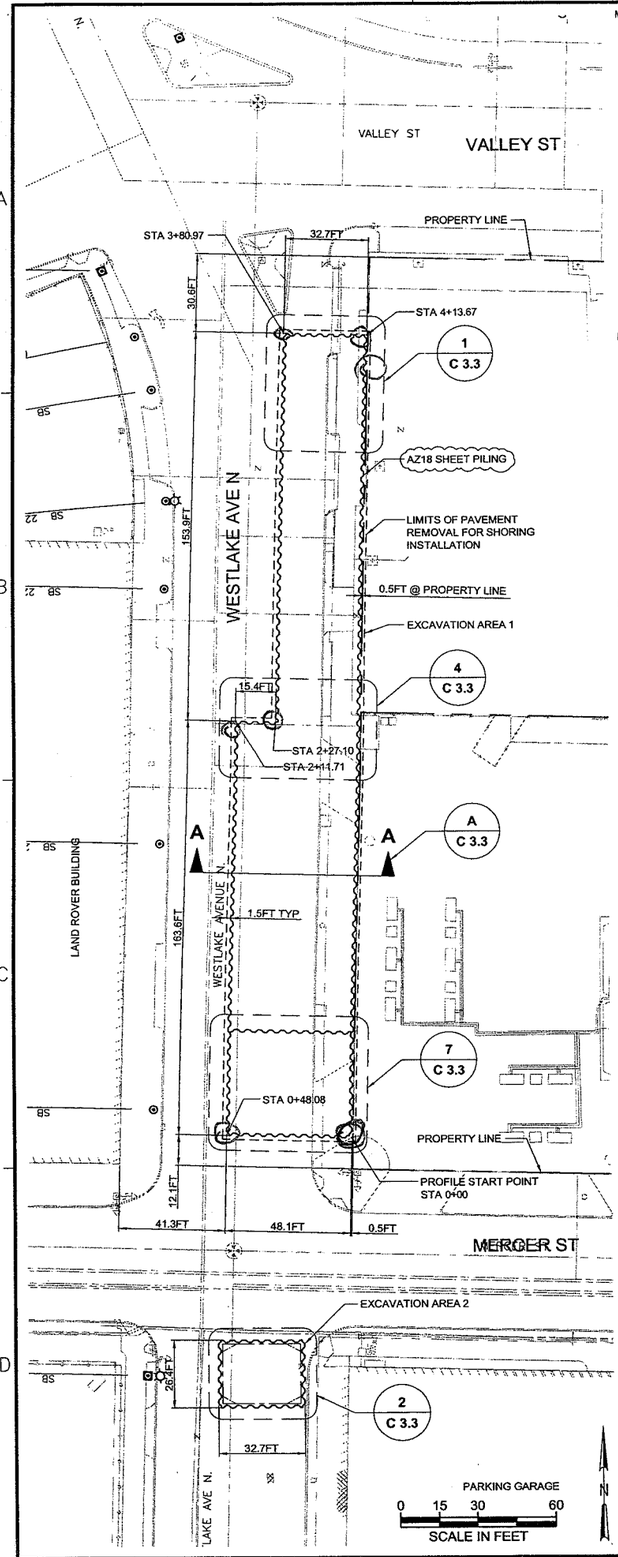
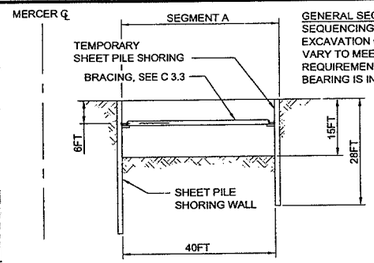
NO.	DATE	BY	REVISION DESCRIPTION
1	6/1/06	PM	FINAL FOR PERMITS

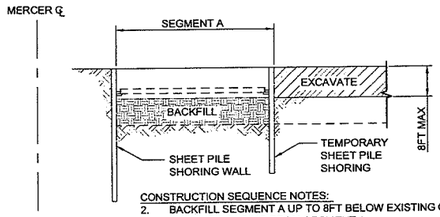
Original Sheet Pile Shoring Plan



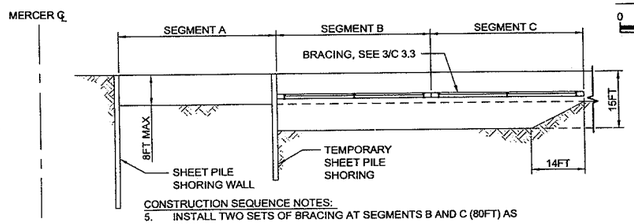


GENERAL SEQUENCE NOTE:
SEQUENCING SHOWN INDICATES GENERAL EXCAVATION CONCEPT. ACTUAL SEQUENCING MAY VARY TO MEET CONTRACTOR ACCESS REQUIREMENTS PROVIDED ALL TEMPORARY LOAD BEARING IS IN PLACE AT TIME OF EXCAVATION.

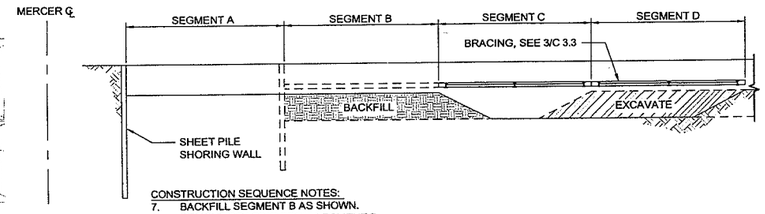
CONSTRUCTION SEQUENCE NOTES:
1. START EXCAVATION AND INSTALL BRACING AT ONE END (EITHER SOUTH OR NORTH END) (SEGMENT A). SEE VERTICAL CONSTRUCTION SEQUENCE FOR DETAILS.



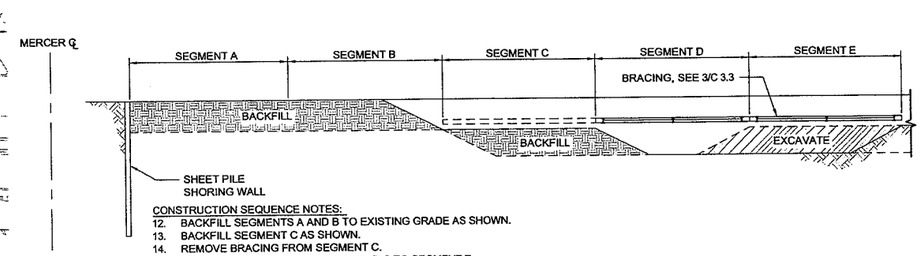
CONSTRUCTION SEQUENCE NOTES:
2. BACKFILL SEGMENT A UP TO 8FT BELOW EXISTING GRADE.
3. REMOVE BRACING FROM SEGMENT A.
4. EXCAVATE TOP 8FT OF REMAINING AREA OF PHASE 1.



CONSTRUCTION SEQUENCE NOTES:
5. INSTALL TWO SETS OF BRACING AT SEGMENTS B AND C (80FT) AS SHOWN.
6. EXCAVATE SEGMENTS B AND C TO FINAL DEPTH AS SHOWN.



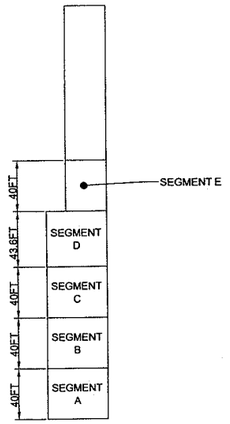
CONSTRUCTION SEQUENCE NOTES:
7. BACKFILL SEGMENT B AS SHOWN.
8. REMOVE BRACING FROM SEGMENT B.
9. REINSTALL BRACING FROM SEGMENT B IN SEGMENT D.
10. REMOVE TEMPORARY SHEET PILE.
11. EXCAVATE SEGMENT D AS SHOWN.



CONSTRUCTION SEQUENCE NOTES:
12. BACKFILL SEGMENTS A AND B TO EXISTING GRADE AS SHOWN.
13. BACKFILL SEGMENT C AS SHOWN.
14. REMOVE BRACING FROM SEGMENT C.
15. RELOCATE BRACING FROM SEGMENT C TO SEGMENT E.
16. EXCAVATE SEGMENT E AS SHOWN.
17. REPEAT IN SIMILAR MANNER TOWARDS THE NORTH END.

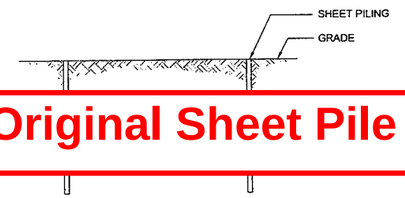
HORIZONTAL CONSTRUCTION SEQUENCE ALONG WESTLAKE AVE.
(EXCAVATION MUST CONFORM TO VERTICAL CONSTRUCTION SEQUENCE)

DETAIL 1 C 3.2
0 20 40
SCALE IN FEET

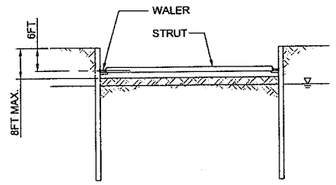


SEGMENT KEY MAP

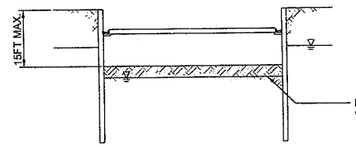
PLAN 5 C 3.2
0 60 120
SCALE IN FEET



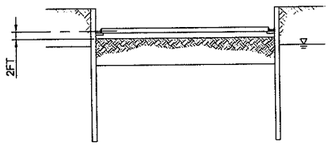
CONSTRUCTION SEQUENCE NOTES:
1. INSTALL SHEET PILING TO SPECIFIED DEPTHS



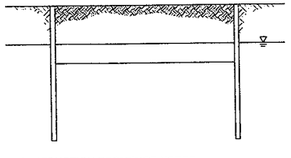
CONSTRUCTION SEQUENCE NOTES:
2. EXCAVATE INSIDE SHEET PILES TO 8' BELOW GROUND SURFACE.
3. INSTALL WALERS AND STRUTS.
4. PRELOAD STRUTS.



CONSTRUCTION SEQUENCE NOTES:
5. EXCAVATE TO FINAL DEPTH OF 15'. DEWATER EXCAVATION AS REQUIRED.



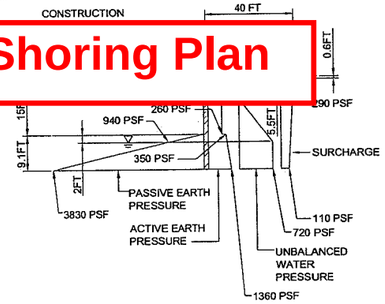
CONSTRUCTION SEQUENCE NOTES:
6. UPON COMPLETION OF REQUIRED WORK, BACKFILL AND COMPACT PER SPECIFICATIONS TO 2' BELOW WALER AND STRUT BRACING.
7. REMOVE WALERS AND STRUTS.



CONSTRUCTION SEQUENCE NOTES:
8. BACKFILL AND COMPACT TO FINAL ELEVATION PER SPECIFICATIONS.

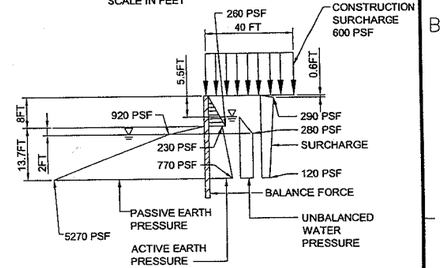
VERTICAL CONSTRUCTION SEQUENCE

DETAIL 2 C 3.2
0 20 40
SCALE IN FEET



DESIGN PRESSURES - FULL DEPTH EXCAVATION

DETAIL 3 C 3.2
0 20 40
SCALE IN FEET



DESIGN PRESSURES - CANTILEVER SECTION

DETAIL 4 C 3.2
0 20 40
SCALE IN FEET

NOTE:
SEE PLATES C3.4 AND C3.5 FOR SHORING WALL PROFILES.

CHARLES I. DINSMORE
STATE OF WASHINGTON
1933
REGISTERED
PROFESSIONAL ENGINEER

EXPIRES: 06/19/

FINAL PERMIT SUBMITTAL

NAME OR INITIALS AND DATE	INITIALS AND DATE
DESIGNED	REVIEWED:
CHECKED	DES. SPU CONST. SDOT PROJ. MGR.
DRAWN	RECEIVED
CHECKED	REVISED AS BUILT

ALL WORK DONE IN ACCORDANCE WITH THE CITY OF SEATTLE STANDARD PLANS AND SPECIFICATIONS AND OTHER DOCUMENTS CALLED FOR IN SECTION 0-02.3 OF THE PROJECT MANUAL.

WESTLAKE/MERCER CLEANUP PROJECT
SEATTLE, WASHINGTON

SHEET PILE SHORING PLAN AND DETAILS

DESIGNED: VCV	URS	SIZE: D	PLATE: C 3.2
DRAWN: JHK			
CHECKED: SR			
PROJECT ENGINEER: PM		SHEET: 23 OF 47	
APPROVED BY: CD			
DATE: 6/1/06			

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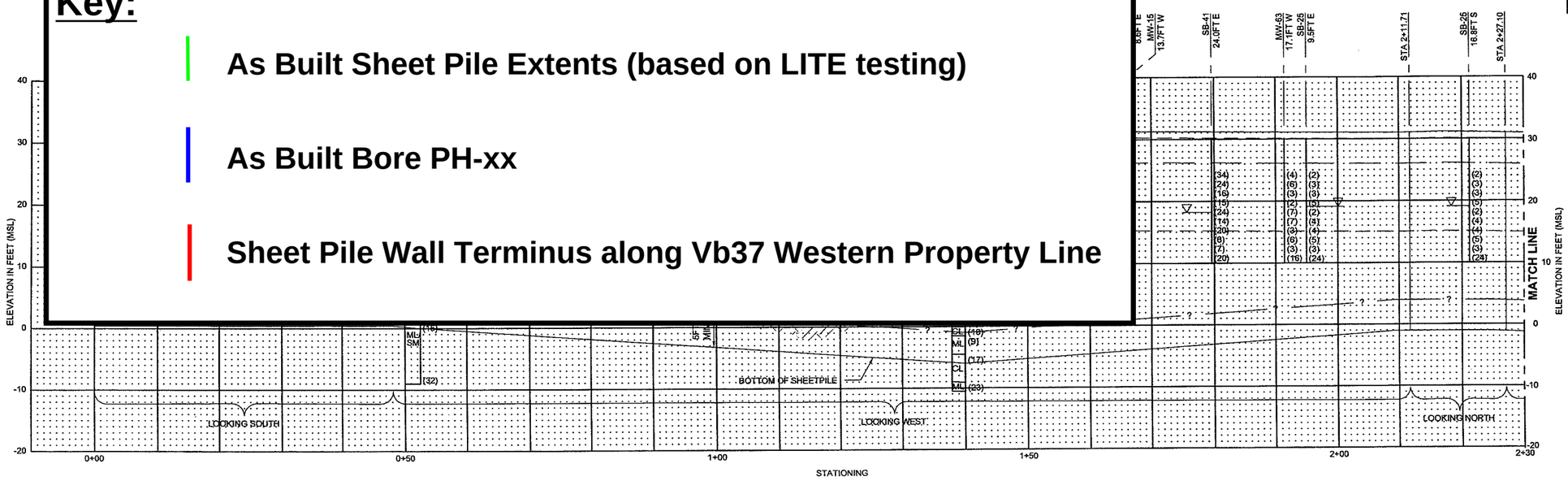
JAN 26 REC'D

NO.	DATE	BY	REVISION DESCRIPTION
1	6/1/06	PM	FINAL FOR PERMITS

Key:

- As Built Sheet Pile Extents (based on LITE testing)
- As Built Bore PH-xx
- Sheet Pile Wall Terminus along Vb37 Western Property Line



North Terminus of Sheet Pile Wall

Approximate PH-1 Side walk Elev. ~29'

Extent of Sheet Pile Per GRL LITE Report 36.3' Below top of Boring

Design Bottom of Sheet Pile

LEGEND

(20) STANDARD PENETRATION TEST "N" VALUE, BLOWS PER FOOT

FILL - SILTY SAND, SAND, SILT TO SILTY CLAY, SAND WITH CLAY, SANDY GRAVEL, AND OCCASIONALLY THIN LAYER (.5FT TO 2FT) OF PEAT/CLAY, MAY INCLUDE SOFT OR LOOSE UNCONSOLIDATED NATIVE SOIL

NATIVE FIRM SOIL - STIFF TO HARD, FINE TO COARSE, SANDY TO CLAYEY SILT WITH SOME SAND LAYERS

WOOD OR WOOD CHIPS THAT SIGNIFICANTLY AFFECT BLOW COUNT (SEE BORING LOGS)

NOTE

1. POSITION OF WALES AND STRUTS NOT SHOWN FOR CLARITY.

Sheet Pile Wall Elevations with Overlaid Exploration Data

ALONG SHORING WALL
PROFILE
0 10 20
SCALE IN FEET

FINAL PERMIT SUBMITTAL

NAME OR INITIALS AND DATE	INITIALS AND DATE
DESIGNED	REVIEWED:
CHECKED	DES. SPU CONST.
	SDOT. PROJ. MGR.
DRAWN	RECEIVED
CHECKED	REVISED AS BUILT

ALL WORK DONE IN ACCORDANCE WITH THE CITY OF SEATTLE STANDARD PLANS AND SPECIFICATIONS AND OTHER DOCUMENTS CALLED FOR IN SECTION 0-02.3 OF THE PROJECT MANUAL.

WESTLAKE/MERCER CLEANUP PROJECT
SEATTLE, WASHINGTON

SHORING WALL PROFILE

DANIEL J. RANK STATE OF WASHINGTON 36277 REGISTERED PROFESSIONAL ENGINEER
EXPIRES:

DESIGNED:	VCV
DRAWN:	JK
CHECKED:	MM
PROJECT ENGINEER:	PM
APPROVED BY:	DJH
DATE:	6/1/06

URS

SIZE D | PLATE: C 3.4
SHEET: 25 OF 47

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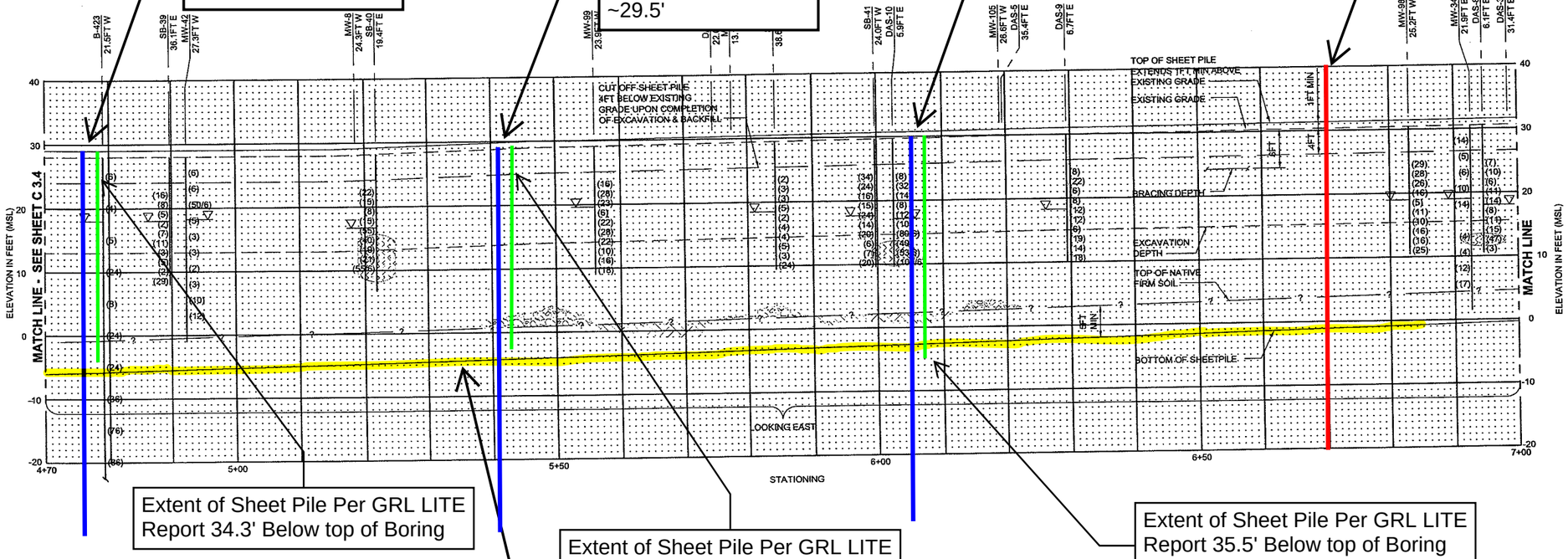
NO.	DATE	BY	REVISION DESCRIPTION
1	6/1/06	PM	FINAL FOR PERMITS

Approximate PH-2
Side walk Elev. ~29'

Approximate PH-3
Side walk Elev.
~29.5'

Approximate PH-4
Side walk Elev. ~30'

Southern End of
West Property Line

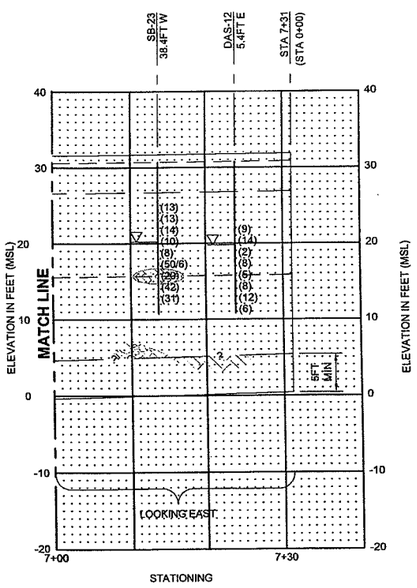


Extent of Sheet Pile Per GRL LITE Report 34.3' Below top of Boring

Extent of Sheet Pile Per GRL LITE Report 31 to 33' Below top of Boring

Extent of Sheet Pile Per GRL LITE Report 35.5' Below top of Boring

Design Bottom of Sheet Pile



LEGEND

(20) STANDARD PENETRATION TEST "N" VALUE, BLOWS PER FOOT

FILL - SILTY SAND, SAND, SILT TO SILTY CLAY, SAND WITH CLAY, SANDY GRAVEL, AND OCCASIONALLY THIN LAYER (.5FT TO 2FT) OF PEAT/CLAY, MAY INCLUDE SOFT OR LOOSE UNCONSOLIDATED NATIVE SOIL

NATIVE FIRM SOIL - STIFF TO HARD, FINE TO COARSE, SANDY TO CLAYEY SILT WITH SOME SAND LAYERS

WOOD OR WOOD CHIPS THAT SIGNIFICANTLY AFFECT BLOW COUNT (SEE BORING LOGS)

NOTE

1. POSITION OF WALES AND STRUTS NOT SHOWN FOR CLARITY.

Key:

- As Built Sheet Pile Extents (based on LITE testing)
- As Built Bore PH-xx
- Sheet Pile Wall Terminus along Vb37 Western Property Line

Sheet Pile Wall Elevations with Overlaid Exploration Data

ALONG SHORING WALL
PROFILE
0 10 20
SCALE IN FEET

36277 REGISTERED PROFESSIONAL ENGINEER
EXPIRES:

DESIGNED:	VCV
DRAWN:	JK
CHECKED:	MM
PROJECT ENGINEER:	PM
APPROVED BY:	DJH
DATE:	6/1/06

URS

SIZE D | PLATE: C 3.5

SHEET: 26 OF 47

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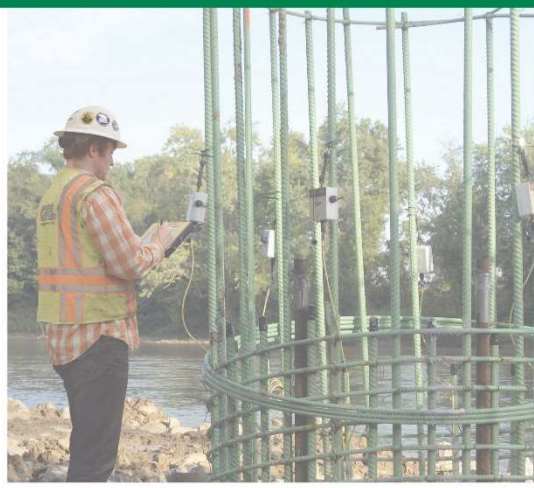
Attachment B -
GRL LITE Testing Report



GRL engineers, inc.

Dynamic Measurements and Analyses

Job No. 226003-1

Report on:
Pile Length Inductive Testing Results
Vulcan Block 37 Project
Seattle, Washington

Prepared for Malcolm Drilling Co., Inc.
By Marty Bixler and Sean Killingsworth

February 3, 2022

www.GRLengineers.com info@GRLengineers.com

February 3, 2022

Trevor Morris
Malcolm Drilling Co., Inc.
8701 S. 192nd Street
Kent, WA 98031

Re: Pile Length Inductive Testing Results
Vulcan Block 37 Sheet Pile Evaluation
Seattle, Washington GRL Job No. 226003-1

This report presents our findings from pile length inductive tests conducted by GRL Engineers, Inc. at the above referenced project in Seattle, Washington. The field testing summarized in this report was conducted on February 2, 2022.

The testing objective was to estimate the length of existing sheet pile walls within the limits and accuracy of the test method. The Length Inductive Test Equipment (LITE) manufactured by Pile Dynamics, Inc. was used to record the test data. Discussions on the testing equipment and operations, interpretation and limitations are provided in Appendix A. Inductive testing results are presented in Appendix B.

TEST DETAILS

Foundation Information

It should be noted that the tested sheet piles are not visible but are under an existing sidewalk along Westlake Avenue North, north of the intersection of Mercer Street. It was reported to us that the existing sheet piles were installed approximately 15 years ago, with the tops of the sheet piles approximately 8 inches below the top of the sidewalk. PVC access tubes for the testing were installed and prepared by others prior to our arrival on site. A total of 4 access holes were drilled within approximately 8 to 18 inches of the sidewalk (the sheet pile wall sections may be approximately 4 inches further, or 12 to 22 inches from the tubes), one tube at four separate locations (PH-1 to PH-4). A general layout of the access tube locations is presented in Appendix C. The PVC access tubes were part of a monitoring system and encapsulated at the top with a steel monument that extended approximately 18 inches below ground. Therefore, the bottom of the steel monument and top of the steel sheet piles likely have vertical overlap, and it is not expected for the LITE testing to determine the location of the sheet pile top. The height of the access tubes' tops relative to the assumed tops of the steel sheet pile sections, as well as the total internal measured length of each tube, is presented in Appendix B.

Measurements

The LITE consists of an inductive sensor (approximately 8 inches long) connected to a cable which is lowered into each access tube. The signal from the sensor was conditioned and converted to voltage by the LITE conditioning box and displayed on the digital voltmeter. A

baseline “initial” voltage measurement is taken at ground level by placing the sensor away from the pile, and before inserting the inductive sensor into the access tube. Voltage measurements from the inductive sensor were taken starting from the bottom of each access tube. The cable was then raised and paused at one-foot increments, where the cable depth and the voltage was recorded. The magnitude of the voltage provides an indication of the proximity of an electrically conductive material. Voltages which are consistent and significantly higher than the initial baseline reading indicate the presence of metal or a conductive material within a 1.5 feet proximity of the sensor. If there is no conductive material in the proximity of the sensor, the voltage will decrease towards the level of the baseline measurement. Further information is provided in Appendix A.

Test Sequence

GRL performed the testing on February 2, 2022, at locations PH-1, PH-2, PH-3, and PH-4. It should be noted that the horizontal distance from the center of these access tubes to the nearest edge of the sidewalk was approximately 10, 10, 18, and 8 inches, respectively.

DISCUSSION OF INDUCTIVE TEST RESULTS

Voltage measurements were recorded near the bottom of each access tube, and at one-foot increments over the entire length of the access tube for each location. The inductive sensor housing is 8 inches long, and the inductive “element” within the sensor housing is located near the bottom of the housing; therefore, the length of the sensor housing is added to the length of cable below the access tube top.

The interpreted pile lengths for each testing location are presented in Table 1. Because the inductive sensor detects the presence of a conductive material within approximately 10 to 12 inches above the top of the probe, the actual interpreted lengths, listed below, have been adjusted for this effect. Complete results are presented in Appendix B.

Table 1: Interpreted Pile Lengths

Access Tube Location	Interpreted Pile Length [feet]	Notes	Access Tube Location	Interpreted Pile Length [feet]	Notes
PH-1	36.3		PH-3	inconclusive	1
PH-2	34.3		PH-4	35.5	

Table 1 Notes:

1. Data shows consistent voltage measurement indicating presence of conductive material at the top reading when the sensor is near the steel monument. The data shows somewhat erratic voltage readings over most of the other depths. Distance between the sheet wall and access tube may be near, or beyond, the limit of the sensor range. A possible, although not conclusive, interpreted bottom of sheet pile depth may be approximately 30 to 33 feet, where the voltage gradually increases, and maintains to some extent above that.

LIMITATIONS

The LITE results are not intended to be used as the sole basis in decision making regarding the length of the piling. Rather, LITE results are intended to provide the responsible engineer(s) with additional information for use in evaluating the acceptability for their intended purpose. Please also review Appendix A for additional limitations of this method.

Please contact our office if you have any questions regarding the contents of this report, or if we may be of further service.

Respectfully,

GRL Engineers, Inc.

2-3-2022

Marty G. Bixler, P.E. (Washington #51806)
Senior Engineer

Sean Killingsworth
Reviewer

Enclosed: Appendices A, B, and C.

APPENDIX A
DESCRIPTION AND OPERATIONS OF THE LENGTH INDUCTIVE TEST EQUIPMENT

1. BACKGROUND

The Length Inductive Test Equipment (LITE) serves to determine the length of existing steel (or other metal) piles such as H-piles, pipe piles, cased drilled shafts, or sheet piles. In general, the LITE senses the proximity of an electric conductor within a 1.5 ft distance. To detect the length of a deep foundation it is therefore necessary to drill a hole parallel and adjacent to the foundation element. This hole can be filled with water or it can be dry. The inductive sensor is lowered into the hole and a measurement of voltage is taken, typically at 1 ft intervals. A positive voltage indicates the presence of metal. A zero or negative voltage suggests that no electric conductor is present within 1.5 ft of the sensor.

2. INSTRUMENTATION

2.1 COMPONENTS

Components include (see Figure 1):

1. Inductive sensor including cable with depth markers at, typically, 1 ft intervals;
2. Signal conditioning box;
3. Voltmeter.

Figure 1: LITE Components

2.2 MODE OF OPERATION

1. A hole has to be drilled to a depth that exceeds the minimum required or anticipated pile depth.
2. The hole must be drilled within 18 inches (absolute maximum) of the foundation element.
3. The hole should be lined with a PVC tube of at least 3 inch internal diameter.
4. The PVC tube should be capped at the bottom so that mud cannot penetrate into the tube. The tube can be filled with water.
5. Connect the output of the signal conditioning box to a DC voltmeter.
6. Lower the inductive sensor into the hole at 1 ft (or as desired) increments and record voltage at the signal conditioner.
7. Record the depth and voltage; optionally and additionally transcribe to a spreadsheet.
8. In some cases, it may be necessary to perform multiple scans.

3. DATA INTERPRETATION

Data interpretation is straightforward. Provided the inductive device senses the proximity of metal or other conductive material it will display a high voltage. If there is no metal in the neighborhood, the voltage will tend towards a zero or negative value. Erratic results would be expected where the distance between sensor and metal approaches the limit of the equipment.

4. LIMITATIONS

In general, the LITE results only indicate the presence or absence of metal. The following limitations therefore exist.

1. It is not possible to distinguish between an undamaged and a damaged pile.
2. The length accuracy is not greater than the distance between the individual readings and the distance between sensor and pile (with the actual length generally less than the last positive reading.)

3. A pile with a batter or gradual bend away from the inspection tube will indicate a shorter than actual length.
4. The method provides no information on pile bearing capacity.
5. The method should not be used as the sole basis in establishing acceptance or rejection criteria for deep foundations.

The responsible foundation engineer should use the LITE results together with other construction documents to form an opinion about length and condition of the foundation element.

Appendix B

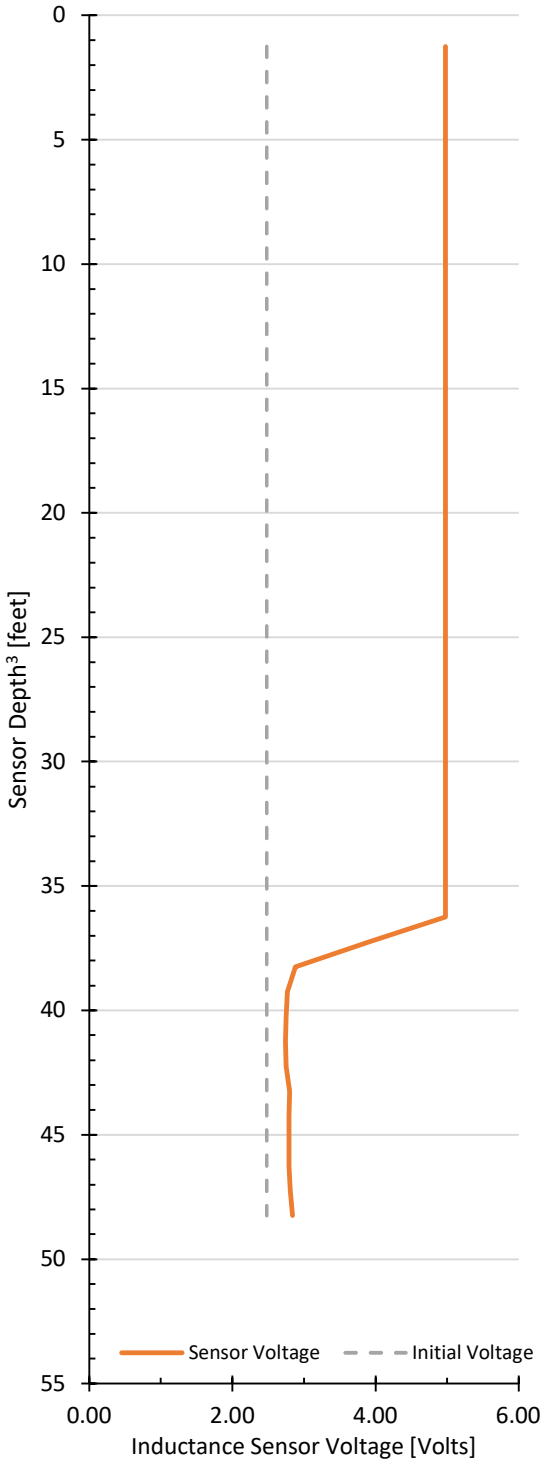
L.I.T.E. (Length Inductive Test Equipment) Test Data - Voltage vs Length Plots

Length Inductive Testing Results

Test Location: PH-1
Project Name: Vulcan Block 37
Date of Testing: February 2, 2022

Access Tube above Sheet Pile [in]: -5
Inductive Sensor Length [in]: 8
Initial Voltage [Volts]: 2.48
Access Tube Length[1] [feet]: 49.0

Cable Depth[2] [feet]	Sensor Depth[3] [feet]	Sensor Voltage [Volts]	Cable Depth[3] [feet]	Sensor Depth[3] [feet]	Sensor Voltage [Volts]
1	1.25	4.98	41	41.25	2.74
2	2.25	4.98	42	42.25	2.75
3	3.25	4.98	43	43.25	2.80
4	4.25	4.98	44	44.25	2.79
5	5.25	4.98	45	45.25	2.79
6	6.25	4.98	46	46.25	2.79
7	7.25	4.98	47	47.25	2.81
8	8.25	4.98	48	48.25	2.84
9	9.25	4.98			
10	10.25	4.98			
11	11.25	4.98			
12	12.25	4.98			
13	13.25	4.98			
14	14.25	4.98			
15	15.25	4.98			
16	16.25	4.98			
17	17.25	4.98			
18	18.25	4.98			
19	19.25	4.98			
20	20.25	4.98			
21	21.25	4.98			
22	22.25	4.98			
23	23.25	4.98			
24	24.25	4.98			
25	25.25	4.98			
26	26.25	4.98			
27	27.25	4.98			
28	28.25	4.98			
29	29.25	4.98			
30	30.25	4.98			
31	31.25	4.98			
32	32.25	4.98			
33	33.25	4.98			
34	34.25	4.98			
35	35.25	4.98			
36	36.25	4.98			
37	37.25	3.91			
38	38.25	2.88			
39	39.25	2.77			
40	40.25	2.75			



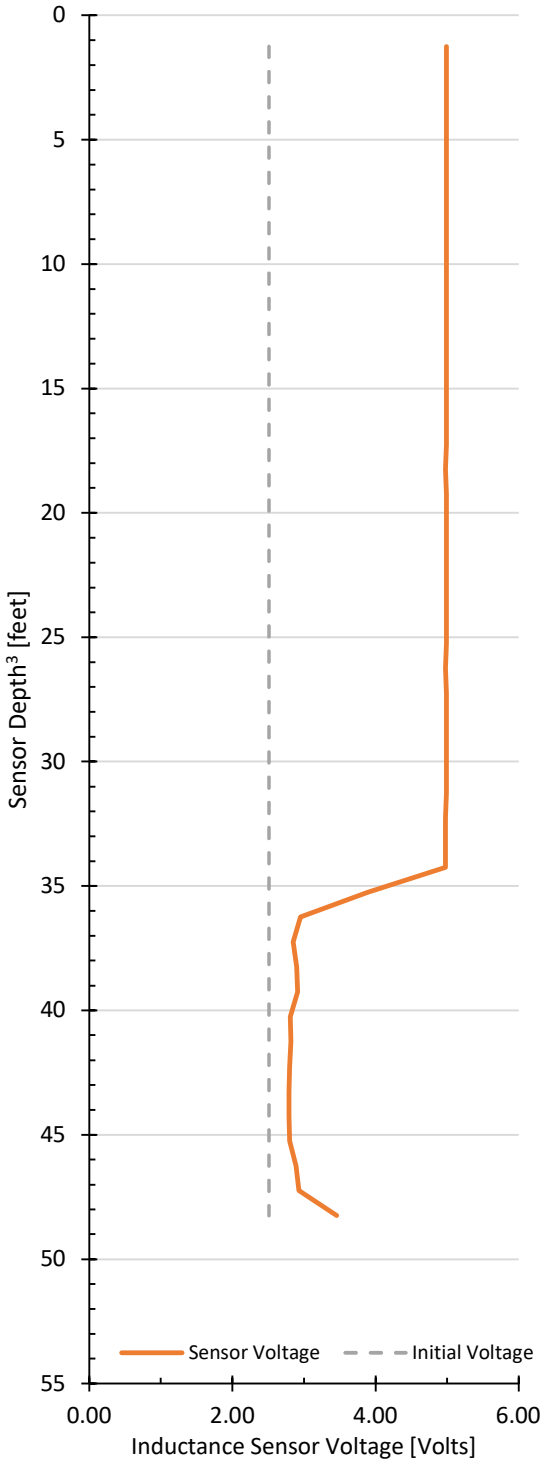
1 - Total measured PVC access tube length
2 - Depth of LITE cable below top of PVC Access Tube
3 - Depth of the inductance sensor below the sheet pile top. See testing report for sheet pile length interpretations.

Length Inductive Testing Results

Test Location: PH-2
Project Name: Vulcan Block 37
Date of Testing: February 2, 2022

Access Tube above Sheet Pile [in]: -5
Inductive Sensor Length [in]: 8
Initial Voltage [Volts]: 2.51
Access Tube Length[1] [feet]: 49.3

Cable Depth[2] [feet]	Sensor Depth[3] [feet]	Sensor Voltage [Volts]	Cable Depth[3] [feet]	Sensor Depth[3] [feet]	Sensor Voltage [Volts]
1	1.25	4.99	41	41.25	2.82
2	2.25	4.99	42	42.25	2.80
3	3.25	4.99	43	43.25	2.79
4	4.25	4.99	44	44.25	2.79
5	5.25	4.99	45	45.25	2.80
6	6.25	4.99	46	46.25	2.89
7	7.25	4.99	47	47.25	2.93
8	8.25	4.99	48	48.25	3.46
9	9.25	4.99			
10	10.25	4.99			
11	11.25	4.99			
12	12.25	4.99			
13	13.25	4.99			
14	14.25	4.99			
15	15.25	4.99			
16	16.25	4.99			
17	17.25	4.99			
18	18.25	4.98			
19	19.25	4.99			
20	20.25	4.99			
21	21.25	4.99			
22	22.25	4.99			
23	23.25	4.99			
24	24.25	4.99			
25	25.25	4.99			
26	26.25	4.98			
27	27.25	4.99			
28	28.25	4.99			
29	29.25	4.99			
30	30.25	4.99			
31	31.25	4.99			
32	32.25	4.98			
33	33.25	4.98			
34	34.25	4.98			
35	35.25	3.89			
36	36.25	2.95			
37	37.25	2.85			
38	38.25	2.90			
39	39.25	2.91			
40	40.25	2.81			



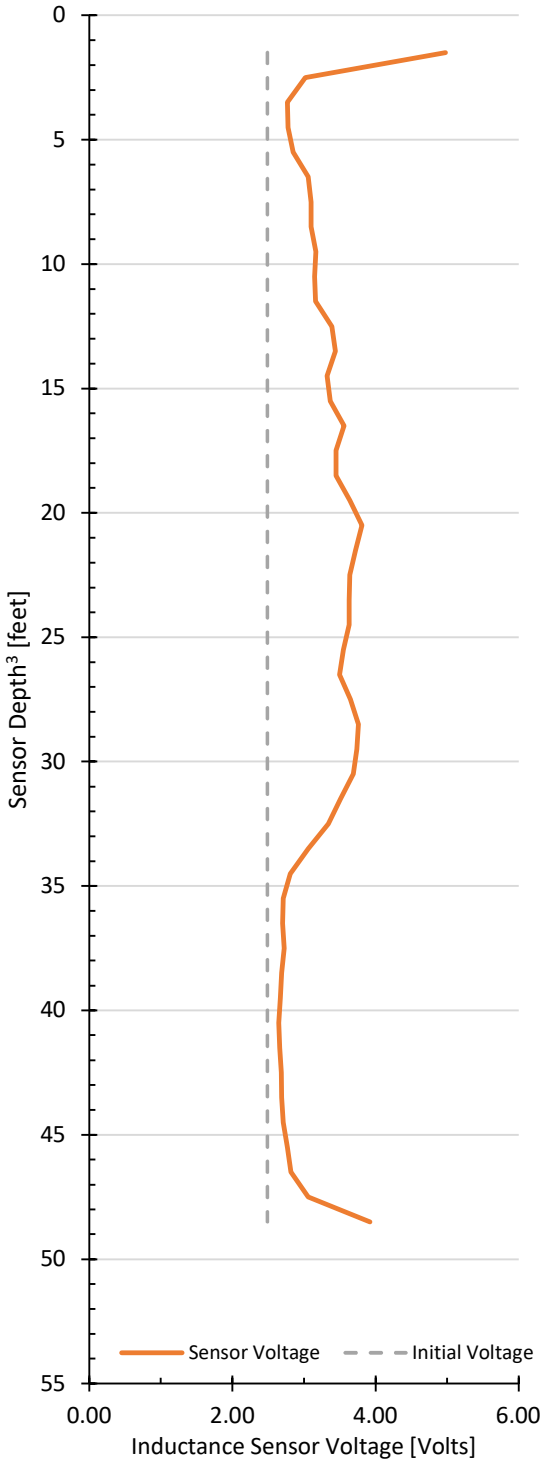
1 - Total measured PVC access tube length
2 - Depth of LITE cable below top of PVC Access Tube
3 - Depth of the inductance sensor below the sheet pile top. See testing report for sheet pile length interpretations.

Length Inductive Testing Results

Test Location: PH-3
Project Name: Vulcan Block 37
Date of Testing: February 2, 2022

Access Tube above Sheet Pile [in]: -2
Inductive Sensor Length [in]: 8
Initial Voltage [Volts]: 2.49
Access Tube Length[1] [feet]: 50.1

Cable Depth[2] [feet]	Sensor Depth[3] [feet]	Sensor Voltage [Volts]	Cable Depth[3] [feet]	Sensor Depth[3] [feet]	Sensor Voltage [Volts]
1	1.50	4.98	41	41.50	2.66
2	2.50	3.02	42	42.50	2.68
3	3.50	2.77	43	43.50	2.69
4	4.50	2.78	44	44.50	2.71
5	5.50	2.85	45	45.50	2.77
6	6.50	3.06	46	46.50	2.82
7	7.50	3.10	47	47.50	3.06
8	8.50	3.10	48	48.50	3.92
9	9.50	3.17			
10	10.50	3.15			
11	11.50	3.16			
12	12.50	3.39			
13	13.50	3.44			
14	14.50	3.32			
15	15.50	3.37			
16	16.50	3.56			
17	17.50	3.45			
18	18.50	3.45			
19	19.50	3.64			
20	20.50	3.81			
21	21.50	3.72			
22	22.50	3.64			
23	23.50	3.63			
24	24.50	3.63			
25	25.50	3.55			
26	26.50	3.50			
27	27.50	3.65			
28	28.50	3.76			
29	29.50	3.74			
30	30.50	3.69			
31	31.50	3.51			
32	32.50	3.34			
33	33.50	3.06			
34	34.50	2.81			
35	35.50	2.71			
36	36.50	2.70			
37	37.50	2.72			
38	38.50	2.69			
39	39.50	2.67			
40	40.50	2.65			



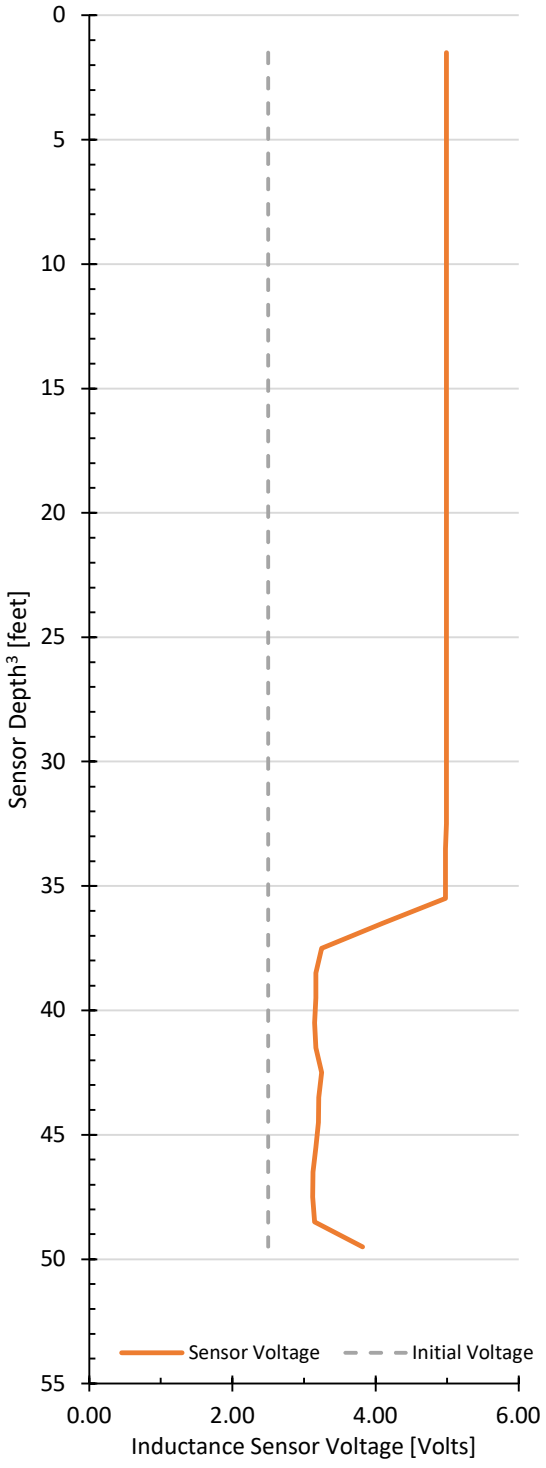
1 - Total measured PVC access tube length
2 - Depth of LITE cable below top of PVC Access Tube
3 - Depth of the inductance sensor below the sheet pile top. See testing report for sheet pile length interpretations.

Length Inductive Testing Results

Test Location: PH-4
Project Name: Vulcan Block 37
Date of Testing: February 2, 2022

Access Tube above Sheet Pile [in]: -2
Inductive Sensor Length [in]: 8
Initial Voltage [Volts]: 2.50
Access Tube Length[1] [feet]: 49.9

Cable Depth[2] [feet]	Sensor Depth[3] [feet]	Sensor Voltage [Volts]	Cable Depth[3] [feet]	Sensor Depth[3] [feet]	Sensor Voltage [Volts]
1	1.50	4.99	41	41.50	3.17
2	2.50	4.99	42	42.50	3.25
3	3.50	4.99	43	43.50	3.21
4	4.50	4.99	44	44.50	3.20
5	5.50	4.99	45	45.50	3.17
6	6.50	4.99	46	46.50	3.13
7	7.50	4.99	47	47.50	3.12
8	8.50	4.99	48	48.50	3.15
9	9.50	4.99	49	49.50	3.82
10	10.50	4.99			
11	11.50	4.99			
12	12.50	4.99			
13	13.50	4.99			
14	14.50	4.99			
15	15.50	4.99			
16	16.50	4.99			
17	17.50	4.99			
18	18.50	4.99			
19	19.50	4.99			
20	20.50	4.99			
21	21.50	4.99			
22	22.50	4.99			
23	23.50	4.99			
24	24.50	4.99			
25	25.50	4.99			
26	26.50	4.99			
27	27.50	4.99			
28	28.50	4.99			
29	29.50	4.99			
30	30.50	4.99			
31	31.50	4.99			
32	32.50	4.99			
33	33.50	4.98			
34	34.50	4.98			
35	35.50	4.98			
36	36.50	4.10			
37	37.50	3.25			
38	38.50	3.17			
39	39.50	3.17			
40	40.50	3.15			



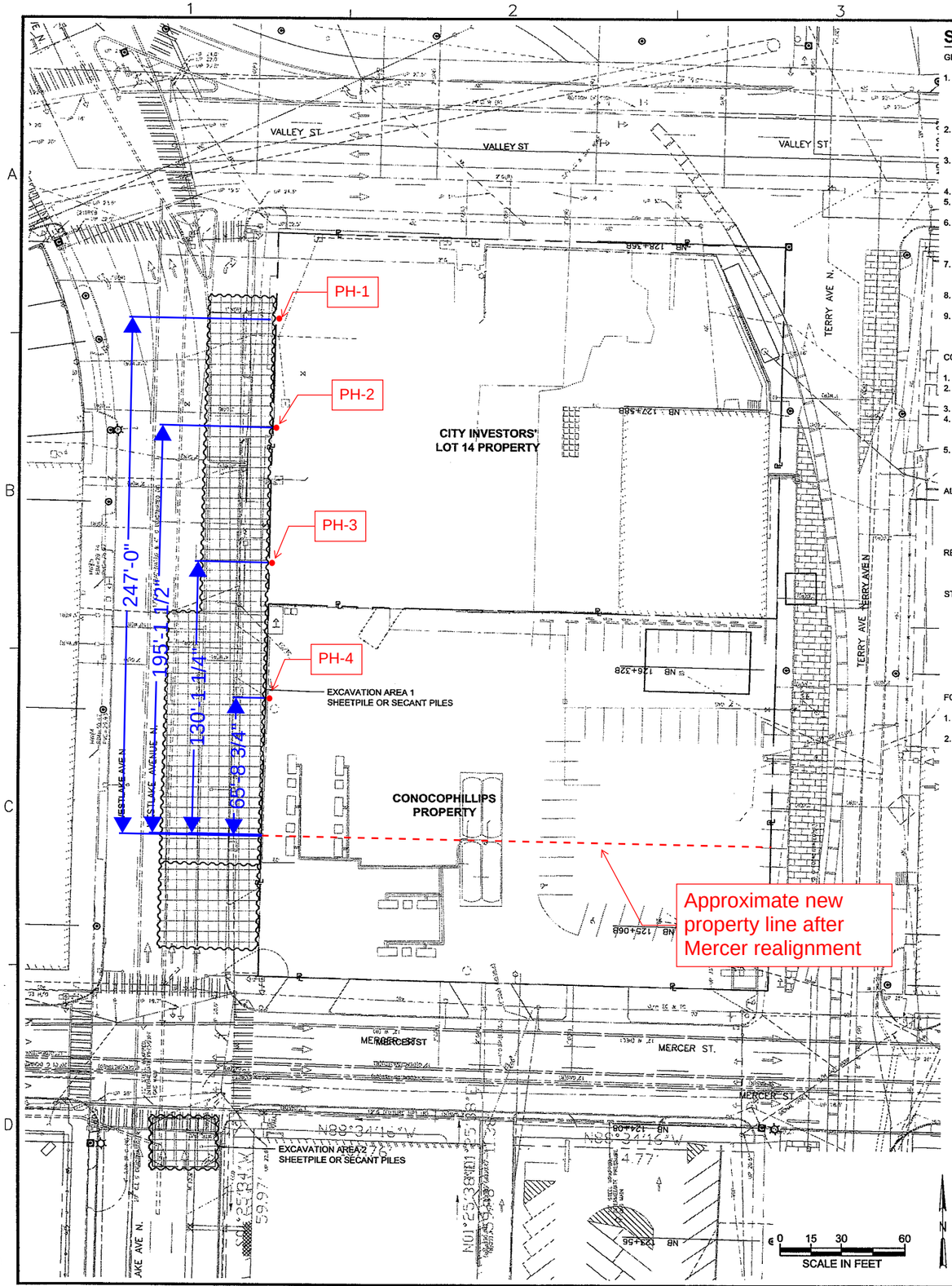
1 - Total measured PVC access tube length
2 - Depth of LITE cable below top of PVC Access Tube
3 - Depth of the inductance sensor below the sheet pile top. See testing report for sheet pile length interpretations.

Appendix C

Access tube locations (as provided to us)

Valley St
Valley St
Roy St
Terry Ave N
Terry Ave N
Westlake Ave N
PH-1
PH-2
PH-3
PH-4
247'-5 3/4"
195'-1 3/4"
130'-8"
65'-3 1/4"
615
965
630
600
607
Mercer St
Mercer St
Mercer St
Google

JAN 26 REC'D



STRUCTURAL NOTES

GENERAL:

1. THE CONTRACTOR SHALL PROVIDE SHOP DRAWINGS BASED ON THIS SET OF SHORING DESIGN DRAWINGS. CHANGES IN ANY STRUCTURAL ELEMENTS AND CONFIGURATIONS SHALL BE REVIEWED, CHECKED, AND APPROVED BY THE ENGINEER PRIOR TO FABRICATION AND/OR USE ON THIS PROJECT.
2. AS A MINIMUM, ERECTION AND CONSTRUCTION PROCEDURES SHALL CONFORM TO THE REQUIREMENTS OF APPLICABLE ORDINANCES, REGULATIONS AND THE PROVISION OF CODES CITED BELOW.
3. ALL EXCAVATION AND SHORING WORK SHALL COMPLY WITH THE RECOMMENDATIONS GIVEN IN THE URS CORPORATION GEOTECHNICAL BASELINE MEMO DATED APRIL 6, 2006.
4. FOR DESIGN PRESSURES, SEE DETAILS 3/C 3.2 AND 4/C 3.2.
5. ALL CONSTRUCTION SHALL BE COORDINATED WITH AND SHALL BE SUBJECT TO THE INSPECTION REQUIREMENTS CITED BELOW.
6. THE CONTRACTOR SHALL COORDINATE ALL DIMENSIONS AND DETAILS BETWEEN THE STRUCTURAL DRAWINGS AND THAT OF OTHER TRADES PRIOR TO COMMENCING WORK. SHOULD THERE BE ANY CONFLICTS, NOTIFY THE ENGINEER FOR CLARIFICATION.
7. EQUIPMENT OR MATERIAL BEING TRANSPORTED TO LOCATION OR TEMPORARILY STORED ADJACENT TO SHORING SHALL NOT EXCEED 600 PSF.
8. THESE GENERAL NOTES ARE TO BE READ IN CONCERT WITH THE SPECIFICATIONS.
9. ANY CONFLICTS BETWEEN THESE NOTES, THE DRAWINGS AND THE SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION.

CODES:

1. CURRENT SEATTLE BUILDING CODE (SBC)
2. ASCE 7-02 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES.
3. AMERICAN CONCRETE INSTITUTE (ACI) 318-02.
4. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS ALLOWABLE STRESS DESIGN 9th EDITION 1989.
5. AMERICAN WELDING SOCIETY (AWS) D1.1, STRUCTURAL WELDING CODE STEEL AND WASHINGTON ASSOCIATION OF BUILDING OFFICIALS (WABO)

ALLOWABLE DESIGN STRESSES:
CONCRETE (28 DAY STRENGTH)
ALL CAST-IN-PLACE CONCRETE UNLESS NOTED OTHERWISE fc'=4,000 PSI
ALL PRECAST CONCRETE fc' = 6,000 PSI

REINFORCEMENT:
REINFORCEMENT BARS (ASTM A615).....FY = 60,000 PSI
WELDED WIRE FABRIC (ASTM A185).....FY = 65,000 PSI

STRUCTURAL STEEL:
STRUCTURAL STEEL (W-SHAPES, ETC.) (ASTM A992).....FY = 50,000 PSI
OTHER STRUCTUAL SHAPES A36).....FY = 36,000 PSI
STEEL TUBING (ASTM A500, GRADE B).....FY = 46,000 PSI
STEEL PIPE (ASTM A53, TYPE E OR S).....FY = 35,000 PSI
STEEL SHEET PILE (ASTM A328 OR EN10248 S270 GP).....FY = 36,000 PSI
WELDING ELECTRODE (E-70XX).....FY = 70,000 PSI

FOUNDATIONS FOR RAKERS (NOT USED UNLESS WITH ENGINEER APPROVAL):

1. SPREAD FOOTING INSTALLATION SHALL BE MONITORED BY THE RESIDENT ENGINEER OR BY A GEOTECHNICAL ENGINEER.
2. MINIMUM ALLOWABLE BEARING PRESSURE REQUIRED SHALL BE AS PER TECHNICAL SPECIFICATIONS, TO BE FIELD VERIFIED.
3. BEAR ALL FOOTINGS ON INORGANIC, UNDISTURBED, DENSE SANDY GRAVEL SOIL OR IN STRUCTURAL FILL AT DEPTHS INDICATED ON DRAWINGS.
4. NO FOOTING SHALL BE PLACED HIGHER THAN 2.0 HORIZONTAL TO 1.0 VERTICAL FROM ANY ADJACENT EXCAVATION.4

STRUCTURAL STEEL:

1. DESIGN FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL BE IN ACCORDANCE WITH THE "MANUAL OF STEEL CONSTRUCTION" OF AMERICAN INSTITUTE OF STEEL CONSTRUCTION, 9TH EDITION, UNLESS OTHERWISE MODIFIED ON THE DRAWINGS OR IN THE SPECIFICATIONS.
2. THE STRUCTURAL STEEL DRAWINGS AND DETAILS REPRESENT THE COMPLETED STRUCTURE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING SHOP OR FIELD WELDING AND SHOP OR FIELD BOLTING OF THE ITEMS SPECIFIED IN THE CONTRACT DOCUMENTS.
3. SHOP CONNECTIONS SHALL BE WELDED OR MADE WITH HIGH STRENGTH BOLTS AS DETERMINED BY THE FABRICATOR UNLESS SHOWN OTHERWISE ON THE DRAWINGS.
4. ALL FIELD CONNECTIONS SHALL BE WELDED OR MADE WITH HIGH STRENGTH BOLTS. HIGH STRENGTH BOLTS SHALL BE BEARING TYPE WITH THREADS INCLUDED IN THE SHEAR PLANE, MINIMUM (2) 3/4" DIAMETER ASTM A325N PER CONNECTION UNLESS NOTED OTHERWISE.
5. SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL BEFORE STARTING FABRICATION.
6. WELDER CERTIFICATION PROCEDURES SHALL BE AS FOLLOWS: ALL WELDERS SHALL BE CURRENTLY QUALIFIED AND REGISTERED BY WABO AND/OR THE AMERICAN WELDING SOCIETY (AWS) AND, IF REQUIRED, ALL WELDERS SHALL HAVE THEIR QUALIFICATION RECORD FURNISHED TO THE ENGINEER. A COPY OF ANY WELDING PROCEDURES NOT PREQUALIFIED BY AWS SHALL BE SUBMITTED FOR REVIEW.
7. EXISTING AND NEW STEEL SURFACES TO BE WELDED SHALL BE CLEANED OF PAINT, GREASE, SCALE, OR OTHER FOREIGN MATERIAL.
8. MINIMUM WELD 3/16" UNO.
9. NO FIELD BURNING OF BOLT HOLES WILL BE ALLOWED. FIELD HOLES SHALL BE DRILLED AND REAMED.
10. STRUCTURAL MEMBERS SHALL BE SPLICED BY FULL PENETRATION WELDS UNLESS SPECIFICALLY NOTED ON DRAWINGS.

SHORING AND EXCAVATION:

1. EXCAVATION SHALL NOT EXCEED 15 FEET IN DEPTH. STEEL SHEET PILES SHALL BE AZ18 OR APPROVED EQUAL AND SHALL HAVE A MINIMUM SECTION MODULUS OF 33.5 CUBIC INCHES PER FOOT. MINIMUM SHEETPILE MOMENT OF INERTIA REQUIRED TO LIMIT DEFLECTION OF 1 INCH IS 132 IN ^{4} PER FOOT.
2. STEEL MEMBER CONNECTION SHALL BE COMPLETE JOINT PENETRATION WELDS UNLESS SPECIFIED OTHERWISE.
3. STRUTS SHALL BE PRELOADED TO 50% OF THE DESIGN STRUT LOAD. THIS PRELOADING VALUE MAY BE ADJUSTED TO REFLECT THE RESULTS OF FIELD MONITORING SETTLEMENT AND DISPLACEMENT.
4. LENGTH OF RAKERS SHALL BE ADJUSTABLE TO PROVIDE EFFECTIVE PRELOADING.
5. VIBRATION DURING SHEETPILE INSTALLATION AND OTHER CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO A SPECIFIED VALUE AS PER TECHNICAL SPECIFICATIONS.
6. THE CONTRACTOR SHALL MAINTAIN AN EFFECTIVE DEWATERING SYSTEM SUCH THAT GROUND WATER LEVEL IN THE EXCAVATION IS AT LEAST 1 FOOT, BUT NOT LOWER THAN 2 FEET, BELOW THE PLANNED EXCAVATION BOTTOM ELEVATION.
7. SHEET PILE SHALL BE INSTALLED WITH MINIMUM EMBEDMENT SHOWN ON C3.4 AND C3.5. THE EMBEDMENT SHOULD INCLUDE 5 FEET MINIMUM INTO NATIVE SOIL OR SIMILAR MATERIAL, AS INDICATED ON PLATES C3.4 AND C3.5, OR AS RECOMMENDED BY THE ENGINEER IN THE FIELD.
8. SHEET PILE SHALL BE CUT OFF 4 FEET BELOW FINAL SURFACE GRADE AFTER ALL CONTAMINATED SOIL HAS BEEN REMOVED AND REPLACED WITH COMPACTED CLEAN MATERIAL. ALL REMOVED SHEET PILES SHALL BECOME THE PROPERTY OF THE PILING CONTRACTOR AND SHALL BE REMOVED FROM THE SITE.

INSPECTION:

1. COPIES OF ALL INSPECTION REPORTS ARE TO BE SENT TO THE ENGINEER OF RECORD.
2. VIBRATION DURING CONSTRUCTION ACTIVITIES SHALL BE MONITORED IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS.
3. GROUND SETTLEMENTS AND DISPLACEMENTS OF SHEETPILE WALLS AND NEARBY STRUCTURES SHALL BE MONITORED IN ACCORDANCE WITH THE FINAL SHORING APPROACH, CONTINGENCY AND MONITORING MEMORANDUM. ADDITIONALLY, BUILDING FACADES SHALL BE MONITORED DAILY DURING CONSTRUCTION.
4. SPECIAL INSPECTION IS REQUIRED BY AN INDEPENDENT TESTING LABORATORY AS APPROVED BY THE OWNER PER IBC2003 FOR THE FOLLOWING ITEMS:

SPECIAL INSPECTION PROGRAM:

ITEM	CONTINUOUS INSPECTION	PERIODIC INSPECTION	COMMENTS
SOIL			
Foundation Excavations, Bearing Strength, Preparation		X	
CONCRETE			
Cast-in-Place Concrete Placement		X	
Embedded Anchor Bolts and Inserts	X		
Placing of Reinforcement		X	
Epoxy Anchor Placement	X		
Expansion Anchor Placement	X		
WELDING			
All Structural Welding, unless listed		X	
Single Pass Fillet Welds < 5/16"		X	
Fillet Welds > 5/16"	X		
Partial/Full Penetration	X		
STRUCTURAL STEEL			
High Strength Bolting	X		
SHEET PILES, GROUND/BUILDING MOVEMENT			
Installation	X		
Vibration Monitoring	X		
Ground/Building Settlement		X	
Building Displacement		X	
Sheet Pile Displacement		X	
BRACING (FRAME, WALES, STRUTS)			
Installation and Preloading	X		
Strut Force		X	

NO.	DATE	BY	REVISION DESCRIPTION
1	6/1/06	PM	FINAL FOR PERMITS

ABBREVIATIONS

%	PERCENT	LOC	LOCATE, LOCATION
&	AND	MAX	MAXIMUM
∠	ANGLE	MFR	MANUFACTURER
@	AT	MIN	MINIMUM
ADD'L	ADDITIONAL	MISC	MISCELLANEOUS
ALT	ALTERNATE	N/A	NOT APPLICABLE
APPROX	APPROXIMATE	NIC	NOT IN CONTRACT
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	NO OR #	NUMBER
		NTS	NOT TO SCALE
ATR	ALL THREADED ROD	OC	ON CENTER
BLDG	BUILDING	OD	OUTSIDE DIAMETER
CIP	CAST IN PLACE	OPP	OPPOSITE
CL OR ℄	CENTERLINE	OSHA	OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION
COL	COLUMN		
COMM	COMMUNICATIONS	PL OR P	PLATE
CONC	CONCRETE	PLF	POUNDS PER LINEAR FOOT
CONT	CONTINUOUS	PROP	PROPOSED
COORD	COORDINATE	PSI	POUNDS PER SQUARE INCH
DEMO	DEMOLISH, DEMOLITION	PSF	POUNDS PER SQUARE FOOT
DEPT	DEPARTMENT	R	RADIUS
DET	DETAIL	RAD	RADIUS
DIA OR Ø	DIAMETER	REF	REFER TO
DIM	DIMENSION	REINF	REINFORCE, REINFORCING
DWG	DRAWING	SCHED	SCHEDULE
EA	EACH	SECT	SECTION
EL	ELEVATION	SF	SQUARE FEET
EOR	ENGINEER OF RECORD	SIM	SIMILAR
EQ	EQUAL	SPECS	SPECIFICATIONS
EXIST	EXISTING	SQ	SQUARE
FDN	FOUNDATION	SS	STAINLESS STEEL/ SANITARY SEWER
FT	FOOT OR FEET		
GS	GROUND SURFACE	STD	STANDARD
GEN	GENERAL	STRUCT	STRUCTURE
HOR	HORIZONTAL	SYM	SYMMETRICAL
HR	HOUR	TBD	TO BE DETERMINED
HT	HEIGHT	TOC	TOP OF CONCRETE
IBC	INTERNATIONAL BUILDING CODE	TOS	TOP OF STEEL
ID	INSIDE DIAMETER	TOW	TOP OF WALL
IN	INCH, INCHES	TYP	TYPICAL
INT	INTERIOR	UL	UNDERWRITERS LABORATORY
JT	JOINT	UNO	UNLESS NOTED OTHERWISE
K	KIP	VERT	VERTICAL
LF	LINEAR FEET	W/	WITH
LLH	LONG LEG HORIZONTAL	W/O	WITHOUT
LLV	LONG LEG VERTICAL	WABO	WASHINGTON ASSOCIATION OF BUILDING OFFICIALS

LEGEND

- PROPERTY LINE
- PAVEMENT SAWCUT LINE
- SHEET PILE SHORING
- PROPOSED EXCAVATION AREA

FINAL PERMIT SUBMITTAL

NAME OR INITIALS AND DATE	INITIALS AND DATE
DESIGNED	REVIEWED: DES. SPU CONST. SDOT. PROJ. MGR.
CHECKED	
DRAWN	RECEIVED
CHECKED	REVISED AS BUILT

ALL WORK DONE IN ACCORDANCE WITH THE CITY OF SEATTLE STANDARD PLANS AND SPECIFICATIONS AND OTHER DOCUMENTS CALLED FOR IN SECTION 0-02.3 OF THE PROJECT MANUAL.

CHARLES I. DINSMORE — STATE OF WASHINGTON — 18255 — REGISTERED PROFESSIONAL ENGINEER
EXPIRES: 06/19/

WESTLAKE/MERCER CLEANUP PROJECT
SEATTLE, WASHINGTON

GENERAL NOTES AND SHEET PILE SHORING PLAN

DESIGNED: VCV
DRAWN: JK
CHECKED: SR
PROJECT ENGINEER: PM
APPROVED BY: CD
DATE: 6/1/06

URS

SIZE: D | PLATE: C 3.1
SHEET: 22 OF 47

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JAN 26 REC'D

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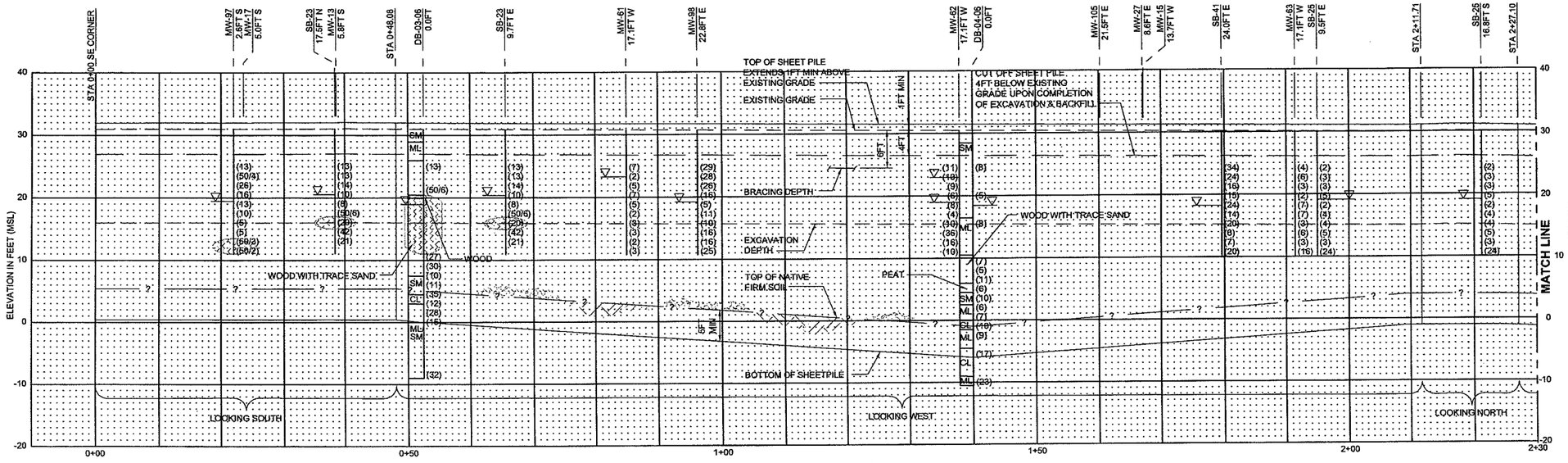


LEGEND

(20) STANDARD PENETRATION TEST "N" VALUE, BLOWS PER FOOT

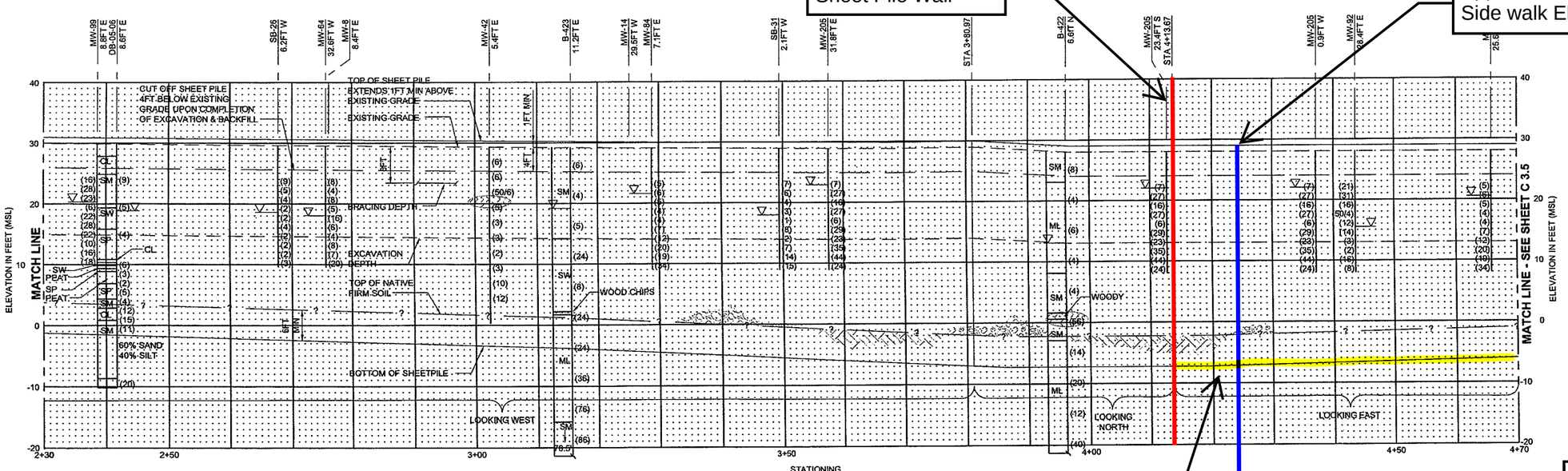
FILL - SILTY SAND, SAND, SILT TO SILTY CLAY, SAND WITH CLAY, SANDY GRAVEL, AND OCCASIONALLY THIN LAYER (.5FT TO 2FT) OF PEAT/CLAY, MAY INCLUDE SOFT OR LOOSE UNCONSOLIDATED NATIVE SOIL

NATIVE FIRM SOIL - STIFF TO HARD, FINE TO COARSE, SANDY TO CLAYEY SILT WITH SOME SAND LAYERS

WOOD OR WOOD CHIPS THAT SIGNIFICANTLY AFFECT BLOW COUNT (SEE BORING LOGS)

NOTE

1. POSITION OF WALES AND STRUTS NOT SHOWN FOR CLARITY.



North Terminus of Sheet Pile Wall

Approximate PH-1 Boring Side walk Elev. ~29'

Design Bottom of Sheet Pile

ALONG SHORING WALL

PROFILE

0 10 20

SCALE IN FEET

FINAL PERMIT SUBMITTAL

NAME OR INITIALS AND DATE	INITIALS AND DATE
DESIGNED	REVIEWED:
CHECKED	DES. SPU CONST.
	SDOT. PROJ. MGR.
DRAWN	RECEIVED
CHECKED	REVISED AS BUILT

ALL WORK DONE IN ACCORDANCE WITH THE CITY OF SEATTLE STANDARD PLANS AND SPECIFICATIONS AND OTHER DOCUMENTS CALLED FOR IN SECTION 0-02.3 OF THE PROJECT MANUAL.

DANIEL J. RANK STATE OF WASHINGTON 36277 REGISTERED PROFESSIONAL ENGINEER

EXPIRES:

WESTLAKE/MERCER CLEANUP PROJECT
SEATTLE, WASHINGTON

SHORING WALL PROFILE

		SIZE	PLATE:
DESIGNED: VCV	URS	D	C 3.4
DRAWN: JK			
CHECKED: MM		SHEET:	
PROJECT ENGINEER: PM		25 OF 47	
APPROVED BY: DJH			
DATE: 6/1/06			

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JAN 26 REC'D

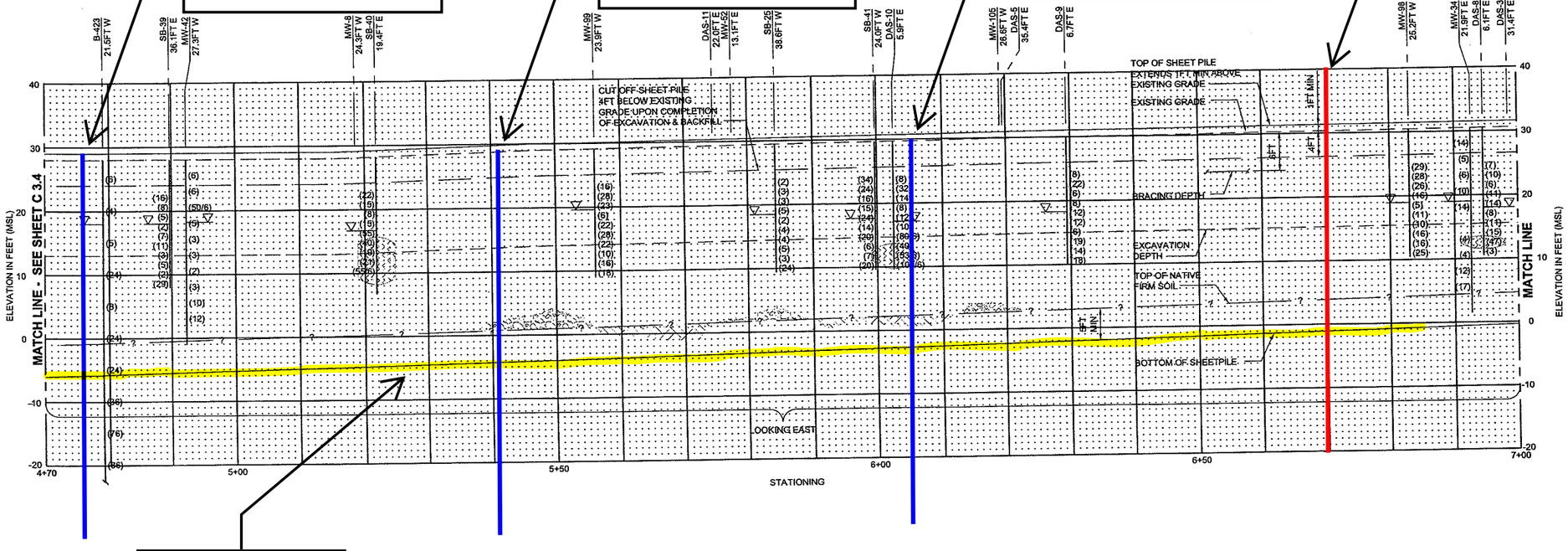
NO.	DATE	BY	REVISION DESCRIPTION
1	6/1/06	PM	FINAL FOR PERMITS

Approximate PH-2 Boring
Side walk Elev. ~29'

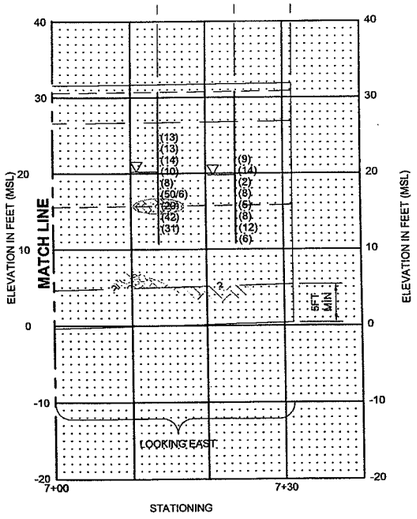
Approximate PH-3 Boring
Side walk Elev. ~29.5'

Approximate PH-4 Boring
Side walk Elev. ~30'

Southern End of
West Property Line



Design Bottom of
Sheet Pile



ALONG SHORING WALL
PROFILE
0 10 20
SCALE IN FEET

LEGEND

(20) STANDARD PENETRATION TEST "N" VALUE, BLOWS PER FOOT

FILL - SILTY SAND, SAND, SILT TO SILTY CLAY, SAND WITH CLAY, SANDY GRAVEL, AND OCCASIONALLY THIN LAYER (.5FT TO 2FT) OF PEAT/CLAY, MAY INCLUDE SOFT OR LOOSE UNCONSOLIDATED NATIVE SOIL

NATIVE FIRM SOIL - STIFF TO HARD, FINE TO COARSE, SANDY TO CLAYEY SILT WITH SOME SAND LAYERS

WOOD OR WOOD CHIPS THAT SIGNIFICANTLY AFFECT BLOW COUNT (SEE BORING LOGS)

NOTE

1. POSITION OF WALES AND STRUTS NOT SHOWN FOR CLARITY.

FINAL PERMIT SUBMITTAL

NAME OR INITIALS AND DATE	INITIALS AND DATE
DESIGNED	REVIEWED: DES. SPU CONST.
CHECKED	SDOT. PROJ. MGR.
DRAWN	RECEIVED
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DANIEL J. HAWK STATE OF WASHINGTON 36277 REGISTERED PROFESSIONAL ENGINEER
EXPIRES:

WESTLAKE/MERCER CLEANUP PROJECT
SEATTLE, WASHINGTON

SHORING WALL PROFILE

DESIGNED: VCV
DRAWN: JK
CHECKED: MM
PROJECT ENGINEER: PM
APPROVED BY: DJH
DATE: 6/1/06

URS

SIZE: D | PLATE: C 3.5
SHEET: 26 OF 47

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APPENDIX B
Boring Logs

SOIL CLASSIFICATION CHART

MAJOR DIVISIONS			SYMBOLS GRAPH	SYMBOLS LETTER	TYPICAL DESCRIPTIONS
COARSE GRAINED SOILS	GRAVEL AND GRAVELLY SOILS	CLEAN GRAVELS (LITTLE OR NO FINES)		GW	WELL-GRADED GRAVELS, GRAVEL - SAND MIXTURES
				GP	POORLY-GRADED GRAVELS, GRAVEL - SAND MIXTURES
	MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVELS WITH FINES (APPRECIABLE AMOUNT OF FINES)		GM	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES
				GC	CLAYEY GRAVELS, GRAVEL - SAND - CLAY MIXTURES
MORE THAN 50% RETAINED ON NO. 200 SIEVE	SAND AND SANDY SOILS	CLEAN SANDS (LITTLE OR NO FINES)		SW	WELL-GRADED SANDS, GRAVELLY SANDS
				SP	POORLY-GRADED SANDS, GRAVELLY SAND
	MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE	SANDS WITH FINES (APPRECIABLE AMOUNT OF FINES)		SM	SILTY SANDS, SAND - SILT MIXTURES
				SC	CLAYEY SANDS, SAND - CLAY MIXTURES
FINE GRAINED SOILS	SILTS AND CLAYS	LIQUID LIMIT LESS THAN 50		ML	INORGANIC SILTS, ROCK FLOUR, CLAYEY SILTS WITH SLIGHT PLASTICITY
				CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
				OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
MORE THAN 50% PASSING NO. 200 SIEVE	SILTS AND CLAYS	LIQUID LIMIT GREATER THAN 50		MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS SILTY SOILS
				CH	INORGANIC CLAYS OF HIGH PLASTICITY
				OH	ORGANIC CLAYS AND SILTS OF MEDIUM TO HIGH PLASTICITY
HIGHLY ORGANIC SOILS				PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS

NOTE: Multiple symbols are used to indicate borderline or dual soil classifications

ADDITIONAL MATERIAL SYMBOLS

SYMBOLS GRAPH	SYMBOLS LETTER	TYPICAL DESCRIPTIONS
	AC	Asphalt Concrete
	CC	Cement Concrete
	CR	Crushed Rock/ Quarry Spalls
	SOD	Sod/Forest Duff
	TS	Topsoil

Groundwater Contact

Measured groundwater level in exploration, well, or piezometer

Measured free product in well or piezometer

Graphic Log Contact

Distinct contact between soil strata

Approximate contact between soil strata

Material Description Contact

Contact between geologic units

Contact between soil of the same geologic unit

Sampler Symbol Descriptions

2.4-inch I.D. split barrel

Standard Penetration Test (SPT)

Shelby tube

Piston

Direct-Push

Bulk or grab

Continuous Coring

Blowcount is recorded for driven samplers as the number of blows required to advance sampler 12 inches (or distance noted). See exploration log for hammer weight and drop.

"P" indicates sampler pushed using the weight of the drill rig.

"WOH" indicates sampler pushed using the weight of the hammer.

Laboratory / Field Tests

%F	Percent fines
%G	Percent gravel
AL	Atterberg limits
CA	Chemical analysis
CP	Laboratory compaction test
CS	Consolidation test
DD	Dry density
DS	Direct shear
HA	Hydrometer analysis
MC	Moisture content
MD	Moisture content and dry density
Mohs	Mohs hardness scale
OC	Organic content
PM	Permeability or hydraulic conductivity
PI	Plasticity index
PL	Point load test
PP	Pocket penetrometer
SA	Sieve analysis
TX	Triaxial compression
UC	Unconfined compression
VS	Vane shear

Sheen Classification

NS	No Visible Sheen
SS	Slight Sheen
MS	Moderate Sheen
HS	Heavy Sheen

NOTE: The reader must refer to the discussion in the report text and the logs of explorations for a proper understanding of subsurface conditions. Descriptions on the logs apply only at the specific exploration locations and at the time the explorations were made; they are not warranted to be representative of subsurface conditions at other locations or times.

Key to Exploration Logs

GeoEngineers

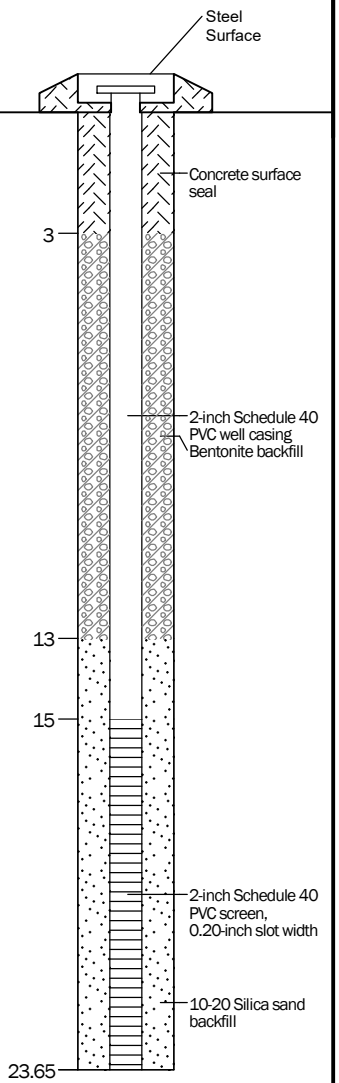
Figure A-1

Drilled Start 3/16/2021 End 3/16/2021	Total Depth (ft) 76.5	Logged By BJA Checked By KMS	Driller Geologic Drill Partners	Drilling Method Hollow-stem Auger	
Hammer Data: Rope & Cathead 140 (lbs) / 30 (in) Drop		Drilling Equipment: Deep Rock XL Trailer Rig		DOE Well I.D.: BLY-118 Ecology A 2-in well was installed on 3/16/2021 to a depth of 23.65 ft. Well was developed on 3/16/2021.	
Surface Elevation (ft) Vertical Datum: 27.18 NAVD88		Top of Casing Elevation (ft): 26.78		Groundwater	Depth to Water (ft) / Elevation (ft)
Easting (X) 1269453 Northing (Y) 231815		Horizontal Datum: WA State Plane North NAD83 (feet)		Date Measured: 4/1/2021	12.09 / 14.69

Notes: Monitoring well installed in a separate borehole adjacent to B-37-3

Elevation (feet)	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Moisture Content (%)	Fines Content (%)
	0							AC	2 inches asphalt		
25		6			1			SM	Brown silty fine to medium sand with gravel (loose to medium dense, moist) (fill)		
	5	12	14		2 %F			SP-SM	Brown fine to medium sand with silt and occasional gravel (medium dense, moist)	9	12
20											
	10	12	4		3	▽		SP-SM	Brown fine to medium sand with silt (very loose to loose, moist)		
15											
	15	11	9		4 %F			SM	Brown silty fine sand with occasional gravel (loose, moist)	21	44
10								SM	Brown silty fine to medium sand, wood waste (medium dense, moist)		
	20	6	10		5			SP	Gray fine to medium sand with occasional gravel (very loose, wet) (recent deposits)		
5											
	25	17	3		6 %F					19	4
0											
	30										

WELL LOG



Note: See Figure A-1 for explanation of symbols.
Coordinates Data Source: Horizontal approximated based on field measurements. Vertical approximated based on site survey.

Log of Boring with Monitoring Well B-37-3

GeoEngineers

Project: Block 37
Project Location: Seattle, Washington
Project Number: 7087-027-07

Figure A-4
Sheet 1 of 3

Elevation (feet)	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Moisture Content (%)	Fines Content (%)	WELL LOG
	30	18	37		7			SM	Gray silty fine to medium sand (dense, wet)			
								WD	3 inches wood debris at 30½ feet			
-5								SM	Gray silty fine to medium sand (dense, wet)			
	35	18	16		8 %F			ML	Gray silt, sand interbeds (stiff to very stiff, wet)	29	65	
-10												
	40	18	21		9			SP-SM	Gray fine to medium sand with silt, interbedded silt layers (medium dense, wet)			
-15								SP-SM	Gray fine to medium sand with silt (very dense to dense, wet) (glacially consolidated soils)			
	45	16	70		10 %F					17	9	
-20												
	50	18	58		11				(Mud added at 50 feet due to heave)			
-25												
	55	11	50/5"		12				(Driller added mud)			
-30												
	60	7	56		13				(Driller added mud)			
-35												
	65	10			14				(Driller added mud, couldn't control heave)			
-40												

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Log of Boring with Monitoring Well B-37-3 (continued)

GeoEngineers

Project: Block 37
Project Location: Seattle, Washington
Project Number: 7087-027-07

Figure A-4
Sheet 2 of 3

Elevation (feet)	Depth (feet)	FIELD DATA: Interval Recovered (in)	FIELD DATA: Blows/foot	FIELD DATA: Collected Sample	FIELD DATA: Sample Name Testing	FIELD DATA: Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Moisture Content (%)	Fines Content (%)	WELL LOG
45	70	9	61		15				(Driller added mud)			
	75	15	44		16				(Driller added mud)			

Log of Boring with Monitoring Well B-37-3 (continued)

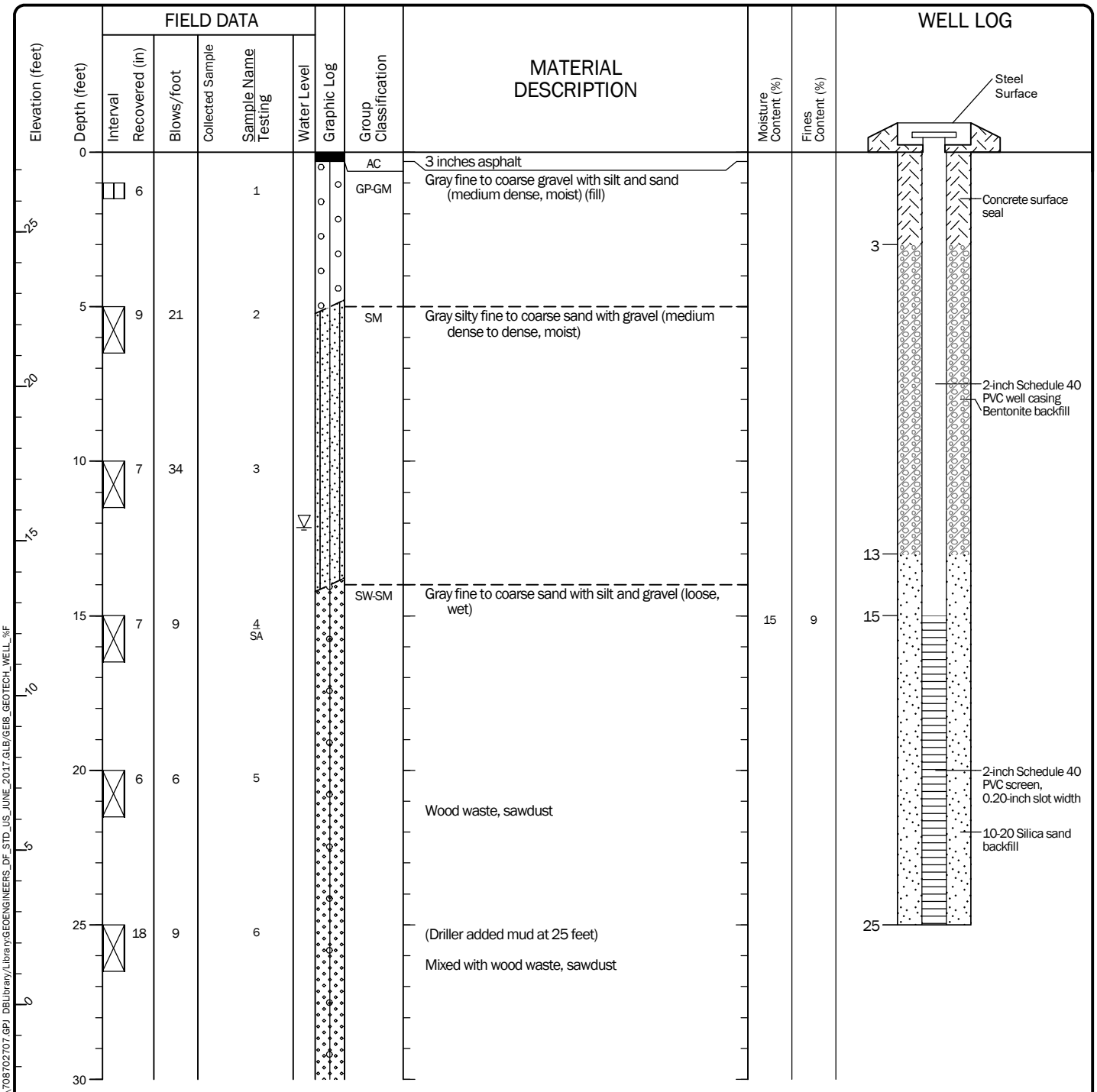
GeoEngineers

Project: Block 37
Project Location: Seattle, Washington
Project Number: 7087-027-07

Figure A-4
Sheet 3 of 3

Drilled Start 3/17/2021 End 3/17/2021	Total Depth (ft) 76.5	Logged By BJA / Checked By KMS	Driller Geologic Drill Partners	Drilling Method Hollow-stem Auger	
Hammer Data: Rope & Cathead, 140 (lbs) / 30 (in) Drop		Drilling Equipment: Deep Rock XL Trailer Rig		DOE Well I.D.: BLY-117 Ecology A 2-in well was installed on 3/17/2021 to a depth of 25 ft. Well was developed on 3/17/2021.	
Surface Elevation (ft) Vertical Datum: 27.58 NAVD88		Top of Casing Elevation (ft): 27.20		Groundwater	Depth to Water (ft) / Elevation (ft)
Easting (X) 1269551 Northing (Y) 231812		Horizontal Datum: WA State Plane North NAD83 (feet)		Date Measured: 4/1/2021	12.14 / 15.06

Notes: Monitoring well installed in a separate borehole adjacent to B-37-4



Note: See Figure A-1 for explanation of symbols.
Coordinates Data Source: Horizontal approximated based on field measurements. Vertical approximated based on site survey.

Log of Boring with Monitoring Well B-37-4

GeoEngineers

Project: Block 37
Project Location: Seattle, Washington
Project Number: 7087-027-07

Figure A-5
Sheet 1 of 3

Depth (feet)	Elevation (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Moisture Content (%)	Fines Content (%)	WELL LOG
30		10	18		7 %F					26	66	
								ML	Gray sandy silt, horizontal bedding (very stiff, wet) (recent deposits)			
35	-5	7	47		8 %F			SM	Gray silty fine sand (dense, wet) (glacially consolidated soils)	21	41	
40	-10	12	50/6"		9 %F			SP	Gray fine to medium sand (dense to very dense, wet)	17	3	
45	-15	18	34		10							
50	-20	12	42		11							
55	-25	12	50/6"		12							
60	-30	13	38		13							
65	-35	14	21*		14 %F				Becomes with gravel (*Blowcount not representative due to heave)	13	3	

FIELD DATA

Date:6/10/21 Path:P:\7\7087027\GINT\708702707.GPJ DBLibrary/Library:GEOENGINEERS_DF_STD_US_JUNE_2017.GLB/GEI8_GEOTECH_WELL_%F

Log of Boring with Monitoring Well B-37-4 (continued)

GeoEngineers

Project: Block 37
Project Location: Seattle, Washington
Project Number: 7087-027-07

Figure A-5
Sheet 2 of 3

Elevation (feet)	Depth (feet)	FIELD DATA: Interval Recovered (in)	FIELD DATA: Blows/foot	FIELD DATA: Collected Sample	FIELD DATA: Sample Name Testing	FIELD DATA: Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Moisture Content (%)	Fines Content (%)	WELL LOG
45	70	12	54		15							
	75	18	22*		16				(*Blowcount not representative due to heave)			

Log of Boring with Monitoring Well B-37-4 (continued)

GeoEngineers

Project: Block 37
Project Location: Seattle, Washington
Project Number: 7087-027-07

Figure A-5
Sheet 3 of 3

Drilled	Start	End	Total Depth (ft)	Logged By	Checked By	Driller	Drilling Method
	3/18/2021	3/19/2021	42	BJA	KMS	Geologic Drill Partners	Hollow-stem Auger

Hammer Data	Rope & Cathead 140 (lbs) / 30 (in) Drop	Drilling Equipment	Deep Rock XL Trailer Rig
Surface Elevation (ft) Vertical Datum	28.02 NAVD88	Top of Casing Elevation (ft)	27.55
Easting (X) Northing (Y)	1269447 231716	Horizontal Datum	WA State Plane North NAD83 (feet)

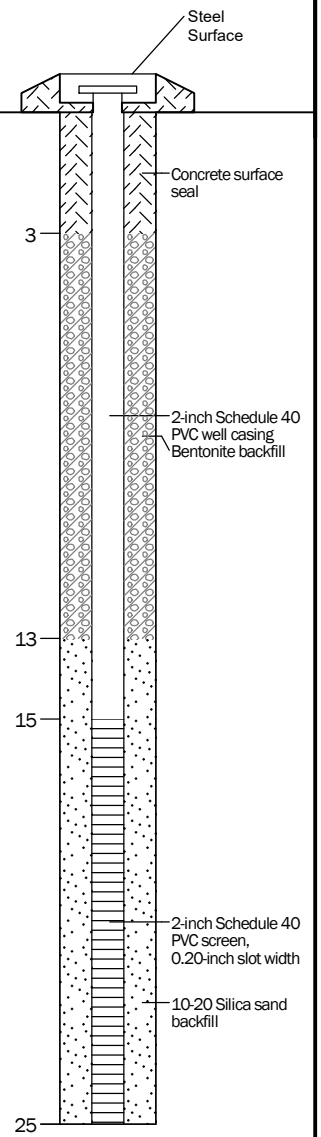
DOE Well I.D.: BLY-115 Ecology
A 2-in well was installed on 3/18/2021 to a depth of 25 ft.
Well was developed on 3/18/2021.

Groundwater Date Measured	Depth to Water (ft)	Elevation (ft)
4/1/2021	12.52	15.03

Notes:

Elevation (feet)	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Moisture Content (%)	Fines Content (%)
	0							AC	3 inches asphalt		
		6			1			GP-GM	Gray fine to coarse gravel with silt and sand (medium dense, moist) (fill)		
	5	12	55		2			SP-SM	Brown fine to medium sand with silt and gravel (very dense, moist)		
	10	13	57		3 %F	▽				10	11
									Becomes moist to wet		
	15	12	25		4 %F					15	12
	20	18	20		5			SM	Gray fine to coarse silty sand with occasional gravel, bricks, occasional wood waste (medium dense, wet)		
								SP/ML	Gray silty fine to medium sand, occasional gravel mixed with gray silt, occasional brick fragments (medium dense, wet)		
	25	18	20		6						
	30										

WELL LOG



Note: See Figure A-1 for explanation of symbols.
Coordinates Data Source: Horizontal approximated based on field measurements. Vertical approximated based on site survey.

Log of Boring with Monitoring Well B-37-5

GeoEngineers

Project: Block 37
Project Location: Seattle, Washington
Project Number: 7087-027-07

Figure A-6
Sheet 1 of 2

Elevation (feet)	Depth (feet)	Interval	Recovered (in)	Blows/foot	Collected Sample	Sample Name / Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Moisture Content (%)	Fines Content (%)
	30		18	15		7 / %F			ML-CL	Gray clayey sandy silt, some plasticity (stiff, wet) (recent deposits)	29	65
-5												
	35		18	30		8 / %F			ML	Gray sandy silt with occasional gravel (very stiff, wet) (glacially consolidated soils)	20	57
-10												
	40		18	64		9 / %F			SM	Gray silty fine to medium sand with occasional gravel (very dense, wet)	16	14

WELL LOG

Log of Boring with Monitoring Well B-37-5 (continued)

GeoEngineers

Project: Block 37
Project Location: Seattle, Washington
Project Number: 7087-027-07

Figure A-6
Sheet 2 of 2

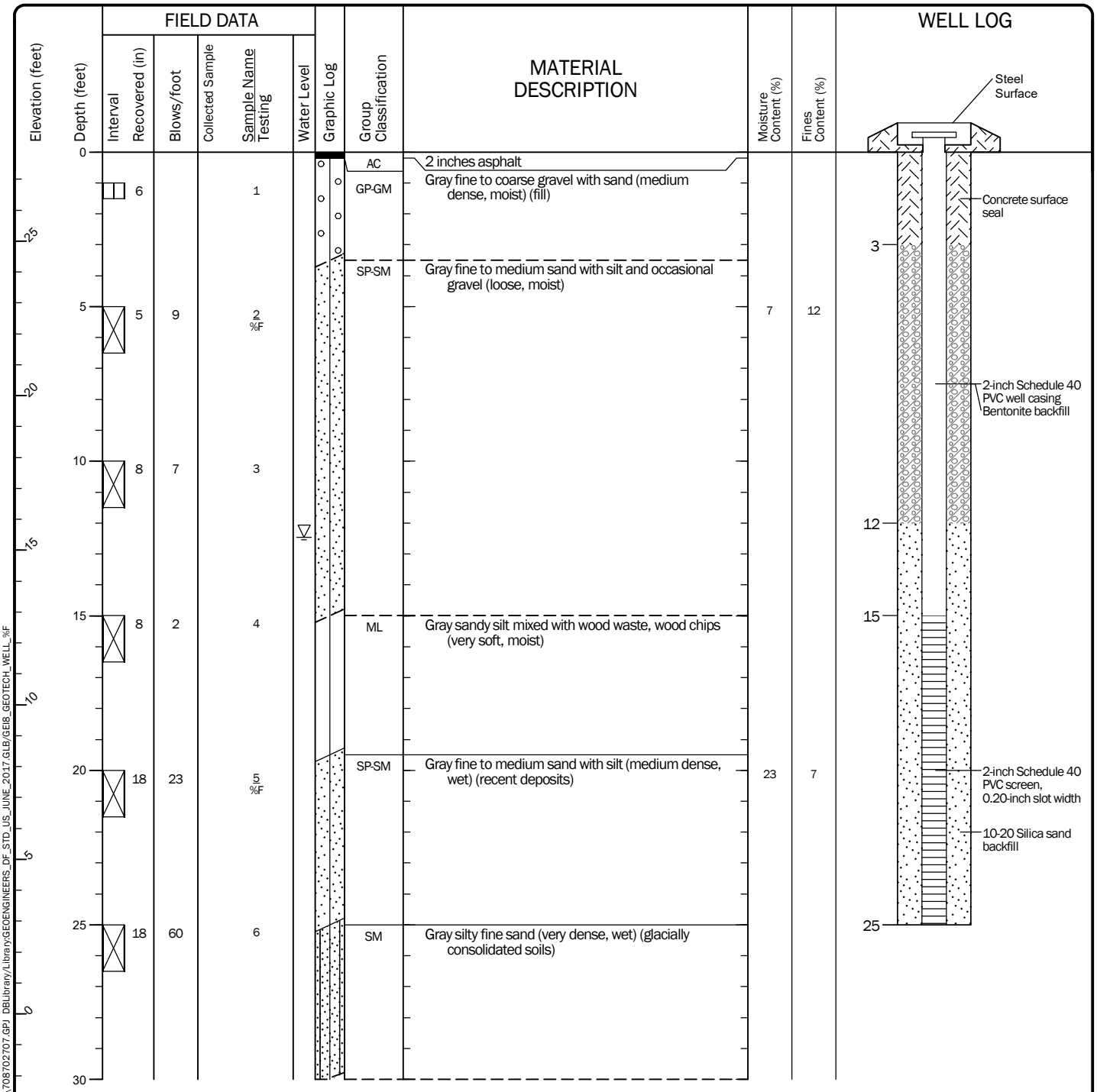
Drilled	Start	End	Total Depth (ft)	Logged By	Checked By	Driller	Drilling Method
	3/19/2021	3/18/2021	76.5	BJA	KMS	Geologic Drill Partners	Hollow-stem Auger

Hammer Data	Rope & Cathead 140 (lbs) / 30 (in) Drop	Drilling Equipment	Deep Rock XL Trailer Rig
Surface Elevation (ft) Vertical Datum	27.88 NAVD88	Top of Casing Elevation (ft)	27.54
Easting (X) Northing (Y)	1269565 231719	Horizontal Datum	WA State Plane North NAD83 (feet)

DOE Well I.D.: BLY-116 Ecology
A 2-in well was installed on 3/18/2021 to a depth of 24 ft.
Well was developed on 3/18/2021.

Groundwater Date Measured	Depth to Water (ft)	Elevation (ft)
4/1/2021	12.47	15.07

Notes: Monitoring well installed in a separate borehole adjacent to B-37-6



Note: See Figure A-1 for explanation of symbols.
Coordinates Data Source: Horizontal approximated based on field measurements. Vertical approximated based on site survey.

Date:6/10/21 Path:P:\7\7087027\GINT\708702707.GPJ DBLibrary/Library:GEOENGINEERS_DF_STD_US_JUNE_2017.GLB/GEI8_GEOTECH_WELL_%F

Log of Boring with Monitoring Well B-37-6

GeoEngineers

Project: Block 37
Project Location: Seattle, Washington
Project Number: 7087-027-07

Figure A-7
Sheet 1 of 3

Elevation (feet)	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Moisture Content (%)	Fines Content (%)	WELL LOG
	30	18	31		7 AL			CL	Gray lean clay (very stiff to hard, wet) AL (LL = 44; PI = 22)	57		
-5	35	17	33		8 %F					30	89	
-10	40	10	61		9			SM	Gray silty fine sand with occasional gravel, interbedded silt layers (very dense, wet)			
-15	45	3	50/3"		10							
-20	50	17	83		11 %F			SP-SM	Gray fine to medium sand with silt (very dense, moist)	18	8	
-25	55	6	50/6"		12							
-30	60	8	50/4"		13 %F					16	10	
-35	65	11	50/5"		14							

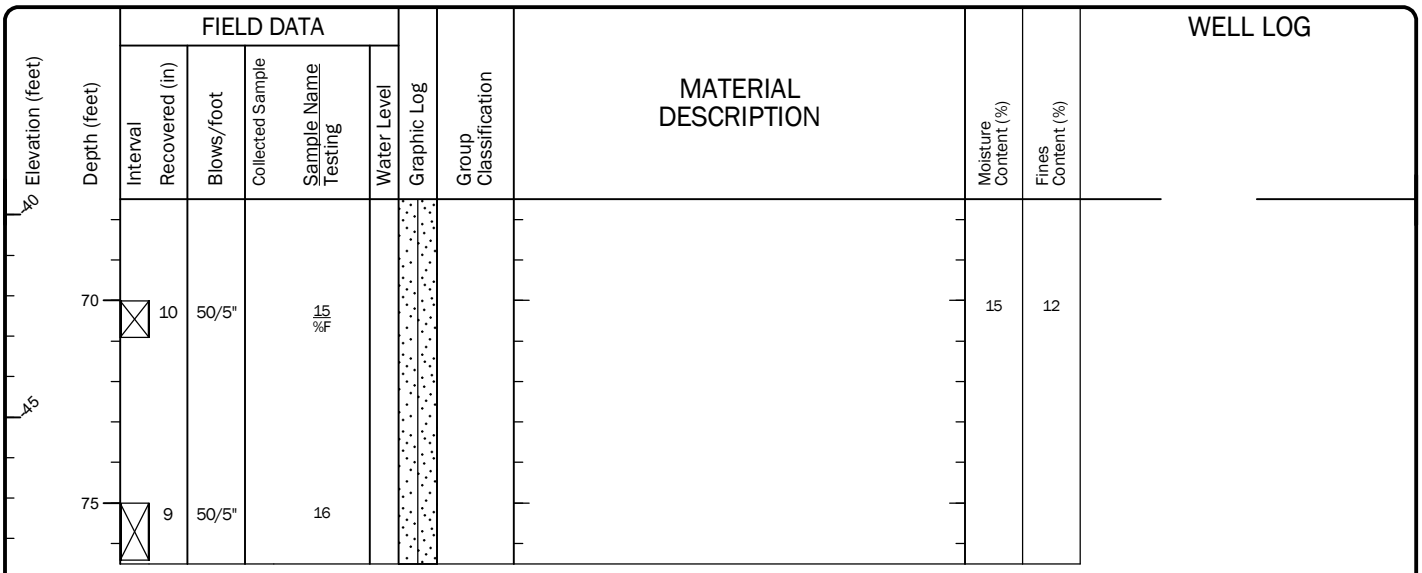
Date:6/10/21 Path:P:\7\7087027\GINT\708702707.GPJ DBLibrary/Library:GEOENGINEERS_DF_STD_US_JUNE_2017.GLB/GEI8_GEOTECH_WELL_%F

Log of Boring with Monitoring Well B-37-6 (continued)

GeoEngineers

Project: Block 37
Project Location: Seattle, Washington
Project Number: 7087-027-07

Figure A-7
Sheet 2 of 3



Log of Boring with Monitoring Well B-37-6 (continued)

GeoEngineers

Project: Block 37
Project Location: Seattle, Washington
Project Number: 7087-027-07

Figure A-7
Sheet 3 of 3

Drilled	Start	End	Total Depth (ft)	Logged By	Checked By	Driller	Drilling Method
	5/6/2021	5/6/2021	41.5	SLG	CRG	Geologic Drill Partners	Hollow-stem Auger

Hammer Data	Rope & Cathead 140 (lbs) / 30 (in) Drop	Drilling Equipment	Bobcat Mini Track
Surface Elevation (ft) Vertical Datum	30.37 NAVD88	Top of Casing Elevation (ft)	29.71
Easting (X) Northing (Y)	1269341 231559	Horizontal Datum	WA State Plane North NAD83 (feet)

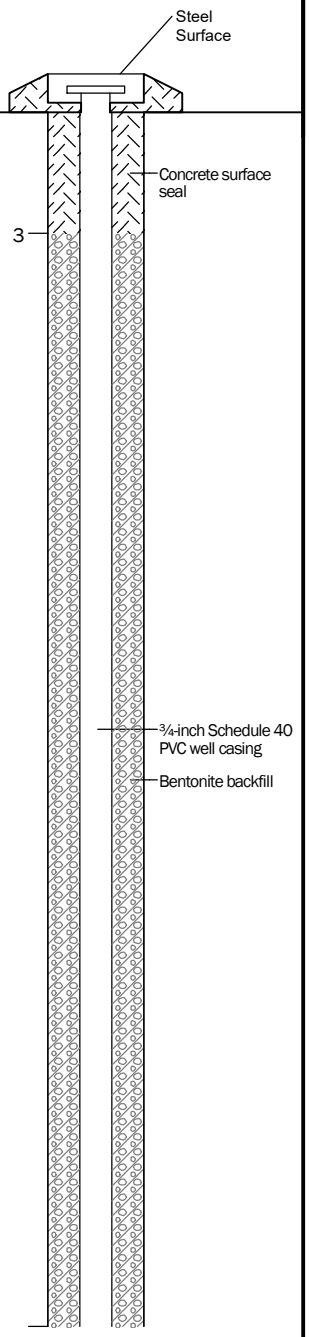
A 0.75-in well was installed on 5/6/2021 to a depth of 40.5 ft.

Groundwater Date Measured	Depth to Water (ft)	Elevation (ft)
5/6/2021	20.00	10.37

Notes:

Elevation (feet)	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Moisture Content (%)	Fines Content (%)
30	0							SM	Gray silty fine to medium sand with gravel (medium dense, moist) (fill)		
25	5	2	16		1						
20	10							SP-SM	Gray fine to medium sand with silt (medium dense, moist)	12	9
		6	10		2 %F						
15	15							SM	Gray silty fine to medium sand with occasional gravel (loose, moist)		
10	20	0	8		3 4	▼			Wood waste		
		8	5		5 AL			CL	Gray lean clay (medium stiff, wet) (recent deposits) AL (LL = 46; PI = 21)	56	
5	25										
		12	8		6 %F			ML	Gray silt with fine sand and occasional gravel (stiff, wet)	26	79
	30										

WELL LOG



Note: See Figure A-1 for explanation of symbols.
Coordinates Data Source: Horizontal approximated based on Aerial Imagery. Vertical approximated based on Topographic Survey.

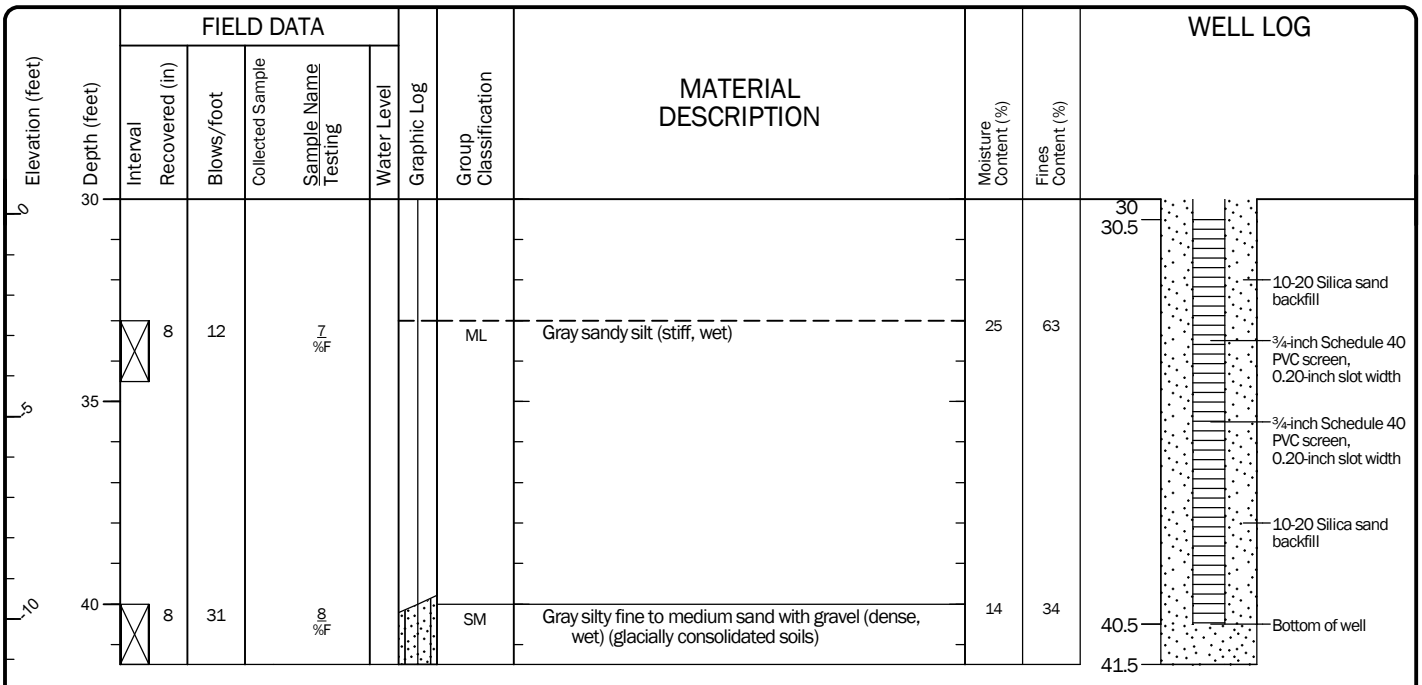
Date:6/10/21 Path:P:\7\7087027\GINT\708702707.GPJ DBLibrary/Library:GEOENGINEERS_DF_STD_US_JUNE_2017.GLB/GEI8_GEOTECH_WELL_%F

Log of Boring with Monitoring Well B-37-7

GeoEngineers

Project: Block 37
Project Location: Seattle, Washington
Project Number: 7087-027-07

Figure A-8
Sheet 1 of 2



Log of Boring with Monitoring Well B-37-7 (continued)

GeoEngineers

Project: Block 37
Project Location: Seattle, Washington
Project Number: 7087-027-07

Figure A-8
Sheet 2 of 2

Drilled	Start	End	Total Depth (ft)	Logged By	Checked By	Driller	Drilling Method
	5/5/2021	5/5/2021	41.5	SLG	CRG	Geologic Drill Partners	Hollow-stem Auger

Hammer Data	Rope & Cathead 140 (lbs) / 30 (in) Drop	Drilling Equipment	Bobcat Mini Track
Surface Elevation (ft) Vertical Datum	30.42 NAVD88	Top of Casing Elevation (ft)	29.94
Easting (X) Northing (Y)	1269448 231559	Horizontal Datum	WA State Plane North NAD83 (feet)

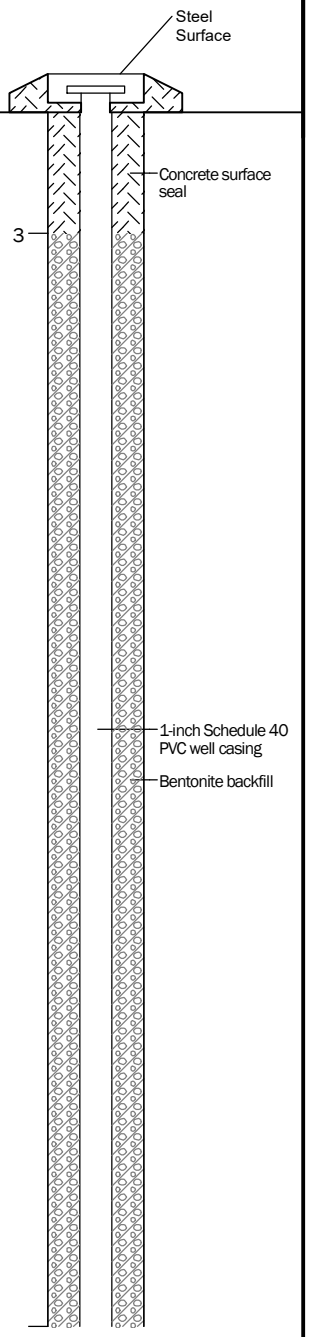
A 1-in well was installed on 5/5/2021 to a depth of 40.5 ft.

Groundwater Date Measured	Depth to Water (ft)	Elevation (ft)
5/5/2021	18.50	11.92

Notes:

Elevation (feet)	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Moisture Content (%)	Fines Content (%)
30	0							SP-SM	Brown fine to medium sand with silt and occasional gravel (medium dense, moist) (fill)		
25	5	12	15		1						
20	10										
		8	37		2			SP-SM	Brown fine to medium sand with occasional gravel (dense, moist)		
15	15										
		6	6		3	▼		WD	Wood waste/sawdust with interbedded sand layer		
10	20										
		10	10		4			SP-SM	Gray silty fine to medium sand (medium dense, wet)		
					5 %F			ML	Gray silt with trace fine sand (stiff, wet) (recent deposits)	32	91
5	25										
		4	37		6			SM	Gray silty fine to medium sand (dense, wet) (glacially consolidated soils)		
	30										

WELL LOG



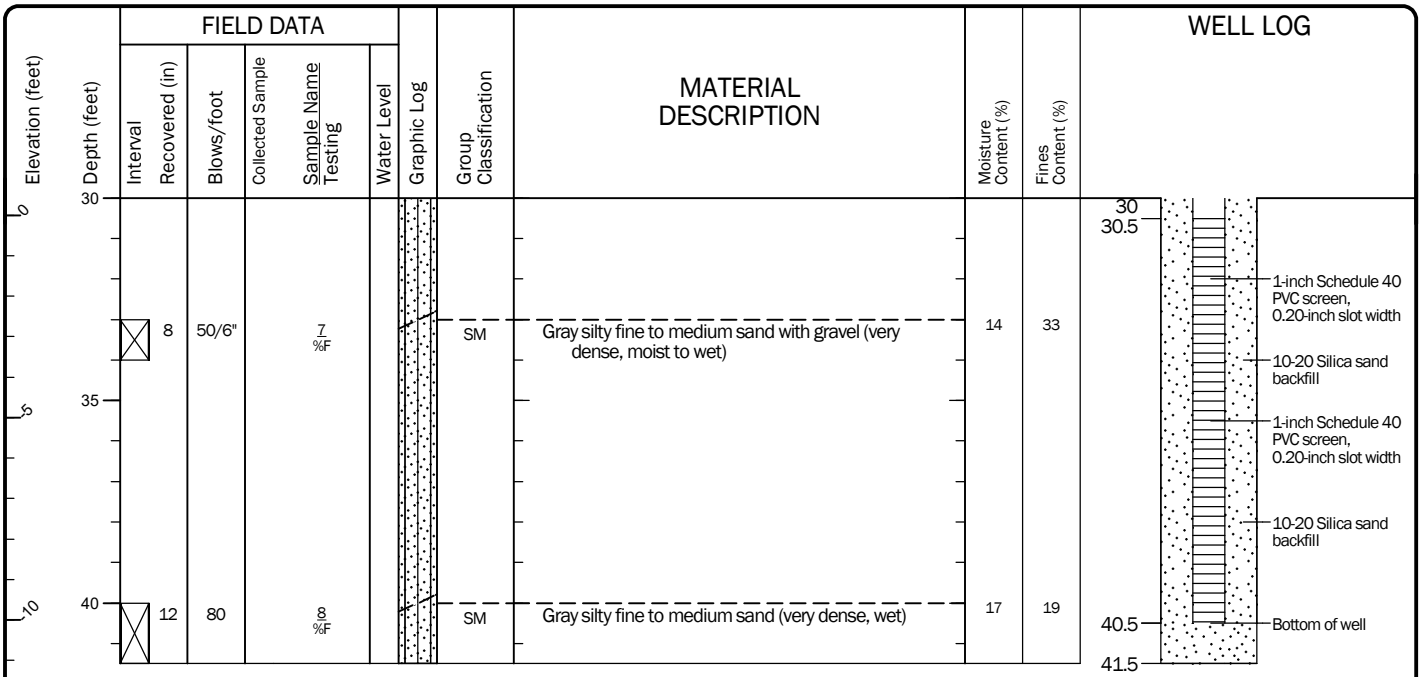
Note: See Figure A-1 for explanation of symbols.
Coordinates Data Source: Horizontal approximated based on Aerial Imagery. Vertical approximated based on Topographic Survey.

Log of Boring with Monitoring Well B-37-8

GeoEngineers

Project: Block 37
Project Location: Seattle, Washington
Project Number: 7087-027-07

Figure A-9
Sheet 1 of 2



Log of Boring with Monitoring Well B-37-8 (continued)

GeoEngineers

Project: Block 37
Project Location: Seattle, Washington
Project Number: 7087-027-07

Figure A-9
Sheet 2 of 2

Drilled	Start	End	Total Depth (ft)	Logged By	Checked By	Driller	Drilling Method
	5/4/2021	5/4/2021	41.5	SLG	CRG	Geologic Drill Partners	Hollow-stem Auger

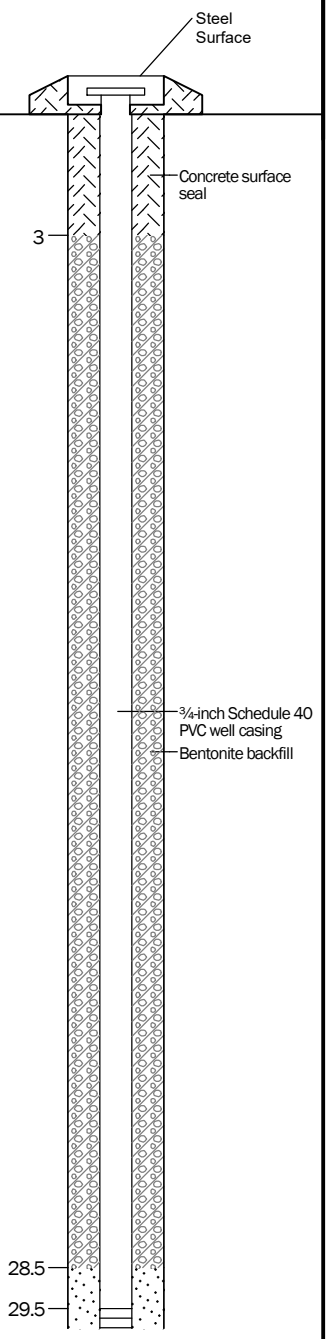
Hammer Data	Rope & Cathead 140 (lbs) / 30 (in) Drop	Drilling Equipment	Bobcat Mini Track
Surface Elevation (ft) Vertical Datum	29.97 NAVD88	Top of Casing Elevation (ft)	29.53
Easting (X) Northing (Y)	1269546 231554	Horizontal Datum	WA State Plane North NAD83 (feet)

A 0.75-in well was installed on 5/4/2021 to a depth of 39.5 ft.

Groundwater Date Measured	Depth to Water (ft)	Elevation (ft)
5/4/2021	22.50	7.47

Notes:

Elevation (feet)	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name Testing	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Moisture Content (%)	Fines Content (%)
	0							ML	Brown/gray silt with occasional fine to medium sand and organic matter (medium stiff, moist) (fill)		
25	5	12	4		1						
20	10										
		2	18		2			WD	Wood waste (Horizontal grain)		
15	15										
		1	14		3				With sawdust		
10	20										
		8	28		4	▼		SM	Gray silty fine to medium sand with wood waste (medium dense, wet)		
5	25										
		18	15		5 AL			CL-ML	Gray clayey silt with fine sand (stiff, wet) (recent deposits) AL (LL = 25; PI = 5)	25	
0	30										



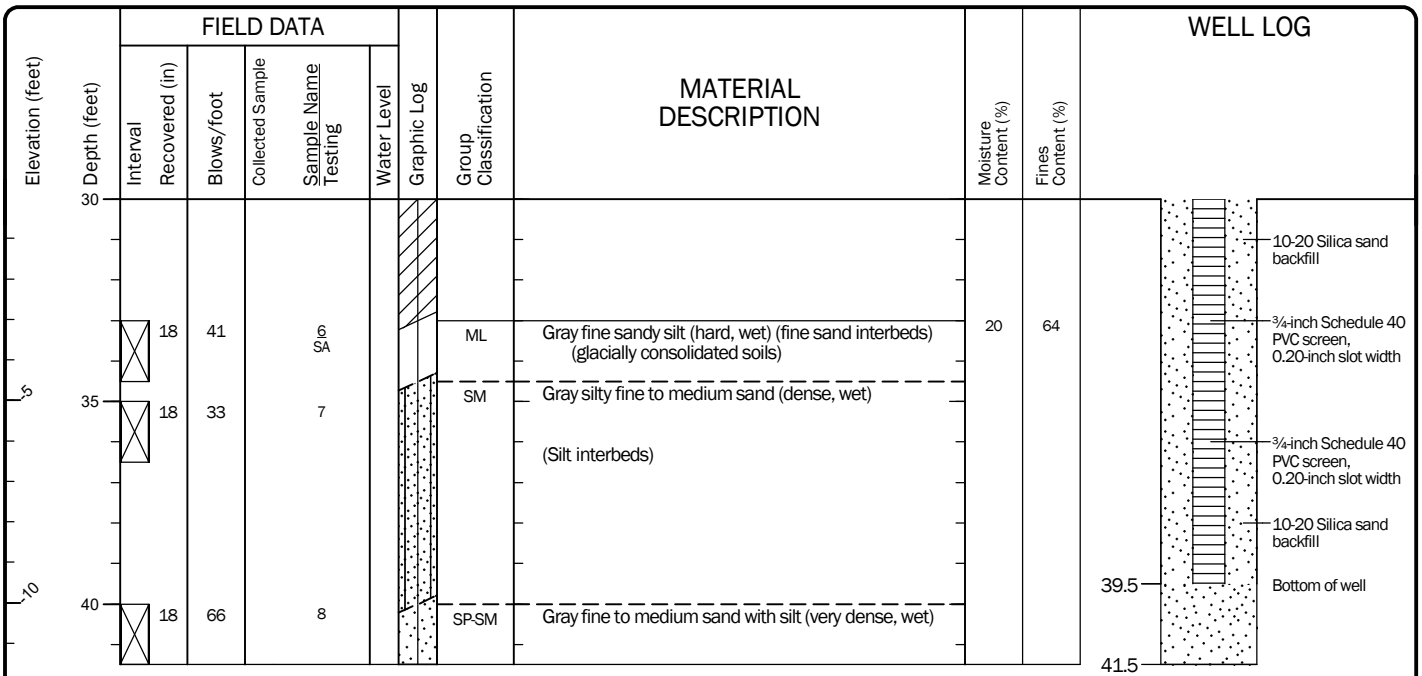
Note: See Figure A-1 for explanation of symbols.
Coordinates Data Source: Horizontal approximated based on Aerial Imagery. Vertical approximated based on Topographic Survey.

Log of Boring with Monitoring Well B-37-9

GeoEngineers

Project: Block 37
Project Location: Seattle, Washington
Project Number: 7087-027-07

Figure A-10
Sheet 1 of 2



Log of Boring with Monitoring Well B-37-9 (continued)

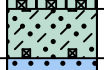
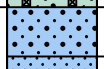
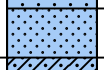
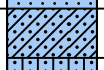
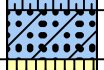
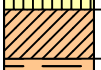
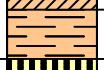
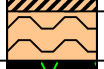
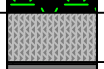
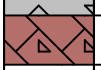
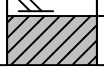
GeoEngineers

Project: Block 37
Project Location: Seattle, Washington
Project Number: 7087-027-07

Figure A-10
Sheet 2 of 2

FARALLON CONSULTING

USCS Classification and Graphic Legend

Major Divisions			USCS Graphic Symbol	USCS Letter Symbol	Lithologic Description
Coarse-Grained Soil (More than 50% of material is larger than No. 200 sieve size)	GRAVEL AND GRAVELLY SOIL (More than 50% of coarse fraction retained on No. 4 sieve)	CLEAN GRAVEL (Little or no fines)		GW	Well graded GRAVEL, well graded GRAVEL with sand
				GP	Poorly graded GRAVEL, poorly graded GRAVEL with sand
		GRAVEL WITH FINES (Appreciable amount of fines)		GP-GM	Poorly graded GRAVEL, poorly graded GRAVEL with sand and silt
				GM	Silty GRAVEL
				GC	Clayey GRAVEL
	SAND AND SANDY SOIL (50% or more of coarse fraction passed through No. 4 sieve)	CLEAN SAND (Little or no fines)		SW	Well graded SAND
				SP	Poorly graded SAND
		SAND WITH FINES (Appreciable amount of fines)		SP-SM	Poorly graded SAND with silt
				SM	Silty SAND
				SC	Clayey SAND
Fine-Grained Soil (50% or more of material is smaller than No. 200 sieve size)	SILT AND CLAY (Liquid Limit Less than 50)			ML	SILT
				CL	Lean CLAY
				OL	Organic SILT and organic CLAY of low plasticity
	SILT AND CLAY (Liquid limit greater than 50)			MH	Elastic SILT
				CH	Fat CLAY
				OH	Organic SILT and organic CLAY of medium or high plasticity
		Highly Organic Soil		PT	Peat
Other Materials	PAVEMENT			AC	Asphalt concrete
				CO	Concrete
				RK	Rock
				WD	Wood Debris
				DB	Debris (Miscellaneous)
				PC	Portland cement

Legend

- Sample Interval
- Water level at time of drilling
- Blank Casing
- Screened Casing
- Cement Grout
- Bentonite
- Sand Pack
- Solid line indicates well-defined and confirmed contact between units.
- Dashed line indicates gradational or inferred contact between units.

ATD = at time of drilling
bml = below mudline
ft bgs = feet below ground surface
in = inches
lbs = pounds
NA = Not Applicable
NE = Not Encountered
NM = Not Measured
PID = Photoionization Detector
PN = Project Number
*ppmv = parts per million volume total organic vapors in isobutylene equivalents using a 10.6 electron volt lamp
USCS = Unified Soil Classification System

FARALLON CONSULTING

Log of Boring: PH-1

Client: City Investors XI LLC
Project: Block 37
Location: Seattle, Washington
Farallon PN: 397-066
Logged By: E. Bugge
Reviewed By: B. Jurista

Date/Time Started:	1/26/2022 @ 0920	**Depth to Water ATD (ft bgs):**	20.0
Date/Time Completed:	1/26/2022 @1040	**Boring Diameter (in):**	8.0
Drilling Company:	Malcolm Drilling Co.	**Total Boring Depth (ft bgs):**	50.0
Drilling Method:	Sonic	**Constructed Well Depth (ft bgs):**	34.0
Drilling Equipment:	Terra Sonic		
Drilling Operator:	Austin Null		
Sampler Type:	10' CB		

Depth (ft bgs)	Sample Interval	Lithologic Description	USCS	USCS Graphic	% Recovery	PID (ppmv)	Sample ID	Sample Analyzed	Boring/Well Construction Details
0		0.0-0.4': Asphalt.	AC						Monument
		0.4-5.0': Cleared for utilities using air knife. Air knifing not observed by Farallon and lithology not logged.							Concrete
5		5.0-10.0': Silty SAND with gravel (60% sand, 20% gravel, 20% silt), fine to coarse sand, brown, moist, no odor.	SM						
10		10.0-20.0': Well-graded GRAVEL with sand (80% gravel, 15% sand, 5% silt), fine and coarse gravel, fine to coarse sand, brown, moist, wet at 20 feet bgs, no odor.	GW		100				Casing
15						0.2	PH-1-15.0	X	Bentonite
									Water Level
20		20.0-22.0': Silty SAND (85% sand, 15% silt), fine to coarse sand, brownish gray, wet, no odor.	SM		100	5.0	PH-1-20.0	X	
		22.0-25.0': Sandy SILT (60% silt, 40% sand), fine sand, gray, moist, petroleum-like odor.	ML						Sand Pack
25									

Well Construction Information

Monument Type:	Flush	**Filter Pack:**	Sand	**Ground Surface Elevation (ft):**	NA
Casing Diameter (in):	4.0	**Surface Seal:**	Concrete	**Top of Casing Elevation (ft):**	NA
Screen Slot Size (in):	0.020	**Annular Seal:**	Bentonite	**Surveyed Location: X:** NA	**Y:** NA
Screened Interval (ft bgs):	24.0-34.0	**Boring Abandonment:**	Bentonite	**Unique Well ID:** BML-101	

FARALLON CONSULTING

Log of Boring: PH-1

Client: City Investors XI LLC
Project: Block 37
Location: Seattle, Washington
Farallon PN: 397-066
Logged By: E. Bugge
Reviewed By: B. Jurista

Date/Time Started:	1/26/2022 @ 0920	**Depth to Water ATD (ft bgs):**	20.0
Date/Time Completed:	1/26/2022 @1040	**Boring Diameter (in):**	8.0
Drilling Company:	Malcolm Drilling Co.	**Total Boring Depth (ft bgs):**	50.0
Drilling Method:	Sonic	**Constructed Well Depth (ft bgs):**	34.0
Drilling Equipment:	Terra Sonic		
Drilling Operator:	Austin Null		
Sampler Type:	10' CB		

Depth (ft bgs)	Sample Interval	Lithologic Description	USCS	USCS Graphic	% Recovery	PID (ppmv)	Sample ID	Sample Analyzed	Boring/Well Construction Details
		25.0-30.0': Silty SAND (60% sand, 40% silt), fine sand, gray, moist, petroleum-like odor, wood debris present.	SM			8.7	PH-1-25.0	X	Screen
30		30.0-32.0': Silty SAND (60% sand, 40% silt), fine sand, gray, wet, no odor.	SM		100	1.3	PH-1-30.0	X	Sand Pack
		32.0-33.0': Silty GRAVEL (70% gravel, 20% silt, 10% sand), fine and coarse gravel, fine sand, gray, wet, no odor.	GM						
		33.0-40.0': Silty SAND (60% sand, 40% silt), fine to coarse sand, gray, wet, no odor.	SM		100				
35						1.5	PH-1-35.0	X	Sand Fill
40		40.0-43.0': Silty SAND (60% sand, 40% silt), fine to coarse sand, gray, wet, no odor.	SM			2.0	PH-1-40.0		Bentonite
		43.0-50.0': Silty SAND (70% sand, 30% silt), fine and medium sand, gray, wet, no odor.	SM		100				
45						0.8	PH-1-45.0		
50						3.3	PH-1-50.0		

Well Construction Information

Monument Type:	Flush	**Filter Pack:**	Sand	**Ground Surface Elevation (ft):**	NA
Casing Diameter (in):	4.0	**Surface Seal:**	Concrete	**Top of Casing Elevation (ft):**	NA
Screen Slot Size (in):	0.020	**Annular Seal:**	Bentonite	**Surveyed Location: X:** NA	**Y:** NA
Screened Interval (ft bgs):	24.0-34.0	**Boring Abandonment:**	Bentonite	**Unique Well ID:** BML-101	

FARALLON CONSULTING

Log of Boring: PH-2 / AMW-1

Client: City Investors XI LLC
Project: Block 37
Location: Seattle, Washington
Farallon PN: 397-066
Logged By: E. Bugge
Reviewed By: B. Jurista

Date/Time Started:	1/26/2022 @ 1145	**Depth to Water ATD (ft bgs):**	20.0
Date/Time Completed:	1/26/2022 @ 1230	**Boring Diameter (in):**	8.0
Drilling Company:	Malcolm Drilling Co.	**Total Boring Depth (ft bgs):**	50.0
Drilling Method:	Sonic	**Constructed Well Depth (ft bgs):**	23.0
Drilling Equipment:	Terra Sonic		
Drilling Operator:	Austin Null		
Sampler Type:	10' CB		

Depth (ft bgs)	Sample Interval	Lithologic Description	USCS	USCS Graphic	% Recovery	PID (ppmv)	Sample ID	Sample Analyzed	Boring/Well Construction Details
0		0.0-0.4': Asphalt.	AC						Monument
		0.4-5.0': Cleared for utilities using air knife. Air knifing not observed by Farallon and lithology not logged.							Concrete
									Casing
5		5.0-10.0': No Recovery.							Bentonite
									Sand Pack
10		10.0-20.0': Silty SAND with gravel (70% sand, 15% silt, 15% gravel), fine to coarse sand, fine and coarse gravel, brownish gray, moist, no odor.	SM		100				
									Screen
15						9.5	AMW-1-15.0	X	
									Water Level
20		20.0-22.0': Silty SAND with gravel (70% sand, 15% silt, 15% gravel), fine to coarse sand, fine and coarse gravel, brownish gray, wet, slight petroleum-like odor.	SM		100	7.2	AMW-1-20.0	X	
		22.0-23.5': Wood Debris.	WD						
		23.5-25.0': Silty SAND (70% sand, 30% silt), fine sand, gray, moist, organic odor.	SM						Sand Fill
25									

Well Construction Information

Monument Type:	Flush	**Filter Pack:**	Sand	**Ground Surface Elevation (ft):**	NA
Casing Diameter (in):	4.0	**Surface Seal:**	Concrete	**Top of Casing Elevation (ft):**	NA
Screen Slot Size (in):	0.020	**Annular Seal:**	Bentonite	**Surveyed Location: X:** NA	**Y:** NA
Screened Interval (ft bgs):	8.0-23.0	**Boring Abandonment:**	Bentonite	**Unique Well ID:** BML-102	

FARALLON CONSULTING

Log of Boring: PH-2 / AMW-1

Client: City Investors XI LLC
Project: Block 37
Location: Seattle, Washington
Farallon PN: 397-066
Logged By: E. Bugge
Reviewed By: B. Jurista

Date/Time Started:	1/26/2022 @ 1145	**Depth to Water ATD (ft bgs):**	20.0
Date/Time Completed:	1/26/2022 @ 1230	**Boring Diameter (in):**	8.0
Drilling Company:	Malcolm Drilling Co.	**Total Boring Depth (ft bgs):**	50.0
Drilling Method:	Sonic	**Constructed Well Depth (ft bgs):**	23.0
Drilling Equipment:	Terra Sonic		
Drilling Operator:	Austin Null		
Sampler Type:	10' CB		

Depth (ft bgs)	Sample Interval	Lithologic Description	USCS	USCS Graphic	% Recovery	PID (ppmv)	Sample ID	Sample Analyzed	Boring/Well Construction Details
		25.0-27.0': SILT with sand (80% silt, 20% sand), fine sand, gray, moist, no odor.	ML			14.2	AMW-1-25.0	X	
		27.0-30.0': Silty SAND (70% sand, 30% silt), fine to coarse sand, gray, moist, no odor.	SM						
30		30.0-40.0': Silty SAND (60% sand, 40% silt), fine sand, gray, moist, no odor.	SM		100	8.6	AMW-1-30.0	X	
35						10.1	AMW-1-35.0	X	Bentonite
40		40.0-45.0': Silty SAND (60% sand, 40% silt), fine sand, gray, moist, no odor.	SM		100	12.7	AMW-1-40.0		
45		45.0-50.0': Well-graded SAND with silt (90% sand, 10% silt), fine to coarse sand, gray, moist, no odor.	SW-SM			7.9	AMW-1-45.0		
50						30.2	AMW-1-50.0		

Well Construction Information

Monument Type:	Flush	**Filter Pack:**	Sand	**Ground Surface Elevation (ft):**	NA
Casing Diameter (in):	4.0	**Surface Seal:**	Concrete	**Top of Casing Elevation (ft):**	NA
Screen Slot Size (in):	0.020	**Annular Seal:**	Bentonite	**Surveyed Location: X:** NA	**Y:** NA
Screened Interval (ft bgs):	8.0-23.0	**Boring Abandonment:**	Bentonite	**Unique Well ID:** BML-102	

FARALLON CONSULTING

Log of Boring: PH-3

Client: City Investors XI LLC
Project: Block 37
Location: Seattle, Washington
Farallon PN: 397-066
Logged By: E. Bugge
Reviewed By: B. Jurista

Date/Time Started:	1/27/2022 @ 0725	**Depth to Water ATD (ft bgs):**	15.0
Date/Time Completed:	1/27/2022 @ 0920	**Boring Diameter (in):**	8.0
Drilling Company:	Malcolm Drilling Co.	**Total Boring Depth (ft bgs):**	50.0
Drilling Method:	Sonic	**Constructed Well Depth (ft bgs):**	34.0
Drilling Equipment:	Terra Sonic		
Drilling Operator:	Austin Null		
Sampler Type:	10' CB		

Depth (ft bgs)	Sample Interval	Lithologic Description	USCS	USCS Graphic	% Recovery	PID (ppmv)	Sample ID	Sample Analyzed	Boring/Well Construction Details
0		0.0-0.4': Asphalt.	AC						Monument
		0.4-5.0': Cleared for utilities using air knife. Air knifing not observed by Farallon and lithology not logged.							Concrete
5		5.0-10.0': No Recovery.							Casing
10		10.0-15.0': Poorly graded SAND with silt (90% sand, 10% silt), fine and medium sand, brown, moist, no odor.	SP-SM		100				Bentonite
15		15.0-20.0': Silty SAND (70% sand, 30% silt), fine sand, gray, wet, no odor, trace brick debris present.	SM			0.1	PH-3-15.0	X	Water Level
20		20.0-23.0': Silty SAND (70% sand, 30% silt), fine sand, gray, moist, no odor, trace brick debris present.	SM		100	1.1	PH-3-20.0	X	
		23.0-25.0': SILT with sand (80% silt, 20% sand), fine sand, gray, wet, no odor.	ML						Sand Pack
25									

Well Construction Information

Monument Type:	Flush	**Filter Pack:**	Sand	**Ground Surface Elevation (ft):**	NA
Casing Diameter (in):	4.0	**Surface Seal:**	Concrete	**Top of Casing Elevation (ft):**	NA
Screen Slot Size (in):	0.020	**Annular Seal:**	Bentonite	**Surveyed Location: X:** NA	**Y:** NA
Screened Interval (ft bgs):	24.0-34.0	**Boring Abandonment:**	Bentonite	**Unique Well ID:** BML-103	

FARALLON CONSULTING

Log of Boring: PH-3

Client: City Investors XI LLC
Project: Block 37
Location: Seattle, Washington
Farallon PN: 397-066
Logged By: E. Bugge
Reviewed By: B. Jurista

Date/Time Started:	1/27/2022 @ 0725	**Depth to Water ATD (ft bgs):**	15.0
Date/Time Completed:	1/27/2022 @ 0920	**Boring Diameter (in):**	8.0
Drilling Company:	Malcolm Drilling Co.	**Total Boring Depth (ft bgs):**	50.0
Drilling Method:	Sonic	**Constructed Well Depth (ft bgs):**	34.0
Drilling Equipment:	Terra Sonic		
Drilling Operator:	Austin Null		
Sampler Type:	10' CB		

Depth (ft bgs)	Sample Interval	Lithologic Description	USCS	USCS Graphic	% Recovery	PID (ppmv)	Sample ID	Sample Analyzed	Boring/Well Construction Details
30		25.0-30.0': Silty SAND (60% sand, 40% silt), fine sand, gray, moist, no odor.	SM			2.3	PH-3-25.0	X	Screen
		30.0-40.0': Silty SAND (60% sand, 40% silt), fine and medium sand, gray, moist, no odor.	SM		100	12.5	PH-3-30.0	X	
35						2.4	PH-3-35.0	X	Sand Fill
40		40.0-50.0': Silty SAND (70% sand, 30% silt), fine and medium sand, gray, moist, no odor.	SM		100	5.8	PH-3-40.0		Bentonite
45						2.7	PH-3-45.0		
50						0.6	PH-3-50.0		

Well Construction Information

Monument Type:	Flush	**Filter Pack:**	Sand	**Ground Surface Elevation (ft):**	NA
Casing Diameter (in):	4.0	**Surface Seal:**	Concrete	**Top of Casing Elevation (ft):**	NA
Screen Slot Size (in):	0.020	**Annular Seal:**	Bentonite	**Surveyed Location: X:** NA	**Y:** NA
Screened Interval (ft bgs):	24.0-34.0	**Boring Abandonment:**	Bentonite	**Unique Well ID:** BML-103	

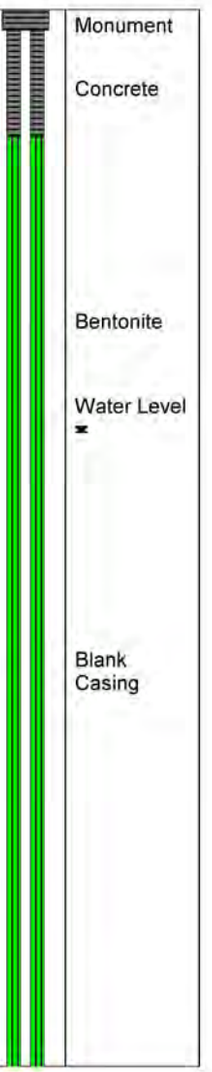
FARALLON CONSULTING

Log of Boring: PH-4

Client: City Investors XI LLC
Project: Block 37
Location: Seattle, Washington
Farallon PN: 397-066
Logged By: E. Bugge
Reviewed By: B. Jurista

Date/Time Started:	1/27/2022 @ 1010	**Depth to Water ATD (ft bgs):**	10.0
Date/Time Completed:	1/27/2022 @ 1120	**Boring Diameter (in):**	8.0
Drilling Company:	Malcolm Drilling Co.	**Total Boring Depth (ft bgs):**	50.0
Drilling Method:	Sonic	**Constructed Well Depth (ft bgs):**	50.0
Drilling Equipment:	Terra Sonic		
Drilling Operator:	Austin Null		
Sampler Type:	10' CB		

Depth (ft bgs)	Lithologic Description	USCS	% Recovery	PID (ppmv)	Sample ID	Sample Analyzed
0	0.0-0.4': Asphalt.	AC				
	0.4-5.0': Cleared for utilities using air knife. Air knifing not observed by Farallon and lithology not logged.					
5	5.0-10.0': No Recovery.					
10	10.0-12.0': Well-graded SAND with silt (90% sand, 10% silt), fine to coarse sand, brown, wet, no odor.	SW-SM	100			
	12.0-13.0': Well-graded GRAVEL with silt (80% gravel, 10% sand, 10% silt), fine and coarse gravel, fine to coarse sand, brown, wet, no odor.	GW-GM				
	13.0-20.0': Silty SAND (80% sand, 20% silt), fine and medium sand, grayish brown, moist, organic odor, wood debris present.	SM		81.6	PH-4-15.0	X
20	20.0-21.0': Silty SAND (80% sand, 20% silt), fine and medium sand, grayish brown, moist, organic odor, wood debris present.	SM	100	67.5	PH-4-20.0	X
	21.0-24.0': Wood Debris.	WD				
25	24.0-26.0': Silty SAND (70% sand, 30% silt), fine to coarse sand, gray,	SM				



Well Construction Information

Monument Type:	Flush	**Filter Pack:**	NA	**Ground Surface Elevation (ft):**	NA
Casing Diameter (in):	4.0	**Surface Seal:**	NA	**Top of Casing Elevation (ft):**	NA
Screen Slot Size (in):	NA	**Annular Seal:**	Bentonite	**Surveyed Location: X:** NA	**Y:** NA
Screened Interval (ft bgs):	NA	**Boring Abandonment:**	Bentonite	**Unique Well ID:** BML-011	

FARALLON CONSULTING

Log of Boring: PH-4

Client: City Investors XI LLC
Project: Block 37
Location: Seattle, Washington
Farallon PN: 397-066
Logged By: E. Bugge
Reviewed By: B. Jurista

Date/Time Started:	1/27/2022 @ 1010	**Depth to Water ATD (ft bgs):**	10.0
Date/Time Completed:	1/27/2022 @ 1120	**Boring Diameter (in):**	8.0
Drilling Company:	Malcolm Drilling Co.	**Total Boring Depth (ft bgs):**	50.0
Drilling Method:	Sonic	**Constructed Well Depth (ft bgs):**	50.0
Drilling Equipment:	Terra Sonic		
Drilling Operator:	Austin Null		
Sampler Type:	10' CB		

Depth (ft bgs)	Lithologic Description	USCS	% Recovery	PID (ppmv)	Sample ID	Sample Analyzed	Boring/Well Construction Details
	moist, no odor.			26.2	PH-4-25.0	X	
	26.0-27.0': SILT with sand (80% silt, 20% sand), fine sand, gray, moist, no odor.	ML					
	27.0-28.0': Silty SAND (70% sand, 30% silt) fine to coarse sand, gray, moist, no odor.	SM					
	28.0-30.0': SILT (90% silt, 10% sand), fine sand, gray, moist, no odor, wood debris present.	ML					Bentonite
30	30.0-40.0': Silty SAND (60% sand, 40% silt), fine sand, gray, wet, no odor.	SM	100	99.4	PH-4-30.0	X	
35				43.8	PH-4-35.0	X	Blank Casing
40	40.0-50.0': Silty SAND (70% sand, 30% silt), fine and medium sand, gray, wet, no odor.	SM	100	0.1	PH-4-40.0		
45				0.6	PH-4-45.0		
50				0.6	PH-4-50.0		

Well Construction Information

Monument Type:	Flush	**Filter Pack:**	NA	**Ground Surface Elevation (ft):**	NA
Casing Diameter (in):	4.0	**Surface Seal:**	NA	**Top of Casing Elevation (ft):**	NA
Screen Slot Size (in):	NA	**Annular Seal:**	Bentonite	**Surveyed Location: X:** NA	**Y:** NA
Screened Interval (ft bgs):	NA	**Boring Abandonment:**	Bentonite	**Unique Well ID:** BML-011	

APPENDIX C
Surveyors Report

SITE NOTES

SITE ADDRESS:
601, 615, 630 TERRY AVENUE N
600, 630 WESTLAKE AVENUE N
SEATTLE, WA 98109

TAX ACCOUNT NOS.:
408880–3235
408880–3236
408880–3240
408880–3345
408880–3355
198720–0015

ZONING:
SM–SLU 85/65–160

ZONING AGENCY:
CITY OF SEATTLE
SEATTLE DEPARTMENT OF CONSTRUCTION AND INSPECTIONS
700 5TH AVENUE, SUITE 2000
SEATTLE, WA 98104
(206) 684–8600

SETBACKS:
CURRENT SETBACK REQUIREMENTS SUBJECT TO SITE PLAN REVIEW. CURRENT SETBACKS MAY DIFFER FROM THOSE IN EFFECT DURING DESIGN/CONSTRUCTION OF EXISTING IMPROVEMENTS.

THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY BY THE GOVERNING JURISDICTION INDICATES THAT STRUCTURES ON THIS PROPERTY COMPLIED WITH MINIMUM SETBACK AND HEIGHT REQUIREMENTS FOLLOWING CONSTRUCTION.

FLOOD ZONE:
THIS SITE APPEARS ON NATIONAL FLOOD INSURANCE RATE MAP, DATED AUGUST 19, 2020, COMMUNITY PANEL NO. 53033C0340G, AND IS SITUATED IN ZONE "X", AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.

AREA:
PARCEL "A" AS SHOWN CONTAINS 40,863 SQUARE FEET OR 0.9381 ACRE, MORE OR LESS.
PARCEL "B" AS SHOWN CONTAINS 2,100 SQUARE FEET OR 0.0482 ACRE, MORE OR LESS.
PARCEL "C" AS SHOWN CONTAINS 26,453 SQUARE FEET OR 0.6073 ACRE, MORE OR LESS.
COMBINED PARCELS AS SHOWN CONTAINS A TOTAL OF 69,416 SQUARE FEET OR 1.5936 ACRES, MORE OR LESS.

SUBSTRUCTURES:
BURIED UTILITIES ARE SHOWN AS INDICATED ON RECORDS MAPS FURNISHED BY OTHERS AND VERIFIED WHERE POSSIBLE BY FEATURES LOCATED IN THE FIELD. WE ASSUME NO LIABILITY FOR THE ACCURACY OF THOSE RECORDS. FOR THE FINAL LOCATION OF EXISTING UTILITIES IN AREAS CRITICAL TO DESIGN CONTACT THE UTILITY OWNER/AGENCY.

TELECOMMUNICATIONS/FIBER OPTIC DISCLAIMER:
RECORDS OF UNDERGROUND TELECOMMUNICATIONS AND/OR FIBER OPTIC LINES ARE NOT ALWAYS AVAILABLE TO THE PUBLIC. BRH HAS NOT CONTACTED EACH OF THE MANY COMPANIES, IN THE COURSE OF THIS SURVEY, WHICH COULD HAVE UNDERGROUND LINES WITHIN ADJACENT RIGHTS–OF–WAY. THEREFORE, BRH DOES NOT ACCEPT RESPONSIBILITY FOR THE EXISTENCE OF UNDERGROUND TELECOMMUNICATIONS/FIBER OPTIC LINES WHICH ARE NOT MADE PUBLIC RECORD WITH THE LOCAL JURISDICTION. AS ALWAYS, CALL 1–800–424–5555 BEFORE CONSTRUCTION.

DESCRIPTION:
PARCEL A:
LOTS 1, 2 AND 3, BLOCK 77, LAKE UNION SHORE LANDS AS SHOWN ON THE OFFICIAL MAPS THEREOF FILED IN THE OFFICE OF THE COMMISSIONER OF PUBLIC LANDS AT OLYMPIA, WASHINGTON, JULY 1, 1907, EXCEPT THE FOLLOWING:

BEGINNING AT THE NORTHEAST CORNER OF BLOCK 77;
THENCE SOUTHERLY ALONG THE EAST LINE OF SAID BLOCK, 137.96 FEET;
THENCE NORTH 7°52' WEST 23.26 FEET TO A POINT OF CURVE;
THENCE IN A NORTHWESTERLY DIRECTION ALONG A CURVE TO THE LEFT, HAVING A RADIUS OF 271.44 FEET TURNING THROUGH AN ANGLE OF 26°16", A DISTANCE OF 124.44 FEET, MORE OR LESS, TO A POINT ON THE NORTH LINE OF SAID BLOCK 77;
THENCE EASTERLY ALONG SAID LINE 48.11 FEET, MORE OR LESS, TO THE PLACE OF BEGINNING;

AND EXCEPT THE EAST 5 FEET OF THE REMAINDER OF LOTS 2 AND 3 AS CONDEMNED IN KING COUNTY SUPERIOR COURT CAUSE NUMBER 162246 AND PROVIDED BY ORDINANCE NUMBER 43560 FOR TERRY AVENUE, IN KING COUNTY, WASHINGTON.

PARCEL B:
THOSE PORTIONS OF LOTS 1, 2 AND 3, BLOCK 77, LAKE UNION SHORE LANDS, AS SHOWN ON THE OFFICIAL MAPS THEREOF FILED IN THE OFFICE OF THE COMMISSIONER OF PUBLIC LANDS AT OLYMPIA, WASHINGTON, JULY 1, 1907, BEING THE SAME PROPERTY DESCRIBED IN TIDE LANDS DEED FROM THE STATE OF WASHINGTON TO NORTHERN PACIFIC RAILWAY COMPANY FILED FOR RECORD JANUARY 19, 1912 IN VOLUME 803, PAGE 240, IN KING COUNTY, WASHINGTON, WHICH ARE INCLUDED WITHIN THE FOLLOWING DESCRIBED TRACT:

BEGINNING AT THE NORTHEAST CORNER OF SAID BLOCK 77;
THENCE SOUTHERLY ALONG THE EAST LINE OF SAID BLOCK 137.96 FEET;
THENCE NORTH 07°52' WEST, 23.26 FEET TO A POINT OF CURVE;
THENCE IN A NORTHWESTERLY DIRECTION, ALONG A CURVE TO THE LEFT, HAVING A RADIUS OF 271.44 FEET,
TURNING THROUGH AN ANGLE OF 26°16' A DISTANCE OF 124.44 FEET, MORE OR LESS, TO A POINT ON THE NORTH LINE OF SAID BLOCK 77;
THENCE EASTERLY ALONG SAID NORTH LINE 48.11 FEET, MORE OR LESS, TO THE PLACE OF BEGINNING;
EXCEPT THE EAST 5 FEET THEREOF CONDEMNED IN KING COUNTY SUPERIOR COURT CAUSE NUMBER 162246 FOR TERRY AVENUE, AS PROVIDED BY ORDINANCE NUMBER 43560 OF THE CITY OF SEATTLE.

PARCEL C:
ALL OF LOTS 4, 5, AND 6, BLOCK 77, LAKE UNION SHORE LANDS, IN KING COUNTY, WASHINGTON, AS SHOWN ON THE OFFICIAL MAPS ON FILE IN THE OFFICE OF THE COMMISSIONER OF PUBLIC LANDS AT OLYMPIA, WASHINGTON;

EXCEPT THAT PORTION THEREOF CONDEMNED BY THE CITY OF SEATTLE IN KING COUNTY SUPERIOR COURT CAUSE NUMBER 09–2–16663–3 SEA, AS DISCLOSED BY DOCUMENT RECORDED APRIL 6, 2010 UNDER RECORDING NUMBER 20100406000082.

AND;
ALL OF LOTS 4, 5, 6, 7 AND 8, BLOCK "A", D.T. DENNY'S 6TH ADDITION TO NORTH SEATTLE, ACCORDING TO THE PLAT THEREOF RECORDED IN VOLUME 1 OF PLATS, PAGE 241, IN KING COUNTY, WASHINGTON;
EXCEPT THE WEST 12 FEET OF SAID LOT 7 IN BLOCK "A" CONDEMNED IN KING COUNTY SUPERIOR COURT CAUSE NUMBER 62184 FOR THE WIDENING OF WESTLAKE AVENUE;

AND EXCEPT THE EAST 5 FEET OF ALL OF SAID PREMISES CONDEMNED IN KING COUNTY SUPERIOR COURT CAUSE NUMBER 162264 FOR THE WIDENING OF TERRY AVENUE;

AND EXCEPT THAT PORTION THEREOF CONDEMNED BY THE CITY OF SEATTLE IN KING COUNTY SUPERIOR COURT CAUSE NUMBER 09–2–16663–3 SEA, AS DISCLOSED BY DOCUMENT RECORDED APRIL 6, 2010 NUMBER 20100406000082.

TITLE REPORT REFERENCE:
THIS SURVEY WAS CONDUCTED ACCORDING TO THE DESCRIPTION SHOWN, FURNISHED BY FIRST AMERICAN TITLE INSURANCE COMPANY, COMMITMENT NO. NCS–1063152–WA1, DATED JUNE 25, 2021. THE EASEMENTS SHOWN OR NOTED HEREON RELATE TO THIS COMMITMENT.

NOTE: EASEMENTS CREATED OR RESCINDED AFTER THIS DATE ARE NOT SHOWN OR NOTED HEREON.

TITLE REPORT SCHEDULE B EXCEPTIONS:
ITEMS CIRCLED ARE SHOWN ON MAP.

(19) RIGHT TO MAKE NECESSARY SLOPES FOR CUTS OR FILLS UPON SAID PREMISES FOR STREET AS GRANTED BY KING COUNTY SUPERIOR COURT CAUSE NO. 162246 AS PROVIDED BY ORDINANCE NO. 46560.

SURVEYOR'S NOTE: ORDINANCE IS RECORDED AS 43560.

20. RESERVATIONS CONTAINED IN DEED FROM THE STATE OF WASHINGTON RECORDED UNDER RECORDING NO.787721, RESERVING ALL OIL, GASES, COAL, ORES, MINERALS, FOSSILS, ETC., AND THE RIGHT OF ENTRY FOR OPENING, DEVELOPING AND WORKING THE SAME.

(AFFECTS PARCELS A AND B)

SURVEYOR'S NOTE: BLANKET IN NATURE.

21. EASEMENT, INCLUDING TERMS AND PROVISIONS CONTAINED THEREIN:
RECORDING DATE: FEBRUARY 11, 1959
RECORDING INFORMATION: 4996277
IN FAVOR OF: PACIFIC TELEPHONE AND TELEGRAPH COMPANY
FOR: ANCHOR
AFFECTS: LOT 1 OF PARCELS A AND B

SURVEYOR'S NOTE: AFFECTS LOT 1 OF BLOCK 77, LAKE UNION SHORELANDS. NOT PLOTTABLE.

(22) THE TERMS AND PROVISIONS CONTAINED IN THE DOCUMENT ENTITLED "COVENANT OFF–SITE ACCESSORY PARKING" RECORDED DECEMBER 14, 1989 AS RECORDING NO. 8912140625 OF OFFICIAL RECORDS.

(AFFECTS PARCELS A AND B)

23. EASEMENT, INCLUDING TERMS AND PROVISIONS CONTAINED THEREIN:
RECORDING INFORMATION: FEBRUARY 26, 1998 UNDER RECORDING 9802261743
IN FAVOR OF: OUTDOOR SYSTEMS, INC.
FOR: SIGNBOARD AND RIGHT TO ACCESS

SAID EASEMENT WAS ASSIGNED TO CITY INVESTORS XI LLC, A WASHINGTON LIMITED LIABILITY COMPANY BY THAT INSTRUMENT RECORDED UNDER RECORDING NO. 20081231001525.

SAID EASEMENT WAS PURPORTEDLY RELEASED BY INSTRUMENT RECORDED UNDER RECORDING NO. 20010904000326.

24. EASEMENT, INCLUDING TERMS AND PROVISIONS CONTAINED THEREIN:
RECORDING INFORMATION: NOVEMBER 15, 2013 UNDER RECORDING NO. 20131115001267
IN FAVOR OF: SPRINT COMMUNICATIONS COMPANY LP
FOR: TELECOMMUNICATIONS

SURVEYOR'S NOTE: EASEMENT RIGHTS ATTACH TO FACILITIES AS CONSTRUCTED.

35. THE TERMS AND PROVISIONS CONTAINED IN THE DOCUMENT ENTITLED "MEMORANDUM OF ENVIRONMENTAL REMEDIATION, INDEMNIFICATION AND ACCESS AGREEMENT" RECORDED DECEMBER 5, 2014 AS RECORDING NO. 20141205001604 OF OFFICIAL RECORDS.

(AFFECTS PARCEL C)

SURVEYOR'S NOTE: BLANKET IN NATURE, NOT PLOTTABLE.

CERTIFICATION:

SURVEY IDENTIFICATION NO.: 2013016.08

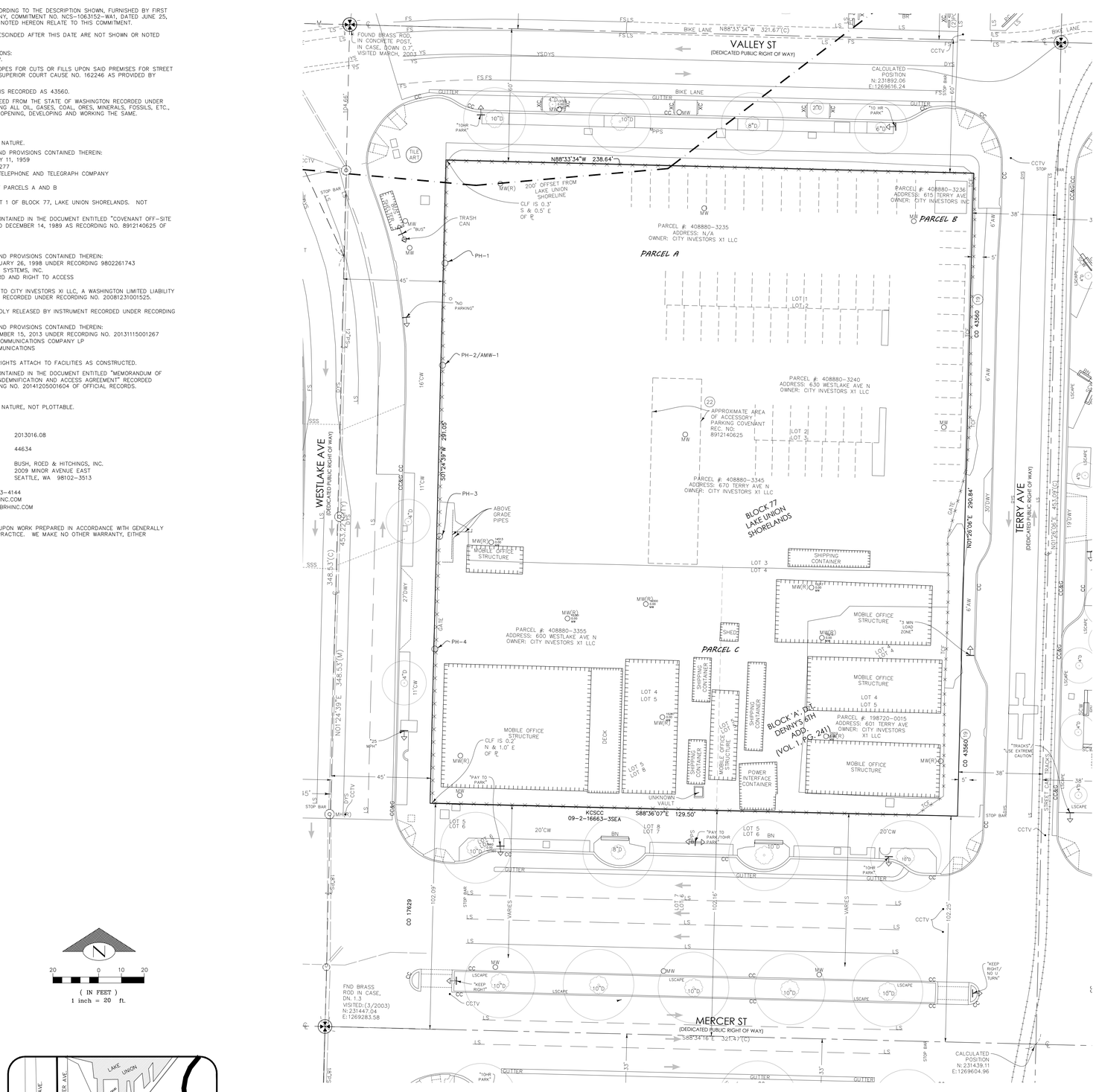
REGISTERED LAND SURVEYOR NO.: 44634

SURVEYOR'S ADDRESS & COMPANY: BUSH, ROED & HITCHINGS, INC.
2009 MINOR AVENUE EAST
SEATTLE, WA 98102–3513

TELEPHONE: (206) 323–4144
COMPANY WEBSITE: WWW.BRHINC.COM
SURVEYOR'S EMAIL: JAMESH@BRHINC.COM

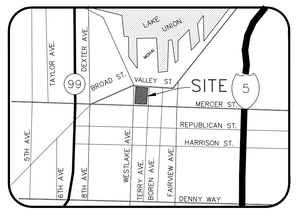
THE ABOVE CERTIFICATE IS BASED UPON WORK PREPARED IN ACCORDANCE WITH GENERALLY ACCEPTED PROFESSIONAL SURVEY PRACTICE. WE MAKE NO OTHER WARRANTY, EITHER EXPRESSED OR IMPLIED.

WELL ID	NORTHING	EASTING	TOP MONUMENT (LID)	TOP OF CASING (PVC)	ADJACENT GRADE (NORTH)
PH–1	231792.23	1269337.85	29.39	29.12	29.37
PH–2/ AMW–1	231746.07	1269336.68	29.44	29.21	29.39
PH–3	231668.70	1269335.39	30.12	29.60	30.05
PH–4	231617.73	1269333.22	30.425	30.02	30.39



LEGEND

⊕	AREA DRAIN	⟵○⟶	STRAIN POLE W/ LIGHT
	ASPHALT (ASPH)	LSCAPE	LANDSCAPE
	BRICK SURFACE	Ⓞ Ⓢ	MANHOLE
	BUILDING LINE	MW	MONITOR WELL
BR	BIKE RACK	(P)	PAINTED UTILITY LOCATION
	CANOPY	⟹	PIPE FLOW DIRECTION
	CATCH BASIN (CB)	PS/PSS	COMBINED/SANITARY SEWER
	CONCRETE SURFACE	⊡	PRIVATE CATCH BASIN
CW/BW	CONCRETE/BRICK WALK	⊕	PEDESTRIAN SIGNAL/PEDESTAL
CRW/WRW	CONCRETE/WOOD RETAINING WALL	(R)	RECORD DATA
CTV	CABLE TV	SCL/CLHH	SEATTLE CITY LIGHT HANDHOLE
COL	COLUMN	SR	SCULPTURE ROCK
℄/℀	CENTERLINE/MONUMENT LINE	SSS	SANITARY SIDE SEWER (RECORD)
DEC	DECIDUOUS TREE		SIGN/STREET NAME SIGN
DWY	DRIVEWAY	TC/SL	TRAFFIC CONTROL/STREET LIGHT HANDHOLE
ECD	ELECTRICAL CONDUIT		TRAFFIC CONTROL CABINET (TRSCC)
EHH	ELECTRICAL HANDHOLE	TCD	TELEPHONE CONDUIT (BURIED)
EMH	ELECTRICAL MANHOLE	TD	TELEPHONE DUCT
EV/ET	ELECTRICAL VAULT/TRANSFORMER	TV	TELEPHONE VAULT
⊗	FOUND SURVEY MONUMENT (AS NOTED)	TMH	TELEPHONE MANHOLE
	FIRE HYDRANT	⟹	TRAFFIC FLOW DIRECTION
	FIRE DEPT. CONNECTION (FDC)	WL	WALKWAY LIGHT
FO	FIBER OPTICS	WV	WATER VAULT
FOMH	FIBER OPTIC MANHOLE	W	WATER MAIN
FOV	FIBER OPTIC VAULT	WM	WATER METER
G	GAS MAIN	M	WATER VALVE
	GAS VALVE		WATER GATE VALVE/CHAMBER
GV	GAS VAULT	VO/CO	VACATION/CONDEMNATION ORDINANCE
⟵○⟶	HANDRAIL		YARD LIGHT
△ SP	STRAIN POLE		BRASS DISC
ICB	IRRIGATION CONTROL BOX		SCREW
IV	IRRIGATION VALVE	×	TACK AND LEAD
□⟶	LIGHT POLE (METAL)	×	TACK AND LEAD W/ SHINER
		(C)	CALCULATED
		(M)	MEASURED
		(CITY)	CITY OF SEATTLE ENGINEERING MAPS



VICINITY MAP
NO SCALE

NO.	DATE	REVISION

02/17/2022
JAMES M. HARPER
EXPIRES 10/13/2022
REGISTERED PROFESSIONAL LAND SURVEYOR

BUSH, ROED & HITCHINGS, INC.
LAND SURVEYORS & CIVIL ENGINEERS
2009 MINOR AVE. EAST
SEATTLE, Washington
98102-3513
(206) 323-4144
1-800-935-0508
WWW.BRHINC.COM

MONITOR WELL EXHIBIT
BLOCK 37
VULCAN, INC.
SEATTLE KING COUNTY WASHINGTON

drawn by	checked by
CJM	JMH
scale 1" = 20'	date 02/14/22
job no. 2013016.08	
sheet 1 of 1	

30"x42" 2/17/2022 U:\C3D\2013\2013016\SURVEY\NCL\DWG\XS-EXH-08.dwg, 2/17/2022 12:35:39 PM, DWG To PDF.pc3

APPENDIX D
Disposal Documentation

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

488580

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
WAVSQG	2	888-785-7225	349083/D425906

GENERATOR

5. Generator's Name and Mailing Address

Phillips 66 No. 2701476 c/o ATC Group
6347 Seaview Ave NW
Seattle, WA 98107
Generator's Phone: 206-491-9754

Generator's Site Address (if different than mailing address)

Phillips 66 No. 255353
600 Westlake Ave
Seattle, WA 98109

6. Transporter 1 Company Name: Advanced Chemical Transport Inc./DBA ACTenviro — U.S. EPA ID Number: CAR000070540

7. Transporter 2 Company Name: NRC Environmental Services — U.S. EPA ID Number:

8. Designated Facility Name and Site Address

Chemical Waste Management of the Northwest
17629 Cedar Springs Lane
Arlington, OR 97812
Facility's Phone: 541-454-2030

U.S. EPA ID Number: CAR000030114 / ORD089452353

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-RCRA/Non-DOT Regulated Material Liquid (GROUNDWATER)	1	DM	50	P	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

1) OR349960 PHC- 1 X 15 Project Number 349083 Document #: D425906

14. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: Elizabeth Silver for Plob — Signature: Elizabeth Silver — Month: 4 — Day: 1 — Year: 22

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: ANTHONY MANALO — Signature: — Month: 4 — Day: 19 — Year: 22

Transporter 2 Printed/Typed Name: RICARDO ALUMA — Signature: — Month: 4 — Day: 26 — Year: 22

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: [illegible] — Signature: — Month: 5 — Day: 31 — Year: 22

BMS

DESIGNATED FACILITY'S COPY

488580

NON-HAZARDOUS WASTE MANIFEST
(Continuation Sheet)

19. Generator ID Number: WAY000

20. Page: 2 of 2

21. Waste Tracking Number: 349083/D425006

22. Generator's Name
Phillips 66 No. 255353
600 Westlake Ave
Seattle, WA 98109

23. Transporter 2 Company Name: Union Pacific Railroad
U.S. EPA ID Number: NED981793910

24. Transporter _____ Company Name
U.S. EPA ID Number

GENERATOR

25. Waste Shipping Name and Description	26. Containers No.	26. Containers Type	27. Total Quantity	28. Unit Wt./Vol.	

29. Special Handling Instructions and Additional Information

TRANSPORTOR

30. Transporter 2 Acknowledgment of Receipt of Materials
Printed/Typed Name: Heather
Signature: H. Male
Month: 4 Day: 26 Year: 25

31. Transporter _____ Acknowledgment of Receipt of Materials
Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

32. Discrepancy

Printed in USA by GC Labels, Inc.
1-800-997-6966

DESIGNATED FACILITY'S COPY

Reorder Part# C6NHWCON
www.gclabels.com

486984

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	WAVSQG	2	888-785-7225	338575/D415174

GENERATOR

5. Generator's Name and Mailing Address

City Investors XI LLC
600 to 603 Westlake Avenue North
Seattle, WA 98109

Generator's Phone: 206-342-2451

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: Advanced Chemical Transport Inc./DBA ACTenviro — U.S. EPA ID Number: CAR000070540

7. Transporter 2 Company Name: NRC Environmental Services — U.S. EPA ID Number: CAR000030114

8. Designated Facility Name and Site Address

Chemical Waste Management of the Northwest
17629 Cedar Springs Lane
Arlington, OR 97812

Facility's Phone: 541-454-2030

U.S. EPA ID Number: ORD089452353

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-RCRA/Non-DOT Regulated Material Solid (SOIL CUTTINGS)	18	DM	11000	P	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

Project Number 338575 Document #: D415174

1) OR349343 CIC- 18 x 55

WMNW 980388

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: Max Graham on behalf of generator — Signature — Month: 2 Day: 11 Year: 22

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Max Graham — Signature — Month: 2 Day: 11 Year: 22

Transporter 2 Printed/Typed Name: Randel Tibbs — Signature — Month: 2 Day: 28 Year: 22

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Randy Ownby — Signature — Month: 3 Day: 1 Year: 4 22

DESIGNATED FACILITY'S COPY

1486984

NON-HAZARDOUS WASTE MANIFEST (Continuation Sheet)

19. Generator ID Number: WAVSQG

20. Page: 2 of 2

21. Waste Tracking Number: 338575/D415174

GENERATOR

22. Generator's Name:
City Investors XI LLC
600 to 603 Westlake Avenue North
Seattle, WA 98109

23. Transporter 2 Company Name: Union Pacific Railroad

U.S. EPA ID Number: NEB084782910

24. Transporter _____ Company Name: Columbia Ridge Landfill DWD 3-11-22

U.S. EPA ID Number: ORD987173457 DWD 3-11-22

	25. Waste Shipping Name and Description	26. Containers No.	26. Containers Type	27. Total Quantity	28. Unit Wt./Vol.	

29. Special Handling Instructions and Additional Information

TRANSPORTOR

30. Transporter 2 Acknowledgment of Receipt of Materials

Printed/Typed Name: [illegible] Signature: [signature] Month: 2 Day: 26 Year: 22

31. Transporter _____ Acknowledgment of Receipt of Materials

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

DESIGNATED FACILITY

32. Discrepancy

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

48770L

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
WAV5QG	2	888-785-7225	345399/D423364

GENERATOR

5. Generator's Name and Mailing Address
City Investors XI LLC
600 to 603 Westlake Avenue North
Seattle, WA 98109
Generator's Phone: 206-342-2451

Generator's Site Address (if different than mailing address)
3129

6. Transporter 1 Company Name
Advanced Chemical Transport Inc./DBA ACTenviro
U.S. EPA ID Number: CAR000070540

7. Transporter 2 Company Name
NRC Environmental Services
U.S. EPA ID Number: CAR000030114

8. Designated Facility Name and Site Address
Chemical Waste Management of the Northwest
17629 Cedar Springs Lane
Arlington, OR 97812
Facility's Phone: 541-454-2030
U.S. EPA ID Number: ORD089452353

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-RCRA/Non-DOT Regulated Material Solid (SOIL CUTTINGS)	6	DM	4,150	P	
2.	Non-RCRA/Non-DOT Regulated Material Liquid (GROUNDWATER)	3	DM	1200	P	
3.						
4.						

13. Special Handling Instructions and Additional Information
Project Number 345399 Document #: D423364 WM# 970738
1) OR349343 CIC- 4x55 1x15 1x85
2) OR349851 CIC- 3x55

14. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
Generator's/Offeror's Printed/Typed Name: MIKE KUIKEN ON BEHALF OF GENERATOR
Signature: Mike K
Month 3 Day 21 Year 22

INT'L
15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit: Date leaving U.S.:
Transporter Signature (for exports only):

TRANSPORTER
16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: MIKE KUIKEN
Signature: Mike K
Month 3 Day 21 Year 22
Transporter 2 Printed/Typed Name: RICARDO ALUMA
Signature:
Month 3 Day 28 Year 22

DESIGNATED FACILITY
17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:
17c. Signature of Alternate Facility (or Generator) Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name: Dawn Dunlop
Signature:
Month 4 Day 19 Year 22

DESIGNATED FACILITY TO GENERATOR

487706

NON-HAZARDOUS WASTE MANIFEST (Continuation Sheet)

19. Generator ID Number: WAVSQG

20. Page: 2 of 2

21. Waste Tracking Number: 345399/D423364

22. Generator's Name

City Investors XI LLC
600 to 603 Westlake Avenue North
Seattle, WA 98109

23. Transporter 3 Company Name: Union Pacific Railroad — U.S. EPA ID Number: NED981782910

24. Transporter _____ Company Name — U.S. EPA ID Number

	25. Waste Shipping Name and Description		26. Containers No.	26. Containers Type	27. Total Quantity	28. Unit Wt./Vol.	

29. Special Handling Instructions and Additional Information

GENERATOR

TRANSPORTOR

30. Transporter 3 Acknowledgment of Receipt of Materials
Printed/Typed Name: JR — Signature — Month: 3 — Day: 28 — Year: 22

31. Transporter _____ Acknowledgment of Receipt of Materials
Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

32. Discrepancy

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

493478

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
WAVSQG	2	888-785-7225	405722/D491866

GENERATOR

5. Generator's Name and Mailing Address

City Investors XI LLC
505 5th Avenue South, Suite 900
Seattle, WA 98109
Generator's Phone: 508-264-1516

Generator's Site Address (if different than mailing address)

City Investors XI LLC
630 Westlake Ave N
Seattle, WA 98109

6. Transporter 1 Company Name — U.S. EPA ID Number

Advanced Chemical Transport Inc./DBA ACTenviro — CAR000070540

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

NRC Environmental Services — CAR000030114

8. Designated Facility Name and Site Address — U.S. EPA ID Number

Chemical Waste Management of the Northwest
17629 Cedar Springs Lane
Arlington, OR 97812
Facility's Phone: 541-454-2030

ORD089452353

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	Non-RCRA/Non-DOT Regulated Material Solid (SOIL CUTTINGS)	43	DM	17,200	P
2.	Non-RCRA/Non-DOT Regulated Material Liquid (GROUNDWATER)	3	DM	800	P
3.					
4.					

13. Special Handling Instructions and Additional Information

Project Number 405722 Document #: D491866

1) OR353076 CIC-43.55 gal DM Soil 2) OR353077 CIC-3.55 gal DM Water

980604

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Generator's/Offeror's Printed/Typed Name: Scott Loidhamer — Authorized to sign on behalf of City Investors — Signature — Month 12 Day 15 Year 22

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Scott Loidhamer — Signature — Month 12 Day 15 Year 22

Transporter 2 Printed/Typed Name: G. Kelly — Signature — Month 12 Day 27 Year 22

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Dawn Dunlap — Signature — Month 1 Day 16 Year 23

Printed in USA by GC Labels
1-800-997-6966

DESIGNATED FACILITY TO GENERATOR

BMS

Reorder Part# MANIFEST-C6NHW
913-897-6966

493478

NON-HAZARDOUS WASTE MANIFEST (Continuation Sheet)

19. Generator ID Number: WAVSQG

20. Page: 2 of 2

21. Waste Tracking Number: 405722/D491866

22. Generator's Name
City Investors XI LLC
630 Westlake Ave N
Seattle, WA 98109

23. Transporter 3 Company Name: Union Pacific Railroad
U.S. EPA ID Number: NED001792910

24. Transporter 4 Company Name: PCC
U.S. EPA ID Number: 08000041180

	25. Waste Shipping Name and Description	26. Containers No.	26. Containers Type	27. Total Quantity	28. Unit Wt./Vol.	

GENERATOR

29. Special Handling Instructions and Additional Information

TRANSPORTOR

30. Transporter 3 Acknowledgment of Receipt of Materials
Printed/Typed Name: Jason Stern
Signature:
Month: 12 Day: 27 Year: 22

31. Transporter 4 Acknowledgment of Receipt of Materials
Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

32. Discrepancy

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1-800-997-6966

DESIGNATED FACILITY TO GENERATOR

Reorder Part# C6NHWCON
www.gclabels.com

APPENDIX E
Laboratory Analytical Reports

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

February 8, 2022

Brani Jurista
Farallon Consulting
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 397-066
Laboratory Reference No. 2201-231

Dear Brani:

Enclosed are the analytical results and associated quality control data for samples submitted on January 27, 2022.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: February 8, 2022
Samples Submitted: January 27, 2022
Laboratory Reference: 2201-231
Project: 397-066

Case Narrative

Samples were collected on January 26, 2022 and received by the laboratory on January 27, 2022. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: February 8, 2022
Samples Submitted: January 27, 2022
Laboratory Reference: 2201-231
Project: 397-066

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**PH-1-15.0**					
Laboratory ID:	01-231-01					
Gasoline	**ND**	5.8	NWTPH-Gx	1-31-22	1-31-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*101*	*66-129*				
Client ID:	**PH-1-20.0**					
Laboratory ID:	01-231-02					
Gasoline	**ND**	5.6	NWTPH-Gx	1-31-22	1-31-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*96*	*66-129*				
Client ID:	**PH-1-25.0**					
Laboratory ID:	01-231-03					
Gasoline	**ND**	6.8	NWTPH-Gx	1-31-22	1-31-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*103*	*66-129*				
Client ID:	**PH-1-30.0**					
Laboratory ID:	01-231-04					
Gasoline	**ND**	7.1	NWTPH-Gx	1-31-22	1-31-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*95*	*66-129*				
Client ID:	**PH-1-35.0**					
Laboratory ID:	01-231-05					
Gasoline	**ND**	5.8	NWTPH-Gx	1-31-22	1-31-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*95*	*66-129*				
Client ID:	**AMW-1-15.0**					
Laboratory ID:	01-231-09					
Gasoline	**ND**	6.5	NWTPH-Gx	1-31-22	1-31-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*101*	*66-129*				
Client ID:	**AMW-1-20.0**					
Laboratory ID:	01-231-10					
Gasoline	**ND**	5.3	NWTPH-Gx	1-31-22	1-31-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*96*	*66-129*				

Date of Report: February 8, 2022
Samples Submitted: January 27, 2022
Laboratory Reference: 2201-231
Project: 397-066

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**AMW-1-25.0**					
Laboratory ID:	01-231-11					
Gasoline	**ND**	6.9	NWTPH-Gx	1-31-22	1-31-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*94*	*66-129*				
Client ID:	**AMW-1-30.0**					
Laboratory ID:	01-231-12					
Gasoline	**ND**	7.6	NWTPH-Gx	1-31-22	1-31-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*96*	*66-129*				
Client ID:	**AMW-1-35.0**					
Laboratory ID:	01-231-13					
Gasoline	**ND**	6.1	NWTPH-Gx	1-31-22	1-31-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*107*	*66-129*				

Date of Report: February 8, 2022
Samples Submitted: January 27, 2022
Laboratory Reference: 2201-231
Project: 397-066

GASOLINE RANGE ORGANICS
NWTPH-Gx
QUALITY CONTROL

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0131S2					
Gasoline	**ND**	5.0	NWTPH-Gx	1-31-22	1-31-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*92*	*66-129*				

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	01-231-01									
	ORIG	DUP								
Gasoline	**ND**	**ND**	NA	NA		NA	NA	NA	30	
Surrogate:										
Fluorobenzene						*101*	*98*	*66-129*		

Date of Report: February 8, 2022
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Laboratory Reference: 2201-231
Project: 397-066

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**PH-1-15.0**					
Laboratory ID:	01-231-01					
Diesel Range Organics	**ND**	31	NWTPH-Dx	2-2-22	2-3-22	
Lube Oil Range Organics	**ND**	61	NWTPH-Dx	2-2-22	2-3-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*79*	*50-150*				
Client ID:	**PH-1-20.0**					
Laboratory ID:	01-231-02					
Diesel Range Organics	**ND**	30	NWTPH-Dx	2-2-22	2-3-22	
Lube Oil Range Organics	**ND**	60	NWTPH-Dx	2-2-22	2-3-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*91*	*50-150*				
Client ID:	**PH-1-25.0**					
Laboratory ID:	01-231-03					
Diesel Range Organics	**ND**	30	NWTPH-Dx	2-2-22	2-3-22	
Lube Oil Range Organics	**ND**	61	NWTPH-Dx	2-2-22	2-3-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*99*	*50-150*				
Client ID:	**PH-1-30.0**					
Laboratory ID:	01-231-04					
Diesel Range Organics	**ND**	31	NWTPH-Dx	2-2-22	2-3-22	
Lube Oil Range Organics	**ND**	62	NWTPH-Dx	2-2-22	2-3-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*97*	*50-150*				
Client ID:	**PH-1-35.0**					
Laboratory ID:	01-231-05					
Diesel Range Organics	**ND**	32	NWTPH-Dx	2-2-22	2-3-22	
Lube Oil Range Organics	**ND**	63	NWTPH-Dx	2-2-22	2-3-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*95*	*50-150*				
Client ID:	**AMW-1-15.0**					
Laboratory ID:	01-231-09					
Diesel Range Organics	**ND**	31	NWTPH-Dx	2-2-22	2-3-22	
Lube Oil Range Organics	**ND**	62	NWTPH-Dx	2-2-22	2-3-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*95*	*50-150*				

Date of Report: February 8, 2022
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Project: 397-066

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**AMW-1-20.0**					
Laboratory ID:	01-231-10					
Diesel Range Organics	**ND**	29	NWTPH-Dx	2-2-22	2-3-22	
Lube Oil Range Organics	**ND**	58	NWTPH-Dx	2-2-22	2-3-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*98*	*50-150*				
Client ID:	**AMW-1-25.0**					
Laboratory ID:	01-231-11					
Diesel Range Organics	**ND**	29	NWTPH-Dx	2-2-22	2-3-22	
Lube Oil Range Organics	**ND**	58	NWTPH-Dx	2-2-22	2-3-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*108*	*50-150*				
Client ID:	**AMW-1-30.0**					
Laboratory ID:	01-231-12					
Diesel Range Organics	**ND**	30	NWTPH-Dx	2-2-22	2-3-22	
Lube Oil Range Organics	**ND**	60	NWTPH-Dx	2-2-22	2-3-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*99*	*50-150*				
Client ID:	**AMW-1-35.0**					
Laboratory ID:	01-231-13					
Diesel Range Organics	**ND**	30	NWTPH-Dx	2-2-22	2-3-22	
Lube Oil Range Organics	**ND**	61	NWTPH-Dx	2-2-22	2-3-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*104*	*50-150*				

Date of Report: February 8, 2022
Samples Submitted: January 27, 2022
Laboratory Reference: 2201-231
Project: 397-066

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0202S3					
Diesel Range Organics	**ND**	25	NWTPH-Dx	2-2-22	2-3-22	
Lube Oil Range Organics	**ND**	50	NWTPH-Dx	2-2-22	2-3-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*107*	*50-150*				

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	01-231-02									
	ORIG	DUP								
Diesel Range	**ND**	**ND**	NA	NA		NA	NA	NA	NA	
Lube Oil Range	**ND**	**ND**	NA	NA		NA	NA	NA	NA	
Surrogate:										
o-Terphenyl						*91* *96*	*50-150*			

Date of Report: February 8, 2022
Samples Submitted: January 27, 2022
Laboratory Reference: 2201-231
Project: 397-066

VOLATILE ORGANICS EPA 8260D

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**PH-1-15.0**					
Laboratory ID:	01-231-01					
Benzene	ND	0.0011	EPA 8260D	2-1-22	2-1-22	
Toluene	ND	0.0057	EPA 8260D	2-1-22	2-1-22	
Ethylbenzene	ND	0.0011	EPA 8260D	2-1-22	2-1-22	
m,p-Xylene	ND	0.0023	EPA 8260D	2-1-22	2-1-22	
o-Xylene	ND	0.0011	EPA 8260D	2-1-22	2-1-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*97*	*74-131*				
Toluene-d8	*99*	*78-128*				
4-Bromofluorobenzene	*103*	*71-130*				
Client ID:	**PH-1-20.0**					
Laboratory ID:	01-231-02					
Benzene	ND	0.00083	EPA 8260D	2-1-22	2-1-22	
Toluene	ND	0.0042	EPA 8260D	2-1-22	2-1-22	
Ethylbenzene	ND	0.00083	EPA 8260D	2-1-22	2-1-22	
m,p-Xylene	ND	0.0017	EPA 8260D	2-1-22	2-1-22	
o-Xylene	ND	0.00083	EPA 8260D	2-1-22	2-1-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*97*	*74-131*				
Toluene-d8	*100*	*78-128*				
4-Bromofluorobenzene	*103*	*71-130*				
Client ID:	**PH-1-25.0**					
Laboratory ID:	01-231-03					
Benzene	ND	0.0012	EPA 8260D	2-1-22	2-1-22	
Toluene	ND	0.0058	EPA 8260D	2-1-22	2-1-22	
Ethylbenzene	ND	0.0012	EPA 8260D	2-1-22	2-1-22	
m,p-Xylene	ND	0.0023	EPA 8260D	2-1-22	2-1-22	
o-Xylene	ND	0.0012	EPA 8260D	2-1-22	2-1-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*97*	*74-131*				
Toluene-d8	*101*	*78-128*				
4-Bromofluorobenzene	*103*	*71-130*				

Date of Report: February 8, 2022
Samples Submitted: January 27, 2022
Laboratory Reference: 2201-231
Project: 397-066

VOLATILE ORGANICS EPA 8260D

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**PH-1-30.0**					
Laboratory ID:	01-231-04					
Benzene	ND	0.0012	EPA 8260D	2-1-22	2-1-22	
Toluene	ND	0.0059	EPA 8260D	2-1-22	2-1-22	
Ethylbenzene	ND	0.0012	EPA 8260D	2-1-22	2-1-22	
m,p-Xylene	ND	0.0024	EPA 8260D	2-1-22	2-1-22	
o-Xylene	ND	0.0012	EPA 8260D	2-1-22	2-1-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*97*	*74-131*				
Toluene-d8	*100*	*78-128*				
4-Bromofluorobenzene	*102*	*71-130*				
Client ID:	**PH-1-35.0**					
Laboratory ID:	01-231-05					
Benzene	ND	0.0012	EPA 8260D	2-1-22	2-1-22	
Toluene	ND	0.0059	EPA 8260D	2-1-22	2-1-22	
Ethylbenzene	ND	0.0012	EPA 8260D	2-1-22	2-1-22	
m,p-Xylene	ND	0.0024	EPA 8260D	2-1-22	2-1-22	
o-Xylene	ND	0.0012	EPA 8260D	2-1-22	2-1-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*95*	*74-131*				
Toluene-d8	*100*	*78-128*				
4-Bromofluorobenzene	*103*	*71-130*				
Client ID:	**AMW-1-15.0**					
Laboratory ID:	01-231-09					
Benzene	ND	0.0011	EPA 8260D	2-1-22	2-1-22	
Toluene	ND	0.0057	EPA 8260D	2-1-22	2-1-22	
Ethylbenzene	ND	0.0011	EPA 8260D	2-1-22	2-1-22	
m,p-Xylene	ND	0.0023	EPA 8260D	2-1-22	2-1-22	
o-Xylene	ND	0.0011	EPA 8260D	2-1-22	2-1-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*96*	*74-131*				
Toluene-d8	*101*	*78-128*				
4-Bromofluorobenzene	*102*	*71-130*				

Date of Report: February 8, 2022
Samples Submitted: January 27, 2022
Laboratory Reference: 2201-231
Project: 397-066

VOLATILE ORGANICS EPA 8260D

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**AMW-1-20.0**					
Laboratory ID:	01-231-10					
Benzene	ND	0.00095	EPA 8260D	2-1-22	2-1-22	
Toluene	ND	0.0047	EPA 8260D	2-1-22	2-1-22	
Ethylbenzene	ND	0.00095	EPA 8260D	2-1-22	2-1-22	
m,p-Xylene	ND	0.0019	EPA 8260D	2-1-22	2-1-22	
o-Xylene	ND	0.00095	EPA 8260D	2-1-22	2-1-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*95*	*74-131*				
Toluene-d8	*100*	*78-128*				
4-Bromofluorobenzene	*102*	*71-130*				
Client ID:	**AMW-1-25.0**					
Laboratory ID:	01-231-11					
Benzene	ND	0.0011	EPA 8260D	2-1-22	2-1-22	
Toluene	ND	0.0057	EPA 8260D	2-1-22	2-1-22	
Ethylbenzene	ND	0.0011	EPA 8260D	2-1-22	2-1-22	
m,p-Xylene	ND	0.0023	EPA 8260D	2-1-22	2-1-22	
o-Xylene	ND	0.0011	EPA 8260D	2-1-22	2-1-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*98*	*74-131*				
Toluene-d8	*100*	*78-128*				
4-Bromofluorobenzene	*102*	*71-130*				
Client ID:	**AMW-1-30.0**					
Laboratory ID:	01-231-12					
Benzene	ND	0.0013	EPA 8260D	2-1-22	2-1-22	
Toluene	ND	0.0064	EPA 8260D	2-1-22	2-1-22	
Ethylbenzene	ND	0.0013	EPA 8260D	2-1-22	2-1-22	
m,p-Xylene	ND	0.0026	EPA 8260D	2-1-22	2-1-22	
o-Xylene	ND	0.0013	EPA 8260D	2-1-22	2-1-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*87*	*74-131*				
Toluene-d8	*94*	*78-128*				
4-Bromofluorobenzene	*93*	*71-130*				

Date of Report: February 8, 2022
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Laboratory Reference: 2201-231
Project: 397-066

VOLATILE ORGANICS EPA 8260D

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**AMW-1-35.0**					
Laboratory ID:	01-231-13					
Benzene	ND	0.00089	EPA 8260D	2-1-22	2-1-22	
Toluene	ND	0.0045	EPA 8260D	2-1-22	2-1-22	
Ethylbenzene	ND	0.00089	EPA 8260D	2-1-22	2-1-22	
m,p-Xylene	ND	0.0018	EPA 8260D	2-1-22	2-1-22	
o-Xylene	ND	0.00089	EPA 8260D	2-1-22	2-1-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*83*	*74-131*				
Toluene-d8	*93*	*78-128*				
4-Bromofluorobenzene	*88*	*71-130*				

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Laboratory Reference: 2201-231
Project: 397-066

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0201S2					
Benzene	ND	0.0010	EPA 8260D	2-1-22	2-1-22	
Toluene	ND	0.0050	EPA 8260D	2-1-22	2-1-22	
Ethylbenzene	ND	0.0010	EPA 8260D	2-1-22	2-1-22	
m,p-Xylene	ND	0.0020	EPA 8260D	2-1-22	2-1-22	
o-Xylene	ND	0.0010	EPA 8260D	2-1-22	2-1-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*96*	*74-131*				
Toluene-d8	*100*	*78-128*				
4-Bromofluorobenzene	*99*	*71-130*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0201S2									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	**0.0561**	**0.0583**	0.0500	0.0500	112	117	71-131	4	19	
Benzene	**0.0548**	**0.0566**	0.0500	0.0500	110	113	73-124	3	18	
Trichloroethene	**0.0570**	**0.0600**	0.0500	0.0500	114	120	79-130	5	18	
Toluene	**0.0540**	**0.0561**	0.0500	0.0500	108	112	76-123	4	18	
Chlorobenzene	**0.0519**	**0.0535**	0.0500	0.0500	104	107	78-122	3	18	
Surrogate:										
Dibromofluoromethane					*97*	*98*	*74-131*			
Toluene-d8					*100*	*100*	*78-128*			
4-Bromofluorobenzene					*103*	*102*	*71-130*			

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Laboratory Reference: 2201-231
Project: 397-066

PAHs EPA 8270E/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags	MDL
Client ID:	**PH-1-15.0**						
Laboratory ID:	01-231-01						
Naphthalene	**ND**	0.0024	EPA 8270E/SIM	2-4-22	2-5-22		
2-Methylnaphthalene	**ND**	0.0024	EPA 8270E/SIM	2-4-22	2-5-22		
1-Methylnaphthalene	**ND**	0.0024	EPA 8270E/SIM	2-4-22	2-5-22		
Benzo[a]anthracene	**0.00073**	0.0024	EPA 8270E/SIM	2-4-22	2-5-22	J	0.00033
Chrysene	**0.00087**	0.0024	EPA 8270E/SIM	2-4-22	2-5-22	J	0.00029
Benzo[b]fluoranthene	**0.0011**	0.0024	EPA 8270E/SIM	2-4-22	2-5-22	J	0.00030
Benzo(j,k)fluoranthene	**0.00045**	0.0024	EPA 8270E/SIM	2-4-22	2-5-22	J	0.00029
Benzo[a]pyrene	**0.0011**	0.0024	EPA 8270E/SIM	2-4-22	2-5-22	J	0.00037
Indeno(1,2,3-c,d)pyrene	**0.00065**	0.0024	EPA 8270E/SIM	2-4-22	2-5-22	J	0.00030
Dibenz[a,h]anthracene	**ND**	0.0024	EPA 8270E/SIM	2-4-22	2-5-22		0.00024
Surrogate:	*Percent Recovery*	*Control Limits*					
2-Fluorobiphenyl	*77*	*41 - 114*					
Pyrene-d10	*90*	*39 - 115*					
Terphenyl-d14	*105*	*44 - 125*					

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags	MDL
Client ID:	**PH-1-20.0**						
Laboratory ID:	01-231-02						
Naphthalene	**ND**	0.0024	EPA 8270E/SIM	2-4-22	2-5-22		
2-Methylnaphthalene	**ND**	0.0024	EPA 8270E/SIM	2-4-22	2-5-22		
1-Methylnaphthalene	**ND**	0.0024	EPA 8270E/SIM	2-4-22	2-5-22		
Benzo[a]anthracene	**0.0015**	0.0024	EPA 8270E/SIM	2-4-22	2-5-22	J	0.00032
Chrysene	**0.0021**	0.0024	EPA 8270E/SIM	2-4-22	2-5-22	J	0.00029
Benzo[b]fluoranthene	**0.0023**	0.0024	EPA 8270E/SIM	2-4-22	2-5-22	J	0.00030
Benzo(j,k)fluoranthene	**0.00074**	0.0024	EPA 8270E/SIM	2-4-22	2-5-22	J	0.00028
Benzo[a]pyrene	**0.0023**	0.0024	EPA 8270E/SIM	2-4-22	2-5-22	J	0.00037
Indeno(1,2,3-c,d)pyrene	**0.0016**	0.0024	EPA 8270E/SIM	2-4-22	2-5-22	J	0.00029
Dibenz[a,h]anthracene	**0.00035**	0.0024	EPA 8270E/SIM	2-4-22	2-5-22	J	0.00023
Surrogate:	*Percent Recovery*	*Control Limits*					
2-Fluorobiphenyl	*83*	*41 - 114*					
Pyrene-d10	*94*	*39 - 115*					
Terphenyl-d14	*115*	*44 - 125*					

Date of Report: February 8, 2022
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PAHs EPA 8270E/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags	MDL
Client ID:	**PH-1-25.0**						
Laboratory ID:	01-231-03						
Naphthalene	**ND**	0.0024	EPA 8270E/SIM	2-4-22	2-5-22		
2-Methylnaphthalene	**ND**	0.0024	EPA 8270E/SIM	2-4-22	2-5-22		
1-Methylnaphthalene	**ND**	0.0024	EPA 8270E/SIM	2-4-22	2-5-22		
Benzo[a]anthracene	**0.00087**	0.0024	EPA 8270E/SIM	2-4-22	2-5-22	J	0.00032
Chrysene	**0.00089**	0.0024	EPA 8270E/SIM	2-4-22	2-5-22	J	0.00029
Benzo[b]fluoranthene	**0.0012**	0.0024	EPA 8270E/SIM	2-4-22	2-5-22	J	0.00030
Benzo(j,k)fluoranthene	**0.00036**	0.0024	EPA 8270E/SIM	2-4-22	2-5-22	J	0.00029
Benzo[a]pyrene	**0.0012**	0.0024	EPA 8270E/SIM	2-4-22	2-5-22	J	0.00037
Indeno(1,2,3-c,d)pyrene	**0.00076**	0.0024	EPA 8270E/SIM	2-4-22	2-5-22	J	0.00029
Dibenz[a,h]anthracene	**ND**	0.0024	EPA 8270E/SIM	2-4-22	2-5-22		0.00024
Surrogate:	*Percent Recovery*	*Control Limits*					
2-Fluorobiphenyl	*83*	*41 - 114*					
Pyrene-d10	*90*	*39 - 115*					
Terphenyl-d14	*111*	*44 - 125*					

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags	MDL
Client ID:	**PH-1-30.0**						
Laboratory ID:	01-231-04						
Naphthalene	**ND**	0.0025	EPA 8270E/SIM	2-4-22	2-4-22		
2-Methylnaphthalene	**ND**	0.0025	EPA 8270E/SIM	2-4-22	2-4-22		
1-Methylnaphthalene	**ND**	0.0025	EPA 8270E/SIM	2-4-22	2-4-22		
Benzo[a]anthracene	**ND**	0.0025	EPA 8270E/SIM	2-4-22	2-4-22		0.00033
Chrysene	**ND**	0.0025	EPA 8270E/SIM	2-4-22	2-4-22		0.00030
Benzo[b]fluoranthene	**ND**	0.0025	EPA 8270E/SIM	2-4-22	2-4-22		0.00031
Benzo(j,k)fluoranthene	**ND**	0.0025	EPA 8270E/SIM	2-4-22	2-4-22		0.00029
Benzo[a]pyrene	**ND**	0.0025	EPA 8270E/SIM	2-4-22	2-4-22		0.00038
Indeno(1,2,3-c,d)pyrene	**ND**	0.0025	EPA 8270E/SIM	2-4-22	2-4-22		0.00030
Dibenz[a,h]anthracene	**ND**	0.0025	EPA 8270E/SIM	2-4-22	2-4-22		0.00024
Surrogate:	*Percent Recovery*	*Control Limits*					
2-Fluorobiphenyl	*84*	*41 - 114*					
Pyrene-d10	*90*	*39 - 115*					
Terphenyl-d14	*105*	*44 - 125*					

Date of Report: February 8, 2022
Samples Submitted: January 27, 2022
Laboratory Reference: 2201-231
Project: 397-066

PAHs EPA 8270E/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags	MDL
Client ID:	**PH-1-35.0**						
Laboratory ID:	01-231-05						
Naphthalene	**ND**	0.0025	EPA 8270E/SIM	2-4-22	2-4-22		
2-Methylnaphthalene	**ND**	0.0025	EPA 8270E/SIM	2-4-22	2-4-22		
1-Methylnaphthalene	**ND**	0.0025	EPA 8270E/SIM	2-4-22	2-4-22		
Benzo[a]anthracene	**ND**	0.0025	EPA 8270E/SIM	2-4-22	2-4-22		0.00034
Chrysene	**ND**	0.0025	EPA 8270E/SIM	2-4-22	2-4-22		0.00030
Benzo[b]fluoranthene	**ND**	0.0025	EPA 8270E/SIM	2-4-22	2-4-22		0.00031
Benzo(j,k)fluoranthene	**ND**	0.0025	EPA 8270E/SIM	2-4-22	2-4-22		0.00030
Benzo[a]pyrene	**ND**	0.0025	EPA 8270E/SIM	2-4-22	2-4-22		0.00039
Indeno(1,2,3-c,d)pyrene	**ND**	0.0025	EPA 8270E/SIM	2-4-22	2-4-22		0.00031
Dibenz[a,h]anthracene	**ND**	0.0025	EPA 8270E/SIM	2-4-22	2-4-22		0.00025
Surrogate:	*Percent Recovery*	*Control Limits*					
2-Fluorobiphenyl	*86*	*41 - 114*					
Pyrene-d10	*91*	*39 - 115*					
Terphenyl-d14	*107*	*44 - 125*					
Client ID:	**AMW-1-15.0**						
Laboratory ID:	01-231-09						
Naphthalene	**ND**	0.0025	EPA 8270E/SIM	2-4-22	2-5-22		
2-Methylnaphthalene	**ND**	0.0025	EPA 8270E/SIM	2-4-22	2-5-22		
1-Methylnaphthalene	**ND**	0.0025	EPA 8270E/SIM	2-4-22	2-5-22		
Benzo[a]anthracene	**0.00061**	0.0025	EPA 8270E/SIM	2-4-22	2-5-22	J	0.00033
Chrysene	**0.00069**	0.0025	EPA 8270E/SIM	2-4-22	2-5-22	J	0.00029
Benzo[b]fluoranthene	**0.00087**	0.0025	EPA 8270E/SIM	2-4-22	2-5-22	J	0.00031
Benzo(j,k)fluoranthene	**ND**	0.0025	EPA 8270E/SIM	2-4-22	2-5-22		0.00029
Benzo[a]pyrene	**0.00061**	0.0025	EPA 8270E/SIM	2-4-22	2-5-22	J	0.00038
Indeno(1,2,3-c,d)pyrene	**0.00042**	0.0025	EPA 8270E/SIM	2-4-22	2-5-22	J	0.00030
Dibenz[a,h]anthracene	**ND**	0.0025	EPA 8270E/SIM	2-4-22	2-5-22		0.00024
Surrogate:	*Percent Recovery*	*Control Limits*					
2-Fluorobiphenyl	*80*	*41 - 114*					
Pyrene-d10	*92*	*39 - 115*					
Terphenyl-d14	*103*	*44 - 125*					

Date of Report: February 8, 2022
Samples Submitted: January 27, 2022
Laboratory Reference: 2201-231
Project: 397-066

PAHs EPA 8270E/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags	MDL
Client ID:	**AMW-1-20.0**						
Laboratory ID:	01-231-10						
Naphthalene	**ND**	0.0023	EPA 8270E/SIM	2-4-22	2-5-22		
2-Methylnaphthalene	**ND**	0.0023	EPA 8270E/SIM	2-4-22	2-5-22		
1-Methylnaphthalene	**ND**	0.0023	EPA 8270E/SIM	2-4-22	2-5-22		
Benzo[a]anthracene	**0.00096**	0.0023	EPA 8270E/SIM	2-4-22	2-5-22	J	0.00031
Chrysene	**0.00088**	0.0023	EPA 8270E/SIM	2-4-22	2-5-22	J	0.00028
Benzo[b]fluoranthene	**0.0012**	0.0023	EPA 8270E/SIM	2-4-22	2-5-22	J	0.00029
Benzo(j,k)fluoranthene	**0.00036**	0.0023	EPA 8270E/SIM	2-4-22	2-5-22	J	0.00027
Benzo[a]pyrene	**0.0012**	0.0023	EPA 8270E/SIM	2-4-22	2-5-22	J	0.00035
Indeno(1,2,3-c,d)pyrene	**0.00068**	0.0023	EPA 8270E/SIM	2-4-22	2-5-22	J	0.00028
Dibenz[a,h]anthracene	**ND**	0.0023	EPA 8270E/SIM	2-4-22	2-5-22		0.00023
Surrogate:	*Percent Recovery*	*Control Limits*					
2-Fluorobiphenyl	*90*	*41 - 114*					
Pyrene-d10	*93*	*39 - 115*					
Terphenyl-d14	*106*	*44 - 125*					

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags	MDL
Client ID:	**AMW-1-25.0**						
Laboratory ID:	01-231-11						
Naphthalene	**ND**	0.0023	EPA 8270E/SIM	2-4-22	2-4-22		
2-Methylnaphthalene	**ND**	0.0023	EPA 8270E/SIM	2-4-22	2-4-22		
1-Methylnaphthalene	**ND**	0.0023	EPA 8270E/SIM	2-4-22	2-4-22		
Benzo[a]anthracene	**ND**	0.0023	EPA 8270E/SIM	2-4-22	2-4-22		0.00031
Chrysene	**ND**	0.0023	EPA 8270E/SIM	2-4-22	2-4-22		0.00028
Benzo[b]fluoranthene	**ND**	0.0023	EPA 8270E/SIM	2-4-22	2-4-22		0.00029
Benzo(j,k)fluoranthene	**ND**	0.0023	EPA 8270E/SIM	2-4-22	2-4-22		0.00028
Benzo[a]pyrene	**ND**	0.0023	EPA 8270E/SIM	2-4-22	2-4-22		0.00036
Indeno(1,2,3-c,d)pyrene	**ND**	0.0023	EPA 8270E/SIM	2-4-22	2-4-22		0.00028
Dibenz[a,h]anthracene	**ND**	0.0023	EPA 8270E/SIM	2-4-22	2-4-22		0.00023
Surrogate:	*Percent Recovery*	*Control Limits*					
2-Fluorobiphenyl	*93*	*41 - 114*					
Pyrene-d10	*95*	*39 - 115*					
Terphenyl-d14	*113*	*44 - 125*					

Date of Report: February 8, 2022
Samples Submitted: January 27, 2022
Laboratory Reference: 2201-231
Project: 397-066

PAHs EPA 8270E/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags	MDL
Client ID:	**AMW-1-30.0**						
Laboratory ID:	01-231-12						
Naphthalene	**ND**	0.0024	EPA 8270E/SIM	2-4-22	2-4-22		
2-Methylnaphthalene	**ND**	0.0024	EPA 8270E/SIM	2-4-22	2-4-22		
1-Methylnaphthalene	**ND**	0.0024	EPA 8270E/SIM	2-4-22	2-4-22		
Benzo[a]anthracene	**ND**	0.0024	EPA 8270E/SIM	2-4-22	2-4-22		0.00032
Chrysene	**ND**	0.0024	EPA 8270E/SIM	2-4-22	2-4-22		0.00029
Benzo[b]fluoranthene	**ND**	0.0024	EPA 8270E/SIM	2-4-22	2-4-22		0.00030
Benzo(j,k)fluoranthene	**ND**	0.0024	EPA 8270E/SIM	2-4-22	2-4-22		0.00029
Benzo[a]pyrene	**ND**	0.0024	EPA 8270E/SIM	2-4-22	2-4-22		0.00037
Indeno(1,2,3-c,d)pyrene	**ND**	0.0024	EPA 8270E/SIM	2-4-22	2-4-22		0.00029
Dibenz[a,h]anthracene	**ND**	0.0024	EPA 8270E/SIM	2-4-22	2-4-22		0.00024
Surrogate:	*Percent Recovery*	*Control Limits*					
2-Fluorobiphenyl	*89*	*41 - 114*					
Pyrene-d10	*93*	*39 - 115*					
Terphenyl-d14	*111*	*44 - 125*					

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags	MDL
Client ID:	**AMW-1-35.0**						
Laboratory ID:	01-231-13						
Naphthalene	**ND**	0.0024	EPA 8270E/SIM	2-4-22	2-4-22		
2-Methylnaphthalene	**ND**	0.0024	EPA 8270E/SIM	2-4-22	2-4-22		
1-Methylnaphthalene	**ND**	0.0024	EPA 8270E/SIM	2-4-22	2-4-22		
Benzo[a]anthracene	**ND**	0.0024	EPA 8270E/SIM	2-4-22	2-4-22		0.00032
Chrysene	**ND**	0.0024	EPA 8270E/SIM	2-4-22	2-4-22		0.00029
Benzo[b]fluoranthene	**ND**	0.0024	EPA 8270E/SIM	2-4-22	2-4-22		0.00030
Benzo(j,k)fluoranthene	**ND**	0.0024	EPA 8270E/SIM	2-4-22	2-4-22		0.00029
Benzo[a]pyrene	**ND**	0.0024	EPA 8270E/SIM	2-4-22	2-4-22		0.00037
Indeno(1,2,3-c,d)pyrene	**ND**	0.0024	EPA 8270E/SIM	2-4-22	2-4-22		0.00029
Dibenz[a,h]anthracene	**ND**	0.0024	EPA 8270E/SIM	2-4-22	2-4-22		0.00024
Surrogate:	*Percent Recovery*	*Control Limits*					
2-Fluorobiphenyl	*93*	*41 - 114*					
Pyrene-d10	*90*	*39 - 115*					
Terphenyl-d14	*104*	*44 - 125*					

Date of Report: February 8, 2022
Samples Submitted: January 27, 2022
Laboratory Reference: 2201-231
Project: 397-066

PAHs EPA 8270E/SIM
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags	MDL
METHOD BLANK							
Laboratory ID:	MB0204S1						
Naphthalene	**ND**	0.0020	EPA 8270E/SIM	2-4-22	2-4-22		
2-Methylnaphthalene	**ND**	0.0020	EPA 8270E/SIM	2-4-22	2-4-22		
1-Methylnaphthalene	**ND**	0.0020	EPA 8270E/SIM	2-4-22	2-4-22		
Benzo[a]anthracene	**ND**	0.0020	EPA 8270E/SIM	2-4-22	2-4-22		0.00027
Chrysene	**ND**	0.0020	EPA 8270E/SIM	2-4-22	2-4-22		0.00024
Benzo[b]fluoranthene	**ND**	0.0020	EPA 8270E/SIM	2-4-22	2-4-22		0.00025
Benzo(j,k)fluoranthene	**ND**	0.0020	EPA 8270E/SIM	2-4-22	2-4-22		0.00024
Benzo[a]pyrene	**ND**	0.0020	EPA 8270E/SIM	2-4-22	2-4-22		0.00031
Indeno(1,2,3-c,d)pyrene	**ND**	0.0020	EPA 8270E/SIM	2-4-22	2-4-22		0.00024
Dibenz[a,h]anthracene	**ND**	0.0020	EPA 8270E/SIM	2-4-22	2-4-22		0.00020
Surrogate:	*Percent Recovery*	*Control Limits*					
2-Fluorobiphenyl	*92*	*41 - 114*					
Pyrene-d10	*102*	*39 - 115*					
Terphenyl-d14	*125*	*44 - 125*					

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0204S1									
	SB	SBD	SB	SBD	SB	SBD				
Naphthalene	**0.0825**	**0.0784**	0.0833	0.0833	99	94	57 - 117	5	16	
Acenaphthylene	**0.0986**	**0.0958**	0.0833	0.0833	118	115	58 - 126	3	15	
Acenaphthene	**0.0972**	**0.0920**	0.0833	0.0833	117	110	61 - 122	5	15	
Fluorene	**0.0889**	**0.0841**	0.0833	0.0833	107	101	59 - 127	6	15	
Phenanthrene	**0.0869**	**0.0849**	0.0833	0.0833	104	102	58 - 124	2	15	
Anthracene	**0.0894**	**0.0873**	0.0833	0.0833	107	105	64 - 128	2	15	
Fluoranthene	**0.0881**	**0.0894**	0.0833	0.0833	106	107	63 - 128	1	15	
Pyrene	**0.0951**	**0.0953**	0.0833	0.0833	114	114	62 - 129	0	15	
Benzo[a]anthracene	**0.102**	**0.0981**	0.0833	0.0833	122	118	64 - 138	4	15	
Chrysene	**0.0940**	**0.0915**	0.0833	0.0833	113	110	63 - 128	3	15	
Benzo[b]fluoranthene	**0.0945**	**0.0941**	0.0833	0.0833	113	113	62 - 129	0	15	
Benzo(j,k)fluoranthene	**0.0889**	**0.0847**	0.0833	0.0833	107	102	59 - 134	5	16	
Benzo[a]pyrene	**0.0937**	**0.0907**	0.0833	0.0833	112	109	63 - 132	3	15	
Indeno(1,2,3-c,d)pyrene	**0.0949**	**0.0935**	0.0833	0.0833	114	112	58 - 132	1	15	
Dibenz[a,h]anthracene	**0.0954**	**0.0921**	0.0833	0.0833	115	111	60 - 130	4	15	
Benzo[g,h,i]perylene	**0.0911**	**0.0881**	0.0833	0.0833	109	106	61 - 129	3	15	
Surrogate:										
2-Fluorobiphenyl					*99*	*96*	*41 - 114*			
Pyrene-d10					*105*	*98*	*39 - 115*			
Terphenyl-d14					*123*	*116*	*44 - 125*			

Date of Report: February 8, 2022
Samples Submitted: January 27, 2022
Laboratory Reference: 2201-231
Project: 397-066

PCBs EPA 8082A

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**PH-1-15.0**					
Laboratory ID:	01-231-01					
Aroclor 1016	**ND**	0.0031	EPA 8082A	2-3-22	2-3-22	
Aroclor 1221	**ND**	0.0031	EPA 8082A	2-3-22	2-3-22	
Aroclor 1232	**ND**	0.0031	EPA 8082A	2-3-22	2-3-22	
Aroclor 1242	**ND**	0.0031	EPA 8082A	2-3-22	2-3-22	
Aroclor 1248	**ND**	0.0031	EPA 8082A	2-3-22	2-3-22	
Aroclor 1254	**ND**	0.0031	EPA 8082A	2-3-22	2-3-22	
Aroclor 1260	**ND**	0.0031	EPA 8082A	2-3-22	2-3-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*74*	*54-135*				
Client ID:	**PH-1-20.0**					
Laboratory ID:	01-231-02					
Aroclor 1016	**ND**	0.0030	EPA 8082A	2-3-22	2-3-22	
Aroclor 1221	**ND**	0.0030	EPA 8082A	2-3-22	2-3-22	
Aroclor 1232	**ND**	0.0030	EPA 8082A	2-3-22	2-3-22	
Aroclor 1242	**ND**	0.0030	EPA 8082A	2-3-22	2-3-22	
Aroclor 1248	**ND**	0.0030	EPA 8082A	2-3-22	2-3-22	
Aroclor 1254	**ND**	0.0030	EPA 8082A	2-3-22	2-3-22	
Aroclor 1260	**ND**	0.0030	EPA 8082A	2-3-22	2-3-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*76*	*54-135*				
Client ID:	**PH-1-25.0**					
Laboratory ID:	01-231-03					
Aroclor 1016	**ND**	0.0030	EPA 8082A	2-3-22	2-3-22	
Aroclor 1221	**ND**	0.0030	EPA 8082A	2-3-22	2-3-22	
Aroclor 1232	**ND**	0.0030	EPA 8082A	2-3-22	2-3-22	
Aroclor 1242	**ND**	0.0030	EPA 8082A	2-3-22	2-3-22	
Aroclor 1248	**ND**	0.0030	EPA 8082A	2-3-22	2-3-22	
Aroclor 1254	**ND**	0.0030	EPA 8082A	2-3-22	2-3-22	
Aroclor 1260	**ND**	0.0030	EPA 8082A	2-3-22	2-3-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*67*	*54-135*				

Date of Report: February 8, 2022
Samples Submitted: January 27, 2022
Laboratory Reference: 2201-231
Project: 397-066

PCBs EPA 8082A

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**PH-1-30.0**					
Laboratory ID:	01-231-04					
Aroclor 1016	**ND**	0.0031	EPA 8082A	2-3-22	2-3-22	
Aroclor 1221	**ND**	0.0031	EPA 8082A	2-3-22	2-3-22	
Aroclor 1232	**ND**	0.0031	EPA 8082A	2-3-22	2-3-22	
Aroclor 1242	**ND**	0.0031	EPA 8082A	2-3-22	2-3-22	
Aroclor 1248	**ND**	0.0031	EPA 8082A	2-3-22	2-3-22	
Aroclor 1254	**ND**	0.0031	EPA 8082A	2-3-22	2-3-22	
Aroclor 1260	**ND**	0.0031	EPA 8082A	2-3-22	2-3-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*60*	*54-135*				
Client ID:	**PH-1-35.0**					
Laboratory ID:	01-231-05					
Aroclor 1016	**ND**	0.0032	EPA 8082A	2-3-22	2-3-22	
Aroclor 1221	**ND**	0.0032	EPA 8082A	2-3-22	2-3-22	
Aroclor 1232	**ND**	0.0032	EPA 8082A	2-3-22	2-3-22	
Aroclor 1242	**ND**	0.0032	EPA 8082A	2-3-22	2-3-22	
Aroclor 1248	**ND**	0.0032	EPA 8082A	2-3-22	2-3-22	
Aroclor 1254	**ND**	0.0032	EPA 8082A	2-3-22	2-3-22	
Aroclor 1260	**ND**	0.0032	EPA 8082A	2-3-22	2-3-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*54*	*54-135*				
Client ID:	**AMW-1-15.0**					
Laboratory ID:	01-231-09					
Aroclor 1016	**ND**	0.0031	EPA 8082A	2-3-22	2-3-22	
Aroclor 1221	**ND**	0.0031	EPA 8082A	2-3-22	2-3-22	
Aroclor 1232	**ND**	0.0031	EPA 8082A	2-3-22	2-3-22	
Aroclor 1242	**ND**	0.0031	EPA 8082A	2-3-22	2-3-22	
Aroclor 1248	**ND**	0.0031	EPA 8082A	2-3-22	2-3-22	
Aroclor 1254	**ND**	0.0031	EPA 8082A	2-3-22	2-3-22	
Aroclor 1260	**ND**	0.0031	EPA 8082A	2-3-22	2-3-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*73*	*54-135*				

Date of Report: February 8, 2022
Samples Submitted: January 27, 2022
Laboratory Reference: 2201-231
Project: 397-066

PCBs EPA 8082A

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**AMW-1-20.0**					
Laboratory ID:	01-231-10					
Aroclor 1016	**ND**	0.0029	EPA 8082A	2-3-22	2-3-22	
Aroclor 1221	**ND**	0.0029	EPA 8082A	2-3-22	2-3-22	
Aroclor 1232	**ND**	0.0029	EPA 8082A	2-3-22	2-3-22	
Aroclor 1242	**ND**	0.0029	EPA 8082A	2-3-22	2-3-22	
Aroclor 1248	**ND**	0.0029	EPA 8082A	2-3-22	2-3-22	
Aroclor 1254	**ND**	0.0029	EPA 8082A	2-3-22	2-3-22	
Aroclor 1260	**ND**	0.0029	EPA 8082A	2-3-22	2-3-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*65*	*54-135*				
Client ID:	**AMW-1-25.0**					
Laboratory ID:	01-231-11					
Aroclor 1016	**ND**	0.0029	EPA 8082A	2-3-22	2-3-22	
Aroclor 1221	**ND**	0.0029	EPA 8082A	2-3-22	2-3-22	
Aroclor 1232	**ND**	0.0029	EPA 8082A	2-3-22	2-3-22	
Aroclor 1242	**ND**	0.0029	EPA 8082A	2-3-22	2-3-22	
Aroclor 1248	**ND**	0.0029	EPA 8082A	2-3-22	2-3-22	
Aroclor 1254	**ND**	0.0029	EPA 8082A	2-3-22	2-3-22	
Aroclor 1260	**ND**	0.0029	EPA 8082A	2-3-22	2-3-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*73*	*54-135*				
Client ID:	**AMW-1-30.0**					
Laboratory ID:	01-231-12					
Aroclor 1016	**ND**	0.0030	EPA 8082A	2-3-22	2-3-22	
Aroclor 1221	**ND**	0.0030	EPA 8082A	2-3-22	2-3-22	
Aroclor 1232	**ND**	0.0030	EPA 8082A	2-3-22	2-3-22	
Aroclor 1242	**ND**	0.0030	EPA 8082A	2-3-22	2-3-22	
Aroclor 1248	**ND**	0.0030	EPA 8082A	2-3-22	2-3-22	
Aroclor 1254	**ND**	0.0030	EPA 8082A	2-3-22	2-3-22	
Aroclor 1260	**ND**	0.0030	EPA 8082A	2-3-22	2-3-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*75*	*54-135*				

Date of Report: February 8, 2022
Samples Submitted: January 27, 2022
Laboratory Reference: 2201-231
Project: 397-066

PCBs EPA 8082A

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**AMW-1-35.0**					
Laboratory ID:	01-231-13					
Aroclor 1016	**ND**	0.0030	EPA 8082A	2-3-22	2-3-22	
Aroclor 1221	**ND**	0.0030	EPA 8082A	2-3-22	2-3-22	
Aroclor 1232	**ND**	0.0030	EPA 8082A	2-3-22	2-3-22	
Aroclor 1242	**ND**	0.0030	EPA 8082A	2-3-22	2-3-22	
Aroclor 1248	**ND**	0.0030	EPA 8082A	2-3-22	2-3-22	
Aroclor 1254	**ND**	0.0030	EPA 8082A	2-3-22	2-3-22	
Aroclor 1260	**ND**	0.0030	EPA 8082A	2-3-22	2-3-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*73*	*54-135*				

Date of Report: February 8, 2022
Samples Submitted: January 27, 2022
Laboratory Reference: 2201-231
Project: 397-066

PCBs EPA 8082A
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0203S1					
Aroclor 1016	**ND**	0.0025	EPA 8082A	2-3-22	2-3-22	
Aroclor 1221	**ND**	0.0025	EPA 8082A	2-3-22	2-3-22	
Aroclor 1232	**ND**	0.0025	EPA 8082A	2-3-22	2-3-22	
Aroclor 1242	**ND**	0.0025	EPA 8082A	2-3-22	2-3-22	
Aroclor 1248	**ND**	0.0025	EPA 8082A	2-3-22	2-3-22	
Aroclor 1254	**ND**	0.0025	EPA 8082A	2-3-22	2-3-22	
Aroclor 1260	**ND**	0.0025	EPA 8082A	2-3-22	2-3-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*76*	*54-135*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB0203S1										
	SB	SBD	SB	SBD		SB	SBD				
Aroclor 1260	**0.0163**	**0.0192**	0.0250	0.0250	N/A	**65**	**77**	65-134	16	18	
Surrogate:											
DCB						*71*	*80*	*54-135*			

Date of Report: February 8, 2022
Samples Submitted: January 27, 2022
Laboratory Reference: 2201-231
Project: 397-066

TOTAL METALS
EPA 6010D

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**PH-1-15.0**					
Laboratory ID:	01-231-01					
Arsenic	**ND**	3.1	EPA 6010D	2-2-22	2-3-22	
Barium	**35**	3.1	EPA 6010D	2-2-22	2-3-22	
Chromium	**21**	0.61	EPA 6010D	2-2-22	2-3-22	
Lead	**ND**	6.1	EPA 6010D	2-2-22	2-3-22	
Client ID:	**PH-1-20.0**					
Laboratory ID:	01-231-02					
Arsenic	**ND**	3.0	EPA 6010D	2-2-22	2-3-22	
Barium	**37**	3.0	EPA 6010D	2-2-22	2-3-22	
Chromium	**18**	0.60	EPA 6010D	2-2-22	2-3-22	
Lead	**ND**	6.0	EPA 6010D	2-2-22	2-3-22	
Client ID:	**PH-1-25.0**					
Laboratory ID:	01-231-03					
Arsenic	**ND**	3.0	EPA 6010D	2-2-22	2-3-22	
Barium	**63**	3.0	EPA 6010D	2-2-22	2-3-22	
Chromium	**26**	0.61	EPA 6010D	2-2-22	2-3-22	
Lead	**8.4**	6.1	EPA 6010D	2-2-22	2-3-22	
Client ID:	**PH-1-30.0**					
Laboratory ID:	01-231-04					
Arsenic	**ND**	3.1	EPA 6010D	2-2-22	2-3-22	
Barium	**70**	3.1	EPA 6010D	2-2-22	2-3-22	
Chromium	**28**	0.62	EPA 6010D	2-2-22	2-3-22	
Lead	**ND**	6.2	EPA 6010D	2-2-22	2-3-22	
Client ID:	**PH-1-35.0**					
Laboratory ID:	01-231-05					
Arsenic	**ND**	3.2	EPA 6010D	2-2-22	2-3-22	
Barium	**56**	3.2	EPA 6010D	2-2-22	2-3-22	
Chromium	**18**	0.63	EPA 6010D	2-2-22	2-3-22	
Lead	**ND**	6.3	EPA 6010D	2-2-22	2-3-22	

Date of Report: February 8, 2022
Samples Submitted: January 27, 2022
Laboratory Reference: 2201-231
Project: 397-066

TOTAL METALS
EPA 6010D

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**AMW-1-15.0**					
Laboratory ID:	01-231-09					
Arsenic	**ND**	3.1	EPA 6010D	2-2-22	2-3-22	
Barium	**36**	3.1	EPA 6010D	2-2-22	2-3-22	
Chromium	**20**	0.62	EPA 6010D	2-2-22	2-3-22	
Lead	**ND**	6.2	EPA 6010D	2-2-22	2-3-22	
Client ID:	**AMW-1-20.0**					
Laboratory ID:	01-231-10					
Arsenic	**ND**	2.9	EPA 6010D	2-2-22	2-3-22	
Barium	**34**	2.9	EPA 6010D	2-2-22	2-3-22	
Chromium	**18**	0.58	EPA 6010D	2-2-22	2-3-22	
Lead	**ND**	5.8	EPA 6010D	2-2-22	2-3-22	
Client ID:	**AMW-1-25.0**					
Laboratory ID:	01-231-11					
Arsenic	**3.9**	2.9	EPA 6010D	2-2-22	2-3-22	
Barium	**43**	2.9	EPA 6010D	2-2-22	2-3-22	
Chromium	**22**	0.58	EPA 6010D	2-2-22	2-3-22	
Lead	**ND**	5.8	EPA 6010D	2-2-22	2-3-22	
Client ID:	**AMW-1-30.0**					
Laboratory ID:	01-231-12					
Arsenic	**3.1**	3.0	EPA 6010D	2-2-22	2-3-22	
Barium	**62**	3.0	EPA 6010D	2-2-22	2-3-22	
Chromium	**23**	0.60	EPA 6010D	2-2-22	2-3-22	
Lead	**ND**	6.0	EPA 6010D	2-2-22	2-3-22	
Client ID:	**AMW-1-35.0**					
Laboratory ID:	01-231-13					
Arsenic	**ND**	3.0	EPA 6010D	2-2-22	2-3-22	
Barium	**42**	3.0	EPA 6010D	2-2-22	2-3-22	
Chromium	**21**	0.61	EPA 6010D	2-2-22	2-3-22	
Lead	**ND**	6.1	EPA 6010D	2-2-22	2-3-22	

Date of Report: February 8, 2022
Samples Submitted: January 27, 2022
Laboratory Reference: 2201-231
Project: 397-066

TOTAL METALS
EPA 6010D
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0202SM1					
Arsenic	**ND**	2.5	EPA 6010D	2-2-22	2-3-22	
Barium	**ND**	2.5	EPA 6010D	2-2-22	2-3-22	
Chromium	**ND**	0.50	EPA 6010D	2-2-22	2-3-22	
Lead	**ND**	5.0	EPA 6010D	2-2-22	2-3-22	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	01-231-01										
	ORIG	DUP									
Arsenic	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Barium	**28.6**	**34.3**	NA	NA		NA		NA	18	20	
Chromium	**17.6**	**15.3**	NA	NA		NA		NA	14	20	
Lead	**ND**	**ND**	NA	NA		NA		NA	NA	20	
MATRIX SPIKES											
Laboratory ID:	01-231-01										
	MS	MSD	MS	MSD		MS	MSD				
Arsenic	**93.2**	**93.9**	100	100	ND	**93**	**94**	75-125	1	20	
Barium	**128**	**126**	100	100	28.6	**99**	**97**	75-125	1	20	
Chromium	**106**	**111**	100	100	17.6	**89**	**93**	75-125	4	20	
Lead	**230**	**228**	250	250	ND	**92**	**91**	75-125	1	20	

Date of Report: February 8, 2022
Samples Submitted: January 27, 2022
Laboratory Reference: 2201-231
Project: 397-066

% MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
PH-1-15.0	01-231-01	**18**	2-1-22
PH-1-20.0	01-231-02	**17**	2-1-22
PH-1-25.0	01-231-03	**18**	2-1-22
PH-1-30.0	01-231-04	**19**	2-1-22
PH-1-35.0	01-231-05	**21**	2-1-22
AMW-1-15.0	01-231-09	**19**	2-1-22
AMW-1-20.0	01-231-10	**13**	2-1-22
AMW-1-25.0	01-231-11	**14**	2-1-22
AMW-1-30.0	01-231-12	**17**	2-1-22
AMW-1-35.0	01-231-13	**18**	2-1-22

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

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

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1- Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Farallon consulting
Project Number: 397-066
Project Name: BLOCK 37
Project Manager: Brani Jurista / Chantal Banfield
Sampled by: Elise Bugge

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☒ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 01-231

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX 8260D	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up) EXTENDED	Volatiles 8260D	Halogenated Volatiles 8260D	EDB EPA 8011 (Waters Only)	Semivolatiles 8270E/SIM (with low-level PAHs)	PAHs 8270E/SIM (low-level) CARCINOGENIC + NAPHTHALENE	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270E/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	As, Ba, Cr, Pb				% Moisture
1	PH-1-15.0	1/26/22	0930	S	5		X		X					X	X								X				10
2	PH-1-20.0		0945				X		X					X	X								X				
3	PH-1-25.0		0950				X		X					X	X								X				
4	PH-1-30.0		1010				X		X					X	X								X				
5	PH-1-35.0		1017				X		X					X	X								X				
6	PH-1-40.0		1020																								
7	PH-1-45.0		1030																								
8	PH-1-50.0		1035																								
9	AMW-1-15.0		1205				X		X					X	X								X				10
10	AMW-1-20.0		1215				X		X					X	X								X				1

	Signature	Company	Date	Time
Relinquished	Elise Bugge	FLN	1/26/22	1430
Received	Van	Spdy	1/27/22	1155
Relinquished	Van	Spdy	1/27/22	1235
Received		CORE	1/27/22	1235
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
~~*contact PM for analysis~~
SPECIAL DETECTION LIMITS
~~V.C. - SIM 8260~~

Data Package: Standard ☐ Level III ☐ Level IV ☐
Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Farallon consulting
Project Number: 397-066
Project Name: Block 37
Project Manager: Brani Jurista / chantal Bamfield
Sampled by: Elise Bugge

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☒ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 01-231

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8260D)	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up) extended	Volatiles 8260D	Halogenated Volatiles 8260D	EDB EPA 8011 (Waters Only)	Semivolatiles 8270E/SIM (with low-level PAHs)	PAHs 8270E/SIM (low-level) carcinogens	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270E/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	As, Ba, Cr, Pb				% Moisture
11	AMW-1-~~20~~ 25.0	1/26/22	1220	S	5		X		X					X	X								Y				
12	AMW-1-30.0		1225				X		X					X	X								X				
13	AMW-1-35.0		1235				X		X					X	X								X				
14	AMW-1-40.0		1238																								
15	AMW-1-45.0		1240																								
16	AMW-1-50.0		1245																								

emb

	Signature	Company	Date	Time
Relinquished	Elise Bugge	FLN	1/26/22	1430
Received	Van	Spdy	1/27/22	1155
Relinquished	Van	Spdy	1/27/22	1235
Received		CRE	1/27/22	1235
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
~~*contact PM for analysis~~
Special detection limits
~~tc SIM~~

Data Package: Standard ☒ Level III ☐ Level IV ☐
Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

February 8, 2022

Brani Jurista
Farallon Consulting
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 397-066
Laboratory Reference No. 2201-237

Dear Brani:

Enclosed are the analytical results and associated quality control data for samples submitted on January 28, 2022.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: February 8, 2022
Samples Submitted: January 28, 2022
Laboratory Reference: 2201-237
Project: 397-066

Case Narrative

Samples were collected on January 27, 2022 and received by the laboratory on January 28, 2022. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

PAHs EPA 8270E/SIM Analysis

Sample PH-3-15.0 had one surrogate recovery outside of control limits. This is within allowance of our standard operating procedure as long as the recovery is above 10%.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: February 8, 2022
Samples Submitted: January 28, 2022
Laboratory Reference: 2201-237
Project: 397-066

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**PH-3-15.0**					
Laboratory ID:	01-237-01					
Gasoline	**ND**	6.1	NWTPH-Gx	2-1-22	2-1-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*100*	*66-129*				
Client ID:	**PH-3-20.0**					
Laboratory ID:	01-237-02					
Gasoline	**ND**	5.5	NWTPH-Gx	2-1-22	2-1-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*100*	*66-129*				
Client ID:	**PH-3-25.0**					
Laboratory ID:	01-237-03					
Gasoline	**ND**	8.3	NWTPH-Gx	2-1-22	2-1-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*99*	*66-129*				
Client ID:	**PH-3-30.0**					
Laboratory ID:	01-237-04					
Gasoline	**ND**	7.2	NWTPH-Gx	2-1-22	2-1-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*99*	*66-129*				
Client ID:	**PH-3-35.0**					
Laboratory ID:	01-237-05					
Gasoline	**ND**	7.0	NWTPH-Gx	2-1-22	2-1-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*93*	*66-129*				
Client ID:	**PH-4-25.0**					
Laboratory ID:	01-237-11					
Gasoline	**ND**	7.4	NWTPH-Gx	2-1-22	2-1-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*104*	*66-129*				
Client ID:	**PH-4-30.0**					
Laboratory ID:	01-237-12					
Gasoline	**ND**	5.8	NWTPH-Gx	2-1-22	2-1-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*104*	*66-129*				

Date of Report: February 8, 2022
Samples Submitted: January 28, 2022
Laboratory Reference: 2201-237
Project: 397-066

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**PH-4-35.0**					
Laboratory ID:	01-237-13					
Gasoline	**ND**	6.1	NWTPH-Gx	2-1-22	2-1-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*103*	*66-129*				

Date of Report: February 8, 2022
Samples Submitted: January 28, 2022
Laboratory Reference: 2201-237
Project: 397-066

GASOLINE RANGE ORGANICS
NWTPH-Gx
QUALITY CONTROL

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0201S2					
Gasoline	**ND**	5.0	NWTPH-Gx	2-1-22	2-1-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*99*	*66-129*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	01-237-01										
	ORIG	DUP									
Gasoline	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Surrogate:											
Fluorobenzene						*100*	*102*	*66-129*			

Date of Report: February 8, 2022
Samples Submitted: January 28, 2022
Laboratory Reference: 2201-237
Project: 397-066

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**PH-3-15.0**					
Laboratory ID:	01-237-01					
Diesel Range Organics	**ND**	30	NWTPH-Dx	2-2-22	2-3-22	
Lube Oil Range Organics	**ND**	59	NWTPH-Dx	2-2-22	2-3-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*108*	*50-150*				
Client ID:	**PH-3-20.0**					
Laboratory ID:	01-237-02					
Diesel Range Organics	**ND**	29	NWTPH-Dx	2-2-22	2-3-22	
Lube Oil Range Organics	**ND**	58	NWTPH-Dx	2-2-22	2-3-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*88*	*50-150*				
Client ID:	**PH-3-25.0**					
Laboratory ID:	01-237-03					
Diesel Range Organics	**ND**	31	NWTPH-Dx	2-2-22	2-3-22	
Lube Oil Range Organics	**ND**	62	NWTPH-Dx	2-2-22	2-3-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*93*	*50-150*				
Client ID:	**PH-3-30.0**					
Laboratory ID:	01-237-04					
Diesel Range Organics	**ND**	31	NWTPH-Dx	2-2-22	2-4-22	
Lube Oil Range Organics	**ND**	62	NWTPH-Dx	2-2-22	2-4-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*91*	*50-150*				
Client ID:	**PH-3-35.0**					
Laboratory ID:	01-237-05					
Diesel Range Organics	**ND**	29	NWTPH-Dx	2-2-22	2-4-22	
Lube Oil Range Organics	**ND**	57	NWTPH-Dx	2-2-22	2-4-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*104*	*50-150*				
Client ID:	**PH-4-25.0**					
Laboratory ID:	01-237-11					
Diesel Range Organics	**ND**	33	NWTPH-Dx	2-2-22	2-4-22	
Lube Oil Range Organics	**ND**	65	NWTPH-Dx	2-2-22	2-4-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*81*	*50-150*				

Date of Report: February 8, 2022
Samples Submitted: January 28, 2022
Laboratory Reference: 2201-237
Project: 397-066

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**PH-4-30.0**					
Laboratory ID:	01-237-12					
Diesel Range Organics	**ND**	30	NWTPH-Dx	2-2-22	2-3-22	
Lube Oil Range Organics	**ND**	60	NWTPH-Dx	2-2-22	2-3-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*84*	*50-150*				
Client ID:	**PH-4-35.0**					
Laboratory ID:	01-237-13					
Diesel Range Organics	**ND**	30	NWTPH-Dx	2-2-22	2-3-22	
Lube Oil Range Organics	**ND**	60	NWTPH-Dx	2-2-22	2-3-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*90*	*50-150*				

Date of Report: February 8, 2022
Samples Submitted: January 28, 2022
Laboratory Reference: 2201-237
Project: 397-066

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0202S3					
Diesel Range Organics	**ND**	25	NWTPH-Dx	2-2-22	2-3-22	
Lube Oil Range Organics	**ND**	50	NWTPH-Dx	2-2-22	2-3-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*107*	*50-150*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	01-237-02										
	ORIG	DUP									
Diesel Range	**ND**	**ND**	NA	NA		NA		NA	NA	NA	
Lube Oil Range	**ND**	**ND**	NA	NA		NA		NA	NA	NA	
Surrogate:											
o-Terphenyl						*88*	*88*	*50-150*			

Date of Report: February 8, 2022
Samples Submitted: January 28, 2022
Laboratory Reference: 2201-237
Project: 397-066

VOLATILE ORGANICS EPA 8260D

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**PH-3-15.0**					
Laboratory ID:	01-237-01					
Benzene	ND	0.00097	EPA 8260D	2-2-22	2-2-22	
Toluene	ND	0.0049	EPA 8260D	2-2-22	2-2-22	
Ethylbenzene	ND	0.00097	EPA 8260D	2-2-22	2-2-22	
m,p-Xylene	ND	0.0019	EPA 8260D	2-2-22	2-2-22	
o-Xylene	ND	0.00097	EPA 8260D	2-2-22	2-2-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*101*	*74-131*				
Toluene-d8	*103*	*78-128*				
4-Bromofluorobenzene	*105*	*71-130*				
Client ID:	**PH-3-20.0**					
Laboratory ID:	01-237-02					
Benzene	ND	0.0011	EPA 8260D	2-2-22	2-2-22	
Toluene	ND	0.0055	EPA 8260D	2-2-22	2-2-22	
Ethylbenzene	ND	0.0011	EPA 8260D	2-2-22	2-2-22	
m,p-Xylene	ND	0.0022	EPA 8260D	2-2-22	2-2-22	
o-Xylene	ND	0.0011	EPA 8260D	2-2-22	2-2-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*100*	*74-131*				
Toluene-d8	*102*	*78-128*				
4-Bromofluorobenzene	*108*	*71-130*				
Client ID:	**PH-3-25.0**					
Laboratory ID:	01-237-03					
Benzene	ND	0.0015	EPA 8260D	2-2-22	2-2-22	
Toluene	ND	0.0075	EPA 8260D	2-2-22	2-2-22	
Ethylbenzene	ND	0.0015	EPA 8260D	2-2-22	2-2-22	
m,p-Xylene	ND	0.0030	EPA 8260D	2-2-22	2-2-22	
o-Xylene	ND	0.0015	EPA 8260D	2-2-22	2-2-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*93*	*74-131*				
Toluene-d8	*103*	*78-128*				
4-Bromofluorobenzene	*112*	*71-130*				

Date of Report: February 8, 2022
Samples Submitted: January 28, 2022
Laboratory Reference: 2201-237
Project: 397-066

VOLATILE ORGANICS EPA 8260D

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**PH-3-30.0**					
Laboratory ID:	01-237-04					
Benzene	ND	0.0012	EPA 8260D	2-2-22	2-3-22	
Toluene	ND	0.0058	EPA 8260D	2-2-22	2-3-22	
Ethylbenzene	ND	0.0012	EPA 8260D	2-2-22	2-3-22	
m,p-Xylene	ND	0.0023	EPA 8260D	2-2-22	2-3-22	
o-Xylene	ND	0.0012	EPA 8260D	2-2-22	2-3-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*90*	*74-131*				
Toluene-d8	*102*	*78-128*				
4-Bromofluorobenzene	*92*	*71-130*				
Client ID:	**PH-3-35.0**					
Laboratory ID:	01-237-05					
Benzene	ND	0.0012	EPA 8260D	2-2-22	2-3-22	
Toluene	ND	0.0062	EPA 8260D	2-2-22	2-3-22	
Ethylbenzene	ND	0.0012	EPA 8260D	2-2-22	2-3-22	
m,p-Xylene	ND	0.0025	EPA 8260D	2-2-22	2-3-22	
o-Xylene	ND	0.0012	EPA 8260D	2-2-22	2-3-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*92*	*74-131*				
Toluene-d8	*102*	*78-128*				
4-Bromofluorobenzene	*95*	*71-130*				
Client ID:	**PH-4-25.0**					
Laboratory ID:	01-237-11					
Benzene	ND	0.0011	EPA 8260D	2-2-22	2-3-22	
Toluene	ND	0.0057	EPA 8260D	2-2-22	2-3-22	
Ethylbenzene	ND	0.0011	EPA 8260D	2-2-22	2-3-22	
m,p-Xylene	ND	0.0023	EPA 8260D	2-2-22	2-3-22	
o-Xylene	ND	0.0011	EPA 8260D	2-2-22	2-3-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*93*	*74-131*				
Toluene-d8	*103*	*78-128*				
4-Bromofluorobenzene	*94*	*71-130*				

Date of Report: February 8, 2022
Samples Submitted: January 28, 2022
Laboratory Reference: 2201-237
Project: 397-066

VOLATILE ORGANICS EPA 8260D

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**PH-4-30.0**					
Laboratory ID:	01-237-12					
Benzene	0.0010	0.00099	EPA 8260D	2-2-22	2-3-22	
Toluene	ND	0.0050	EPA 8260D	2-2-22	2-3-22	
Ethylbenzene	ND	0.00099	EPA 8260D	2-2-22	2-3-22	
m,p-Xylene	ND	0.0020	EPA 8260D	2-2-22	2-3-22	
o-Xylene	ND	0.00099	EPA 8260D	2-2-22	2-3-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*94*	*74-131*				
Toluene-d8	*103*	*78-128*				
4-Bromofluorobenzene	*95*	*71-130*				
Client ID:	**PH-4-35.0**					
Laboratory ID:	01-237-13					
Benzene	ND	0.00098	EPA 8260D	2-2-22	2-3-22	
Toluene	ND	0.0049	EPA 8260D	2-2-22	2-3-22	
Ethylbenzene	ND	0.00098	EPA 8260D	2-2-22	2-3-22	
m,p-Xylene	ND	0.0020	EPA 8260D	2-2-22	2-3-22	
o-Xylene	ND	0.00098	EPA 8260D	2-2-22	2-3-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*87*	*74-131*				
Toluene-d8	*104*	*78-128*				
4-Bromofluorobenzene	*95*	*71-130*				

Date of Report: February 8, 2022
Samples Submitted: January 28, 2022
Laboratory Reference: 2201-237
Project: 397-066

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0202S1					
Benzene	ND	0.0010	EPA 8260D	2-2-22	2-2-22	
Toluene	ND	0.0050	EPA 8260D	2-2-22	2-2-22	
Ethylbenzene	ND	0.0010	EPA 8260D	2-2-22	2-2-22	
m,p-Xylene	ND	0.0020	EPA 8260D	2-2-22	2-2-22	
o-Xylene	ND	0.0010	EPA 8260D	2-2-22	2-2-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*98*	*74-131*				
Toluene-d8	*102*	*78-128*				
4-Bromofluorobenzene	*109*	*71-130*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0202S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	**0.0576**	**0.0564**	0.0500	0.0500	115	113	71-131	2	19	
Benzene	**0.0503**	**0.0495**	0.0500	0.0500	101	99	73-124	2	18	
Trichloroethene	**0.0505**	**0.0508**	0.0500	0.0500	101	102	79-130	1	18	
Toluene	**0.0510**	**0.0517**	0.0500	0.0500	102	103	76-123	1	18	
Chlorobenzene	**0.0492**	**0.0510**	0.0500	0.0500	98	102	78-122	4	18	
Surrogate:										
Dibromofluoromethane					*100*	*97*	*74-131*			
Toluene-d8					*100*	*104*	*78-128*			
4-Bromofluorobenzene					*100*	*114*	*71-130*			

Date of Report: February 8, 2022
Samples Submitted: January 28, 2022
Laboratory Reference: 2201-237
Project: 397-066

PAHs EPA 8270E/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags	MDL
Client ID:	**PH-3-15.0**						
Laboratory ID:	01-237-01						
Naphthalene	**ND**	0.0024	EPA 8270E/SIM	2-4-22	2-4-22		
2-Methylnaphthalene	**ND**	0.0024	EPA 8270E/SIM	2-4-22	2-4-22		
1-Methylnaphthalene	**ND**	0.0024	EPA 8270E/SIM	2-4-22	2-4-22		
Benzo[a]anthracene	**ND**	0.0024	EPA 8270E/SIM	2-4-22	2-4-22		0.00032
Chrysene	**0.00037**	0.0024	EPA 8270E/SIM	2-4-22	2-4-22	J	0.00028
Benzo[b]fluoranthene	**0.00059**	0.0024	EPA 8270E/SIM	2-4-22	2-4-22	J	0.00029
Benzo(j,k)fluoranthene	**ND**	0.0024	EPA 8270E/SIM	2-4-22	2-4-22		0.00028
Benzo[a]pyrene	**0.00054**	0.0024	EPA 8270E/SIM	2-4-22	2-4-22	J	0.00036
Indeno(1,2,3-c,d)pyrene	**0.00035**	0.0024	EPA 8270E/SIM	2-4-22	2-4-22	J	0.00029
Dibenz[a,h]anthracene	**ND**	0.0024	EPA 8270E/SIM	2-4-22	2-4-22		0.00023
Surrogate:	*Percent Recovery*	*Control Limits*					
2-Fluorobiphenyl	*101*	*41 - 114*					
Pyrene-d10	*100*	*39 - 115*					
Terphenyl-d14	*127*	*44 - 125*				Q	

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags	MDL
Client ID:	**PH-3-20.0**						
Laboratory ID:	01-237-02						
Naphthalene	**ND**	0.0023	EPA 8270E/SIM	2-4-22	2-4-22		
2-Methylnaphthalene	**ND**	0.0023	EPA 8270E/SIM	2-4-22	2-4-22		
1-Methylnaphthalene	**ND**	0.0023	EPA 8270E/SIM	2-4-22	2-4-22		
Benzo[a]anthracene	**ND**	0.0023	EPA 8270E/SIM	2-4-22	2-4-22		0.00031
Chrysene	**ND**	0.0023	EPA 8270E/SIM	2-4-22	2-4-22		0.00028
Benzo[b]fluoranthene	**ND**	0.0023	EPA 8270E/SIM	2-4-22	2-4-22		0.00029
Benzo(j,k)fluoranthene	**ND**	0.0023	EPA 8270E/SIM	2-4-22	2-4-22		0.00028
Benzo[a]pyrene	**ND**	0.0023	EPA 8270E/SIM	2-4-22	2-4-22		0.00036
Indeno(1,2,3-c,d)pyrene	**ND**	0.0023	EPA 8270E/SIM	2-4-22	2-4-22		0.00028
Dibenz[a,h]anthracene	**ND**	0.0023	EPA 8270E/SIM	2-4-22	2-4-22		0.00023
Surrogate:	*Percent Recovery*	*Control Limits*					
2-Fluorobiphenyl	*93*	*41 - 114*					
Pyrene-d10	*91*	*39 - 115*					
Terphenyl-d14	*107*	*44 - 125*					

Date of Report: February 8, 2022
Samples Submitted: January 28, 2022
Laboratory Reference: 2201-237
Project: 397-066

PAHs EPA 8270E/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags	MDL
Client ID:	**PH-3-25.0**						
Laboratory ID:	01-237-03						
Naphthalene	**ND**	0.0025	EPA 8270E/SIM	2-4-22	2-4-22		
2-Methylnaphthalene	**ND**	0.0025	EPA 8270E/SIM	2-4-22	2-4-22		
1-Methylnaphthalene	**ND**	0.0025	EPA 8270E/SIM	2-4-22	2-4-22		
Benzo[a]anthracene	**ND**	0.0025	EPA 8270E/SIM	2-4-22	2-4-22		0.00033
Chrysene	**ND**	0.0025	EPA 8270E/SIM	2-4-22	2-4-22		0.00030
Benzo[b]fluoranthene	**ND**	0.0025	EPA 8270E/SIM	2-4-22	2-4-22		0.00031
Benzo(j,k)fluoranthene	**ND**	0.0025	EPA 8270E/SIM	2-4-22	2-4-22		0.00030
Benzo[a]pyrene	**ND**	0.0025	EPA 8270E/SIM	2-4-22	2-4-22		0.00038
Indeno(1,2,3-c,d)pyrene	**ND**	0.0025	EPA 8270E/SIM	2-4-22	2-4-22		0.00030
Dibenz[a,h]anthracene	**ND**	0.0025	EPA 8270E/SIM	2-4-22	2-4-22		0.00024
Surrogate:	*Percent Recovery*	*Control Limits*					
2-Fluorobiphenyl	*78*	*41 - 114*					
Pyrene-d10	*87*	*39 - 115*					
Terphenyl-d14	*109*	*44 - 125*					

Client ID:	**PH-3-30.0**						
Laboratory ID:	01-237-04						
Naphthalene	**ND**	0.0025	EPA 8270E/SIM	2-4-22	2-4-22		
2-Methylnaphthalene	**ND**	0.0025	EPA 8270E/SIM	2-4-22	2-4-22		
1-Methylnaphthalene	**ND**	0.0025	EPA 8270E/SIM	2-4-22	2-4-22		
Benzo[a]anthracene	**ND**	0.0025	EPA 8270E/SIM	2-4-22	2-4-22		0.00033
Chrysene	**ND**	0.0025	EPA 8270E/SIM	2-4-22	2-4-22		0.00030
Benzo[b]fluoranthene	**ND**	0.0025	EPA 8270E/SIM	2-4-22	2-4-22		0.00031
Benzo(j,k)fluoranthene	**ND**	0.0025	EPA 8270E/SIM	2-4-22	2-4-22		0.00029
Benzo[a]pyrene	**ND**	0.0025	EPA 8270E/SIM	2-4-22	2-4-22		0.00038
Indeno(1,2,3-c,d)pyrene	**ND**	0.0025	EPA 8270E/SIM	2-4-22	2-4-22		0.00030
Dibenz[a,h]anthracene	**ND**	0.0025	EPA 8270E/SIM	2-4-22	2-4-22		0.00024
Surrogate:	*Percent Recovery*	*Control Limits*					
2-Fluorobiphenyl	*92*	*41 - 114*					
Pyrene-d10	*101*	*39 - 115*					
Terphenyl-d14	*121*	*44 - 125*					

Date of Report: February 8, 2022
Samples Submitted: January 28, 2022
Laboratory Reference: 2201-237
Project: 397-066

PAHs EPA 8270E/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags	MDL
Client ID:	**PH-3-35.0**						
Laboratory ID:	01-237-05						
Naphthalene	**ND**	0.0023	EPA 8270E/SIM	2-4-22	2-4-22		
2-Methylnaphthalene	**ND**	0.0023	EPA 8270E/SIM	2-4-22	2-4-22		
1-Methylnaphthalene	**ND**	0.0023	EPA 8270E/SIM	2-4-22	2-4-22		
Benzo[a]anthracene	**ND**	0.0023	EPA 8270E/SIM	2-4-22	2-4-22		0.00031
Chrysene	**ND**	0.0023	EPA 8270E/SIM	2-4-22	2-4-22		0.00027
Benzo[b]fluoranthene	**ND**	0.0023	EPA 8270E/SIM	2-4-22	2-4-22		0.00028
Benzo(j,k)fluoranthene	**ND**	0.0023	EPA 8270E/SIM	2-4-22	2-4-22		0.00027
Benzo[a]pyrene	**ND**	0.0023	EPA 8270E/SIM	2-4-22	2-4-22		0.00035
Indeno(1,2,3-c,d)pyrene	**ND**	0.0023	EPA 8270E/SIM	2-4-22	2-4-22		0.00028
Dibenz[a,h]anthracene	**ND**	0.0023	EPA 8270E/SIM	2-4-22	2-4-22		0.00022
Surrogate:	*Percent Recovery*	*Control Limits*					
2-Fluorobiphenyl	*83*	*41 - 114*					
Pyrene-d10	*91*	*39 - 115*					
Terphenyl-d14	*101*	*44 - 125*					

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags	MDL
Client ID:	**PH-4-25.0**						
Laboratory ID:	01-237-11						
Naphthalene	**ND**	0.0026	EPA 8270E/SIM	2-4-22	2-4-22		
2-Methylnaphthalene	**ND**	0.0026	EPA 8270E/SIM	2-4-22	2-4-22		
1-Methylnaphthalene	**ND**	0.0026	EPA 8270E/SIM	2-4-22	2-4-22		
Benzo[a]anthracene	**ND**	0.0026	EPA 8270E/SIM	2-4-22	2-4-22		0.00035
Chrysene	**ND**	0.0026	EPA 8270E/SIM	2-4-22	2-4-22		0.00031
Benzo[b]fluoranthene	**ND**	0.0026	EPA 8270E/SIM	2-4-22	2-4-22		0.00032
Benzo(j,k)fluoranthene	**ND**	0.0026	EPA 8270E/SIM	2-4-22	2-4-22		0.00031
Benzo[a]pyrene	**ND**	0.0026	EPA 8270E/SIM	2-4-22	2-4-22		0.00040
Indeno(1,2,3-c,d)pyrene	**ND**	0.0026	EPA 8270E/SIM	2-4-22	2-4-22		0.00032
Dibenz[a,h]anthracene	**ND**	0.0026	EPA 8270E/SIM	2-4-22	2-4-22		0.00026
Surrogate:	*Percent Recovery*	*Control Limits*					
2-Fluorobiphenyl	*92*	*41 - 114*					
Pyrene-d10	*92*	*39 - 115*					
Terphenyl-d14	*112*	*44 - 125*					

Date of Report: February 8, 2022
Samples Submitted: January 28, 2022
Laboratory Reference: 2201-237
Project: 397-066

PAHs EPA 8270E/SIM

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags	MDL
Client ID:	**PH-4-30.0**						
Laboratory ID:	01-237-12						
Naphthalene	**ND**	0.0024	EPA 8270E/SIM	2-4-22	2-4-22		
2-Methylnaphthalene	**ND**	0.0024	EPA 8270E/SIM	2-4-22	2-4-22		
1-Methylnaphthalene	**ND**	0.0024	EPA 8270E/SIM	2-4-22	2-4-22		
Benzo[a]anthracene	**ND**	0.0024	EPA 8270E/SIM	2-4-22	2-4-22		0.00032
Chrysene	**ND**	0.0024	EPA 8270E/SIM	2-4-22	2-4-22		0.00029
Benzo[b]fluoranthene	**ND**	0.0024	EPA 8270E/SIM	2-4-22	2-4-22		0.00030
Benzo(j,k)fluoranthene	**ND**	0.0024	EPA 8270E/SIM	2-4-22	2-4-22		0.00028
Benzo[a]pyrene	**ND**	0.0024	EPA 8270E/SIM	2-4-22	2-4-22		0.00037
Indeno(1,2,3-c,d)pyrene	**ND**	0.0024	EPA 8270E/SIM	2-4-22	2-4-22		0.00029
Dibenz[a,h]anthracene	**ND**	0.0024	EPA 8270E/SIM	2-4-22	2-4-22		0.00024
Surrogate:	*Percent Recovery*	*Control Limits*					
2-Fluorobiphenyl	*83*	*41 - 114*					
Pyrene-d10	*93*	*39 - 115*					
Terphenyl-d14	*105*	*44 - 125*					

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags	MDL
Client ID:	**PH-4-35.0**						
Laboratory ID:	01-237-13						
Naphthalene	**ND**	0.0024	EPA 8270E/SIM	2-4-22	2-4-22		
2-Methylnaphthalene	**ND**	0.0024	EPA 8270E/SIM	2-4-22	2-4-22		
1-Methylnaphthalene	**ND**	0.0024	EPA 8270E/SIM	2-4-22	2-4-22		
Benzo[a]anthracene	**ND**	0.0024	EPA 8270E/SIM	2-4-22	2-4-22		0.00032
Chrysene	**ND**	0.0024	EPA 8270E/SIM	2-4-22	2-4-22		0.00028
Benzo[b]fluoranthene	**ND**	0.0024	EPA 8270E/SIM	2-4-22	2-4-22		0.00030
Benzo(j,k)fluoranthene	**ND**	0.0024	EPA 8270E/SIM	2-4-22	2-4-22		0.00028
Benzo[a]pyrene	**ND**	0.0024	EPA 8270E/SIM	2-4-22	2-4-22		0.00037
Indeno(1,2,3-c,d)pyrene	**ND**	0.0024	EPA 8270E/SIM	2-4-22	2-4-22		0.00029
Dibenz[a,h]anthracene	**ND**	0.0024	EPA 8270E/SIM	2-4-22	2-4-22		0.00023
Surrogate:	*Percent Recovery*	*Control Limits*					
2-Fluorobiphenyl	*81*	*41 - 114*					
Pyrene-d10	*94*	*39 - 115*					
Terphenyl-d14	*105*	*44 - 125*					

Date of Report: February 8, 2022
Samples Submitted: January 28, 2022
Laboratory Reference: 2201-237
Project: 397-066

PAHs EPA 8270E/SIM
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags	MDL
METHOD BLANK							
Laboratory ID:	MB0204S1						
Naphthalene	**ND**	0.0020	EPA 8270E/SIM	2-4-22	2-4-22		
2-Methylnaphthalene	**ND**	0.0020	EPA 8270E/SIM	2-4-22	2-4-22		
1-Methylnaphthalene	**ND**	0.0020	EPA 8270E/SIM	2-4-22	2-4-22		
Benzo[a]anthracene	**ND**	0.0020	EPA 8270E/SIM	2-4-22	2-4-22		0.00027
Chrysene	**ND**	0.0020	EPA 8270E/SIM	2-4-22	2-4-22		0.00024
Benzo[b]fluoranthene	**ND**	0.0020	EPA 8270E/SIM	2-4-22	2-4-22		0.00025
Benzo(j,k)fluoranthene	**ND**	0.0020	EPA 8270E/SIM	2-4-22	2-4-22		0.00024
Benzo[a]pyrene	**ND**	0.0020	EPA 8270E/SIM	2-4-22	2-4-22		0.00031
Indeno(1,2,3-c,d)pyrene	**ND**	0.0020	EPA 8270E/SIM	2-4-22	2-4-22		0.00024
Dibenz[a,h]anthracene	**ND**	0.0020	EPA 8270E/SIM	2-4-22	2-4-22		0.00020
Surrogate:	*Percent Recovery*	*Control Limits*					
2-Fluorobiphenyl	*92*	*41 - 114*					
Pyrene-d10	*102*	*39 - 115*					
Terphenyl-d14	*125*	*44 - 125*					

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0204S1									
	SB	SBD	SB	SBD	SB	SBD				
Naphthalene	**0.0825**	**0.0784**	0.0833	0.0833	99	94	57 - 117	5	16	
Acenaphthylene	**0.0986**	**0.0958**	0.0833	0.0833	118	115	58 - 126	3	15	
Acenaphthene	**0.0972**	**0.0920**	0.0833	0.0833	117	110	61 - 122	5	15	
Fluorene	**0.0889**	**0.0841**	0.0833	0.0833	107	101	59 - 127	6	15	
Phenanthrene	**0.0869**	**0.0849**	0.0833	0.0833	104	102	58 - 124	2	15	
Anthracene	**0.0894**	**0.0873**	0.0833	0.0833	107	105	64 - 128	2	15	
Fluoranthene	**0.0881**	**0.0894**	0.0833	0.0833	106	107	63 - 128	1	15	
Pyrene	**0.0951**	**0.0953**	0.0833	0.0833	114	114	62 - 129	0	15	
Benzo[a]anthracene	**0.102**	**0.0981**	0.0833	0.0833	122	118	64 - 138	4	15	
Chrysene	**0.0940**	**0.0915**	0.0833	0.0833	113	110	63 - 128	3	15	
Benzo[b]fluoranthene	**0.0945**	**0.0941**	0.0833	0.0833	113	113	62 - 129	0	15	
Benzo(j,k)fluoranthene	**0.0889**	**0.0847**	0.0833	0.0833	107	102	59 - 134	5	16	
Benzo[a]pyrene	**0.0937**	**0.0907**	0.0833	0.0833	112	109	63 - 132	3	15	
Indeno(1,2,3-c,d)pyrene	**0.0949**	**0.0935**	0.0833	0.0833	114	112	58 - 132	1	15	
Dibenz[a,h]anthracene	**0.0954**	**0.0921**	0.0833	0.0833	115	111	60 - 130	4	15	
Benzo[g,h,i]perylene	**0.0911**	**0.0881**	0.0833	0.0833	109	106	61 - 129	3	15	
Surrogate:										
2-Fluorobiphenyl					*99*	*96*	*41 - 114*			
Pyrene-d10					*105*	*98*	*39 - 115*			
Terphenyl-d14					*123*	*116*	*44 - 125*			

Date of Report: February 8, 2022
Samples Submitted: January 28, 2022
Laboratory Reference: 2201-237
Project: 397-066

PCBs EPA 8082A

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**PH-3-15.0**					
Laboratory ID:	01-237-01					
Aroclor 1016	**ND**	0.0030	EPA 8082A	2-3-22	2-4-22	
Aroclor 1221	**ND**	0.0030	EPA 8082A	2-3-22	2-4-22	
Aroclor 1232	**ND**	0.0030	EPA 8082A	2-3-22	2-4-22	
Aroclor 1242	**ND**	0.0030	EPA 8082A	2-3-22	2-4-22	
Aroclor 1248	**ND**	0.0030	EPA 8082A	2-3-22	2-4-22	
Aroclor 1254	**ND**	0.0030	EPA 8082A	2-3-22	2-4-22	
Aroclor 1260	**ND**	0.0030	EPA 8082A	2-3-22	2-4-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*70*	*54-135*				
Client ID:	**PH-3-20.0**					
Laboratory ID:	01-237-02					
Aroclor 1016	**ND**	0.0029	EPA 8082A	2-3-22	2-4-22	
Aroclor 1221	**ND**	0.0029	EPA 8082A	2-3-22	2-4-22	
Aroclor 1232	**ND**	0.0029	EPA 8082A	2-3-22	2-4-22	
Aroclor 1242	**ND**	0.0029	EPA 8082A	2-3-22	2-4-22	
Aroclor 1248	**ND**	0.0029	EPA 8082A	2-3-22	2-4-22	
Aroclor 1254	**ND**	0.0029	EPA 8082A	2-3-22	2-4-22	
Aroclor 1260	**ND**	0.0029	EPA 8082A	2-3-22	2-4-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*59*	*54-135*				
Client ID:	**PH-3-25.0**					
Laboratory ID:	01-237-03					
Aroclor 1016	**ND**	0.0031	EPA 8082A	2-3-22	2-4-22	
Aroclor 1221	**ND**	0.0031	EPA 8082A	2-3-22	2-4-22	
Aroclor 1232	**ND**	0.0031	EPA 8082A	2-3-22	2-4-22	
Aroclor 1242	**ND**	0.0031	EPA 8082A	2-3-22	2-4-22	
Aroclor 1248	**ND**	0.0031	EPA 8082A	2-3-22	2-4-22	
Aroclor 1254	**ND**	0.0031	EPA 8082A	2-3-22	2-4-22	
Aroclor 1260	**ND**	0.0031	EPA 8082A	2-3-22	2-4-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*70*	*54-135*				

Date of Report: February 8, 2022
Samples Submitted: January 28, 2022
Laboratory Reference: 2201-237
Project: 397-066

PCBs EPA 8082A

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**PH-3-30.0**					
Laboratory ID:	01-237-04					
Aroclor 1016	**ND**	0.0031	EPA 8082A	2-3-22	2-4-22	
Aroclor 1221	**ND**	0.0031	EPA 8082A	2-3-22	2-4-22	
Aroclor 1232	**ND**	0.0031	EPA 8082A	2-3-22	2-4-22	
Aroclor 1242	**ND**	0.0031	EPA 8082A	2-3-22	2-4-22	
Aroclor 1248	**ND**	0.0031	EPA 8082A	2-3-22	2-4-22	
Aroclor 1254	**ND**	0.0031	EPA 8082A	2-3-22	2-4-22	
Aroclor 1260	**ND**	0.0031	EPA 8082A	2-3-22	2-4-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*89*	*54-135*				
Client ID:	**PH-3-35.0**					
Laboratory ID:	01-237-05					
Aroclor 1016	**ND**	0.0029	EPA 8082A	2-3-22	2-4-22	
Aroclor 1221	**ND**	0.0029	EPA 8082A	2-3-22	2-4-22	
Aroclor 1232	**ND**	0.0029	EPA 8082A	2-3-22	2-4-22	
Aroclor 1242	**ND**	0.0029	EPA 8082A	2-3-22	2-4-22	
Aroclor 1248	**ND**	0.0029	EPA 8082A	2-3-22	2-4-22	
Aroclor 1254	**ND**	0.0029	EPA 8082A	2-3-22	2-4-22	
Aroclor 1260	**ND**	0.0029	EPA 8082A	2-3-22	2-4-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*77*	*54-135*				
Client ID:	**PH-4-25.0**					
Laboratory ID:	01-237-11					
Aroclor 1016	**ND**	0.0033	EPA 8082A	2-3-22	2-4-22	
Aroclor 1221	**ND**	0.0033	EPA 8082A	2-3-22	2-4-22	
Aroclor 1232	**ND**	0.0033	EPA 8082A	2-3-22	2-4-22	
Aroclor 1242	**ND**	0.0033	EPA 8082A	2-3-22	2-4-22	
Aroclor 1248	**ND**	0.0033	EPA 8082A	2-3-22	2-4-22	
Aroclor 1254	**ND**	0.0033	EPA 8082A	2-3-22	2-4-22	
Aroclor 1260	**ND**	0.0033	EPA 8082A	2-3-22	2-4-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*84*	*54-135*				

Date of Report: February 8, 2022
Samples Submitted: January 28, 2022
Laboratory Reference: 2201-237
Project: 397-066

PCBs EPA 8082A

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**PH-4-30.0**					
Laboratory ID:	01-237-12					
Aroclor 1016	**ND**	0.0030	EPA 8082A	2-3-22	2-4-22	
Aroclor 1221	**ND**	0.0030	EPA 8082A	2-3-22	2-4-22	
Aroclor 1232	**ND**	0.0030	EPA 8082A	2-3-22	2-4-22	
Aroclor 1242	**ND**	0.0030	EPA 8082A	2-3-22	2-4-22	
Aroclor 1248	**ND**	0.0030	EPA 8082A	2-3-22	2-4-22	
Aroclor 1254	**ND**	0.0030	EPA 8082A	2-3-22	2-4-22	
Aroclor 1260	**ND**	0.0030	EPA 8082A	2-3-22	2-4-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*70*	*54-135*				
Client ID:	**PH-4-35.0**					
Laboratory ID:	01-237-13					
Aroclor 1016	**ND**	0.0030	EPA 8082A	2-3-22	2-4-22	
Aroclor 1221	**ND**	0.0030	EPA 8082A	2-3-22	2-4-22	
Aroclor 1232	**ND**	0.0030	EPA 8082A	2-3-22	2-4-22	
Aroclor 1242	**ND**	0.0030	EPA 8082A	2-3-22	2-4-22	
Aroclor 1248	**ND**	0.0030	EPA 8082A	2-3-22	2-4-22	
Aroclor 1254	**ND**	0.0030	EPA 8082A	2-3-22	2-4-22	
Aroclor 1260	**ND**	0.0030	EPA 8082A	2-3-22	2-4-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*78*	*54-135*				

Date of Report: February 8, 2022
Samples Submitted: January 28, 2022
Laboratory Reference: 2201-237
Project: 397-066

PCBs EPA 8082A
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0203S1					
Aroclor 1016	**ND**	0.0025	EPA 8082A	2-3-22	2-3-22	
Aroclor 1221	**ND**	0.0025	EPA 8082A	2-3-22	2-3-22	
Aroclor 1232	**ND**	0.0025	EPA 8082A	2-3-22	2-3-22	
Aroclor 1242	**ND**	0.0025	EPA 8082A	2-3-22	2-3-22	
Aroclor 1248	**ND**	0.0025	EPA 8082A	2-3-22	2-3-22	
Aroclor 1254	**ND**	0.0025	EPA 8082A	2-3-22	2-3-22	
Aroclor 1260	**ND**	0.0025	EPA 8082A	2-3-22	2-3-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*76*	*54-135*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB0203S1										
	SB	SBD	SB	SBD		SB	SBD				
Aroclor 1260	**0.0163**	**0.0192**	0.0250	0.0250	N/A	**65**	**77**	65-134	16	18	
Surrogate:											
DCB						*71*	*80*	*54-135*			

Date of Report: February 8, 2022
Samples Submitted: January 28, 2022
Laboratory Reference: 2201-237
Project: 397-066

TOTAL METALS
EPA 6010D

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**PH-3-15.0**					
Laboratory ID:	01-237-01					
Arsenic	**ND**	3.0	EPA 6010D	2-2-22	2-3-22	
Barium	**28**	3.0	EPA 6010D	2-2-22	2-3-22	
Chromium	**16**	0.59	EPA 6010D	2-2-22	2-3-22	
Lead	**ND**	5.9	EPA 6010D	2-2-22	2-3-22	
Client ID:	**PH-3-20.0**					
Laboratory ID:	01-237-02					
Arsenic	**ND**	2.9	EPA 6010D	2-2-22	2-3-22	
Barium	**28**	2.9	EPA 6010D	2-2-22	2-3-22	
Chromium	**23**	0.58	EPA 6010D	2-2-22	2-3-22	
Lead	**ND**	5.8	EPA 6010D	2-2-22	2-3-22	
Client ID:	**PH-3-25.0**					
Laboratory ID:	01-237-03					
Arsenic	**ND**	3.1	EPA 6010D	2-2-22	2-3-22	
Barium	**47**	3.1	EPA 6010D	2-2-22	2-3-22	
Chromium	**23**	0.62	EPA 6010D	2-2-22	2-3-22	
Lead	**ND**	6.2	EPA 6010D	2-2-22	2-3-22	
Client ID:	**PH-3-30.0**					
Laboratory ID:	01-237-04					
Arsenic	**ND**	3.1	EPA 6010D	2-2-22	2-3-22	
Barium	**65**	3.1	EPA 6010D	2-2-22	2-3-22	
Chromium	**27**	0.62	EPA 6010D	2-2-22	2-3-22	
Lead	**ND**	6.2	EPA 6010D	2-2-22	2-3-22	
Client ID:	**PH-3-35.0**					
Laboratory ID:	01-237-05					
Arsenic	**ND**	2.9	EPA 6010D	2-2-22	2-3-22	
Barium	**47**	2.9	EPA 6010D	2-2-22	2-3-22	
Chromium	**18**	0.57	EPA 6010D	2-2-22	2-3-22	
Lead	**ND**	5.7	EPA 6010D	2-2-22	2-3-22	

Date of Report: February 8, 2022
Samples Submitted: January 28, 2022
Laboratory Reference: 2201-237
Project: 397-066

TOTAL METALS
EPA 6010D

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**PH-4-25.0**					
Laboratory ID:	01-237-11					
Arsenic	**ND**	3.3	EPA 6010D	2-2-22	2-3-22	
Barium	**51**	3.3	EPA 6010D	2-2-22	2-3-22	
Chromium	**31**	0.65	EPA 6010D	2-2-22	2-3-22	
Lead	**ND**	6.5	EPA 6010D	2-2-22	2-3-22	
Client ID:	**PH-4-30.0**					
Laboratory ID:	01-237-12					
Arsenic	**ND**	3.0	EPA 6010D	2-2-22	2-3-22	
Barium	**48**	3.0	EPA 6010D	2-2-22	2-3-22	
Chromium	**19**	0.60	EPA 6010D	2-2-22	2-3-22	
Lead	**ND**	6.0	EPA 6010D	2-2-22	2-3-22	
Client ID:	**PH-4-35.0**					
Laboratory ID:	01-237-13					
Arsenic	**4.3**	3.0	EPA 6010D	2-2-22	2-3-22	
Barium	**69**	3.0	EPA 6010D	2-2-22	2-3-22	
Chromium	**20**	0.60	EPA 6010D	2-2-22	2-3-22	
Lead	**ND**	6.0	EPA 6010D	2-2-22	2-3-22	

Date of Report: February 8, 2022
Samples Submitted: January 28, 2022
Laboratory Reference: 2201-237
Project: 397-066

TOTAL METALS
EPA 6010D
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0202SM1					
Arsenic	**ND**	2.5	EPA 6010D	2-2-22	2-3-22	
Barium	**ND**	2.5	EPA 6010D	2-2-22	2-3-22	
Chromium	**ND**	0.50	EPA 6010D	2-2-22	2-3-22	
Lead	**ND**	5.0	EPA 6010D	2-2-22	2-3-22	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	01-231-01										
	ORIG	DUP									
Arsenic	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Barium	**28.6**	**34.3**	NA	NA		NA		NA	18	20	
Chromium	**17.6**	**15.3**	NA	NA		NA		NA	14	20	
Lead	**ND**	**ND**	NA	NA		NA		NA	NA	20	
MATRIX SPIKES											
Laboratory ID:	01-231-01										
	MS	MSD	MS	MSD		MS	MSD				
Arsenic	**93.2**	**93.9**	100	100	ND	**93**	**94**	75-125	1	20	
Barium	**128**	**126**	100	100	28.6	**99**	**97**	75-125	1	20	
Chromium	**106**	**111**	100	100	17.6	**89**	**93**	75-125	4	20	
Lead	**230**	**228**	250	250	ND	**92**	**91**	75-125	1	20	

Date of Report: February 8, 2022
Samples Submitted: January 28, 2022
Laboratory Reference: 2201-237
Project: 397-066

% MOISTURE

Client ID	Lab ID	% Moisture	Date Analyzed
PH-3-15.0	01-237-01	**16**	2-2-22
PH-3-20.0	01-237-02	**14**	2-2-22
PH-3-25.0	01-237-03	**20**	2-2-22
PH-3-30.0	01-237-04	**19**	2-2-22
PH-3-35.0	01-237-05	**13**	2-2-22
PH-4-25.0	01-237-11	**24**	2-2-22
PH-4-30.0	01-237-12	**17**	2-2-22
PH-4-35.0	01-237-13	**16**	2-2-22

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

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

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1- Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Farallon Consulting
Project Number: 397-0606
Project Name: Block 37
Project Manager: Brani Jurista/Chantal Bantfield
Sampled by: Elise Bugge

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☒ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 01-237

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	PH-3-15.0	~~1/26/22~~ 1/27/22	0800	S	5
2	PH-3-20.0		0805		
3	PH-3-25.0		0810		
4	PH-3-30.0		0910		
5	PH-3-35.0		0915		
6	PH-3-40.0		0925		
7	PH-3-45.0		0930		
8	PH-3-50.0		0935		
9	PH-4-15.0		1034		
10	PH-4-20.0		1037		

Lab ID	NWTPH-HCID	NWTPH-Gx/BTEX * 8260D	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up) * extended	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level) carcinogenic + naphthalenes *	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	* As, Ba, Cr, Pb				% Moisture
1		X		X					X	X								X				7.8
2		X		X					X	X								X				
3		X		X					X	X								X				
4		X		X					X	X								X				
5		X		X					X	X								X				
6																						
7																						
8																						
9																						
10																						

	Signature	Company	Date	Time
Relinquished	Elise Bugge	FLN	1/27/22	1430
Received	Van	Spdy	1/27/22	0825
Relinquished	Van	Spdy	1/27/22	1025
Received		OSE	1/28/22	1025
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
* Special detection limits

Data Package: Standard ☐ Level III ☐ Level IV ☐
Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Farallon Consulting
Project Number: 397-066
Project Name: Block 37
Project Manager: Brani Jurista/Chantal Banfield
Sampled by: Elise Bugge

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☒ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 01-237

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX 8260 D *	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up) extended	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level) carcinogenic + naphthalenes *	PCBs 8082A *	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	As, Ba, Cr, Pb *				% Moisture
11	PH-4-25.0	1/27/22	1040	S	5		X		X					X	X								X				10
12	PH-4-30.0		1050				X		X					X	X								X				1
13	PH-4-35.0		1055				X		X					X	X								X				1
14	PH-4-40.0		1120																								
15	PH-4-45.0		1125																								
16	PH-4-50.0		1130																								

emb

	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished	Elise Bugge	FLN	1/27/22	1430	* Special detection limits
Received	Vant	Spdy	1/27/22	0825	
Relinquished	Van	Spdy	1/27/22	1025	
Received			1/28/22	1025	
Relinquished					
Received					Data Package: Standard ☐ Level III ☐ Level IV ☐
Reviewed/Date		Reviewed/Date			Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

February 28, 2022

Brani Jurista
Farallon Consulting
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 397-066
Laboratory Reference No. 2202-231

Dear Brani:

Enclosed are the analytical results and associated quality control data for samples submitted on February 18, 2022.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: February 28, 2022
Samples Submitted: February 17 and 18, 2022
Laboratory Reference: 2202-231
Project: 397-066

Case Narrative

Samples were collected on February 16, 2022 and received by the laboratory on February 17 and 18, 2022. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: February 28, 2022
Samples Submitted: February 17 and 18, 2022
Laboratory Reference: 2202-231
Project: 397-066

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**B-37-1-021622**					
Laboratory ID:	02-231-01					
Gasoline	**ND**	100	NWTPH-Gx	2-22-22	2-22-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*89*	*66-117*				
Client ID:	**B-37-3-021622**					
Laboratory ID:	02-231-02					
Gasoline	**ND**	100	NWTPH-Gx	2-22-22	2-22-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*88*	*66-117*				
Client ID:	**B-37-4-021622**					
Laboratory ID:	02-231-03					
Gasoline	**ND**	100	NWTPH-Gx	2-22-22	2-22-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*89*	*66-117*				
Client ID:	**B-37-6-021622**					
Laboratory ID:	02-231-04					
Gasoline	**ND**	100	NWTPH-Gx	2-22-22	2-22-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*89*	*66-117*				
Client ID:	**MW-45-021622**					
Laboratory ID:	02-231-05					
Gasoline	**410**	100	NWTPH-Gx	2-22-22	2-22-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*89*	*66-117*				
Client ID:	**MW-54-021622**					
Laboratory ID:	02-231-06					
Gasoline	**ND**	100	NWTPH-Gx	2-22-22	2-22-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*90*	*66-117*				
Client ID:	**FMW-139-021622**					
Laboratory ID:	02-231-07					
Gasoline	**ND**	100	NWTPH-Gx	2-22-22	2-22-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*89*	*66-117*				

Date of Report: February 28, 2022
Samples Submitted: February 17 and 18, 2022
Laboratory Reference: 2202-231
Project: 397-066

GASOLINE RANGE ORGANICS
NWTPH-Gx
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0222W2					
Gasoline	**ND**	100	NWTPH-Gx	2-22-22	2-22-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*90*	*66-117*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	02-233-09										
	ORIG	DUP									
Gasoline	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Surrogate:											
Fluorobenzene						*89*	*88*	*66-117*			

Date of Report: February 28, 2022
Samples Submitted: February 17 and 18, 2022
Laboratory Reference: 2202-231
Project: 397-066

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Water
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**B-37-1-021622**					
Laboratory ID:	02-231-01					
Diesel Range Organics	**0.21**	0.20	NWTPH-Dx	2-23-22	2-23-22	
Lube Oil Range Organics	**0.39**	0.20	NWTPH-Dx	2-23-22	2-23-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*103*	*50-150*				
Client ID:	**B-37-3-021622**					
Laboratory ID:	02-231-02					
Diesel Range Organics	**ND**	0.20	NWTPH-Dx	2-23-22	2-23-22	
Lube Oil Range Organics	**ND**	0.20	NWTPH-Dx	2-23-22	2-23-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*87*	*50-150*				
Client ID:	**B-37-4-021622**					
Laboratory ID:	02-231-03					
Diesel Range Organics	**ND**	0.20	NWTPH-Dx	2-23-22	2-23-22	
Lube Oil Range Organics	**0.21**	0.20	NWTPH-Dx	2-23-22	2-23-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*103*	*50-150*				
Client ID:	**B-37-6-021622**					
Laboratory ID:	02-231-04					
Diesel Range Organics	**ND**	0.20	NWTPH-Dx	2-23-22	2-23-22	
Lube Oil Range Organics	**ND**	0.20	NWTPH-Dx	2-23-22	2-23-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*96*	*50-150*				
Client ID:	**MW-45-021622**					
Laboratory ID:	02-231-05					
Diesel Range Organics	**0.48**	0.20	NWTPH-Dx	2-23-22	2-23-22	
Lube Oil Range Organics	**0.22**	0.20	NWTPH-Dx	2-23-22	2-23-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*102*	*50-150*				
Client ID:	**MW-54-021622**					
Laboratory ID:	02-231-06					
Diesel Range Organics	**ND**	0.20	NWTPH-Dx	2-23-22	2-23-22	
Lube Oil Range Organics	**0.28**	0.20	NWTPH-Dx	2-23-22	2-23-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*125*	*50-150*				

Date of Report: February 28, 2022
Samples Submitted: February 17 and 18, 2022
Laboratory Reference: 2202-231
Project: 397-066

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Water
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FMW-139-021622**					
Laboratory ID:	02-231-07					
Diesel Range Organics	**ND**	0.20	NWTPH-Dx	2-23-22	2-23-22	
Lube Oil Range Organics	**0.26**	0.20	NWTPH-Dx	2-23-22	2-23-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*123*	*50-150*				

Date of Report: February 28, 2022
Samples Submitted: February 17 and 18, 2022
Laboratory Reference: 2202-231
Project: 397-066

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx
QUALITY CONTROL

Matrix: Water
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0223W1					
Diesel Range Organics	**ND**	0.16	NWTPH-Dx	2-23-22	2-23-22	
Lube Oil Range Organics	**ND**	0.16	NWTPH-Dx	2-23-22	2-23-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*108*	*50-150*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	02-231-01										
	ORIG	DUP									
Diesel Range Organics	**0.208**	**0.223**	NA	NA		NA		NA	7	NA	
Lube Oil Range Organics	**0.393**	**0.356**	NA	NA		NA		NA	10	NA	
Surrogate:											
o-Terphenyl						*103*	*117*	*50-150*			

Date of Report: February 28, 2022
Samples Submitted: February 17 and 18, 2022
Laboratory Reference: 2202-231
Project: 397-066

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**B-37-1-021622**					
Laboratory ID:	02-231-01					
Benzene	ND	0.20	EPA 8260D	2-22-22	2-22-22	
Toluene	ND	1.0	EPA 8260D	2-22-22	2-22-22	
Ethylbenzene	ND	0.20	EPA 8260D	2-22-22	2-22-22	
m,p-Xylene	ND	0.40	EPA 8260D	2-22-22	2-22-22	
o-Xylene	ND	0.20	EPA 8260D	2-22-22	2-22-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*103*	*75-127*				
Toluene-d8	*102*	*80-127*				
4-Bromofluorobenzene	*101*	*78-125*				
Client ID:	**B-37-3-021622**					
Laboratory ID:	02-231-02					
Benzene	ND	0.20	EPA 8260D	2-22-22	2-22-22	
Toluene	ND	1.0	EPA 8260D	2-22-22	2-22-22	
Ethylbenzene	ND	0.20	EPA 8260D	2-22-22	2-22-22	
m,p-Xylene	ND	0.40	EPA 8260D	2-22-22	2-22-22	
o-Xylene	ND	0.20	EPA 8260D	2-22-22	2-22-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*105*	*75-127*				
Toluene-d8	*101*	*80-127*				
4-Bromofluorobenzene	*103*	*78-125*				
Client ID:	**B-37-4-021622**					
Laboratory ID:	02-231-03					
Benzene	ND	0.20	EPA 8260D	2-22-22	2-22-22	
Toluene	ND	1.0	EPA 8260D	2-22-22	2-22-22	
Ethylbenzene	ND	0.20	EPA 8260D	2-22-22	2-22-22	
m,p-Xylene	ND	0.40	EPA 8260D	2-22-22	2-22-22	
o-Xylene	ND	0.20	EPA 8260D	2-22-22	2-22-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*104*	*75-127*				
Toluene-d8	*101*	*80-127*				
4-Bromofluorobenzene	*103*	*78-125*				

Date of Report: February 28, 2022
Samples Submitted: February 17 and 18, 2022
Laboratory Reference: 2202-231
Project: 397-066

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**B-37-6-021622**					
Laboratory ID:	02-231-04					
Benzene	ND	0.20	EPA 8260D	2-22-22	2-22-22	
Toluene	ND	1.0	EPA 8260D	2-22-22	2-22-22	
Ethylbenzene	ND	0.20	EPA 8260D	2-22-22	2-22-22	
m,p-Xylene	ND	0.40	EPA 8260D	2-22-22	2-22-22	
o-Xylene	ND	0.20	EPA 8260D	2-22-22	2-22-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*109*	*75-127*				
Toluene-d8	*102*	*80-127*				
4-Bromofluorobenzene	*103*	*78-125*				
Client ID:	**MW-45-021622**					
Laboratory ID:	02-231-05					
Benzene	ND	0.20	EPA 8260D	2-22-22	2-22-22	
Toluene	ND	1.0	EPA 8260D	2-22-22	2-22-22	
Ethylbenzene	3.9	0.20	EPA 8260D	2-22-22	2-22-22	
m,p-Xylene	ND	0.40	EPA 8260D	2-22-22	2-22-22	
o-Xylene	ND	0.20	EPA 8260D	2-22-22	2-22-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*108*	*75-127*				
Toluene-d8	*101*	*80-127*				
4-Bromofluorobenzene	*103*	*78-125*				
Client ID:	**MW-54-021622**					
Laboratory ID:	02-231-06					
Benzene	ND	0.20	EPA 8260D	2-22-22	2-22-22	
Toluene	ND	1.0	EPA 8260D	2-22-22	2-22-22	
Ethylbenzene	ND	0.20	EPA 8260D	2-22-22	2-22-22	
m,p-Xylene	ND	0.40	EPA 8260D	2-22-22	2-22-22	
o-Xylene	ND	0.20	EPA 8260D	2-22-22	2-22-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*107*	*75-127*				
Toluene-d8	*101*	*80-127*				
4-Bromofluorobenzene	*103*	*78-125*				

Date of Report: February 28, 2022
Samples Submitted: February 17 and 18, 2022
Laboratory Reference: 2202-231
Project: 397-066

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FMW-139-021622**					
Laboratory ID:	02-231-07					
Benzene	ND	0.20	EPA 8260D	2-22-22	2-22-22	
Toluene	ND	1.0	EPA 8260D	2-22-22	2-22-22	
Ethylbenzene	ND	0.20	EPA 8260D	2-22-22	2-22-22	
m,p-Xylene	ND	0.40	EPA 8260D	2-22-22	2-22-22	
o-Xylene	ND	0.20	EPA 8260D	2-22-22	2-22-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*109*	*75-127*				
Toluene-d8	*102*	*80-127*				
4-Bromofluorobenzene	*104*	*78-125*				

Date of Report: February 28, 2022
Samples Submitted: February 17 and 18, 2022
Laboratory Reference: 2202-231
Project: 397-066

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0222W1					
Benzene	ND	0.20	EPA 8260D	2-22-22	2-22-22	
Toluene	ND	1.0	EPA 8260D	2-22-22	2-22-22	
Ethylbenzene	ND	0.20	EPA 8260D	2-22-22	2-22-22	
m,p-Xylene	ND	0.40	EPA 8260D	2-22-22	2-22-22	
o-Xylene	ND	0.20	EPA 8260D	2-22-22	2-22-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*105*	*75-127*				
Toluene-d8	*100*	*80-127*				
4-Bromofluorobenzene	*103*	*78-125*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0222W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	**11.7**	**12.2**	10.0	10.0	117	122	78-125	4	19	
Benzene	**11.6**	**11.9**	10.0	10.0	116	119	80-119	3	16	
Trichloroethene	**11.3**	**11.4**	10.0	10.0	113	114	80-121	1	18	
Toluene	**11.0**	**11.2**	10.0	10.0	110	112	80-117	2	18	
Chlorobenzene	**10.2**	**10.5**	10.0	10.0	102	105	80-117	3	17	
Surrogate:										
Dibromofluoromethane					*102*	*103*	*75-127*			
Toluene-d8					*100*	*100*	*80-127*			
4-Bromofluorobenzene					*105*	*105*	*78-125*			

Date of Report: February 28, 2022
Samples Submitted: February 17 and 18, 2022
Laboratory Reference: 2202-231
Project: 397-066

PAHs EPA 8270E/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags	MDL
Client ID:	**B-37-1-021622**						
Laboratory ID:	02-231-01						
Naphthalene	**0.037**	0.10	EPA 8270E/SIM	2-22-22	2-22-22	J	0.013
Benzo[a]anthracene	**ND**	0.010	EPA 8270E/SIM	2-22-22	2-22-22		0.0085
Chrysene	**ND**	0.010	EPA 8270E/SIM	2-22-22	2-22-22		0.0094
Benzo[b]fluoranthene	**ND**	0.010	EPA 8270E/SIM	2-22-22	2-22-22		0.0078
Benzo(j,k)fluoranthene	**ND**	0.010	EPA 8270E/SIM	2-22-22	2-22-22		0.0081
Benzo[a]pyrene	**ND**	0.010	EPA 8270E/SIM	2-22-22	2-22-22		0.0064
Indeno(1,2,3-c,d)pyrene	**ND**	0.010	EPA 8270E/SIM	2-22-22	2-22-22		0.0080
Dibenz[a,h]anthracene	**ND**	0.010	EPA 8270E/SIM	2-22-22	2-22-22		0.0078
Surrogate:	*Percent Recovery*	*Control Limits*					
2-Fluorobiphenyl	*61*	*25 - 106*					
Pyrene-d10	*78*	*28 - 104*					
Terphenyl-d14	*80*	*40 - 139*					
Client ID:	**B-37-3-021622**						
Laboratory ID:	02-231-02						
Naphthalene	**0.016**	0.10	EPA 8270E/SIM	2-22-22	2-22-22	J	0.013
Benzo[a]anthracene	**ND**	0.010	EPA 8270E/SIM	2-22-22	2-22-22		0.0086
Chrysene	**ND**	0.010	EPA 8270E/SIM	2-22-22	2-22-22		0.0095
Benzo[b]fluoranthene	**ND**	0.010	EPA 8270E/SIM	2-22-22	2-22-22		0.0079
Benzo(j,k)fluoranthene	**ND**	0.010	EPA 8270E/SIM	2-22-22	2-22-22		0.0082
Benzo[a]pyrene	**ND**	0.010	EPA 8270E/SIM	2-22-22	2-22-22		0.0065
Indeno(1,2,3-c,d)pyrene	**ND**	0.010	EPA 8270E/SIM	2-22-22	2-22-22		0.0082
Dibenz[a,h]anthracene	**ND**	0.010	EPA 8270E/SIM	2-22-22	2-22-22		0.0079
Surrogate:	*Percent Recovery*	*Control Limits*					
2-Fluorobiphenyl	*74*	*25 - 106*					
Pyrene-d10	*80*	*28 - 104*					
Terphenyl-d14	*88*	*40 - 139*					

Date of Report: February 28, 2022
Samples Submitted: February 17 and 18, 2022
Laboratory Reference: 2202-231
Project: 397-066

PAHs EPA 8270E/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags	MDL
Client ID:	**B-37-4-021622**						
Laboratory ID:	02-231-03						
Naphthalene	**ND**	0.10	EPA 8270E/SIM	2-22-22	2-22-22		0.013
Benzo[a]anthracene	**ND**	0.010	EPA 8270E/SIM	2-22-22	2-22-22		0.0085
Chrysene	**ND**	0.010	EPA 8270E/SIM	2-22-22	2-22-22		0.0094
Benzo[b]fluoranthene	**ND**	0.010	EPA 8270E/SIM	2-22-22	2-22-22		0.0078
Benzo(j,k)fluoranthene	**ND**	0.010	EPA 8270E/SIM	2-22-22	2-22-22		0.0081
Benzo[a]pyrene	**ND**	0.010	EPA 8270E/SIM	2-22-22	2-22-22		0.0064
Indeno(1,2,3-c,d)pyrene	**ND**	0.010	EPA 8270E/SIM	2-22-22	2-22-22		0.0080
Dibenz[a,h]anthracene	**ND**	0.010	EPA 8270E/SIM	2-22-22	2-22-22		0.0078
Surrogate:	*Percent Recovery*	*Control Limits*					
2-Fluorobiphenyl	*60*	*25 - 106*					
Pyrene-d10	*82*	*28 - 104*					
Terphenyl-d14	*84*	*40 - 139*					
Client ID:	**B-37-6-021622**						
Laboratory ID:	02-231-04						
Naphthalene	**0.024**	0.10	EPA 8270E/SIM	2-22-22	2-22-22	J	0.013
Benzo[a]anthracene	**ND**	0.010	EPA 8270E/SIM	2-22-22	2-22-22		0.0084
Chrysene	**ND**	0.010	EPA 8270E/SIM	2-22-22	2-22-22		0.0093
Benzo[b]fluoranthene	**ND**	0.010	EPA 8270E/SIM	2-22-22	2-22-22		0.0077
Benzo(j,k)fluoranthene	**ND**	0.010	EPA 8270E/SIM	2-22-22	2-22-22		0.0080
Benzo[a]pyrene	**ND**	0.010	EPA 8270E/SIM	2-22-22	2-22-22		0.0064
Indeno(1,2,3-c,d)pyrene	**ND**	0.010	EPA 8270E/SIM	2-22-22	2-22-22		0.0080
Dibenz[a,h]anthracene	**ND**	0.010	EPA 8270E/SIM	2-22-22	2-22-22		0.0078
Surrogate:	*Percent Recovery*	*Control Limits*					
2-Fluorobiphenyl	*52*	*25 - 106*					
Pyrene-d10	*65*	*28 - 104*					
Terphenyl-d14	*99*	*40 - 139*					

Date of Report: February 28, 2022
Samples Submitted: February 17 and 18, 2022
Laboratory Reference: 2202-231
Project: 397-066

PAHs EPA 8270E/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags	MDL
Client ID:	**MW-45-021622**						
Laboratory ID:	02-231-05						
Naphthalene	**2.2**	0.099	EPA 8270E/SIM	2-22-22	2-22-22		0.013
Benzo[a]anthracene	**ND**	0.0099	EPA 8270E/SIM	2-22-22	2-22-22		0.0084
Chrysene	**ND**	0.0099	EPA 8270E/SIM	2-22-22	2-22-22		0.0092
Benzo[b]fluoranthene	**ND**	0.0099	EPA 8270E/SIM	2-22-22	2-22-22		0.0077
Benzo(j,k)fluoranthene	**ND**	0.0099	EPA 8270E/SIM	2-22-22	2-22-22		0.0080
Benzo[a]pyrene	**ND**	0.0099	EPA 8270E/SIM	2-22-22	2-22-22		0.0063
Indeno(1,2,3-c,d)pyrene	**ND**	0.0099	EPA 8270E/SIM	2-22-22	2-22-22		0.0079
Dibenz[a,h]anthracene	**ND**	0.0099	EPA 8270E/SIM	2-22-22	2-22-22		0.0077
Surrogate:	*Percent Recovery*	*Control Limits*					
2-Fluorobiphenyl	*69*	*25 - 106*					
Pyrene-d10	*84*	*28 - 104*					
Terphenyl-d14	*97*	*40 - 139*					
Client ID:	**MW-54-021622**						
Laboratory ID:	02-231-06						
Naphthalene	**ND**	0.10	EPA 8270E/SIM	2-22-22	2-22-22		0.013
Benzo[a]anthracene	**ND**	0.010	EPA 8270E/SIM	2-22-22	2-22-22		0.0085
Chrysene	**ND**	0.010	EPA 8270E/SIM	2-22-22	2-22-22		0.0094
Benzo[b]fluoranthene	**ND**	0.010	EPA 8270E/SIM	2-22-22	2-22-22		0.0078
Benzo(j,k)fluoranthene	**ND**	0.010	EPA 8270E/SIM	2-22-22	2-22-22		0.0081
Benzo[a]pyrene	**ND**	0.010	EPA 8270E/SIM	2-22-22	2-22-22		0.0064
Indeno(1,2,3-c,d)pyrene	**ND**	0.010	EPA 8270E/SIM	2-22-22	2-22-22		0.0080
Dibenz[a,h]anthracene	**ND**	0.010	EPA 8270E/SIM	2-22-22	2-22-22		0.0078
Surrogate:	*Percent Recovery*	*Control Limits*					
2-Fluorobiphenyl	*60*	*25 - 106*					
Pyrene-d10	*65*	*28 - 104*					
Terphenyl-d14	*97*	*40 - 139*					

Date of Report: February 28, 2022
Samples Submitted: February 17 and 18, 2022
Laboratory Reference: 2202-231
Project: 397-066

PAHs EPA 8270E/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags	MDL
Client ID:	**FMW-139-021622**						
Laboratory ID:	02-231-07						
Naphthalene	**ND**	0.11	EPA 8270E/SIM	2-22-22	2-22-22		0.014
Benzo[a]anthracene	**ND**	0.011	EPA 8270E/SIM	2-22-22	2-22-22		0.0089
Chrysene	**ND**	0.011	EPA 8270E/SIM	2-22-22	2-22-22		0.0098
Benzo[b]fluoranthene	**ND**	0.011	EPA 8270E/SIM	2-22-22	2-22-22		0.0082
Benzo(j,k)fluoranthene	**ND**	0.011	EPA 8270E/SIM	2-22-22	2-22-22		0.0085
Benzo[a]pyrene	**ND**	0.011	EPA 8270E/SIM	2-22-22	2-22-22		0.0067
Indeno(1,2,3-c,d)pyrene	**ND**	0.011	EPA 8270E/SIM	2-22-22	2-22-22		0.0084
Dibenz[a,h]anthracene	**ND**	0.011	EPA 8270E/SIM	2-22-22	2-22-22		0.0082
Surrogate:	*Percent Recovery*	*Control Limits*					
2-Fluorobiphenyl	*57*	*25 - 106*					
Pyrene-d10	*75*	*28 - 104*					
Terphenyl-d14	*88*	*40 - 139*					

Date of Report: February 28, 2022
Samples Submitted: February 17 and 18, 2022
Laboratory Reference: 2202-231
Project: 397-066

PAHs EPA 8270E/SIM
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags	MDL
METHOD BLANK							
Laboratory ID:	MB0222W1						
Naphthalene	**ND**	0.10	EPA 8270E/SIM	2-22-22	2-22-22		0.013
Benzo[a]anthracene	**ND**	0.010	EPA 8270E/SIM	2-22-22	2-22-22		0.0084
Chrysene	**ND**	0.010	EPA 8270E/SIM	2-22-22	2-22-22		0.0093
Benzo[b]fluoranthene	**ND**	0.010	EPA 8270E/SIM	2-22-22	2-22-22		0.0078
Benzo(j,k)fluoranthene	**ND**	0.010	EPA 8270E/SIM	2-22-22	2-22-22		0.0081
Benzo[a]pyrene	**ND**	0.010	EPA 8270E/SIM	2-22-22	2-22-22		0.0064
Indeno(1,2,3-c,d)pyrene	**ND**	0.010	EPA 8270E/SIM	2-22-22	2-22-22		0.0080
Dibenz[a,h]anthracene	**ND**	0.010	EPA 8270E/SIM	2-22-22	2-22-22		0.0078
Surrogate:	*Percent Recovery*	*Control Limits*					
2-Fluorobiphenyl	*65*	*25 - 106*					
Pyrene-d10	*84*	*28 - 104*					
Terphenyl-d14	*83*	*40 - 139*					

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0222W1									
	SB	SBD	SB	SBD	SB	SBD				
Naphthalene	**0.324**	**0.275**	0.500	0.500	65	55	29 - 96	16	38	
Acenaphthylene	**0.390**	**0.350**	0.500	0.500	78	70	42 - 101	11	28	
Acenaphthene	**0.393**	**0.326**	0.500	0.500	79	65	37 - 104	19	31	
Fluorene	**0.365**	**0.341**	0.500	0.500	73	68	48 - 101	7	21	
Phenanthrene	**0.399**	**0.391**	0.500	0.500	80	78	52 - 104	2	20	
Anthracene	**0.352**	**0.343**	0.500	0.500	70	69	50 - 106	3	20	
Fluoranthene	**0.436**	**0.410**	0.500	0.500	87	82	56 - 113	6	20	
Pyrene	**0.485**	**0.414**	0.500	0.500	97	83	55 - 123	16	27	
Benzo[a]anthracene	**0.483**	**0.477**	0.500	0.500	97	95	60 - 131	1	20	
Chrysene	**0.464**	**0.447**	0.500	0.500	93	89	62 - 120	4	20	
Benzo[b]fluoranthene	**0.449**	**0.450**	0.500	0.500	90	90	63 - 123	0	20	
Benzo(j,k)fluoranthene	**0.451**	**0.420**	0.500	0.500	90	84	60 - 127	7	20	
Benzo[a]pyrene	**0.435**	**0.425**	0.500	0.500	87	85	61 - 123	2	20	
Indeno(1,2,3-c,d)pyrene	**0.465**	**0.429**	0.500	0.500	93	86	60 - 125	8	20	
Dibenz[a,h]anthracene	**0.441**	**0.427**	0.500	0.500	88	85	61 - 124	3	20	
Benzo[g,h,i]perylene	**0.440**	**0.428**	0.500	0.500	88	86	59 - 122	3	20	
Surrogate:										
2-Fluorobiphenyl					*55*	*61*	*25 - 106*			
Pyrene-d10					*74*	*76*	*28 - 104*			
Terphenyl-d14					*85*	*88*	*40 - 139*			

Date of Report: February 28, 2022
Samples Submitted: February 17 and 18, 2022
Laboratory Reference: 2202-231
Project: 397-066

TOTAL METALS
EPA 200.8

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**B-37-1-021622**					
Laboratory ID:	02-231-01					
Arsenic	**ND**	3.0	EPA 200.8	2-22-22	2-23-22	
Barium	**120**	28	EPA 200.8	2-22-22	2-23-22	
Chromium	**ND**	10	EPA 200.8	2-22-22	2-23-22	
Lead	**ND**	1.1	EPA 200.8	2-22-22	2-23-22	
Client ID:	**B-37-3-021622**					
Laboratory ID:	02-231-02					
Arsenic	**9.6**	3.0	EPA 200.8	2-22-22	2-23-22	
Barium	**120**	28	EPA 200.8	2-22-22	2-23-22	
Chromium	**ND**	10	EPA 200.8	2-22-22	2-23-22	
Lead	**ND**	1.1	EPA 200.8	2-22-22	2-23-22	
Client ID:	**B-37-4-021622**					
Laboratory ID:	02-231-03					
Arsenic	**ND**	3.0	EPA 200.8	2-22-22	2-23-22	
Barium	**110**	28	EPA 200.8	2-22-22	2-23-22	
Chromium	**ND**	10	EPA 200.8	2-22-22	2-23-22	
Lead	**ND**	1.1	EPA 200.8	2-22-22	2-23-22	
Client ID:	**B-37-6-021622**					
Laboratory ID:	02-231-04					
Arsenic	**ND**	3.0	EPA 200.8	2-22-22	2-23-22	
Barium	**91**	28	EPA 200.8	2-22-22	2-23-22	
Chromium	**ND**	10	EPA 200.8	2-22-22	2-23-22	
Lead	**ND**	1.1	EPA 200.8	2-22-22	2-23-22	
Client ID:	**MW-45-021622**					
Laboratory ID:	02-231-05					
Arsenic	**ND**	3.0	EPA 200.8	2-22-22	2-23-22	
Barium	**55**	28	EPA 200.8	2-22-22	2-23-22	
Chromium	**ND**	10	EPA 200.8	2-22-22	2-23-22	
Lead	**ND**	1.1	EPA 200.8	2-22-22	2-23-22	

Date of Report: February 28, 2022
Samples Submitted: February 17 and 18, 2022
Laboratory Reference: 2202-231
Project: 397-066

TOTAL METALS
EPA 200.8

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-54-021622**					
Laboratory ID:	02-231-06					
Arsenic	**4.1**	3.0	EPA 200.8	2-22-22	2-23-22	
Barium	**69**	28	EPA 200.8	2-22-22	2-23-22	
Chromium	**ND**	10	EPA 200.8	2-22-22	2-23-22	
Lead	**ND**	1.1	EPA 200.8	2-22-22	2-23-22	
Client ID:	**FMW-139-021622**					
Laboratory ID:	02-231-07					
Arsenic	**ND**	3.0	EPA 200.8	2-22-22	2-23-22	
Barium	**72**	28	EPA 200.8	2-22-22	2-23-22	
Chromium	**ND**	10	EPA 200.8	2-22-22	2-23-22	
Lead	**ND**	1.1	EPA 200.8	2-22-22	2-23-22	

Date of Report: February 28, 2022
Samples Submitted: February 17 and 18, 2022
Laboratory Reference: 2202-231
Project: 397-066

TOTAL METALS
EPA 200.8
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0222WM2					
Arsenic	**ND**	3.0	EPA 200.8	2-22-22	2-23-22	
Barium	**ND**	28	EPA 200.8	2-22-22	2-23-22	
Chromium	**ND**	10	EPA 200.8	2-22-22	2-23-22	
Lead	**ND**	1.1	EPA 200.8	2-22-22	2-23-22	

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	02-264-04									
	ORIG	DUP								
Arsenic	**22.4**	**22.2**	NA	NA		NA	NA	1	20	
Barium	**59.6**	**60.2**	NA	NA		NA	NA	1	20	
Chromium	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Lead	**ND**	**ND**	NA	NA		NA	NA	NA	20	
MATRIX SPIKES										
Laboratory ID:	02-264-04									
	MS	MSD	MS	MSD		MS	MSD			
Arsenic	**155**	**155**	111	111	22.4	**119**	**119**	75-125	0	20
Barium	**170**	**170**	111	111	59.6	**100**	**100**	75-125	0	20
Chromium	**118**	**119**	111	111	ND	**106**	**107**	75-125	1	20
Lead	**108**	**109**	111	111	ND	**98**	**98**	75-125	0	20

Date of Report: February 28, 2022
Samples Submitted: February 17 and 18, 2022
Laboratory Reference: 2202-231
Project: 397-066

DISSOLVED METALS
EPA 200.8

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**B-37-1-021622**					
Laboratory ID:	02-231-01					
Arsenic	**ND**	3.0	EPA 200.8	2-18-22	2-23-22	
Barium	**99**	25	EPA 200.8	2-18-22	2-23-22	
Chromium	**ND**	10	EPA 200.8	2-18-22	2-23-22	
Lead	**ND**	1.0	EPA 200.8	2-18-22	2-23-22	
Client ID:	**B-37-3-021622**					
Laboratory ID:	02-231-02					
Arsenic	**9.5**	3.0	EPA 200.8	2-18-22	2-23-22	
Barium	**120**	25	EPA 200.8	2-18-22	2-23-22	
Chromium	**ND**	10	EPA 200.8	2-18-22	2-23-22	
Lead	**ND**	1.0	EPA 200.8	2-18-22	2-23-22	
Client ID:	**B-37-4-021622**					
Laboratory ID:	02-231-03					
Arsenic	**ND**	3.0	EPA 200.8	2-18-22	2-23-22	
Barium	**110**	25	EPA 200.8	2-18-22	2-23-22	
Chromium	**ND**	10	EPA 200.8	2-18-22	2-23-22	
Lead	**ND**	1.0	EPA 200.8	2-18-22	2-23-22	
Client ID:	**B-37-6-021622**					
Laboratory ID:	02-231-04					
Arsenic	**ND**	3.0	EPA 200.8	2-18-22	2-23-22	
Barium	**85**	25	EPA 200.8	2-18-22	2-23-22	
Chromium	**ND**	10	EPA 200.8	2-18-22	2-23-22	
Lead	**ND**	1.0	EPA 200.8	2-18-22	2-23-22	
Client ID:	**MW-45-021622**					
Laboratory ID:	02-231-05					
Arsenic	**ND**	3.0	EPA 200.8	2-18-22	2-23-22	
Barium	**51**	25	EPA 200.8	2-18-22	2-23-22	
Chromium	**ND**	10	EPA 200.8	2-18-22	2-23-22	
Lead	**ND**	1.0	EPA 200.8	2-18-22	2-23-22	

Date of Report: February 28, 2022
Samples Submitted: February 17 and 18, 2022
Laboratory Reference: 2202-231
Project: 397-066

DISSOLVED METALS
EPA 200.8

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-54-021622**					
Laboratory ID:	02-231-06					
Arsenic	**3.6**	3.0	EPA 200.8	2-18-22	2-23-22	
Barium	**66**	25	EPA 200.8	2-18-22	2-23-22	
Chromium	**ND**	10	EPA 200.8	2-18-22	2-23-22	
Lead	**ND**	1.0	EPA 200.8	2-18-22	2-23-22	
Client ID:	**FMW-139-021622**					
Laboratory ID:	02-231-07					
Arsenic	**ND**	3.0	EPA 200.8	2-18-22	2-23-22	
Barium	**55**	25	EPA 200.8	2-18-22	2-23-22	
Chromium	**ND**	10	EPA 200.8	2-18-22	2-23-22	
Lead	**ND**	1.0	EPA 200.8	2-18-22	2-23-22	

Date of Report: February 28, 2022
Samples Submitted: February 17 and 18, 2022
Laboratory Reference: 2202-231
Project: 397-066

DISSOLVED METALS
EPA 200.8
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0218F1					
Arsenic	**ND**	3.0	EPA 200.8	2-18-22	2-23-22	
Barium	**ND**	25	EPA 200.8	2-18-22	2-23-22	
Chromium	**ND**	10	EPA 200.8	2-18-22	2-23-22	
Lead	**ND**	1.0	EPA 200.8	2-18-22	2-23-22	

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	02-231-07									
	ORIG	DUP								
Arsenic	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Barium	**54.8**	**56.2**	NA	NA		NA	NA	3	20	
Chromium	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Lead	**ND**	**ND**	NA	NA		NA	NA	NA	20	
MATRIX SPIKES										
Laboratory ID:	02-231-07									
	MS	MSD	MS	MSD		MS	MSD			
Arsenic	**87.6**	**87.8**	80.0	80.0	ND	**110**	**110**	75-125	0	20
Barium	**135**	**138**	80.0	80.0	54.8	**100**	**104**	75-125	2	20
Chromium	**75.6**	**79.2**	80.0	80.0	ND	**95**	**99**	75-125	5	20
Lead	**75.8**	**78.8**	80.0	80.0	ND	**95**	**99**	75-125	4	20

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

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

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1- Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody

Page 1 of 1

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Favallon Consulting
Project Number: 397-006
Project Name: Block 37
Project Manager: Brani Junsta/Chantal Banfield
Sampled by: Elise Bugge

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☒ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 02-231

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☒)	NWTPH-Gx	NWTPH-Dx (Acid / SG Clean-up☐)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	cPAHs + naphthalene **	As/Ba/Cr/Pb (total + dissolved)			% Moisture
1	B-37-1-021622	2/16	1655	W	13		X		X														X	X			
2	B-37-3-021622		0940		13		X		X														X	X			
3	B-37-4-021622		1042				X		X														X	X			
4	B-37-6-021622		1202				X		X														X	X			
5	MW-45-021622		1519				X		X														X	X			
6	MW-54-021622		1418				X		X														X	X			
7	FMW-139-021622		1304				X		X														X	X			
	emb																										

	Signature	Company	Date	Time
Relinquished	Elise Bugge	FLN	2/16/22	1730
Received	Van	Spdy	2/17/22	1215
Relinquished	Van	Spdy	2/17/22	1302
Received		OBE	2/17/22	1702
Relinquished				
Received		OBE	2/18/22	1250
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

* Special detection limits
* Contact PM before running PCBs + dissolved metals
** Method 8270E/Selective Ion Monitoring

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

★ #1 vials submitted 2/18/22

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

March 1, 2022

Brani Jurista
Farallon Consulting
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 397-066
Laboratory Reference No. 2202-260

Dear Brani:

Enclosed are the analytical results and associated quality control data for samples submitted on February 18, 2022.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: March 1, 2022
Samples Submitted: February 18, 2022
Laboratory Reference: 2202-260
Project: 397-066

Case Narrative

Samples were collected on February 18, 2022 and received by the laboratory on February 18, 2022. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: March 1, 2022
Samples Submitted: February 18, 2022
Laboratory Reference: 2202-260
Project: 397-066

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**B-37-2-021822**					
Laboratory ID:	02-260-01					
Gasoline	**ND**	100	NWTPH-Gx	2-23-22	2-23-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*88*	*66-117*				
Client ID:	**MW-50-021822**					
Laboratory ID:	02-260-02					
Gasoline	**ND**	100	NWTPH-Gx	2-23-22	2-23-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*88*	*66-117*				

Date of Report: March 1, 2022
Samples Submitted: February 18, 2022
Laboratory Reference: 2202-260
Project: 397-066

GASOLINE RANGE ORGANICS
NWTPH-Gx
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0223W1					
Gasoline	**ND**	100	NWTPH-Gx	2-23-22	2-23-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*91*	*66-117*				

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	02-274-07									
	ORIG	DUP								
Gasoline	**65700**	**66600**	NA	NA		NA	NA	1	30	
Surrogate:										
Fluorobenzene						*89* *91*	*66-117*			

Date of Report: March 1, 2022
Samples Submitted: February 18, 2022
Laboratory Reference: 2202-260
Project: 397-066

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Water
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**B-37-2-021822**					
Laboratory ID:	02-260-01					
Diesel Range Organics	**ND**	0.20	NWTPH-Dx	2-22-22	2-22-22	
Lube Oil Range Organics	**ND**	0.20	NWTPH-Dx	2-22-22	2-22-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*91*	*50-150*				
Client ID:	**MW-50-021822**					
Laboratory ID:	02-260-02					
Diesel Range Organics	**0.75**	0.21	NWTPH-Dx	2-22-22	2-22-22	
Lube Oil Range Organics	**0.31**	0.21	NWTPH-Dx	2-22-22	2-22-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*83*	*50-150*				

Date of Report: March 1, 2022
Samples Submitted: February 18, 2022
Laboratory Reference: 2202-260
Project: 397-066

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx
QUALITY CONTROL

Matrix: Water
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0222W1					
Diesel Range Organics	**ND**	0.16	NWTPH-Dx	2-22-22	2-22-22	
Lube Oil Range Organics	**ND**	0.16	NWTPH-Dx	2-22-22	2-22-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*99*	*50-150*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	02-260-01										
	ORIG	DUP									
Diesel Range	**ND**	**ND**	NA	NA		NA		NA	NA	NA	
Lube Oil Range	**ND**	**ND**	NA	NA		NA		NA	NA	NA	
Surrogate:											
o-Terphenyl						*91*	*90*	*50-150*			

Date of Report: March 1, 2022
Samples Submitted: February 18, 2022
Laboratory Reference: 2202-260
Project: 397-066

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**B-37-2-021822**					
Laboratory ID:	02-260-01					
Benzene	ND	0.20	EPA 8260D	2-22-22	2-22-22	
Toluene	ND	1.0	EPA 8260D	2-22-22	2-22-22	
Ethylbenzene	ND	0.20	EPA 8260D	2-22-22	2-22-22	
m,p-Xylene	ND	0.40	EPA 8260D	2-22-22	2-22-22	
o-Xylene	ND	0.20	EPA 8260D	2-22-22	2-22-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*108*	*75-127*				
Toluene-d8	*102*	*80-127*				
4-Bromofluorobenzene	*104*	*78-125*				
Client ID:	**MW-50-021822**					
Laboratory ID:	02-260-02					
Benzene	ND	0.20	EPA 8260D	2-22-22	2-22-22	
Toluene	ND	1.0	EPA 8260D	2-22-22	2-22-22	
Ethylbenzene	ND	0.20	EPA 8260D	2-22-22	2-22-22	
m,p-Xylene	ND	0.40	EPA 8260D	2-22-22	2-22-22	
o-Xylene	ND	0.20	EPA 8260D	2-22-22	2-22-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*107*	*75-127*				
Toluene-d8	*101*	*80-127*				
4-Bromofluorobenzene	*102*	*78-125*				

Date of Report: March 1, 2022
Samples Submitted: February 18, 2022
Laboratory Reference: 2202-260
Project: 397-066

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0222W1					
Benzene	ND	0.20	EPA 8260D	2-22-22	2-22-22	
Toluene	ND	1.0	EPA 8260D	2-22-22	2-22-22	
Ethylbenzene	ND	0.20	EPA 8260D	2-22-22	2-22-22	
m,p-Xylene	ND	0.40	EPA 8260D	2-22-22	2-22-22	
o-Xylene	ND	0.20	EPA 8260D	2-22-22	2-22-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*105*	*75-127*				
Toluene-d8	*100*	*80-127*				
4-Bromofluorobenzene	*103*	*78-125*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0222W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	**11.7**	**12.2**	10.0	10.0	117	122	78-125	4	19	
Benzene	**11.6**	**11.9**	10.0	10.0	116	119	80-119	3	16	
Trichloroethene	**11.3**	**11.4**	10.0	10.0	113	114	80-121	1	18	
Toluene	**11.0**	**11.2**	10.0	10.0	110	112	80-117	2	18	
Chlorobenzene	**10.2**	**10.5**	10.0	10.0	102	105	80-117	3	17	
Surrogate:										
Dibromofluoromethane					*102*	*103*	*75-127*			
Toluene-d8					*100*	*100*	*80-127*			
4-Bromofluorobenzene					*105*	*105*	*78-125*			

Date of Report: March 1, 2022
Samples Submitted: February 18, 2022
Laboratory Reference: 2202-260
Project: 397-066

PAHs EPA 8270E/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags	MDL
Client ID:	**B-37-2-021822**						
Laboratory ID:	02-260-01						
Naphthalene	**ND**	0.096	EPA 8270E/SIM	2-22-22	2-22-22		0.012
Benzo[a]anthracene	**ND**	0.0096	EPA 8270E/SIM	2-22-22	2-22-22		0.0081
Chrysene	**ND**	0.0096	EPA 8270E/SIM	2-22-22	2-22-22		0.0089
Benzo[b]fluoranthene	**ND**	0.0096	EPA 8270E/SIM	2-22-22	2-22-22		0.0074
Benzo(j,k)fluoranthene	**ND**	0.0096	EPA 8270E/SIM	2-22-22	2-22-22		0.0077
Benzo[a]pyrene	**ND**	0.0096	EPA 8270E/SIM	2-22-22	2-22-22		0.0061
Indeno(1,2,3-c,d)pyrene	**ND**	0.0096	EPA 8270E/SIM	2-22-22	2-22-22		0.0077
Dibenz[a,h]anthracene	**ND**	0.0096	EPA 8270E/SIM	2-22-22	2-22-22		0.0075
Surrogate:	*Percent Recovery*	*Control Limits*					
2-Fluorobiphenyl	*29*	*25 - 106*					
Pyrene-d10	*73*	*28 - 104*					
Terphenyl-d14	*74*	*40 - 139*					
Client ID:	**MW-50-021822**						
Laboratory ID:	02-260-02						
Naphthalene	**30**	1.0	EPA 8270E/SIM	2-22-22	2-23-22		0.13
Benzo[a]anthracene	**0.064**	0.010	EPA 8270E/SIM	2-22-22	2-22-22		0.0084
Chrysene	**0.048**	0.010	EPA 8270E/SIM	2-22-22	2-22-22		0.0093
Benzo[b]fluoranthene	**0.039**	0.010	EPA 8270E/SIM	2-22-22	2-22-22		0.0077
Benzo(j,k)fluoranthene	**0.011**	0.010	EPA 8270E/SIM	2-22-22	2-22-22		0.0080
Benzo[a]pyrene	**0.017**	0.010	EPA 8270E/SIM	2-22-22	2-22-22		0.0064
Indeno(1,2,3-c,d)pyrene	**ND**	0.010	EPA 8270E/SIM	2-22-22	2-22-22		0.0080
Dibenz[a,h]anthracene	**ND**	0.010	EPA 8270E/SIM	2-22-22	2-22-22		0.0078
Surrogate:	*Percent Recovery*	*Control Limits*					
2-Fluorobiphenyl	*57*	*25 - 106*					
Pyrene-d10	*78*	*28 - 104*					
Terphenyl-d14	*87*	*40 - 139*					

Date of Report: March 1, 2022
Samples Submitted: February 18, 2022
Laboratory Reference: 2202-260
Project: 397-066

PAHs EPA 8270E/SIM
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags	MDL
METHOD BLANK							
Laboratory ID:	MB0222W1						
Naphthalene	**ND**	0.10	EPA 8270E/SIM	2-22-22	2-22-22		0.013
Benzo[a]anthracene	**ND**	0.010	EPA 8270E/SIM	2-22-22	2-22-22		0.0084
Chrysene	**ND**	0.010	EPA 8270E/SIM	2-22-22	2-22-22		0.0093
Benzo[b]fluoranthene	**ND**	0.010	EPA 8270E/SIM	2-22-22	2-22-22		0.0078
Benzo(j,k)fluoranthene	**ND**	0.010	EPA 8270E/SIM	2-22-22	2-22-22		0.0081
Benzo[a]pyrene	**ND**	0.010	EPA 8270E/SIM	2-22-22	2-22-22		0.0064
Indeno(1,2,3-c,d)pyrene	**ND**	0.010	EPA 8270E/SIM	2-22-22	2-22-22		0.0080
Dibenz[a,h]anthracene	**ND**	0.010	EPA 8270E/SIM	2-22-22	2-22-22		0.0078
Surrogate:	*Percent Recovery*	*Control Limits*					
2-Fluorobiphenyl	*65*	*25 - 106*					
Pyrene-d10	*84*	*28 - 104*					
Terphenyl-d14	*83*	*40 - 139*					

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0222W1									
	SB	SBD	SB	SBD	SB	SBD				
Naphthalene	**0.324**	**0.275**	0.500	0.500	65	55	29 - 96	16	38	
Acenaphthylene	**0.390**	**0.350**	0.500	0.500	78	70	42 - 101	11	28	
Acenaphthene	**0.393**	**0.326**	0.500	0.500	79	65	37 - 104	19	31	
Fluorene	**0.365**	**0.341**	0.500	0.500	73	68	48 - 101	7	21	
Phenanthrene	**0.399**	**0.391**	0.500	0.500	80	78	52 - 104	2	20	
Anthracene	**0.352**	**0.343**	0.500	0.500	70	69	50 - 106	3	20	
Fluoranthene	**0.436**	**0.410**	0.500	0.500	87	82	56 - 113	6	20	
Pyrene	**0.485**	**0.414**	0.500	0.500	97	83	55 - 123	16	27	
Benzo[a]anthracene	**0.483**	**0.477**	0.500	0.500	97	95	60 - 131	1	20	
Chrysene	**0.464**	**0.447**	0.500	0.500	93	89	62 - 120	4	20	
Benzo[b]fluoranthene	**0.449**	**0.450**	0.500	0.500	90	90	63 - 123	0	20	
Benzo(j,k)fluoranthene	**0.451**	**0.420**	0.500	0.500	90	84	60 - 127	7	20	
Benzo[a]pyrene	**0.435**	**0.425**	0.500	0.500	87	85	61 - 123	2	20	
Indeno(1,2,3-c,d)pyrene	**0.465**	**0.429**	0.500	0.500	93	86	60 - 125	8	20	
Dibenz[a,h]anthracene	**0.441**	**0.427**	0.500	0.500	88	85	61 - 124	3	20	
Benzo[g,h,i]perylene	**0.440**	**0.428**	0.500	0.500	88	86	59 - 122	3	20	
Surrogate:										
2-Fluorobiphenyl					*55*	*61*	*25 - 106*			
Pyrene-d10					*74*	*76*	*28 - 104*			
Terphenyl-d14					*85*	*88*	*40 - 139*			

Date of Report: March 1, 2022
Samples Submitted: February 18, 2022
Laboratory Reference: 2202-260
Project: 397-066

TOTAL METALS
EPA 200.8

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**B-37-2-021822**					
Laboratory ID:	02-260-01					
Arsenic	**3.5**	3.0	EPA 200.8	2-22-22	2-23-22	
Barium	**60**	28	EPA 200.8	2-22-22	2-23-22	
Chromium	**ND**	10	EPA 200.8	2-22-22	2-23-22	
Lead	**ND**	1.1	EPA 200.8	2-22-22	2-23-22	
Client ID:	**MW-50-021822**					
Laboratory ID:	02-260-02					
Arsenic	**16**	3.0	EPA 200.8	2-22-22	2-23-22	
Barium	**120**	28	EPA 200.8	2-22-22	2-23-22	
Chromium	**ND**	10	EPA 200.8	2-22-22	2-23-22	
Lead	**ND**	1.1	EPA 200.8	2-22-22	2-23-22	

Date of Report: March 1, 2022
Samples Submitted: February 18, 2022
Laboratory Reference: 2202-260
Project: 397-066

TOTAL METALS
EPA 200.8
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0222WM2					
Arsenic	**ND**	3.0	EPA 200.8	2-22-22	2-23-22	
Barium	**ND**	28	EPA 200.8	2-22-22	2-23-22	
Chromium	**ND**	10	EPA 200.8	2-22-22	2-23-22	
Lead	**ND**	1.1	EPA 200.8	2-22-22	2-23-22	

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	02-264-04									
	ORIG	DUP								
Arsenic	**22.4**	**22.2**	NA	NA		NA	NA	1	20	
Barium	**59.6**	**60.2**	NA	NA		NA	NA	1	20	
Chromium	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Lead	**ND**	**ND**	NA	NA		NA	NA	NA	20	
MATRIX SPIKES										
Laboratory ID:	02-264-04									
	MS	MSD	MS	MSD		MS	MSD			
Arsenic	**155**	**155**	111	111	22.4	**119**	**119**	75-125	0	20
Barium	**170**	**170**	111	111	59.6	**100**	**100**	75-125	0	20
Chromium	**118**	**119**	111	111	ND	**106**	**107**	75-125	1	20
Lead	**108**	**109**	111	111	ND	**98**	**98**	75-125	0	20

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

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

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1- Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody

Page 1 of 1

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Farallon Consulting
Project Number: 397-066
Project Name: BLOCK 37
Project Manager: Brani Jurista/Chantal Banfield
Sampled by: E. Bogge

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☒ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 02-260 **

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	B-37-2-021822	2/18	0859	W	3
2	MW-50-021822	1	1016	1	1

emb

Lab ID	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☒)	NWTPH-Gx	NWTPH-Dx (Acid / SG Clean-up☐)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	cPAHs + Naphthalene **	As/Ba/Cr/Pb (total + diss)			% Moisture
1		X		X														X	X			
2		X		X														X	X			

	Signature	Company	Date	Time
Relinquished	Eogen Bogge	FLN	2/18/22	1250
Received		COE	2/18/22	1250
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
* special detection limits
* contact PM before running PCB + diss metal analyses (field filtered)
** Method 8270E/selective ion Monitoring

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

March 1, 2022

Brani Jurista
Farallon Consulting
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 397-066
Laboratory Reference No. 2202-264

Dear Brani:

Enclosed are the analytical results and associated quality control data for samples submitted on February 18, 2022.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: March 1, 2022
Samples Submitted: February 18, 2022
Laboratory Reference: 2202-264
Project: 397-066

Case Narrative

Samples were collected on February 17, 2022 and received by the laboratory on February 18, 2022. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: March 1, 2022
Samples Submitted: February 18, 2022
Laboratory Reference: 2202-264
Project: 397-066

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**PH-1-021722**					
Laboratory ID:	02-264-01					
Gasoline	**ND**	100	NWTPH-Gx	2-22-22	2-22-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*90*	*66-117*				
Client ID:	**AMW-1-021722**					
Laboratory ID:	02-264-02					
Gasoline	**120**	100	NWTPH-Gx	2-22-22	2-22-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*92*	*66-117*				
Client ID:	**PH-3-021722**					
Laboratory ID:	02-264-03					
Gasoline	**ND**	100	NWTPH-Gx	2-22-22	2-22-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*90*	*66-117*				
Client ID:	**MWR-3-021722**					
Laboratory ID:	02-264-04					
Gasoline	**ND**	100	NWTPH-Gx	2-22-22	2-22-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*89*	*66-117*				
Client ID:	**B-37-5-021722**					
Laboratory ID:	02-264-05					
Gasoline	**ND**	100	NWTPH-Gx	2-22-22	2-22-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*89*	*66-117*				
Client ID:	**MWR-6-021722**					
Laboratory ID:	02-264-06					
Gasoline	**ND**	100	NWTPH-Gx	2-22-22	2-22-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*89*	*66-117*				
Client ID:	**B-37-7-021722**					
Laboratory ID:	02-264-07					
Gasoline	**ND**	100	NWTPH-Gx	2-22-22	2-22-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*89*	*66-117*				

Date of Report: March 1, 2022
Samples Submitted: February 18, 2022
Laboratory Reference: 2202-264
Project: 397-066

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**B-37-8-021722**					
Laboratory ID:	02-264-08					
Gasoline	**ND**	100	NWTPH-Gx	2-22-22	2-22-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*90*	*66-117*				
Client ID:	**B-37-9-021722**					
Laboratory ID:	02-264-09					
Gasoline	**ND**	100	NWTPH-Gx	2-22-22	2-22-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*90*	*66-117*				

Date of Report: March 1, 2022
Samples Submitted: February 18, 2022
Laboratory Reference: 2202-264
Project: 397-066

GASOLINE RANGE ORGANICS
NWTPH-Gx
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0222W1					
Gasoline	**ND**	100	NWTPH-Gx	2-22-22	2-22-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*90*	*66-117*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	02-232-01										
	ORIG	DUP									
Gasoline	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Surrogate:											
Fluorobenzene						*89*	*89*	*66-117*			

Date of Report: March 1, 2022
Samples Submitted: February 18, 2022
Laboratory Reference: 2202-264
Project: 397-066

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Water
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**PH-1-021722**					
Laboratory ID:	02-264-01					
Diesel Range Organics	**ND**	0.13	NWTPH-Dx	2-23-22	2-23-22	
Lube Oil Range Organics	**0.26**	0.20	NWTPH-Dx	2-23-22	2-23-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*119*	*50-150*				
Client ID:	**AMW-1-021722**					
Laboratory ID:	02-264-02					
Diesel Range Organics	**ND**	0.13	NWTPH-Dx	2-23-22	2-23-22	
Lube Oil Range Organics	**ND**	0.20	NWTPH-Dx	2-23-22	2-23-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*108*	*50-150*				
Client ID:	**PH-3-021722**					
Laboratory ID:	02-264-03					
Diesel Range Organics	**ND**	0.13	NWTPH-Dx	2-23-22	2-23-22	
Lube Oil Range Organics	**ND**	0.20	NWTPH-Dx	2-23-22	2-23-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*124*	*50-150*				
Client ID:	**MWR-3-021722**					
Laboratory ID:	02-264-04					
Diesel Range Organics	**ND**	0.13	NWTPH-Dx	2-23-22	2-23-22	
Lube Oil Range Organics	**ND**	0.20	NWTPH-Dx	2-23-22	2-23-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*104*	*50-150*				
Client ID:	**B-37-5-021722**					
Laboratory ID:	02-264-05					
Diesel Range Organics	**ND**	0.13	NWTPH-Dx	2-23-22	2-23-22	
Lube Oil Range Organics	**ND**	0.20	NWTPH-Dx	2-23-22	2-23-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*95*	*50-150*				
Client ID:	**MWR-6-021722**					
Laboratory ID:	02-264-06					
Diesel Range Organics	**ND**	0.13	NWTPH-Dx	2-23-22	2-23-22	
Lube Oil Range Organics	**0.35**	0.20	NWTPH-Dx	2-23-22	2-23-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*102*	*50-150*				

Date of Report: March 1, 2022
Samples Submitted: February 18, 2022
Laboratory Reference: 2202-264
Project: 397-066

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Water
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**B-37-7-021722**					
Laboratory ID:	02-264-07					
Diesel Range Organics	**ND**	0.13	NWTPH-Dx	2-23-22	2-23-22	
Lube Oil Range Organics	**ND**	0.20	NWTPH-Dx	2-23-22	2-23-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*87*	*50-150*				
Client ID:	**B-37-8-021722**					
Laboratory ID:	02-264-08					
Diesel Range Organics	**ND**	0.13	NWTPH-Dx	2-23-22	2-23-22	
Lube Oil Range Organics	**ND**	0.20	NWTPH-Dx	2-23-22	2-23-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*100*	*50-150*				
Client ID:	**B-37-9-021722**					
Laboratory ID:	02-264-09					
Diesel Range Organics	**ND**	0.13	NWTPH-Dx	2-23-22	2-23-22	
Lube Oil Range Organics	**0.22**	0.20	NWTPH-Dx	2-23-22	2-23-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*100*	*50-150*				

Date of Report: March 1, 2022
Samples Submitted: February 18, 2022
Laboratory Reference: 2202-264
Project: 397-066

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx
QUALITY CONTROL

Matrix: Water
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0223W1					
Diesel Range Organics	**ND**	0.10	NWTPH-Dx	2-23-22	2-23-22	
Lube Oil Range Organics	**ND**	0.16	NWTPH-Dx	2-23-22	2-23-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*108*	*50-150*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	02-231-01										
	ORIG	DUP									
Diesel Range Organics	**0.208**	**0.223**	NA	NA		NA		NA	7	NA	
Lube Oil Range Organics	**0.393**	**0.356**	NA	NA		NA		NA	10	NA	
Surrogate:											
o-Terphenyl						*103*	*117*	*50-150*			

Date of Report: March 1, 2022
Samples Submitted: February 18, 2022
Laboratory Reference: 2202-264
Project: 397-066

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**PH-1-021722**					
Laboratory ID:	02-264-01					
Benzene	ND	0.20	EPA 8260D	2-22-22	2-22-22	
Toluene	ND	1.0	EPA 8260D	2-22-22	2-22-22	
Ethylbenzene	ND	0.20	EPA 8260D	2-22-22	2-22-22	
m,p-Xylene	ND	0.40	EPA 8260D	2-22-22	2-22-22	
o-Xylene	ND	0.20	EPA 8260D	2-22-22	2-22-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*108*	*75-127*				
Toluene-d8	*103*	*80-127*				
4-Bromofluorobenzene	*104*	*78-125*				
Client ID:	**AMW-1-021722**					
Laboratory ID:	02-264-02					
Benzene	2.4	0.80	EPA 8260D	2-22-22	2-22-22	
Toluene	ND	4.0	EPA 8260D	2-22-22	2-22-22	
Ethylbenzene	ND	0.80	EPA 8260D	2-22-22	2-22-22	
m,p-Xylene	ND	1.6	EPA 8260D	2-22-22	2-22-22	
o-Xylene	ND	0.80	EPA 8260D	2-22-22	2-22-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*107*	*75-127*				
Toluene-d8	*103*	*80-127*				
4-Bromofluorobenzene	*105*	*78-125*				
Client ID:	**PH-3-021722**					
Laboratory ID:	02-264-03					
Benzene	ND	0.20	EPA 8260D	2-22-22	2-22-22	
Toluene	ND	1.0	EPA 8260D	2-22-22	2-22-22	
Ethylbenzene	ND	0.20	EPA 8260D	2-22-22	2-22-22	
m,p-Xylene	ND	0.40	EPA 8260D	2-22-22	2-22-22	
o-Xylene	ND	0.20	EPA 8260D	2-22-22	2-22-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*105*	*75-127*				
Toluene-d8	*101*	*80-127*				
4-Bromofluorobenzene	*101*	*78-125*				

Date of Report: March 1, 2022
Samples Submitted: February 18, 2022
Laboratory Reference: 2202-264
Project: 397-066

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MWR-3-021722**					
Laboratory ID:	02-264-04					
Benzene	ND	0.20	EPA 8260D	2-22-22	2-22-22	
Toluene	ND	1.0	EPA 8260D	2-22-22	2-22-22	
Ethylbenzene	ND	0.20	EPA 8260D	2-22-22	2-22-22	
m,p-Xylene	ND	0.40	EPA 8260D	2-22-22	2-22-22	
o-Xylene	ND	0.20	EPA 8260D	2-22-22	2-22-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*109*	*75-127*				
Toluene-d8	*102*	*80-127*				
4-Bromofluorobenzene	*104*	*78-125*				
Client ID:	**B-37-5-021722**					
Laboratory ID:	02-264-05					
Benzene	ND	0.20	EPA 8260D	2-22-22	2-22-22	
Toluene	ND	1.0	EPA 8260D	2-22-22	2-22-22	
Ethylbenzene	ND	0.20	EPA 8260D	2-22-22	2-22-22	
m,p-Xylene	ND	0.40	EPA 8260D	2-22-22	2-22-22	
o-Xylene	ND	0.20	EPA 8260D	2-22-22	2-22-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*107*	*75-127*				
Toluene-d8	*103*	*80-127*				
4-Bromofluorobenzene	*103*	*78-125*				
Client ID:	**MWR-6-021722**					
Laboratory ID:	02-264-06					
Benzene	ND	0.20	EPA 8260D	2-22-22	2-22-22	
Toluene	ND	1.0	EPA 8260D	2-22-22	2-22-22	
Ethylbenzene	ND	0.20	EPA 8260D	2-22-22	2-22-22	
m,p-Xylene	ND	0.40	EPA 8260D	2-22-22	2-22-22	
o-Xylene	ND	0.20	EPA 8260D	2-22-22	2-22-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*107*	*75-127*				
Toluene-d8	*103*	*80-127*				
4-Bromofluorobenzene	*103*	*78-125*				

Date of Report: March 1, 2022
Samples Submitted: February 18, 2022
Laboratory Reference: 2202-264
Project: 397-066

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**B-37-7-021722**					
Laboratory ID:	02-264-07					
Benzene	ND	0.20	EPA 8260D	2-22-22	2-22-22	
Toluene	ND	1.0	EPA 8260D	2-22-22	2-22-22	
Ethylbenzene	ND	0.20	EPA 8260D	2-22-22	2-22-22	
m,p-Xylene	ND	0.40	EPA 8260D	2-22-22	2-22-22	
o-Xylene	ND	0.20	EPA 8260D	2-22-22	2-22-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*109*	*75-127*				
Toluene-d8	*102*	*80-127*				
4-Bromofluorobenzene	*104*	*78-125*				
Client ID:	**B-37-8-021722**					
Laboratory ID:	02-264-08					
Benzene	ND	0.20	EPA 8260D	2-22-22	2-22-22	
Toluene	ND	1.0	EPA 8260D	2-22-22	2-22-22	
Ethylbenzene	ND	0.20	EPA 8260D	2-22-22	2-22-22	
m,p-Xylene	ND	0.40	EPA 8260D	2-22-22	2-22-22	
o-Xylene	ND	0.20	EPA 8260D	2-22-22	2-22-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*107*	*75-127*				
Toluene-d8	*103*	*80-127*				
4-Bromofluorobenzene	*104*	*78-125*				
Client ID:	**B-37-9-021722**					
Laboratory ID:	02-264-09					
Benzene	ND	0.20	EPA 8260D	2-22-22	2-22-22	
Toluene	ND	1.0	EPA 8260D	2-22-22	2-22-22	
Ethylbenzene	ND	0.20	EPA 8260D	2-22-22	2-22-22	
m,p-Xylene	ND	0.40	EPA 8260D	2-22-22	2-22-22	
o-Xylene	ND	0.20	EPA 8260D	2-22-22	2-22-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*106*	*75-127*				
Toluene-d8	*102*	*80-127*				
4-Bromofluorobenzene	*102*	*78-125*				

Date of Report: March 1, 2022
Samples Submitted: February 18, 2022
Laboratory Reference: 2202-264
Project: 397-066

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0222W1					
Benzene	ND	0.20	EPA 8260D	2-22-22	2-22-22	
Toluene	ND	1.0	EPA 8260D	2-22-22	2-22-22	
Ethylbenzene	ND	0.20	EPA 8260D	2-22-22	2-22-22	
m,p-Xylene	ND	0.40	EPA 8260D	2-22-22	2-22-22	
o-Xylene	ND	0.20	EPA 8260D	2-22-22	2-22-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*105*	*75-127*				
Toluene-d8	*100*	*80-127*				
4-Bromofluorobenzene	*103*	*78-125*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0222W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	**11.7**	**12.2**	10.0	10.0	117	122	78-125	4	19	
Benzene	**11.6**	**11.9**	10.0	10.0	116	119	80-119	3	16	
Trichloroethene	**11.3**	**11.4**	10.0	10.0	113	114	80-121	1	18	
Toluene	**11.0**	**11.2**	10.0	10.0	110	112	80-117	2	18	
Chlorobenzene	**10.2**	**10.5**	10.0	10.0	102	105	80-117	3	17	
Surrogate:										
Dibromofluoromethane					*102*	*103*	*75-127*			
Toluene-d8					*100*	*100*	*80-127*			
4-Bromofluorobenzene					*105*	*105*	*78-125*			

Date of Report: March 1, 2022
Samples Submitted: February 18, 2022
Laboratory Reference: 2202-264
Project: 397-066

PAHs EPA 8270E/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags	MDL
Client ID:	**PH-1-021722**						
Laboratory ID:	02-264-01						
Naphthalene	**0.024**	0.10	EPA 8270E/SIM	2-23-22	2-23-22	J	0.013
Benzo[a]anthracene	**ND**	0.010	EPA 8270E/SIM	2-23-22	2-23-22		0.0085
Chrysene	**ND**	0.010	EPA 8270E/SIM	2-23-22	2-23-22		0.0094
Benzo[b]fluoranthene	**ND**	0.010	EPA 8270E/SIM	2-23-22	2-23-22		0.0078
Benzo(j,k)fluoranthene	**ND**	0.010	EPA 8270E/SIM	2-23-22	2-23-22		0.0081
Benzo[a]pyrene	**ND**	0.010	EPA 8270E/SIM	2-23-22	2-23-22		0.0064
Indeno(1,2,3-c,d)pyrene	**ND**	0.010	EPA 8270E/SIM	2-23-22	2-23-22		0.0080
Dibenz[a,h]anthracene	**ND**	0.010	EPA 8270E/SIM	2-23-22	2-23-22		0.0078
Surrogate:	*Percent Recovery*	*Control Limits*					
2-Fluorobiphenyl	*54*	*25 - 106*					
Pyrene-d10	*77*	*28 - 104*					
Terphenyl-d14	*77*	*40 - 139*					

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags	MDL
Client ID:	**AMW-1-021722**						
Laboratory ID:	02-264-02						
Naphthalene	**0.14**	0.096	EPA 8270E/SIM	2-23-22	2-23-22		0.012
Benzo[a]anthracene	**ND**	0.0096	EPA 8270E/SIM	2-23-22	2-23-22		0.0081
Chrysene	**ND**	0.0096	EPA 8270E/SIM	2-23-22	2-23-22		0.0090
Benzo[b]fluoranthene	**ND**	0.0096	EPA 8270E/SIM	2-23-22	2-23-22		0.0075
Benzo(j,k)fluoranthene	**ND**	0.0096	EPA 8270E/SIM	2-23-22	2-23-22		0.0078
Benzo[a]pyrene	**ND**	0.0096	EPA 8270E/SIM	2-23-22	2-23-22		0.0062
Indeno(1,2,3-c,d)pyrene	**ND**	0.0096	EPA 8270E/SIM	2-23-22	2-23-22		0.0077
Dibenz[a,h]anthracene	**ND**	0.0096	EPA 8270E/SIM	2-23-22	2-23-22		0.0075
Surrogate:	*Percent Recovery*	*Control Limits*					
2-Fluorobiphenyl	*57*	*25 - 106*					
Pyrene-d10	*77*	*28 - 104*					
Terphenyl-d14	*80*	*40 - 139*					

Date of Report: March 1, 2022
Samples Submitted: February 18, 2022
Laboratory Reference: 2202-264
Project: 397-066

PAHs EPA 8270E/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags	MDL
Client ID:	**PH-3-021722**						
Laboratory ID:	02-264-03						
Naphthalene	**ND**	0.096	EPA 8270E/SIM	2-23-22	2-23-22		0.012
Benzo[a]anthracene	**ND**	0.0096	EPA 8270E/SIM	2-23-22	2-23-22		0.0081
Chrysene	**ND**	0.0096	EPA 8270E/SIM	2-23-22	2-23-22		0.0090
Benzo[b]fluoranthene	**ND**	0.0096	EPA 8270E/SIM	2-23-22	2-23-22		0.0075
Benzo(j,k)fluoranthene	**ND**	0.0096	EPA 8270E/SIM	2-23-22	2-23-22		0.0078
Benzo[a]pyrene	**ND**	0.0096	EPA 8270E/SIM	2-23-22	2-23-22		0.0062
Indeno(1,2,3-c,d)pyrene	**ND**	0.0096	EPA 8270E/SIM	2-23-22	2-23-22		0.0077
Dibenz[a,h]anthracene	**ND**	0.0096	EPA 8270E/SIM	2-23-22	2-23-22		0.0075
Surrogate:	*Percent Recovery*	*Control Limits*					
2-Fluorobiphenyl	*53*	*25 - 106*					
Pyrene-d10	*73*	*28 - 104*					
Terphenyl-d14	*78*	*40 - 139*					
Client ID:	**MWR-3-021722**						
Laboratory ID:	02-264-04						
Naphthalene	**ND**	0.098	EPA 8270E/SIM	2-23-22	2-23-22		0.013
Benzo[a]anthracene	**ND**	0.0098	EPA 8270E/SIM	2-23-22	2-23-22		0.0083
Chrysene	**ND**	0.0098	EPA 8270E/SIM	2-23-22	2-23-22		0.0091
Benzo[b]fluoranthene	**ND**	0.0098	EPA 8270E/SIM	2-23-22	2-23-22		0.0076
Benzo(j,k)fluoranthene	**ND**	0.0098	EPA 8270E/SIM	2-23-22	2-23-22		0.0079
Benzo[a]pyrene	**ND**	0.0098	EPA 8270E/SIM	2-23-22	2-23-22		0.0062
Indeno(1,2,3-c,d)pyrene	**ND**	0.0098	EPA 8270E/SIM	2-23-22	2-23-22		0.0078
Dibenz[a,h]anthracene	**ND**	0.0098	EPA 8270E/SIM	2-23-22	2-23-22		0.0076
Surrogate:	*Percent Recovery*	*Control Limits*					
2-Fluorobiphenyl	*51*	*25 - 106*					
Pyrene-d10	*75*	*28 - 104*					
Terphenyl-d14	*80*	*40 - 139*					

Date of Report: March 1, 2022
Samples Submitted: February 18, 2022
Laboratory Reference: 2202-264
Project: 397-066

PAHs EPA 8270E/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags	MDL
Client ID:	**B-37-5-021722**						
Laboratory ID:	02-264-05						
Naphthalene	**ND**	0.10	EPA 8270E/SIM	2-23-22	2-23-22		0.013
Benzo[a]anthracene	**ND**	0.010	EPA 8270E/SIM	2-23-22	2-23-22		0.0085
Chrysene	**ND**	0.010	EPA 8270E/SIM	2-23-22	2-23-22		0.0094
Benzo[b]fluoranthene	**ND**	0.010	EPA 8270E/SIM	2-23-22	2-23-22		0.0078
Benzo(j,k)fluoranthene	**ND**	0.010	EPA 8270E/SIM	2-23-22	2-23-22		0.0081
Benzo[a]pyrene	**ND**	0.010	EPA 8270E/SIM	2-23-22	2-23-22		0.0064
Indeno(1,2,3-c,d)pyrene	**ND**	0.010	EPA 8270E/SIM	2-23-22	2-23-22		0.0080
Dibenz[a,h]anthracene	**ND**	0.010	EPA 8270E/SIM	2-23-22	2-23-22		0.0078
Surrogate:	*Percent Recovery*	*Control Limits*					
2-Fluorobiphenyl	*57*	*25 - 106*					
Pyrene-d10	*77*	*28 - 104*					
Terphenyl-d14	*85*	*40 - 139*					
Client ID:	**MWR-6-021722**						
Laboratory ID:	02-264-06						
Naphthalene	**ND**	0.10	EPA 8270E/SIM	2-23-22	2-23-22		0.013
Benzo[a]anthracene	**ND**	0.010	EPA 8270E/SIM	2-23-22	2-23-22		0.0085
Chrysene	**ND**	0.010	EPA 8270E/SIM	2-23-22	2-23-22		0.0094
Benzo[b]fluoranthene	**ND**	0.010	EPA 8270E/SIM	2-23-22	2-23-22		0.0078
Benzo(j,k)fluoranthene	**ND**	0.010	EPA 8270E/SIM	2-23-22	2-23-22		0.0081
Benzo[a]pyrene	**ND**	0.010	EPA 8270E/SIM	2-23-22	2-23-22		0.0064
Indeno(1,2,3-c,d)pyrene	**ND**	0.010	EPA 8270E/SIM	2-23-22	2-23-22		0.0080
Dibenz[a,h]anthracene	**ND**	0.010	EPA 8270E/SIM	2-23-22	2-23-22		0.0078
Surrogate:	*Percent Recovery*	*Control Limits*					
2-Fluorobiphenyl	*42*	*25 - 106*					
Pyrene-d10	*58*	*28 - 104*					
Terphenyl-d14	*58*	*40 - 139*					

Date of Report: March 1, 2022
Samples Submitted: February 18, 2022
Laboratory Reference: 2202-264
Project: 397-066

PAHs EPA 8270E/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags	MDL
Client ID:	**B-37-7-021722**						
Laboratory ID:	02-264-07						
Naphthalene	**ND**	0.10	EPA 8270E/SIM	2-23-22	2-23-22		0.013
Benzo[a]anthracene	**ND**	0.010	EPA 8270E/SIM	2-23-22	2-23-22		0.0085
Chrysene	**ND**	0.010	EPA 8270E/SIM	2-23-22	2-23-22		0.0094
Benzo[b]fluoranthene	**ND**	0.010	EPA 8270E/SIM	2-23-22	2-23-22		0.0078
Benzo(j,k)fluoranthene	**ND**	0.010	EPA 8270E/SIM	2-23-22	2-23-22		0.0081
Benzo[a]pyrene	**ND**	0.010	EPA 8270E/SIM	2-23-22	2-23-22		0.0064
Indeno(1,2,3-c,d)pyrene	**ND**	0.010	EPA 8270E/SIM	2-23-22	2-23-22		0.0081
Dibenz[a,h]anthracene	**ND**	0.010	EPA 8270E/SIM	2-23-22	2-23-22		0.0078
Surrogate:	*Percent Recovery*	*Control Limits*					
2-Fluorobiphenyl	*56*	*25 - 106*					
Pyrene-d10	*78*	*28 - 104*					
Terphenyl-d14	*86*	*40 - 139*					
Client ID:	**B-37-8-021722**						
Laboratory ID:	02-264-08						
Naphthalene	**ND**	0.099	EPA 8270E/SIM	2-23-22	2-23-22		0.013
Benzo[a]anthracene	**ND**	0.0099	EPA 8270E/SIM	2-23-22	2-23-22		0.0084
Chrysene	**ND**	0.0099	EPA 8270E/SIM	2-23-22	2-23-22		0.0093
Benzo[b]fluoranthene	**ND**	0.0099	EPA 8270E/SIM	2-23-22	2-23-22		0.0077
Benzo(j,k)fluoranthene	**ND**	0.0099	EPA 8270E/SIM	2-23-22	2-23-22		0.0080
Benzo[a]pyrene	**ND**	0.0099	EPA 8270E/SIM	2-23-22	2-23-22		0.0063
Indeno(1,2,3-c,d)pyrene	**ND**	0.0099	EPA 8270E/SIM	2-23-22	2-23-22		0.0079
Dibenz[a,h]anthracene	**ND**	0.0099	EPA 8270E/SIM	2-23-22	2-23-22		0.0077
Surrogate:	*Percent Recovery*	*Control Limits*					
2-Fluorobiphenyl	*58*	*25 - 106*					
Pyrene-d10	*82*	*28 - 104*					
Terphenyl-d14	*82*	*40 - 139*					

Date of Report: March 1, 2022
Samples Submitted: February 18, 2022
Laboratory Reference: 2202-264
Project: 397-066

PAHs EPA 8270E/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags	MDL
Client ID:	**B-37-9-021722**						
Laboratory ID:	02-264-09						
Naphthalene	**0.034**	0.10	EPA 8270E/SIM	2-23-22	2-23-22	J	0.013
Benzo[a]anthracene	**ND**	0.010	EPA 8270E/SIM	2-23-22	2-23-22		0.0085
Chrysene	**ND**	0.010	EPA 8270E/SIM	2-23-22	2-23-22		0.0094
Benzo[b]fluoranthene	**ND**	0.010	EPA 8270E/SIM	2-23-22	2-23-22		0.0079
Benzo(j,k)fluoranthene	**ND**	0.010	EPA 8270E/SIM	2-23-22	2-23-22		0.0082
Benzo[a]pyrene	**ND**	0.010	EPA 8270E/SIM	2-23-22	2-23-22		0.0065
Indeno(1,2,3-c,d)pyrene	**ND**	0.010	EPA 8270E/SIM	2-23-22	2-23-22		0.0081
Dibenz[a,h]anthracene	**ND**	0.010	EPA 8270E/SIM	2-23-22	2-23-22		0.0079
Surrogate:	*Percent Recovery*	*Control Limits*					
2-Fluorobiphenyl	*51*	*25 - 106*					
Pyrene-d10	*77*	*28 - 104*					
Terphenyl-d14	*81*	*40 - 139*					

Date of Report: March 1, 2022
Samples Submitted: February 18, 2022
Laboratory Reference: 2202-264
Project: 397-066

PAHs EPA 8270E/SIM
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags	MDL
METHOD BLANK							
Laboratory ID:	MB0223W1						
Naphthalene	**ND**	0.10	EPA 8270E/SIM	2-23-22	2-23-22		0.013
Benzo[a]anthracene	**ND**	0.010	EPA 8270E/SIM	2-23-22	2-23-22		0.0084
Chrysene	**ND**	0.010	EPA 8270E/SIM	2-23-22	2-23-22		0.0093
Benzo[b]fluoranthene	**ND**	0.010	EPA 8270E/SIM	2-23-22	2-23-22		0.0078
Benzo(j,k)fluoranthene	**ND**	0.010	EPA 8270E/SIM	2-23-22	2-23-22		0.0081
Benzo[a]pyrene	**ND**	0.010	EPA 8270E/SIM	2-23-22	2-23-22		0.0064
Indeno(1,2,3-c,d)pyrene	**ND**	0.010	EPA 8270E/SIM	2-23-22	2-23-22		0.0080
Dibenz[a,h]anthracene	**ND**	0.010	EPA 8270E/SIM	2-23-22	2-23-22		0.0078
Surrogate:	*Percent Recovery*	*Control Limits*					
2-Fluorobiphenyl	*46*	*25 - 106*					
Pyrene-d10	*74*	*28 - 104*					
Terphenyl-d14	*76*	*40 - 139*					

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0223W1									
	SB	SBD	SB	SBD	SB	SBD				
Naphthalene	**0.304**	**0.277**	0.500	0.500	61	55	29 - 96	9	38	
Acenaphthylene	**0.375**	**0.355**	0.500	0.500	75	71	42 - 101	5	28	
Acenaphthene	**0.356**	**0.337**	0.500	0.500	71	67	37 - 104	5	31	
Fluorene	**0.351**	**0.337**	0.500	0.500	70	67	48 - 101	4	21	
Phenanthrene	**0.382**	**0.363**	0.500	0.500	76	73	52 - 104	5	20	
Anthracene	**0.348**	**0.335**	0.500	0.500	70	67	50 - 106	4	20	
Fluoranthene	**0.421**	**0.399**	0.500	0.500	84	80	56 - 113	5	20	
Pyrene	**0.425**	**0.424**	0.500	0.500	85	85	55 - 123	0	27	
Benzo[a]anthracene	**0.497**	**0.456**	0.500	0.500	99	91	60 - 131	9	20	
Chrysene	**0.463**	**0.455**	0.500	0.500	93	91	62 - 120	2	20	
Benzo[b]fluoranthene	**0.444**	**0.414**	0.500	0.500	89	83	63 - 123	7	20	
Benzo(j,k)fluoranthene	**0.432**	**0.427**	0.500	0.500	86	85	60 - 127	1	20	
Benzo[a]pyrene	**0.430**	**0.403**	0.500	0.500	86	81	61 - 123	6	20	
Indeno(1,2,3-c,d)pyrene	**0.419**	**0.396**	0.500	0.500	84	79	60 - 125	6	20	
Dibenz[a,h]anthracene	**0.415**	**0.403**	0.500	0.500	83	81	61 - 124	3	20	
Benzo[g,h,i]perylene	**0.429**	**0.408**	0.500	0.500	86	82	59 - 122	5	20	
Surrogate:										
2-Fluorobiphenyl					*55*	*49*	*25 - 106*			
Pyrene-d10					*81*	*74*	*28 - 104*			
Terphenyl-d14					*81*	*76*	*40 - 139*			

Date of Report: March 1, 2022
Samples Submitted: February 18, 2022
Laboratory Reference: 2202-264
Project: 397-066

TOTAL METALS
EPA 200.8

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**PH-1-021722**					
Laboratory ID:	02-264-01					
Arsenic	**6.8**	3.0	EPA 200.8	2-22-22	2-23-22	
Barium	**180**	28	EPA 200.8	2-22-22	2-23-22	
Chromium	**ND**	10	EPA 200.8	2-22-22	2-23-22	
Lead	**ND**	1.1	EPA 200.8	2-22-22	2-23-22	
Client ID:	**AMW-1-021722**					
Laboratory ID:	02-264-02					
Arsenic	**5.3**	3.0	EPA 200.8	2-22-22	2-23-22	
Barium	**120**	28	EPA 200.8	2-22-22	2-23-22	
Chromium	**ND**	10	EPA 200.8	2-22-22	2-23-22	
Lead	**ND**	1.1	EPA 200.8	2-22-22	2-23-22	
Client ID:	**PH-3-021722**					
Laboratory ID:	02-264-03					
Arsenic	**ND**	3.0	EPA 200.8	2-22-22	2-23-22	
Barium	**130**	28	EPA 200.8	2-22-22	2-23-22	
Chromium	**ND**	10	EPA 200.8	2-22-22	2-23-22	
Lead	**ND**	1.1	EPA 200.8	2-22-22	2-23-22	
Client ID:	**MWR-3-021722**					
Laboratory ID:	02-264-04					
Arsenic	**22**	3.0	EPA 200.8	2-22-22	2-23-22	
Barium	**60**	28	EPA 200.8	2-22-22	2-23-22	
Chromium	**ND**	10	EPA 200.8	2-22-22	2-23-22	
Lead	**ND**	1.1	EPA 200.8	2-22-22	2-23-22	
Client ID:	**B-37-5-021722**					
Laboratory ID:	02-264-05					
Arsenic	**10**	3.0	EPA 200.8	2-22-22	2-23-22	
Barium	**72**	28	EPA 200.8	2-22-22	2-23-22	
Chromium	**ND**	10	EPA 200.8	2-22-22	2-23-22	
Lead	**ND**	1.1	EPA 200.8	2-22-22	2-23-22	

Date of Report: March 1, 2022
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Laboratory Reference: 2202-264
Project: 397-066

TOTAL METALS
EPA 200.8

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MWR-6-021722**					
Laboratory ID:	02-264-06					
Arsenic	**ND**	3.0	EPA 200.8	2-22-22	2-23-22	
Barium	**150**	28	EPA 200.8	2-22-22	2-23-22	
Chromium	**ND**	10	EPA 200.8	2-22-22	2-23-22	
Lead	**ND**	1.1	EPA 200.8	2-22-22	2-23-22	
Client ID:	**B-37-7-021722**					
Laboratory ID:	02-264-07					
Arsenic	**ND**	3.0	EPA 200.8	2-22-22	2-23-22	
Barium	**160**	28	EPA 200.8	2-22-22	2-23-22	
Chromium	**ND**	10	EPA 200.8	2-22-22	2-23-22	
Lead	**ND**	1.1	EPA 200.8	2-22-22	2-23-22	
Client ID:	**B-37-8-021722**					
Laboratory ID:	02-264-08					
Arsenic	**9.1**	3.0	EPA 200.8	2-22-22	2-23-22	
Barium	**150**	28	EPA 200.8	2-22-22	2-23-22	
Chromium	**19**	10	EPA 200.8	2-22-22	2-23-22	
Lead	**6.6**	1.1	EPA 200.8	2-22-22	2-23-22	
Client ID:	**B-37-9-021722**					
Laboratory ID:	02-264-09					
Arsenic	**16**	3.0	EPA 200.8	2-22-22	2-23-22	
Barium	**150**	28	EPA 200.8	2-22-22	2-23-22	
Chromium	**ND**	10	EPA 200.8	2-22-22	2-23-22	
Lead	**ND**	1.1	EPA 200.8	2-22-22	2-23-22	

Date of Report: March 1, 2022
Samples Submitted: February 18, 2022
Laboratory Reference: 2202-264
Project: 397-066

TOTAL METALS
EPA 200.8
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0222WM2					
Arsenic	**ND**	3.0	EPA 200.8	2-22-22	2-23-22	
Barium	**ND**	28	EPA 200.8	2-22-22	2-23-22	
Chromium	**ND**	10	EPA 200.8	2-22-22	2-23-22	
Lead	**ND**	1.1	EPA 200.8	2-22-22	2-23-22	

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	02-264-04									
	ORIG	DUP								
Arsenic	**22.4**	**22.2**	NA	NA		NA	NA	1	20	
Barium	**59.6**	**60.2**	NA	NA		NA	NA	1	20	
Chromium	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Lead	**ND**	**ND**	NA	NA		NA	NA	NA	20	

MATRIX SPIKES										
Laboratory ID:	02-264-04									
	MS	MSD	MS	MSD		MS	MSD			
Arsenic	**155**	**155**	111	111	22.4	**119**	**119**	75-125	0	20
Barium	**170**	**170**	111	111	59.6	**100**	**100**	75-125	0	20
Chromium	**118**	**119**	111	111	ND	**106**	**107**	75-125	1	20
Lead	**108**	**109**	111	111	ND	**98**	**98**	75-125	0	20

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

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

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1- Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Farallon Consulting
Project Number: 397-0060
Project Name: Block 37
Project Manager: Brani Junista/Chantal Bartfield
Sampled by: E. Bugge

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☒ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 02-264 **

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☒)	NWTPH-Gx	NWTPH-Dx (Acid / SG Clean-up☐)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	cPAHs + naphthalene	As/Ba/Cr/Pb (total + diss.)		% Moisture
1	PH-1-021722	2/17/22	0815	W	13		X		X														X	X		
2	AMW-1-021722		0940				X		X														X	X		
3	PH-3-021722		1222				X		X														X	X		
4	MWR-3-021722		1343				X		X														X	X		
5	B-37-5-021722		1058				X		X														X	X		
6	MWR-6-021722		1350				X		X														X	X		
7	B-37-7-021722		0925				X		X														X	X		
8	B-37-8-021722		1045				X		X														X	X		
9	B-37-9-021722		1240				X		X														X	X		
	emb																									

	Signature	Company	Date	Time
Relinquished	Eliza Reyes	FLN	2/17/22	1545
Received	Vanessa	Sofia	2/18/22	1200
Relinquished	Vanessa	JR	2/18/22	1322
Received		OBC	2/18/22	1322
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
* Special detection limits
* contact PM before running PCB + dissolved metals 2/18/22 JR
** Method 8270E/Selective Ion Monitoring Updated #of containers

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Atlas Technical Consultants
Elisabeth Silver
6347 Seaview Ave NW
Seattle, WA 98107

RE: P66 Westlake Ave 1346
Work Order Number: 2202403

February 25, 2022

Attention Elisabeth Silver:

Fremont Analytical, Inc. received 10 sample(s) on 2/17/2022 for the analyses presented in the following report.

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

Date: *02/25/2022*

CLIENT: Atlas Technical Consultants
Project: P66 Westlake Ave 1346
Work Order: 2202403

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2202403-001	MW-209	02/17/2022 4:10 PM	02/17/2022 5:07 PM
2202403-002	MW-210	02/17/2022 3:25 PM	02/17/2022 5:07 PM
2202403-003	MW-211	02/16/2022 3:25 PM	02/17/2022 5:07 PM
2202403-004	MW-212	02/17/2022 9:55 AM	02/17/2022 5:07 PM
2202403-005	MW-213	02/17/2022 11:20 AM	02/17/2022 5:07 PM
2202403-006	MW-214	02/17/2022 12:20 PM	02/17/2022 5:07 PM
2202403-007	MW-215	02/17/2022 2:15 PM	02/17/2022 5:07 PM
2202403-008	MW-216	02/16/2022 11:05 AM	02/17/2022 5:07 PM
2202403-009	MW-217	02/16/2022 12:20 PM	02/17/2022 5:07 PM
2202403-010	MW-218	02/16/2022 1:15 PM	02/17/2022 5:07 PM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

Case Narrative

WO#: **2202403**
Date: **2/25/2022**

CLIENT: Atlas Technical Consultants
Project: P66 Westlake Ave 1346

I. SAMPLE RECEIPT:
Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:
Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:
Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Samples MW-213, MW-217 and MW-218 exhibited chromatographic patterns consistent with kerosene. The remaining samples exhibited an unresolved complex mixture, quantified as diesel but not consistent with an unweathered diesel pattern.

Qualifiers:

* - Flagged value is not within established control limits
B - Analyte detected in the associated Method Blank
D - Dilution was required
E - Value above quantitation range
H - Holding times for preparation or analysis exceeded
I - Analyte with an internal standard that does not meet established acceptance criteria
J - Analyte detected below Reporting Limit
N - Tentatively Identified Compound (TIC)
Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
S - Spike recovery outside accepted recovery limits
ND - Not detected at the Reporting Limit
R - High relative percent difference observed

Acronyms:

%Rec - Percent Recovery
CCB - Continued Calibration Blank
CCV - Continued Calibration Verification
DF - Dilution Factor
DUP - Sample Duplicate
HEM - Hexane Extractable Material
ICV - Initial Calibration Verification
LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
MCL - Maximum Contaminant Level
MB or MBLANK - Method Blank
MDL - Method Detection Limit
MS/MSD - Matrix Spike / Matrix Spike Duplicate
PDS - Post Digestion Spike
Ref Val - Reference Value
REP - Sample Replicate
RL - Reporting Limit
RPD - Relative Percent Difference
SD - Serial Dilution
SGT - Silica Gel Treatment
SPK - Spike
Surr - Surrogate

CLIENT: Atlas Technical Consultants
Project: P66 Westlake Ave 1346

Lab ID: 2202403-001 **Collection Date:** 2/17/2022 4:10:00 PM
Client Sample ID: **MW-209** **Matrix:** Groundwater

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.				Batch ID: 35477		Analyst: MM
Diesel 1/ Kerosene	ND	119		µg/L	1	2/23/2022 4:22:29 PM
Diesel (Fuel Oil)	156	119		µg/L	1	2/23/2022 4:22:29 PM
Heavy Oil	ND	119		µg/L	1	2/23/2022 4:22:29 PM
Total Petroleum Hydrocarbons	ND	239		µg/L	1	2/23/2022 4:22:29 PM
Surr: 2-Fluorobiphenyl	89.8	50 - 150		%Rec	1	2/23/2022 4:22:29 PM
Surr: o-Terphenyl	92.7	50 - 150		%Rec	1	2/23/2022 4:22:29 PM

Lab ID: 2202403-002 **Collection Date:** 2/17/2022 3:25:00 PM
Client Sample ID: **MW-210** **Matrix:** Groundwater

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.				Batch ID: 35477		Analyst: MM
Diesel 1/ Kerosene	ND	118		µg/L	1	2/23/2022 4:33:44 PM
Diesel (Fuel Oil)	273	118		µg/L	1	2/23/2022 4:33:44 PM
Heavy Oil	ND	118		µg/L	1	2/23/2022 4:33:44 PM
Total Petroleum Hydrocarbons	273	237		µg/L	1	2/23/2022 4:33:44 PM
Surr: 2-Fluorobiphenyl	89.8	50 - 150		%Rec	1	2/23/2022 4:33:44 PM
Surr: o-Terphenyl	94.3	50 - 150		%Rec	1	2/23/2022 4:33:44 PM

Lab ID: 2202403-003 **Collection Date:** 2/16/2022 3:25:00 PM
Client Sample ID: **MW-211** **Matrix:** Groundwater

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.				Batch ID: 35477		Analyst: MM
Diesel 1/ Kerosene	ND	119		µg/L	1	2/23/2022 4:44:55 PM
Diesel (Fuel Oil)	169	119		µg/L	1	2/23/2022 4:44:55 PM
Heavy Oil	ND	119		µg/L	1	2/23/2022 4:44:55 PM
Total Petroleum Hydrocarbons	ND	239		µg/L	1	2/23/2022 4:44:55 PM
Surr: 2-Fluorobiphenyl	83.5	50 - 150		%Rec	1	2/23/2022 4:44:55 PM
Surr: o-Terphenyl	90.5	50 - 150		%Rec	1	2/23/2022 4:44:55 PM

CLIENT: Atlas Technical Consultants
Project: P66 Westlake Ave 1346

Lab ID: 2202403-004 **Collection Date:** 2/17/2022 9:55:00 AM
Client Sample ID: **MW-212** **Matrix:** Groundwater

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.				Batch ID: 35477		Analyst: MM
Diesel 1/ Kerosene	ND	119		µg/L	1	2/23/2022 4:56:06 PM
Diesel (Fuel Oil)	ND	119		µg/L	1	2/23/2022 4:56:06 PM
Diesel Range Organics (C12-C24)	372	119		µg/L	1	2/23/2022 4:56:06 PM
Heavy Oil	ND	119		µg/L	1	2/23/2022 4:56:06 PM
Total Petroleum Hydrocarbons	372	238		µg/L	1	2/23/2022 4:56:06 PM
Surr: 2-Fluorobiphenyl	85.6	50 - 150		%Rec	1	2/23/2022 4:56:06 PM
Surr: o-Terphenyl	90.6	50 - 150		%Rec	1	2/23/2022 4:56:06 PM

NOTES:
Diesel Range Organics - Chromatographic pattern indicates that detection is largely due to a single non-target compound.

Lab ID: 2202403-005 **Collection Date:** 2/17/2022 11:20:00 AM
Client Sample ID: **MW-213** **Matrix:** Groundwater

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.				Batch ID: 35477		Analyst: MM
Diesel 1/ Kerosene	473	116		µg/L	1	2/23/2022 5:07:10 PM
Diesel (Fuel Oil)	ND	116		µg/L	1	2/23/2022 5:07:10 PM
Heavy Oil	ND	116		µg/L	1	2/23/2022 5:07:10 PM
Total Petroleum Hydrocarbons	473	232		µg/L	1	2/23/2022 5:07:10 PM
Surr: 2-Fluorobiphenyl	93.6	50 - 150		%Rec	1	2/23/2022 5:07:10 PM
Surr: o-Terphenyl	95.4	50 - 150		%Rec	1	2/23/2022 5:07:10 PM

CLIENT: Atlas Technical Consultants
Project: P66 Westlake Ave 1346

Lab ID: 2202403-006 **Collection Date:** 2/17/2022 12:20:00 PM
Client Sample ID: **MW-214** **Matrix:** Groundwater

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.				Batch ID: 35477		Analyst: MM
Diesel 1/ Kerosene	ND	116		µg/L	1	2/23/2022 5:18:16 PM
Diesel (Fuel Oil)	ND	116		µg/L	1	2/23/2022 5:18:16 PM
Heavy Oil	ND	116		µg/L	1	2/23/2022 5:18:16 PM
Total Petroleum Hydrocarbons	ND	232		µg/L	1	2/23/2022 5:18:16 PM
Surr: 2-Fluorobiphenyl	93.5	50 - 150		%Rec	1	2/23/2022 5:18:16 PM
Surr: o-Terphenyl	96.2	50 - 150		%Rec	1	2/23/2022 5:18:16 PM

Lab ID: 2202403-007 **Collection Date:** 2/17/2022 2:15:00 PM
Client Sample ID: **MW-215** **Matrix:** Groundwater

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.				Batch ID: 35477		Analyst: MM
Diesel 1/ Kerosene	ND	119		µg/L	1	2/23/2022 5:29:27 PM
Diesel (Fuel Oil)	ND	119		µg/L	1	2/23/2022 5:29:27 PM
Heavy Oil	ND	119		µg/L	1	2/23/2022 5:29:27 PM
Total Petroleum Hydrocarbons	ND	239		µg/L	1	2/23/2022 5:29:27 PM
Surr: 2-Fluorobiphenyl	86.2	50 - 150		%Rec	1	2/23/2022 5:29:27 PM
Surr: o-Terphenyl	88.6	50 - 150		%Rec	1	2/23/2022 5:29:27 PM

Lab ID: 2202403-008 **Collection Date:** 2/16/2022 11:05:00 AM
Client Sample ID: **MW-216** **Matrix:** Groundwater

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.				Batch ID: 35477		Analyst: MM
Diesel 1/ Kerosene	ND	117		µg/L	1	2/23/2022 5:40:41 PM
Diesel (Fuel Oil)	329	117		µg/L	1	2/23/2022 5:40:41 PM
Heavy Oil	ND	117		µg/L	1	2/23/2022 5:40:41 PM
Total Petroleum Hydrocarbons	329	234		µg/L	1	2/23/2022 5:40:41 PM
Surr: 2-Fluorobiphenyl	89.2	50 - 150		%Rec	1	2/23/2022 5:40:41 PM
Surr: o-Terphenyl	81.0	50 - 150		%Rec	1	2/23/2022 5:40:41 PM

CLIENT: Atlas Technical Consultants
Project: P66 Westlake Ave 1346

Lab ID: 2202403-009 **Collection Date:** 2/16/2022 12:20:00 PM
Client Sample ID: **MW-217** **Matrix:** Groundwater

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.				Batch ID: 35477		Analyst: MM
Diesel 1/ Kerosene	1,400	116		µg/L	1	2/23/2022 5:51:53 PM
Diesel (Fuel Oil)	ND	116		µg/L	1	2/23/2022 5:51:53 PM
Heavy Oil	ND	116		µg/L	1	2/23/2022 5:51:53 PM
Total Petroleum Hydrocarbons	1,400	233		µg/L	1	2/23/2022 5:51:53 PM
Surr: 2-Fluorobiphenyl	118	50 - 150		%Rec	1	2/23/2022 5:51:53 PM
Surr: o-Terphenyl	98.4	50 - 150		%Rec	1	2/23/2022 5:51:53 PM

Lab ID: 2202403-010 **Collection Date:** 2/16/2022 1:15:00 PM
Client Sample ID: **MW-218** **Matrix:** Groundwater

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.				Batch ID: 35477		Analyst: MM
Diesel 1/ Kerosene	1,150	119		µg/L	1	2/23/2022 6:03:05 PM
Diesel (Fuel Oil)	ND	119		µg/L	1	2/23/2022 6:03:05 PM
Heavy Oil	ND	119		µg/L	1	2/23/2022 6:03:05 PM
Total Petroleum Hydrocarbons	1,150	238		µg/L	1	2/23/2022 6:03:05 PM
Surr: 2-Fluorobiphenyl	103	50 - 150		%Rec	1	2/23/2022 6:03:05 PM
Surr: o-Terphenyl	103	50 - 150		%Rec	1	2/23/2022 6:03:05 PM

Work Order: 2202403
CLIENT: Atlas Technical Consultants
Project: P66 Westlake Ave 1346

QC SUMMARY REPORT

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Sample ID: **MB-35477**	SampType: **MBLK**			Units: **µg/L**		Prep Date: **2/22/2022**		RunNo: **73557**		
Client ID: **MBLKW**	Batch ID: **35477**					Analysis Date: **2/23/2022**		SeqNo: **1503359**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel (Fuel Oil)	ND	100									
Heavy Oil	ND	100									
Total Petroleum Hydrocarbons	ND	200									
Surr: 2-Fluorobiphenyl	17.4		20.00		87.2	50	150				
Surr: o-Terphenyl	18.1		20.00		90.3	50	150				

Sample ID: **LCS-35477**	SampType: **LCS**			Units: **µg/L**		Prep Date: **2/22/2022**		RunNo: **73557**		
Client ID: **LCSW**	Batch ID: **35477**					Analysis Date: **2/23/2022**		SeqNo: **1503360**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Petroleum Hydrocarbons	736	200	1,000	0	73.6	59.5	120				
Surr: 2-Fluorobiphenyl	16.5		20.00		82.7	50	150				
Surr: o-Terphenyl	19.9		20.00		99.7	50	150				

Sample ID: **LCSD-35477**	SampType: **LCSD**			Units: **µg/L**		Prep Date: **2/22/2022**		RunNo: **73557**		
Client ID: **LCSW02**	Batch ID: **35477**					Analysis Date: **2/23/2022**		SeqNo: **1503361**		
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Petroleum Hydrocarbons	709	200	1,000	0	70.9	59.5	120	735.8	3.70	30	
Surr: 2-Fluorobiphenyl	17.8		20.00		89.2	50	150		0		
Surr: o-Terphenyl	19.1		20.00		95.7	50	150		0		

Sample Log-In Check List

Client Name:	**ATLAS**	Work Order Number:	**2202403**
Logged by:	**Gabrielle Coeuille**	Date Received:	**2/17/2022 5:07:00 PM**

Chain of Custody

1.	Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2.	How was the sample delivered?	FedEx		

Log In

3.	Coolers are present?	Yes ☑	No ☐	NA ☐
4.	Shipping container/cooler in good condition?	Yes ☑	No ☐	
5.	Custody Seals present on shipping container/cooler? (Refer to comments for Custody Seals not intact)	Yes ☐	No ☐	Not Present ☑
6.	Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
7.	Were all items received at a temperature of >2°C to 6°C *	Yes ☐	No ☑	NA ☐
		Approved by client.		
8.	Sample(s) in proper container(s)?	Yes ☑	No ☐	
9.	Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
10.	Are samples properly preserved?	Yes ☑	No ☐	
11.	Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
12.	Is there headspace in the VOA vials?	Yes ☐	No ☐	NA ☑
13.	Did all samples containers arrive in good condition(unbroken)?	Yes ☑	No ☐	
14.	Does paperwork match bottle labels?	Yes ☑	No ☐	
15.	Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
16.	Is it clear what analyses were requested?	Yes ☑	No ☐	
17.	Were all holding times able to be met?	Yes ☑	No ☐	

Special Handling (if applicable)

18.	Was client notified of all discrepancies with this order?	Yes ☑	No ☐	NA ☐

Person Notified:	Elisabeth Silver	Date:	2/17/2022
By Whom:	Gabrielle Coeuille	Via:	☑ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:	Proceed with samples out of temp?		
Client Instructions:			

19. Additional remarks:

Item Information

Item #	Temp ºC
Sample 1	7.3

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

Fremont Analytical
3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Chain of Custody Record & Laboratory Services Agreement

Date: 2/17/22 Page: 1 of: 1
Laboratory Project No (internal): 2202403
Project Name: PGG Westlake Ave 1396
Special Remarks:
Project No: Z0760000 82
Client: Atlas
Collected by: BG / GM
Address: 6347 Seaview Ave NW
Location: 600 Westlake Ave N
City, State, Zip: Seattle, WA
Report To (PM): Elisabeth Silver
Telephone: 206-781-1999
Sample Disposal: ☐ Return to client ☒ Disposal by lab (after 30 days)
Fax:
PM Email: elisabeth.silver@oneatlas.com

	Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	VOCs (EPA 8260 / 624)	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) | Dissolved (D)	Anions (IC)***	EDB (8011)	Kerosene				Comments
1	MW-209	2/17/22	16:10	GW	2				X								X					
2	MW-210	2/17/22	15:25	GW	2				X								X					
3	MW-211	2/16/22	15:25	GW	2				X								X					@ 15:25
4	MW-212	2/17/22	9:55	GW	2				X								X					
5	MW-213	2/17/22	11:20	GW	2				X								X					
6	MW-214	2/17/22	12:20	GW	2				X								X					
7	MW-215	2/17/22	14:15	GW	2				X								X					
8	MW-216	2/16/22	11:05	GW	2				X								X					
9	MW-217	2/16/22	12:20	GW	2				X								V					
10	MW-218	2/16/22	13:15	GW	2				V								X					

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

**Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL *Individual:* Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Ti Tl V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

Turn-around Time:
☒ Standard ☐ Next Day
☐ 3 Day ☐ Same Day
☐ 2 Day ☐ _____ (specify)

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished (Signature)	Print Name	Date/Time	Received (Signature)	Print Name	Date/Time
x B Gouket	B. Gouket	02-17-2022/17:04	x Elisabeth Savoray	Elisabeth Savoray	2/17/22 17:07
Relinquished (Signature)	Print Name	Date/Time	Received (Signature)	Print Name	Date/Time
x			x		

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

March 04, 2022

Elisabeth Silver
Atlas
6347 Seaview Ave NW
Seattle, WA 98107

RE: Project: Z076000082 P66 Westlake-Revised Report
Pace Project No.: 10598112

Dear Elisabeth Silver:

Enclosed are the analytical results for sample(s) received by the laboratory on February 19, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis

This report was revised on March 4, 2022, to report Benzofluoranthenes (Total) by method 8270E MSSV CPAH SIM on Pace samples 10598112001 through -010.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jennifer Gross
jennifer.gross@pacelabs.com
(612)607-1700
Project Manager

Enclosures

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: Z076000082 P66 Westlake-Revised Report
Pace Project No.: 10598112

Pace Analytical Services, LLC - Minneapolis MN

1700 Elm Street SE, Minneapolis, MN 55414
1800 Elm Street SE, Minneapolis, MN 55414--Satellite Air Lab
A2LA Certification #: 2926.01*
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009*
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014*
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8 Tribal Water Systems+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605*
Georgia Certification #: 959
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: AI-03086*
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064*
Maryland Certification #: 322
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137*
Minnesota Dept of Ag Approval: via MN 027-053-137
Minnesota Petrofund Registration #: 1240*
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081*
New Jersey Certification #: MN002
New York Certification #: 11647*
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification (1700) #: CL101
Ohio VAP Certification (1800) #: CL110*
Oklahoma Certification #: 9507*
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001*
Pennsylvania Certification #: 68-00563*
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192*
Utah Certification #: MN00064*
Vermont Certification #: VT-027053137
Virginia Certification #: 460163*
Washington Certification #: C486*
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01
USDA Permit #: P330-19-00208
*Please Note: Applicable air certifications are denoted with an asterisk (*).

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: Z076000082 P66 Westlake-Revised Report
Pace Project No.: 10598112

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10598112001	**MW-209**	Water	02/17/22 16:10	02/19/22 11:05
10598112002	**MW-210**	Water	02/17/22 15:25	02/19/22 11:05
10598112003	**MW-211**	Water	02/16/22 15:25	02/19/22 11:05
10598112004	**MW-212**	Water	02/17/22 09:55	02/19/22 11:05
10598112005	**MW-213**	Water	02/17/22 11:20	02/19/22 11:05
10598112006	**MW-214**	Water	02/17/22 12:20	02/19/22 11:05
10598112007	**MW-215**	Water	02/17/22 14:15	02/19/22 11:05
10598112008	**MW-216**	Water	02/16/22 11:05	02/19/22 11:05
10598112009	**MW-217**	Water	02/16/22 12:20	02/19/22 11:05
10598112010	**MW-218**	Water	02/16/22 13:15	02/19/22 11:05
10598112011	**Trip Blank**	Water	02/16/22 00:00	02/19/22 11:05

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

SAMPLE ANALYTE COUNT

Project: Z076000082 P66 Westlake-Revised Report
Pace Project No.: 10598112

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10598112001	**MW-209**	NWTPH-Gx	TM2	2	PASI-M
		EPA 200.8	NN2	4	PASI-M
		EPA 200.8	RJS	4	PASI-M
		EPA 8270E by SIM	JNG	36	PASI-M
		EPA 8260D	MAM	8	PASI-M
10598112002	**MW-210**	NWTPH-Gx	TM2	2	PASI-M
		EPA 200.8	NN2	4	PASI-M
		EPA 200.8	RJS	4	PASI-M
		EPA 8270E by SIM	JNG	36	PASI-M
		EPA 8260D	MAM	8	PASI-M
10598112003	**MW-211**	NWTPH-Gx	TM2	2	PASI-M
		EPA 200.8	NN2	4	PASI-M
		EPA 200.8	RJS	4	PASI-M
		EPA 8270E by SIM	JNG	36	PASI-M
		EPA 8260D	MAM	8	PASI-M
10598112004	**MW-212**	NWTPH-Gx	TM2	2	PASI-M
		EPA 200.8	NN2	4	PASI-M
		EPA 200.8	RJS	4	PASI-M
		EPA 8270E by SIM	JNG	36	PASI-M
		EPA 8260D	MAM	8	PASI-M
10598112005	**MW-213**	NWTPH-Gx	TM2	2	PASI-M
		EPA 200.8	NN2	4	PASI-M
		EPA 200.8	RJS	4	PASI-M
		EPA 8270E by SIM	JNG	36	PASI-M
		EPA 8260D	MAM	8	PASI-M
10598112006	**MW-214**	NWTPH-Gx	TM2	2	PASI-M
		EPA 200.8	NN2	4	PASI-M
		EPA 200.8	RJS	4	PASI-M
		EPA 8270E by SIM	JNG	36	PASI-M
		EPA 8260D	MAM	8	PASI-M
10598112007	**MW-215**	NWTPH-Gx	TM2	2	PASI-M
		EPA 200.8	NN2	4	PASI-M
		EPA 200.8	RJS	4	PASI-M
		EPA 8270E by SIM	JNG	36	PASI-M
		EPA 8260D	MAM	8	PASI-M
10598112008	**MW-216**	NWTPH-Gx	TM2	2	PASI-M
		EPA 200.8	NN2	4	PASI-M

Pace Analytical Services, LLC
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SAMPLE ANALYTE COUNT

Project: Z076000082 P66 Westlake-Revised Report
Pace Project No.: 10598112

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 200.8	RJS	4	PASI-M
		EPA 8270E by SIM	JNG	36	PASI-M
		EPA 8260D	MAM	8	PASI-M
10598112009	**MW-217**	NWTPH-Gx	TM2	2	PASI-M
		EPA 200.8	NN2	4	PASI-M
		EPA 200.8	RJS	4	PASI-M
		EPA 8270E by SIM	JNG	36	PASI-M
		EPA 8260D	MAM	8	PASI-M
10598112010	**MW-218**	NWTPH-Gx	TM2	2	PASI-M
		EPA 200.8	NN2	4	PASI-M
		EPA 200.8	RJS	4	PASI-M
		EPA 8270E by SIM	JNG	36	PASI-M
		EPA 8260D	MAM	8	PASI-M
10598112011	**Trip Blank**	NWTPH-Gx	TM2	2	PASI-M
		EPA 8260D	MAM	8	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: Z076000082 P66 Westlake-Revised Report
Pace Project No.: 10598112

Sample: MW-209 **Lab ID: 10598112001** Collected: 02/17/22 16:10 Received: 02/19/22 11:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx Pace Analytical Services - Minneapolis								
TPH as Gas	**<13.4**	ug/L	100	13.4	1		02/23/22 14:57		G-
Surrogates									
a,a,a-Trifluorotoluene (S)	66	%.	50-150		1		02/23/22 14:57	98-08-8	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Minneapolis								
Arsenic	**1.5**	ug/L	0.50	0.083	1	02/22/22 05:03	02/22/22 12:28	7440-38-2	
Barium	**86.0**	ug/L	0.30	0.055	1	02/22/22 05:03	02/22/22 12:28	7440-39-3	
Chromium	**0.53**	ug/L	0.50	0.25	1	02/22/22 05:03	02/22/22 12:28	7440-47-3	
Lead	**0.042J**	ug/L	0.10	0.028	1	02/22/22 05:03	02/22/22 12:28	7439-92-1	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Minneapolis								
Arsenic, Dissolved	**0.86**	ug/L	0.50	0.083	1	02/22/22 05:03	02/23/22 21:35	7440-38-2	
Barium, Dissolved	**84.7**	ug/L	0.30	0.055	1	02/22/22 05:03	02/23/22 21:35	7440-39-3	
Chromium, Dissolved	**0.50J**	ug/L	0.50	0.25	1	02/22/22 05:03	02/23/22 21:35	7440-47-3	
Lead, Dissolved	**0.15**	ug/L	0.10	0.028	1	02/22/22 05:03	02/23/22 21:35	7439-92-1	
8270E MSSV CPAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA Mod. 3510C Pace Analytical Services - Minneapolis								
1-Methylnaphthalene	**0.25**	ug/L	0.038	0.0079	1	02/21/22 15:18	02/22/22 14:47	90-12-0	
2-Chloronaphthalene	**<0.017**	ug/L	0.038	0.017	1	02/21/22 15:18	02/22/22 14:47	91-58-7	
2-Methylnaphthalene	**<0.015**	ug/L	0.038	0.015	1	02/21/22 15:18	02/22/22 14:47	91-57-6	
3-Methylcholanthrene	**<0.010**	ug/L	0.038	0.010	1	02/21/22 15:18	02/22/22 14:47	56-49-5	
5-Methylchrysene	**<0.0063**	ug/L	0.038	0.0063	1	02/21/22 15:18	02/22/22 14:47	3697-24-3	
5-Nitroacenaphthene	**<0.015**	ug/L	0.038	0.015	1	02/21/22 15:18	02/22/22 14:47	602-87-9	
6-Nitrochrysene	**<0.10**	ug/L	0.29	0.10	1	02/21/22 15:18	02/22/22 14:47	7496-02-8	
7,12-Dimethylbenz(a)anthracene	**<0.032**	ug/L	0.095	0.032	1	02/21/22 15:18	02/22/22 14:47	57-97-6	
7H-Dibenzo(c,g)carbazole	**<0.030**	ug/L	0.095	0.030	1	02/21/22 15:18	02/22/22 14:47	194-59-2	
Acenaphthene	**2.6**	ug/L	0.038	0.010	1	02/21/22 15:18	02/22/22 14:47	83-32-9	
Acenaphthylene	**<0.010**	ug/L	0.038	0.010	1	02/21/22 15:18	02/22/22 14:47	208-96-8	
Anthracene	**0.23**	ug/L	0.038	0.0073	1	02/21/22 15:18	02/22/22 14:47	120-12-7	
Benzo(a)anthracene	**0.018J**	ug/L	0.038	0.015	1	02/21/22 15:18	02/22/22 14:47	56-55-3	
Benzo(a)pyrene	**<0.011**	ug/L	0.038	0.011	1	02/21/22 15:18	02/22/22 14:47	50-32-8	
Benzo(e)pyrene	**<0.013**	ug/L	0.038	0.013	1	02/21/22 15:18	02/22/22 14:47	192-97-2	
Benzo(g,h,i)perylene	**<0.015**	ug/L	0.038	0.015	1	02/21/22 15:18	02/22/22 14:47	191-24-2	
Benzofluoranthenes (Total)	**<0.024**	ug/L	0.11	0.024	1	02/21/22 15:18	02/22/22 14:47		N2
Carbazole	**<0.014**	ug/L	0.038	0.014	1	02/21/22 15:18	02/22/22 14:47	86-74-8	
Chrysene	**<0.014**	ug/L	0.038	0.014	1	02/21/22 15:18	02/22/22 14:47	218-01-9	
Dibenz(a,h)acridine	**<0.013**	ug/L	0.038	0.013	1	02/21/22 15:18	02/22/22 14:47	226-36-8	
Dibenz(a,h)anthracene	**<0.015**	ug/L	0.038	0.015	1	02/21/22 15:18	02/22/22 14:47	53-70-3	
Dibenz(a,j)acridine	**<0.015**	ug/L	0.038	0.015	1	02/21/22 15:18	02/22/22 14:47	224-42-0	
Dibenzo(a,e)pyrene	**<0.010**	ug/L	0.038	0.010	1	02/21/22 15:18	02/22/22 14:47	192-65-4	
Dibenzo(a,h)pyrene	**<0.0090**	ug/L	0.038	0.0090	1	02/21/22 15:18	02/22/22 14:47	189-64-0	
Dibenzo(a,i)pyrene	**<0.012**	ug/L	0.038	0.012	1	02/21/22 15:18	02/22/22 14:47	189-55-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: Z076000082 P66 Westlake-Revised Report
Pace Project No.: 10598112

Sample: MW-209 **Lab ID: 10598112001** Collected: 02/17/22 16:10 Received: 02/19/22 11:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV CPAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA Mod. 3510C Pace Analytical Services - Minneapolis								
Dibenzo(a,l)pyrene	**<0.016**	ug/L	0.038	0.016	1	02/21/22 15:18	02/22/22 14:47	191-30-0	
Dibenzofuran	**0.13**	ug/L	0.038	0.016	1	02/21/22 15:18	02/22/22 14:47	132-64-9	
Fluoranthene	**0.36**	ug/L	0.038	0.016	1	02/21/22 15:18	02/22/22 14:47	206-44-0	L2
Fluorene	**1.0**	ug/L	0.038	0.0093	1	02/21/22 15:18	02/22/22 14:47	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.015**	ug/L	0.038	0.015	1	02/21/22 15:18	02/22/22 14:47	193-39-5	
Naphthalene	**<0.015**	ug/L	0.038	0.015	1	02/21/22 15:18	02/22/22 14:47	91-20-3	
Perylene	**<0.010**	ug/L	0.038	0.010	1	02/21/22 15:18	02/22/22 14:47	198-55-0	
Phenanthrene	**0.42**	ug/L	0.038	0.015	1	02/21/22 15:18	02/22/22 14:47	85-01-8	
Pyrene	**0.40**	ug/L	0.038	0.013	1	02/21/22 15:18	02/22/22 14:47	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	62	%.	52-125		1	02/21/22 15:18	02/22/22 14:47	321-60-8	
p-Terphenyl-d14 (S)	71	%.	51-125		1	02/21/22 15:18	02/22/22 14:47	1718-51-0	
8260D MSV UST	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis								
Benzene	**<0.10**	ug/L	1.0	0.10	1		02/21/22 15:47	71-43-2	
Ethylbenzene	**<0.11**	ug/L	1.0	0.11	1		02/21/22 15:47	100-41-4	
Methyl-tert-butyl ether	**<0.13**	ug/L	1.0	0.13	1		02/21/22 15:47	1634-04-4	
Toluene	**<0.10**	ug/L	1.0	0.10	1		02/21/22 15:47	108-88-3	
Xylene (Total)	**<0.20**	ug/L	3.0	0.20	1		02/21/22 15:47	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	99	%.	75-125		1		02/21/22 15:47	2199-69-1	
4-Bromofluorobenzene (S)	96	%.	75-125		1		02/21/22 15:47	460-00-4	
Toluene-d8 (S)	100	%.	75-125		1		02/21/22 15:47	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: Z076000082 P66 Westlake-Revised Report
Pace Project No.: 10598112

Sample: MW-210 **Lab ID: 10598112002** Collected: 02/17/22 15:25 Received: 02/19/22 11:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx Pace Analytical Services - Minneapolis								
TPH as Gas	**<13.4**	ug/L	100	13.4	1		02/23/22 15:13		G-
Surrogates									
a,a,a-Trifluorotoluene (S)	65	%.	50-150		1		02/23/22 15:13	98-08-8	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Minneapolis								
Arsenic	**0.41J**	ug/L	0.50	0.083	1	02/22/22 05:03	02/22/22 12:35	7440-38-2	
Barium	**116**	ug/L	0.30	0.055	1	02/22/22 05:03	02/22/22 12:35	7440-39-3	
Chromium	**0.67**	ug/L	0.50	0.25	1	02/22/22 05:03	02/22/22 12:35	7440-47-3	
Lead	**0.058J**	ug/L	0.10	0.028	1	02/22/22 05:03	02/22/22 12:35	7439-92-1	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Minneapolis								
Arsenic, Dissolved	**0.39J**	ug/L	0.50	0.083	1	02/22/22 05:03	02/23/22 21:55	7440-38-2	
Barium, Dissolved	**110**	ug/L	0.30	0.055	1	02/22/22 05:03	02/23/22 21:55	7440-39-3	
Chromium, Dissolved	**0.59**	ug/L	0.50	0.25	1	02/22/22 05:03	02/23/22 21:55	7440-47-3	
Lead, Dissolved	**0.045J**	ug/L	0.10	0.028	1	02/22/22 05:03	02/23/22 21:55	7439-92-1	
8270E MSSV CPAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA Mod. 3510C Pace Analytical Services - Minneapolis								
1-Methylnaphthalene	**<0.0084**	ug/L	0.041	0.0084	1	02/21/22 15:18	02/22/22 15:17	90-12-0	
2-Chloronaphthalene	**<0.018**	ug/L	0.041	0.018	1	02/21/22 15:18	02/22/22 15:17	91-58-7	
2-Methylnaphthalene	**<0.016**	ug/L	0.041	0.016	1	02/21/22 15:18	02/22/22 15:17	91-57-6	
3-Methylcholanthrene	**<0.011**	ug/L	0.041	0.011	1	02/21/22 15:18	02/22/22 15:17	56-49-5	
5-Methylchrysene	**<0.0068**	ug/L	0.041	0.0068	1	02/21/22 15:18	02/22/22 15:17	3697-24-3	
5-Nitroacenaphthene	**<0.016**	ug/L	0.041	0.016	1	02/21/22 15:18	02/22/22 15:17	602-87-9	
6-Nitrochrysene	**<0.11**	ug/L	0.31	0.11	1	02/21/22 15:18	02/22/22 15:17	7496-02-8	
7,12-Dimethylbenz(a)anthracene	**<0.035**	ug/L	0.10	0.035	1	02/21/22 15:18	02/22/22 15:17	57-97-6	
7H-Dibenzo(c,g)carbazole	**<0.032**	ug/L	0.10	0.032	1	02/21/22 15:18	02/22/22 15:17	194-59-2	
Acenaphthene	**0.014J**	ug/L	0.041	0.011	1	02/21/22 15:18	02/22/22 15:17	83-32-9	
Acenaphthylene	**<0.011**	ug/L	0.041	0.011	1	02/21/22 15:18	02/22/22 15:17	208-96-8	
Anthracene	**<0.0078**	ug/L	0.041	0.0078	1	02/21/22 15:18	02/22/22 15:17	120-12-7	
Benzo(a)anthracene	**<0.016**	ug/L	0.041	0.016	1	02/21/22 15:18	02/22/22 15:17	56-55-3	
Benzo(a)pyrene	**<0.012**	ug/L	0.041	0.012	1	02/21/22 15:18	02/22/22 15:17	50-32-8	
Benzo(e)pyrene	**<0.014**	ug/L	0.041	0.014	1	02/21/22 15:18	02/22/22 15:17	192-97-2	
Benzo(g,h,i)perylene	**<0.016**	ug/L	0.041	0.016	1	02/21/22 15:18	02/22/22 15:17	191-24-2	
Benzofluoranthenes (Total)	**<0.026**	ug/L	0.12	0.026	1	02/21/22 15:18	02/22/22 15:17		N2
Carbazole	**<0.015**	ug/L	0.041	0.015	1	02/21/22 15:18	02/22/22 15:17	86-74-8	
Chrysene	**<0.015**	ug/L	0.041	0.015	1	02/21/22 15:18	02/22/22 15:17	218-01-9	
Dibenz(a,h)acridine	**<0.014**	ug/L	0.041	0.014	1	02/21/22 15:18	02/22/22 15:17	226-36-8	
Dibenz(a,h)anthracene	**<0.016**	ug/L	0.041	0.016	1	02/21/22 15:18	02/22/22 15:17	53-70-3	
Dibenz(a,j)acridine	**<0.016**	ug/L	0.041	0.016	1	02/21/22 15:18	02/22/22 15:17	224-42-0	
Dibenzo(a,e)pyrene	**<0.011**	ug/L	0.041	0.011	1	02/21/22 15:18	02/22/22 15:17	192-65-4	
Dibenzo(a,h)pyrene	**<0.0097**	ug/L	0.041	0.0097	1	02/21/22 15:18	02/22/22 15:17	189-64-0	
Dibenzo(a,i)pyrene	**<0.013**	ug/L	0.041	0.013	1	02/21/22 15:18	02/22/22 15:17	189-55-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: Z076000082 P66 Westlake-Revised Report
Pace Project No.: 10598112

Sample: MW-210 **Lab ID: 10598112002** Collected: 02/17/22 15:25 Received: 02/19/22 11:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV CPAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA Mod. 3510C Pace Analytical Services - Minneapolis								
Dibenzo(a,l)pyrene	**<0.017**	ug/L	0.041	0.017	1	02/21/22 15:18	02/22/22 15:17	191-30-0	
Dibenzofuran	**<0.018**	ug/L	0.041	0.018	1	02/21/22 15:18	02/22/22 15:17	132-64-9	
Fluoranthene	**<0.018**	ug/L	0.041	0.018	1	02/21/22 15:18	02/22/22 15:17	206-44-0	L2
Fluorene	**<0.010**	ug/L	0.041	0.010	1	02/21/22 15:18	02/22/22 15:17	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.016**	ug/L	0.041	0.016	1	02/21/22 15:18	02/22/22 15:17	193-39-5	
Naphthalene	**<0.016**	ug/L	0.041	0.016	1	02/21/22 15:18	02/22/22 15:17	91-20-3	
Perylene	**<0.011**	ug/L	0.041	0.011	1	02/21/22 15:18	02/22/22 15:17	198-55-0	
Phenanthrene	**<0.016**	ug/L	0.041	0.016	1	02/21/22 15:18	02/22/22 15:17	85-01-8	
Pyrene	**<0.014**	ug/L	0.041	0.014	1	02/21/22 15:18	02/22/22 15:17	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	62	%.	52-125		1	02/21/22 15:18	02/22/22 15:17	321-60-8	
p-Terphenyl-d14 (S)	81	%.	51-125		1	02/21/22 15:18	02/22/22 15:17	1718-51-0	
8260D MSV UST	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis								
Benzene	**<0.10**	ug/L	1.0	0.10	1		02/21/22 16:01	71-43-2	
Ethylbenzene	**<0.11**	ug/L	1.0	0.11	1		02/21/22 16:01	100-41-4	
Methyl-tert-butyl ether	**<0.13**	ug/L	1.0	0.13	1		02/21/22 16:01	1634-04-4	
Toluene	**<0.10**	ug/L	1.0	0.10	1		02/21/22 16:01	108-88-3	
Xylene (Total)	**<0.20**	ug/L	3.0	0.20	1		02/21/22 16:01	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	98	%.	75-125		1		02/21/22 16:01	2199-69-1	
4-Bromofluorobenzene (S)	94	%.	75-125		1		02/21/22 16:01	460-00-4	
Toluene-d8 (S)	102	%.	75-125		1		02/21/22 16:01	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
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ANALYTICAL RESULTS

Project: Z076000082 P66 Westlake-Revised Report
Pace Project No.: 10598112

Sample: MW-211 **Lab ID: 10598112003** Collected: 02/16/22 15:25 Received: 02/19/22 11:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx Pace Analytical Services - Minneapolis								
TPH as Gas	**<13.4**	ug/L	100	13.4	1		02/23/22 12:10		
Surrogates									
a,a,a-Trifluorotoluene (S)	70	%.	50-150		1		02/23/22 12:10	98-08-8	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Minneapolis								
Arsenic	**0.24J**	ug/L	0.50	0.083	1	02/22/22 05:03	02/22/22 12:41	7440-38-2	
Barium	**62.4**	ug/L	0.30	0.055	1	02/22/22 05:03	02/22/22 12:41	7440-39-3	
Chromium	**0.60**	ug/L	0.50	0.25	1	02/22/22 05:03	02/22/22 12:41	7440-47-3	
Lead	**0.031J**	ug/L	0.10	0.028	1	02/22/22 05:03	02/22/22 12:41	7439-92-1	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Minneapolis								
Arsenic, Dissolved	**0.20J**	ug/L	0.50	0.083	1	02/22/22 05:03	02/23/22 21:41	7440-38-2	
Barium, Dissolved	**62.5**	ug/L	0.30	0.055	1	02/22/22 05:03	02/23/22 21:41	7440-39-3	
Chromium, Dissolved	**0.63**	ug/L	0.50	0.25	1	02/22/22 05:03	02/23/22 21:41	7440-47-3	
Lead, Dissolved	**<0.028**	ug/L	0.10	0.028	1	02/22/22 05:03	02/23/22 21:41	7439-92-1	
8270E MSSV CPAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA Mod. 3510C Pace Analytical Services - Minneapolis								
1-Methylnaphthalene	**<0.0086**	ug/L	0.042	0.0086	1	02/21/22 15:18	02/22/22 15:48	90-12-0	M1
2-Chloronaphthalene	**<0.019**	ug/L	0.042	0.019	1	02/21/22 15:18	02/22/22 15:48	91-58-7	M1
2-Methylnaphthalene	**<0.016**	ug/L	0.042	0.016	1	02/21/22 15:18	02/22/22 15:48	91-57-6	M1
3-Methylcholanthrene	**<0.011**	ug/L	0.042	0.011	1	02/21/22 15:18	02/22/22 15:48	56-49-5	M1
5-Methylchrysene	**<0.0069**	ug/L	0.042	0.0069	1	02/21/22 15:18	02/22/22 15:48	3697-24-3	M1
5-Nitroacenaphthene	**<0.016**	ug/L	0.042	0.016	1	02/21/22 15:18	02/22/22 15:48	602-87-9	M1
6-Nitrochrysene	**<0.11**	ug/L	0.31	0.11	1	02/21/22 15:18	02/22/22 15:48	7496-02-8	M1
7,12-Dimethylbenz(a)anthracene	**<0.035**	ug/L	0.10	0.035	1	02/21/22 15:18	02/22/22 15:48	57-97-6	M1
7H-Dibenzo(c,g)carbazole	**<0.033**	ug/L	0.10	0.033	1	02/21/22 15:18	02/22/22 15:48	194-59-2	
Acenaphthene	**<0.011**	ug/L	0.042	0.011	1	02/21/22 15:18	02/22/22 15:48	83-32-9	M1
Acenaphthylene	**<0.011**	ug/L	0.042	0.011	1	02/21/22 15:18	02/22/22 15:48	208-96-8	M1
Anthracene	**<0.0080**	ug/L	0.042	0.0080	1	02/21/22 15:18	02/22/22 15:48	120-12-7	M1
Benzo(a)anthracene	**<0.017**	ug/L	0.042	0.017	1	02/21/22 15:18	02/22/22 15:48	56-55-3	M1
Benzo(a)pyrene	**<0.012**	ug/L	0.042	0.012	1	02/21/22 15:18	02/22/22 15:48	50-32-8	M1
Benzo(e)pyrene	**<0.015**	ug/L	0.042	0.015	1	02/21/22 15:18	02/22/22 15:48	192-97-2	M1
Benzo(g,h,i)perylene	**<0.017**	ug/L	0.042	0.017	1	02/21/22 15:18	02/22/22 15:48	191-24-2	M1
Benzofluoranthenes (Total)	**<0.027**	ug/L	0.13	0.027	1	02/21/22 15:18	02/22/22 15:48		M1,N2
Carbazole	**<0.015**	ug/L	0.042	0.015	1	02/21/22 15:18	02/22/22 15:48	86-74-8	M1
Chrysene	**<0.015**	ug/L	0.042	0.015	1	02/21/22 15:18	02/22/22 15:48	218-01-9	M1
Dibenz(a,h)acridine	**<0.015**	ug/L	0.042	0.015	1	02/21/22 15:18	02/22/22 15:48	226-36-8	
Dibenz(a,h)anthracene	**<0.017**	ug/L	0.042	0.017	1	02/21/22 15:18	02/22/22 15:48	53-70-3	
Dibenz(a,j)acridine	**<0.017**	ug/L	0.042	0.017	1	02/21/22 15:18	02/22/22 15:48	224-42-0	M1
Dibenzo(a,e)pyrene	**<0.011**	ug/L	0.042	0.011	1	02/21/22 15:18	02/22/22 15:48	192-65-4	
Dibenzo(a,h)pyrene	**<0.0099**	ug/L	0.042	0.0099	1	02/21/22 15:18	02/22/22 15:48	189-64-0	
Dibenzo(a,i)pyrene	**<0.013**	ug/L	0.042	0.013	1	02/21/22 15:18	02/22/22 15:48	189-55-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
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ANALYTICAL RESULTS

Project: Z076000082 P66 Westlake-Revised Report
Pace Project No.: 10598112

Sample: MW-211 **Lab ID: 10598112003** Collected: 02/16/22 15:25 Received: 02/19/22 11:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV CPAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA Mod. 3510C Pace Analytical Services - Minneapolis								
Dibenzo(a,l)pyrene	**<0.018**	ug/L	0.042	0.018	1	02/21/22 15:18	02/22/22 15:48	191-30-0	
Dibenzofuran	**<0.018**	ug/L	0.042	0.018	1	02/21/22 15:18	02/22/22 15:48	132-64-9	M1
Fluoranthene	**<0.018**	ug/L	0.042	0.018	1	02/21/22 15:18	02/22/22 15:48	206-44-0	L2,M0
Fluorene	**<0.010**	ug/L	0.042	0.010	1	02/21/22 15:18	02/22/22 15:48	86-73-7	M1
Indeno(1,2,3-cd)pyrene	**<0.017**	ug/L	0.042	0.017	1	02/21/22 15:18	02/22/22 15:48	193-39-5	M1
Naphthalene	**<0.017**	ug/L	0.042	0.017	1	02/21/22 15:18	02/22/22 15:48	91-20-3	M1
Perylene	**<0.011**	ug/L	0.042	0.011	1	02/21/22 15:18	02/22/22 15:48	198-55-0	
Phenanthrene	**<0.016**	ug/L	0.042	0.016	1	02/21/22 15:18	02/22/22 15:48	85-01-8	M1
Pyrene	**<0.014**	ug/L	0.042	0.014	1	02/21/22 15:18	02/22/22 15:48	129-00-0	M1
Surrogates									
2-Fluorobiphenyl (S)	69	%.	52-125		1	02/21/22 15:18	02/22/22 15:48	321-60-8	
p-Terphenyl-d14 (S)	84	%.	51-125		1	02/21/22 15:18	02/22/22 15:48	1718-51-0	
8260D MSV UST	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis								
Benzene	**<0.10**	ug/L	1.0	0.10	1		02/21/22 15:32	71-43-2	
Ethylbenzene	**<0.11**	ug/L	1.0	0.11	1		02/21/22 15:32	100-41-4	
Methyl-tert-butyl ether	**<0.13**	ug/L	1.0	0.13	1		02/21/22 15:32	1634-04-4	
Toluene	**<0.10**	ug/L	1.0	0.10	1		02/21/22 15:32	108-88-3	
Xylene (Total)	**<0.20**	ug/L	3.0	0.20	1		02/21/22 15:32	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	98	%.	75-125		1		02/21/22 15:32	2199-69-1	
4-Bromofluorobenzene (S)	93	%.	75-125		1		02/21/22 15:32	460-00-4	
Toluene-d8 (S)	100	%.	75-125		1		02/21/22 15:32	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Minneapolis, MN 55414
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ANALYTICAL RESULTS

Project: Z076000082 P66 Westlake-Revised Report
Pace Project No.: 10598112

Sample: MW-212 **Lab ID: 10598112004** Collected: 02/17/22 09:55 Received: 02/19/22 11:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx Pace Analytical Services - Minneapolis								
TPH as Gas	**<13.4**	ug/L	100	13.4	1		02/23/22 15:28		G-
Surrogates									
a,a,a-Trifluorotoluene (S)	68	%.	50-150		1		02/23/22 15:28	98-08-8	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Minneapolis								
Arsenic	**7.8**	ug/L	0.50	0.083	1	02/22/22 05:03	02/22/22 13:09	7440-38-2	
Barium	**161**	ug/L	0.30	0.055	1	02/22/22 05:03	02/22/22 13:09	7440-39-3	
Chromium	**0.80**	ug/L	0.50	0.25	1	02/22/22 05:03	02/22/22 13:09	7440-47-3	
Lead	**0.084J**	ug/L	0.10	0.028	1	02/22/22 05:03	02/22/22 13:09	7439-92-1	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Minneapolis								
Arsenic, Dissolved	**5.5**	ug/L	0.50	0.083	1	02/22/22 05:03	02/23/22 22:08	7440-38-2	
Barium, Dissolved	**156**	ug/L	0.30	0.055	1	02/22/22 05:03	02/23/22 22:08	7440-39-3	
Chromium, Dissolved	**0.86**	ug/L	0.50	0.25	1	02/22/22 05:03	02/23/22 22:08	7440-47-3	
Lead, Dissolved	**0.11**	ug/L	0.10	0.028	1	02/22/22 05:03	02/23/22 22:08	7439-92-1	
8270E MSSV CPAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA Mod. 3510C Pace Analytical Services - Minneapolis								
1-Methylnaphthalene	**0.012J**	ug/L	0.041	0.0084	1	02/21/22 15:18	02/22/22 17:18	90-12-0	
2-Chloronaphthalene	**<0.018**	ug/L	0.041	0.018	1	02/21/22 15:18	02/22/22 17:18	91-58-7	
2-Methylnaphthalene	**<0.016**	ug/L	0.041	0.016	1	02/21/22 15:18	02/22/22 17:18	91-57-6	
3-Methylcholanthrene	**<0.011**	ug/L	0.041	0.011	1	02/21/22 15:18	02/22/22 17:18	56-49-5	
5-Methylchrysene	**<0.0068**	ug/L	0.041	0.0068	1	02/21/22 15:18	02/22/22 17:18	3697-24-3	
5-Nitroacenaphthene	**<0.016**	ug/L	0.041	0.016	1	02/21/22 15:18	02/22/22 17:18	602-87-9	
6-Nitrochrysene	**<0.11**	ug/L	0.31	0.11	1	02/21/22 15:18	02/22/22 17:18	7496-02-8	
7,12-Dimethylbenz(a)anthracene	**<0.035**	ug/L	0.10	0.035	1	02/21/22 15:18	02/22/22 17:18	57-97-6	
7H-Dibenzo(c,g)carbazole	**<0.032**	ug/L	0.10	0.032	1	02/21/22 15:18	02/22/22 17:18	194-59-2	
Acenaphthene	**0.057**	ug/L	0.041	0.011	1	02/21/22 15:18	02/22/22 17:18	83-32-9	
Acenaphthylene	**<0.011**	ug/L	0.041	0.011	1	02/21/22 15:18	02/22/22 17:18	208-96-8	
Anthracene	**<0.0078**	ug/L	0.041	0.0078	1	02/21/22 15:18	02/22/22 17:18	120-12-7	
Benzo(a)anthracene	**<0.016**	ug/L	0.041	0.016	1	02/21/22 15:18	02/22/22 17:18	56-55-3	
Benzo(a)pyrene	**<0.012**	ug/L	0.041	0.012	1	02/21/22 15:18	02/22/22 17:18	50-32-8	
Benzo(e)pyrene	**<0.014**	ug/L	0.041	0.014	1	02/21/22 15:18	02/22/22 17:18	192-97-2	
Benzo(g,h,i)perylene	**<0.016**	ug/L	0.041	0.016	1	02/21/22 15:18	02/22/22 17:18	191-24-2	
Benzofluoranthenes (Total)	**<0.026**	ug/L	0.12	0.026	1	02/21/22 15:18	02/22/22 17:18		N2
Carbazole	**<0.015**	ug/L	0.041	0.015	1	02/21/22 15:18	02/22/22 17:18	86-74-8	
Chrysene	**<0.015**	ug/L	0.041	0.015	1	02/21/22 15:18	02/22/22 17:18	218-01-9	
Dibenz(a,h)acridine	**<0.014**	ug/L	0.041	0.014	1	02/21/22 15:18	02/22/22 17:18	226-36-8	
Dibenz(a,h)anthracene	**<0.016**	ug/L	0.041	0.016	1	02/21/22 15:18	02/22/22 17:18	53-70-3	
Dibenz(a,j)acridine	**<0.016**	ug/L	0.041	0.016	1	02/21/22 15:18	02/22/22 17:18	224-42-0	
Dibenzo(a,e)pyrene	**<0.011**	ug/L	0.041	0.011	1	02/21/22 15:18	02/22/22 17:18	192-65-4	
Dibenzo(a,h)pyrene	**<0.0097**	ug/L	0.041	0.0097	1	02/21/22 15:18	02/22/22 17:18	189-64-0	
Dibenzo(a,i)pyrene	**<0.013**	ug/L	0.041	0.013	1	02/21/22 15:18	02/22/22 17:18	189-55-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
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ANALYTICAL RESULTS

Project: Z076000082 P66 Westlake-Revised Report
Pace Project No.: 10598112

Sample: MW-212 **Lab ID: 10598112004** Collected: 02/17/22 09:55 Received: 02/19/22 11:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV CPAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA Mod. 3510C Pace Analytical Services - Minneapolis								
Dibenzo(a,l)pyrene	**<0.017**	ug/L	0.041	0.017	1	02/21/22 15:18	02/22/22 17:18	191-30-0	
Dibenzofuran	**<0.018**	ug/L	0.041	0.018	1	02/21/22 15:18	02/22/22 17:18	132-64-9	
Fluoranthene	**<0.018**	ug/L	0.041	0.018	1	02/21/22 15:18	02/22/22 17:18	206-44-0	L2
Fluorene	**0.015J**	ug/L	0.041	0.010	1	02/21/22 15:18	02/22/22 17:18	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.016**	ug/L	0.041	0.016	1	02/21/22 15:18	02/22/22 17:18	193-39-5	
Naphthalene	**<0.016**	ug/L	0.041	0.016	1	02/21/22 15:18	02/22/22 17:18	91-20-3	
Perylene	**<0.011**	ug/L	0.041	0.011	1	02/21/22 15:18	02/22/22 17:18	198-55-0	
Phenanthrene	**<0.016**	ug/L	0.041	0.016	1	02/21/22 15:18	02/22/22 17:18	85-01-8	
Pyrene	**<0.014**	ug/L	0.041	0.014	1	02/21/22 15:18	02/22/22 17:18	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	60	%.	52-125		1	02/21/22 15:18	02/22/22 17:18	321-60-8	
p-Terphenyl-d14 (S)	72	%.	51-125		1	02/21/22 15:18	02/22/22 17:18	1718-51-0	
8260D MSV UST	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis								
Benzene	**<0.10**	ug/L	1.0	0.10	1		02/21/22 16:30	71-43-2	
Ethylbenzene	**<0.11**	ug/L	1.0	0.11	1		02/21/22 16:30	100-41-4	
Methyl-tert-butyl ether	**0.30J**	ug/L	1.0	0.13	1		02/21/22 16:30	1634-04-4	
Toluene	**<0.10**	ug/L	1.0	0.10	1		02/21/22 16:30	108-88-3	
Xylene (Total)	**<0.20**	ug/L	3.0	0.20	1		02/21/22 16:30	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	96	%.	75-125		1		02/21/22 16:30	2199-69-1	
4-Bromofluorobenzene (S)	93	%.	75-125		1		02/21/22 16:30	460-00-4	
Toluene-d8 (S)	101	%.	75-125		1		02/21/22 16:30	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: Z076000082 P66 Westlake-Revised Report
Pace Project No.: 10598112

Sample: MW-213 **Lab ID: 10598112005** Collected: 02/17/22 11:20 Received: 02/19/22 11:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx Pace Analytical Services - Minneapolis								
TPH as Gas	**168**	ug/L	100	13.4	1		02/23/22 15:43		G-
Surrogates									
a,a,a-Trifluorotoluene (S)	61	%.	50-150		1		02/23/22 15:43	98-08-8	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Minneapolis								
Arsenic	**13.5**	ug/L	0.50	0.083	1	02/22/22 05:03	02/22/22 13:15	7440-38-2	
Barium	**69.1**	ug/L	0.30	0.055	1	02/22/22 05:03	02/22/22 13:15	7440-39-3	
Chromium	**1.2**	ug/L	0.50	0.25	1	02/22/22 05:03	02/22/22 13:15	7440-47-3	
Lead	**1.0**	ug/L	0.10	0.028	1	02/22/22 05:03	02/22/22 13:15	7439-92-1	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Minneapolis								
Arsenic, Dissolved	**11.8**	ug/L	0.50	0.083	1	02/22/22 05:03	02/23/22 22:11	7440-38-2	
Barium, Dissolved	**59.8**	ug/L	0.30	0.055	1	02/22/22 05:03	02/23/22 22:11	7440-39-3	
Chromium, Dissolved	**1.0**	ug/L	0.50	0.25	1	02/22/22 05:03	02/23/22 22:11	7440-47-3	
Lead, Dissolved	**0.34**	ug/L	0.10	0.028	1	02/22/22 05:03	02/23/22 22:11	7439-92-1	
8270E MSSV CPAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA Mod. 3510C Pace Analytical Services - Minneapolis								
1-Methylnaphthalene	**1.1**	ug/L	0.039	0.0080	1	02/21/22 15:18	02/22/22 17:49	90-12-0	
2-Chloronaphthalene	**<0.017**	ug/L	0.039	0.017	1	02/21/22 15:18	02/22/22 17:49	91-58-7	
2-Methylnaphthalene	**<0.015**	ug/L	0.039	0.015	1	02/21/22 15:18	02/22/22 17:49	91-57-6	
3-Methylcholanthrene	**<0.011**	ug/L	0.039	0.011	1	02/21/22 15:18	02/22/22 17:49	56-49-5	
5-Methylchrysene	**<0.0064**	ug/L	0.039	0.0064	1	02/21/22 15:18	02/22/22 17:49	3697-24-3	
5-Nitroacenaphthene	**<0.015**	ug/L	0.039	0.015	1	02/21/22 15:18	02/22/22 17:49	602-87-9	
6-Nitrochrysene	**<0.10**	ug/L	0.29	0.10	1	02/21/22 15:18	02/22/22 17:49	7496-02-8	
7,12-Dimethylbenz(a)anthracene	**<0.033**	ug/L	0.097	0.033	1	02/21/22 15:18	02/22/22 17:49	57-97-6	
7H-Dibenzo(c,g)carbazole	**<0.031**	ug/L	0.097	0.031	1	02/21/22 15:18	02/22/22 17:49	194-59-2	
Acenaphthene	**0.028J**	ug/L	0.039	0.011	1	02/21/22 15:18	02/22/22 17:49	83-32-9	
Acenaphthylene	**<0.010**	ug/L	0.039	0.010	1	02/21/22 15:18	02/22/22 17:49	208-96-8	
Anthracene	**<0.0074**	ug/L	0.039	0.0074	1	02/21/22 15:18	02/22/22 17:49	120-12-7	
Benzo(a)anthracene	**<0.016**	ug/L	0.039	0.016	1	02/21/22 15:18	02/22/22 17:49	56-55-3	
Benzo(a)pyrene	**<0.011**	ug/L	0.039	0.011	1	02/21/22 15:18	02/22/22 17:49	50-32-8	
Benzo(e)pyrene	**<0.014**	ug/L	0.039	0.014	1	02/21/22 15:18	02/22/22 17:49	192-97-2	
Benzo(g,h,i)perylene	**<0.016**	ug/L	0.039	0.016	1	02/21/22 15:18	02/22/22 17:49	191-24-2	
Benzofluoranthenes (Total)	**<0.025**	ug/L	0.12	0.025	1	02/21/22 15:18	02/22/22 17:49		N2
Carbazole	**<0.014**	ug/L	0.039	0.014	1	02/21/22 15:18	02/22/22 17:49	86-74-8	
Chrysene	**<0.014**	ug/L	0.039	0.014	1	02/21/22 15:18	02/22/22 17:49	218-01-9	
Dibenz(a,h)acridine	**<0.014**	ug/L	0.039	0.014	1	02/21/22 15:18	02/22/22 17:49	226-36-8	
Dibenz(a,h)anthracene	**<0.016**	ug/L	0.039	0.016	1	02/21/22 15:18	02/22/22 17:49	53-70-3	
Dibenz(a,j)acridine	**<0.016**	ug/L	0.039	0.016	1	02/21/22 15:18	02/22/22 17:49	224-42-0	
Dibenzo(a,e)pyrene	**<0.010**	ug/L	0.039	0.010	1	02/21/22 15:18	02/22/22 17:49	192-65-4	
Dibenzo(a,h)pyrene	**<0.0092**	ug/L	0.039	0.0092	1	02/21/22 15:18	02/22/22 17:49	189-64-0	
Dibenzo(a,i)pyrene	**<0.012**	ug/L	0.039	0.012	1	02/21/22 15:18	02/22/22 17:49	189-55-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
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ANALYTICAL RESULTS

Project: Z076000082 P66 Westlake-Revised Report
Pace Project No.: 10598112

Sample: MW-213 **Lab ID: 10598112005** Collected: 02/17/22 11:20 Received: 02/19/22 11:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV CPAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA Mod. 3510C Pace Analytical Services - Minneapolis								
Dibenzo(a,l)pyrene	**<0.017**	ug/L	0.039	0.017	1	02/21/22 15:18	02/22/22 17:49	191-30-0	
Dibenzofuran	**<0.017**	ug/L	0.039	0.017	1	02/21/22 15:18	02/22/22 17:49	132-64-9	
Fluoranthene	**<0.017**	ug/L	0.039	0.017	1	02/21/22 15:18	02/22/22 17:49	206-44-0	L2
Fluorene	**<0.0095**	ug/L	0.039	0.0095	1	02/21/22 15:18	02/22/22 17:49	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.016**	ug/L	0.039	0.016	1	02/21/22 15:18	02/22/22 17:49	193-39-5	
Naphthalene	**0.35**	ug/L	0.039	0.016	1	02/21/22 15:18	02/22/22 17:49	91-20-3	
Perylene	**<0.011**	ug/L	0.039	0.011	1	02/21/22 15:18	02/22/22 17:49	198-55-0	
Phenanthrene	**<0.015**	ug/L	0.039	0.015	1	02/21/22 15:18	02/22/22 17:49	85-01-8	
Pyrene	**<0.013**	ug/L	0.039	0.013	1	02/21/22 15:18	02/22/22 17:49	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	56	%.	52-125		1	02/21/22 15:18	02/22/22 17:49	321-60-8	
p-Terphenyl-d14 (S)	64	%.	51-125		1	02/21/22 15:18	02/22/22 17:49	1718-51-0	
8260D MSV UST	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis								
Benzene	**1.6**	ug/L	1.0	0.10	1		02/21/22 16:44	71-43-2	
Ethylbenzene	**0.23J**	ug/L	1.0	0.11	1		02/21/22 16:44	100-41-4	
Methyl-tert-butyl ether	**<0.13**	ug/L	1.0	0.13	1		02/21/22 16:44	1634-04-4	
Toluene	**0.15J**	ug/L	1.0	0.10	1		02/21/22 16:44	108-88-3	
Xylene (Total)	**<0.20**	ug/L	3.0	0.20	1		02/21/22 16:44	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	96	%.	75-125		1		02/21/22 16:44	2199-69-1	
4-Bromofluorobenzene (S)	95	%.	75-125		1		02/21/22 16:44	460-00-4	
Toluene-d8 (S)	100	%.	75-125		1		02/21/22 16:44	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: Z076000082 P66 Westlake-Revised Report
Pace Project No.: 10598112

Sample: MW-214 **Lab ID: 10598112006** Collected: 02/17/22 12:20 Received: 02/19/22 11:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx Pace Analytical Services - Minneapolis								
TPH as Gas	**<13.4**	ug/L	100	13.4	1		02/23/22 15:58		
Surrogates									
a,a,a-Trifluorotoluene (S)	70	%.	50-150		1		02/23/22 15:58	98-08-8	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Minneapolis								
Arsenic	**6.1**	ug/L	0.50	0.083	1	02/22/22 05:03	02/22/22 13:22	7440-38-2	
Barium	**38.4**	ug/L	0.30	0.055	1	02/22/22 05:03	02/22/22 13:22	7440-39-3	
Chromium	**0.80**	ug/L	0.50	0.25	1	02/22/22 05:03	02/22/22 13:22	7440-47-3	
Lead	**0.11**	ug/L	0.10	0.028	1	02/22/22 05:03	02/22/22 13:22	7439-92-1	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Minneapolis								
Arsenic, Dissolved	**4.7**	ug/L	0.50	0.083	1	02/22/22 05:03	02/23/22 22:15	7440-38-2	
Barium, Dissolved	**37.1**	ug/L	0.30	0.055	1	02/22/22 05:03	02/23/22 22:15	7440-39-3	
Chromium, Dissolved	**0.83**	ug/L	0.50	0.25	1	02/22/22 05:03	02/23/22 22:15	7440-47-3	
Lead, Dissolved	**<0.028**	ug/L	0.10	0.028	1	02/22/22 05:03	02/23/22 22:15	7439-92-1	
8270E MSSV CPAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA Mod. 3510C Pace Analytical Services - Minneapolis								
1-Methylnaphthalene	**<0.0084**	ug/L	0.041	0.0084	1	02/21/22 15:18	02/22/22 18:19	90-12-0	
2-Chloronaphthalene	**<0.018**	ug/L	0.041	0.018	1	02/21/22 15:18	02/22/22 18:19	91-58-7	
2-Methylnaphthalene	**<0.016**	ug/L	0.041	0.016	1	02/21/22 15:18	02/22/22 18:19	91-57-6	
3-Methylcholanthrene	**<0.011**	ug/L	0.041	0.011	1	02/21/22 15:18	02/22/22 18:19	56-49-5	
5-Methylchrysene	**<0.0068**	ug/L	0.041	0.0068	1	02/21/22 15:18	02/22/22 18:19	3697-24-3	
5-Nitroacenaphthene	**<0.016**	ug/L	0.041	0.016	1	02/21/22 15:18	02/22/22 18:19	602-87-9	
6-Nitrochrysene	**<0.11**	ug/L	0.31	0.11	1	02/21/22 15:18	02/22/22 18:19	7496-02-8	
7,12-Dimethylbenz(a)anthracene	**<0.035**	ug/L	0.10	0.035	1	02/21/22 15:18	02/22/22 18:19	57-97-6	
7H-Dibenzo(c,g)carbazole	**<0.032**	ug/L	0.10	0.032	1	02/21/22 15:18	02/22/22 18:19	194-59-2	
Acenaphthene	**<0.011**	ug/L	0.041	0.011	1	02/21/22 15:18	02/22/22 18:19	83-32-9	
Acenaphthylene	**<0.011**	ug/L	0.041	0.011	1	02/21/22 15:18	02/22/22 18:19	208-96-8	
Anthracene	**<0.0078**	ug/L	0.041	0.0078	1	02/21/22 15:18	02/22/22 18:19	120-12-7	
Benzo(a)anthracene	**<0.016**	ug/L	0.041	0.016	1	02/21/22 15:18	02/22/22 18:19	56-55-3	
Benzo(a)pyrene	**<0.012**	ug/L	0.041	0.012	1	02/21/22 15:18	02/22/22 18:19	50-32-8	
Benzo(e)pyrene	**<0.014**	ug/L	0.041	0.014	1	02/21/22 15:18	02/22/22 18:19	192-97-2	
Benzo(g,h,i)perylene	**<0.016**	ug/L	0.041	0.016	1	02/21/22 15:18	02/22/22 18:19	191-24-2	
Benzofluoranthenes (Total)	**<0.026**	ug/L	0.12	0.026	1	02/21/22 15:18	02/22/22 18:19		N2
Carbazole	**<0.015**	ug/L	0.041	0.015	1	02/21/22 15:18	02/22/22 18:19	86-74-8	
Chrysene	**<0.015**	ug/L	0.041	0.015	1	02/21/22 15:18	02/22/22 18:19	218-01-9	
Dibenz(a,h)acridine	**<0.014**	ug/L	0.041	0.014	1	02/21/22 15:18	02/22/22 18:19	226-36-8	
Dibenz(a,h)anthracene	**<0.016**	ug/L	0.041	0.016	1	02/21/22 15:18	02/22/22 18:19	53-70-3	
Dibenz(a,j)acridine	**<0.016**	ug/L	0.041	0.016	1	02/21/22 15:18	02/22/22 18:19	224-42-0	
Dibenzo(a,e)pyrene	**<0.011**	ug/L	0.041	0.011	1	02/21/22 15:18	02/22/22 18:19	192-65-4	
Dibenzo(a,h)pyrene	**<0.0097**	ug/L	0.041	0.0097	1	02/21/22 15:18	02/22/22 18:19	189-64-0	
Dibenzo(a,i)pyrene	**<0.013**	ug/L	0.041	0.013	1	02/21/22 15:18	02/22/22 18:19	189-55-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
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ANALYTICAL RESULTS

Project: Z076000082 P66 Westlake-Revised Report
Pace Project No.: 10598112

Sample: MW-214 **Lab ID: 10598112006** Collected: 02/17/22 12:20 Received: 02/19/22 11:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV CPAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA Mod. 3510C Pace Analytical Services - Minneapolis								
Dibenzo(a,l)pyrene	**<0.017**	ug/L	0.041	0.017	1	02/21/22 15:18	02/22/22 18:19	191-30-0	
Dibenzofuran	**<0.018**	ug/L	0.041	0.018	1	02/21/22 15:18	02/22/22 18:19	132-64-9	
Fluoranthene	**<0.018**	ug/L	0.041	0.018	1	02/21/22 15:18	02/22/22 18:19	206-44-0	L2
Fluorene	**<0.010**	ug/L	0.041	0.010	1	02/21/22 15:18	02/22/22 18:19	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.016**	ug/L	0.041	0.016	1	02/21/22 15:18	02/22/22 18:19	193-39-5	
Naphthalene	**<0.016**	ug/L	0.041	0.016	1	02/21/22 15:18	02/22/22 18:19	91-20-3	
Perylene	**<0.011**	ug/L	0.041	0.011	1	02/21/22 15:18	02/22/22 18:19	198-55-0	
Phenanthrene	**<0.016**	ug/L	0.041	0.016	1	02/21/22 15:18	02/22/22 18:19	85-01-8	
Pyrene	**<0.014**	ug/L	0.041	0.014	1	02/21/22 15:18	02/22/22 18:19	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	67	%.	52-125		1	02/21/22 15:18	02/22/22 18:19	321-60-8	
p-Terphenyl-d14 (S)	83	%.	51-125		1	02/21/22 15:18	02/22/22 18:19	1718-51-0	
8260D MSV UST	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis								
Benzene	**<0.10**	ug/L	1.0	0.10	1		02/21/22 16:59	71-43-2	
Ethylbenzene	**<0.11**	ug/L	1.0	0.11	1		02/21/22 16:59	100-41-4	
Methyl-tert-butyl ether	**<0.13**	ug/L	1.0	0.13	1		02/21/22 16:59	1634-04-4	
Toluene	**<0.10**	ug/L	1.0	0.10	1		02/21/22 16:59	108-88-3	
Xylene (Total)	**<0.20**	ug/L	3.0	0.20	1		02/21/22 16:59	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	98	%.	75-125		1		02/21/22 16:59	2199-69-1	
4-Bromofluorobenzene (S)	94	%.	75-125		1		02/21/22 16:59	460-00-4	
Toluene-d8 (S)	101	%.	75-125		1		02/21/22 16:59	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Z076000082 P66 Westlake-Revised Report
Pace Project No.: 10598112

Sample: MW-215 **Lab ID: 10598112007** Collected: 02/17/22 14:15 Received: 02/19/22 11:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx Pace Analytical Services - Minneapolis								
TPH as Gas	**<13.4**	ug/L	100	13.4	1		02/23/22 16:44		G-
Surrogates									
a,a,a-Trifluorotoluene (S)	72	%.	50-150		1		02/23/22 16:44	98-08-8	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Minneapolis								
Arsenic	**2.5**	ug/L	0.50	0.083	1	02/22/22 05:03	02/22/22 13:29	7440-38-2	
Barium	**55.6**	ug/L	0.30	0.055	1	02/22/22 05:03	02/22/22 13:29	7440-39-3	
Chromium	**1.3**	ug/L	0.50	0.25	1	02/22/22 05:03	02/22/22 13:29	7440-47-3	
Lead	**0.41**	ug/L	0.10	0.028	1	02/22/22 05:03	02/22/22 13:29	7439-92-1	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Minneapolis								
Arsenic, Dissolved	**1.9**	ug/L	0.50	0.083	1	02/22/22 05:03	02/23/22 22:18	7440-38-2	
Barium, Dissolved	**48.0**	ug/L	0.30	0.055	1	02/22/22 05:03	02/23/22 22:18	7440-39-3	
Chromium, Dissolved	**0.70**	ug/L	0.50	0.25	1	02/22/22 05:03	02/23/22 22:18	7440-47-3	
Lead, Dissolved	**0.11**	ug/L	0.10	0.028	1	02/22/22 05:03	02/23/22 22:18	7439-92-1	
8270E MSSV CPAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA Mod. 3510C Pace Analytical Services - Minneapolis								
1-Methylnaphthalene	**<0.0079**	ug/L	0.038	0.0079	1	02/21/22 15:18	02/22/22 18:49	90-12-0	
2-Chloronaphthalene	**<0.017**	ug/L	0.038	0.017	1	02/21/22 15:18	02/22/22 18:49	91-58-7	
2-Methylnaphthalene	**<0.015**	ug/L	0.038	0.015	1	02/21/22 15:18	02/22/22 18:49	91-57-6	
3-Methylcholanthrene	**<0.010**	ug/L	0.038	0.010	1	02/21/22 15:18	02/22/22 18:49	56-49-5	
5-Methylchrysene	**<0.0063**	ug/L	0.038	0.0063	1	02/21/22 15:18	02/22/22 18:49	3697-24-3	
5-Nitroacenaphthene	**<0.015**	ug/L	0.038	0.015	1	02/21/22 15:18	02/22/22 18:49	602-87-9	
6-Nitrochrysene	**<0.10**	ug/L	0.29	0.10	1	02/21/22 15:18	02/22/22 18:49	7496-02-8	
7,12-Dimethylbenz(a)anthracene	**<0.032**	ug/L	0.095	0.032	1	02/21/22 15:18	02/22/22 18:49	57-97-6	
7H-Dibenzo(c,g)carbazole	**<0.030**	ug/L	0.095	0.030	1	02/21/22 15:18	02/22/22 18:49	194-59-2	
Acenaphthene	**<0.010**	ug/L	0.038	0.010	1	02/21/22 15:18	02/22/22 18:49	83-32-9	
Acenaphthylene	**<0.010**	ug/L	0.038	0.010	1	02/21/22 15:18	02/22/22 18:49	208-96-8	
Anthracene	**<0.0073**	ug/L	0.038	0.0073	1	02/21/22 15:18	02/22/22 18:49	120-12-7	
Benzo(a)anthracene	**<0.015**	ug/L	0.038	0.015	1	02/21/22 15:18	02/22/22 18:49	56-55-3	
Benzo(a)pyrene	**<0.011**	ug/L	0.038	0.011	1	02/21/22 15:18	02/22/22 18:49	50-32-8	
Benzo(e)pyrene	**<0.013**	ug/L	0.038	0.013	1	02/21/22 15:18	02/22/22 18:49	192-97-2	
Benzo(g,h,i)perylene	**<0.015**	ug/L	0.038	0.015	1	02/21/22 15:18	02/22/22 18:49	191-24-2	
Benzofluoranthenes (Total)	**<0.024**	ug/L	0.11	0.024	1	02/21/22 15:18	02/22/22 18:49		N2
Carbazole	**<0.014**	ug/L	0.038	0.014	1	02/21/22 15:18	02/22/22 18:49	86-74-8	
Chrysene	**<0.014**	ug/L	0.038	0.014	1	02/21/22 15:18	02/22/22 18:49	218-01-9	
Dibenz(a,h)acridine	**<0.013**	ug/L	0.038	0.013	1	02/21/22 15:18	02/22/22 18:49	226-36-8	
Dibenz(a,h)anthracene	**<0.015**	ug/L	0.038	0.015	1	02/21/22 15:18	02/22/22 18:49	53-70-3	
Dibenz(a,j)acridine	**<0.015**	ug/L	0.038	0.015	1	02/21/22 15:18	02/22/22 18:49	224-42-0	
Dibenzo(a,e)pyrene	**<0.010**	ug/L	0.038	0.010	1	02/21/22 15:18	02/22/22 18:49	192-65-4	
Dibenzo(a,h)pyrene	**<0.0090**	ug/L	0.038	0.0090	1	02/21/22 15:18	02/22/22 18:49	189-64-0	
Dibenzo(a,i)pyrene	**<0.012**	ug/L	0.038	0.012	1	02/21/22 15:18	02/22/22 18:49	189-55-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: Z076000082 P66 Westlake-Revised Report
Pace Project No.: 10598112

Sample: MW-215 **Lab ID: 10598112007** Collected: 02/17/22 14:15 Received: 02/19/22 11:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV CPAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA Mod. 3510C Pace Analytical Services - Minneapolis								
Dibenzo(a,l)pyrene	**<0.016**	ug/L	0.038	0.016	1	02/21/22 15:18	02/22/22 18:49	191-30-0	
Dibenzofuran	**<0.016**	ug/L	0.038	0.016	1	02/21/22 15:18	02/22/22 18:49	132-64-9	
Fluoranthene	**<0.016**	ug/L	0.038	0.016	1	02/21/22 15:18	02/22/22 18:49	206-44-0	L2
Fluorene	**<0.0093**	ug/L	0.038	0.0093	1	02/21/22 15:18	02/22/22 18:49	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.015**	ug/L	0.038	0.015	1	02/21/22 15:18	02/22/22 18:49	193-39-5	
Naphthalene	**<0.015**	ug/L	0.038	0.015	1	02/21/22 15:18	02/22/22 18:49	91-20-3	
Perylene	**<0.010**	ug/L	0.038	0.010	1	02/21/22 15:18	02/22/22 18:49	198-55-0	
Phenanthrene	**<0.015**	ug/L	0.038	0.015	1	02/21/22 15:18	02/22/22 18:49	85-01-8	
Pyrene	**<0.013**	ug/L	0.038	0.013	1	02/21/22 15:18	02/22/22 18:49	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	49	%.	52-125		1	02/21/22 15:18	02/22/22 18:49	321-60-8	C6,S0
p-Terphenyl-d14 (S)	57	%.	51-125		1	02/21/22 15:18	02/22/22 18:49	1718-51-0	
8260D MSV UST	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis								
Benzene	**<0.10**	ug/L	1.0	0.10	1		02/21/22 17:13	71-43-2	
Ethylbenzene	**<0.11**	ug/L	1.0	0.11	1		02/21/22 17:13	100-41-4	
Methyl-tert-butyl ether	**<0.13**	ug/L	1.0	0.13	1		02/21/22 17:13	1634-04-4	
Toluene	**<0.10**	ug/L	1.0	0.10	1		02/21/22 17:13	108-88-3	
Xylene (Total)	**<0.20**	ug/L	3.0	0.20	1		02/21/22 17:13	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	99	%.	75-125		1		02/21/22 17:13	2199-69-1	
4-Bromofluorobenzene (S)	94	%.	75-125		1		02/21/22 17:13	460-00-4	
Toluene-d8 (S)	99	%.	75-125		1		02/21/22 17:13	2037-26-5	

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ANALYTICAL RESULTS

Project: Z076000082 P66 Westlake-Revised Report
Pace Project No.: 10598112

Sample: MW-216 **Lab ID: 10598112008** Collected: 02/16/22 11:05 Received: 02/19/22 11:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx Pace Analytical Services - Minneapolis								
TPH as Gas	**<13.4**	ug/L	100	13.4	1		02/23/22 13:11		
Surrogates									
a,a,a-Trifluorotoluene (S)	69	%.	50-150		1		02/23/22 13:11	98-08-8	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Minneapolis								
Arsenic	**2.6**	ug/L	0.50	0.083	1	02/22/22 05:03	02/22/22 13:43	7440-38-2	
Barium	**47.1**	ug/L	0.30	0.055	1	02/22/22 05:03	02/22/22 13:43	7440-39-3	
Chromium	**1.4**	ug/L	0.50	0.25	1	02/22/22 05:03	02/22/22 13:43	7440-47-3	
Lead	**0.29**	ug/L	0.10	0.028	1	02/22/22 05:03	02/22/22 13:43	7439-92-1	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Minneapolis								
Arsenic, Dissolved	**1.9**	ug/L	0.50	0.083	1	02/22/22 05:03	02/23/22 22:25	7440-38-2	
Barium, Dissolved	**42.6**	ug/L	0.30	0.055	1	02/22/22 05:03	02/23/22 22:25	7440-39-3	
Chromium, Dissolved	**1.1**	ug/L	0.50	0.25	1	02/22/22 05:03	02/23/22 22:25	7440-47-3	
Lead, Dissolved	**0.10**	ug/L	0.10	0.028	1	02/22/22 05:03	02/23/22 22:25	7439-92-1	
8270E MSSV CPAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA Mod. 3510C Pace Analytical Services - Minneapolis								
1-Methylnaphthalene	**<0.0088**	ug/L	0.043	0.0088	1	02/21/22 15:18	02/22/22 19:19	90-12-0	
2-Chloronaphthalene	**<0.019**	ug/L	0.043	0.019	1	02/21/22 15:18	02/22/22 19:19	91-58-7	
2-Methylnaphthalene	**<0.016**	ug/L	0.043	0.016	1	02/21/22 15:18	02/22/22 19:19	91-57-6	
3-Methylcholanthrene	**<0.012**	ug/L	0.043	0.012	1	02/21/22 15:18	02/22/22 19:19	56-49-5	
5-Methylchrysene	**<0.0071**	ug/L	0.043	0.0071	1	02/21/22 15:18	02/22/22 19:19	3697-24-3	
5-Nitroacenaphthene	**<0.016**	ug/L	0.043	0.016	1	02/21/22 15:18	02/22/22 19:19	602-87-9	
6-Nitrochrysene	**<0.11**	ug/L	0.32	0.11	1	02/21/22 15:18	02/22/22 19:19	7496-02-8	
7,12-Dimethylbenz(a)anthracene	**<0.036**	ug/L	0.11	0.036	1	02/21/22 15:18	02/22/22 19:19	57-97-6	
7H-Dibenzo(c,g)carbazole	**<0.034**	ug/L	0.11	0.034	1	02/21/22 15:18	02/22/22 19:19	194-59-2	
Acenaphthene	**<0.012**	ug/L	0.043	0.012	1	02/21/22 15:18	02/22/22 19:19	83-32-9	
Acenaphthylene	**<0.011**	ug/L	0.043	0.011	1	02/21/22 15:18	02/22/22 19:19	208-96-8	
Anthracene	**<0.0081**	ug/L	0.043	0.0081	1	02/21/22 15:18	02/22/22 19:19	120-12-7	
Benzo(a)anthracene	**<0.017**	ug/L	0.043	0.017	1	02/21/22 15:18	02/22/22 19:19	56-55-3	
Benzo(a)pyrene	**<0.013**	ug/L	0.043	0.013	1	02/21/22 15:18	02/22/22 19:19	50-32-8	
Benzo(e)pyrene	**<0.015**	ug/L	0.043	0.015	1	02/21/22 15:18	02/22/22 19:19	192-97-2	
Benzo(g,h,i)perylene	**<0.017**	ug/L	0.043	0.017	1	02/21/22 15:18	02/22/22 19:19	191-24-2	
Benzofluoranthenes (Total)	**<0.027**	ug/L	0.13	0.027	1	02/21/22 15:18	02/22/22 19:19		N2
Carbazole	**0.059**	ug/L	0.043	0.015	1	02/21/22 15:18	02/22/22 19:19	86-74-8	
Chrysene	**<0.016**	ug/L	0.043	0.016	1	02/21/22 15:18	02/22/22 19:19	218-01-9	
Dibenz(a,h)acridine	**<0.015**	ug/L	0.043	0.015	1	02/21/22 15:18	02/22/22 19:19	226-36-8	
Dibenz(a,h)anthracene	**<0.017**	ug/L	0.043	0.017	1	02/21/22 15:18	02/22/22 19:19	53-70-3	
Dibenz(a,j)acridine	**<0.017**	ug/L	0.043	0.017	1	02/21/22 15:18	02/22/22 19:19	224-42-0	
Dibenzo(a,e)pyrene	**<0.011**	ug/L	0.043	0.011	1	02/21/22 15:18	02/22/22 19:19	192-65-4	
Dibenzo(a,h)pyrene	**<0.010**	ug/L	0.043	0.010	1	02/21/22 15:18	02/22/22 19:19	189-64-0	
Dibenzo(a,i)pyrene	**<0.014**	ug/L	0.043	0.014	1	02/21/22 15:18	02/22/22 19:19	189-55-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: Z076000082 P66 Westlake-Revised Report
Pace Project No.: 10598112

Sample: MW-216 **Lab ID: 10598112008** Collected: 02/16/22 11:05 Received: 02/19/22 11:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV CPAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA Mod. 3510C Pace Analytical Services - Minneapolis								
Dibenzo(a,l)pyrene	**<0.018**	ug/L	0.043	0.018	1	02/21/22 15:18	02/22/22 19:19	191-30-0	
Dibenzofuran	**<0.018**	ug/L	0.043	0.018	1	02/21/22 15:18	02/22/22 19:19	132-64-9	
Fluoranthene	**<0.018**	ug/L	0.043	0.018	1	02/21/22 15:18	02/22/22 19:19	206-44-0	L2
Fluorene	**<0.010**	ug/L	0.043	0.010	1	02/21/22 15:18	02/22/22 19:19	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.017**	ug/L	0.043	0.017	1	02/21/22 15:18	02/22/22 19:19	193-39-5	
Naphthalene	**<0.017**	ug/L	0.043	0.017	1	02/21/22 15:18	02/22/22 19:19	91-20-3	
Perylene	**<0.012**	ug/L	0.043	0.012	1	02/21/22 15:18	02/22/22 19:19	198-55-0	
Phenanthrene	**<0.016**	ug/L	0.043	0.016	1	02/21/22 15:18	02/22/22 19:19	85-01-8	
Pyrene	**<0.014**	ug/L	0.043	0.014	1	02/21/22 15:18	02/22/22 19:19	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	56	%.	52-125		1	02/21/22 15:18	02/22/22 19:19	321-60-8	
p-Terphenyl-d14 (S)	70	%.	51-125		1	02/21/22 15:18	02/22/22 19:19	1718-51-0	
8260D MSV UST	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis								
Benzene	**0.22J**	ug/L	1.0	0.10	1		02/21/22 17:27	71-43-2	
Ethylbenzene	**<0.11**	ug/L	1.0	0.11	1		02/21/22 17:27	100-41-4	
Methyl-tert-butyl ether	**<0.13**	ug/L	1.0	0.13	1		02/21/22 17:27	1634-04-4	
Toluene	**<0.10**	ug/L	1.0	0.10	1		02/21/22 17:27	108-88-3	
Xylene (Total)	**<0.20**	ug/L	3.0	0.20	1		02/21/22 17:27	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	96	%.	75-125		1		02/21/22 17:27	2199-69-1	
4-Bromofluorobenzene (S)	95	%.	75-125		1		02/21/22 17:27	460-00-4	
Toluene-d8 (S)	101	%.	75-125		1		02/21/22 17:27	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
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ANALYTICAL RESULTS

Project: Z076000082 P66 Westlake-Revised Report
Pace Project No.: 10598112

Sample: MW-217 **Lab ID: 10598112009** Collected: 02/16/22 12:20 Received: 02/19/22 11:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx Pace Analytical Services - Minneapolis								
TPH as Gas	**110**	ug/L	100	13.4	1		02/23/22 13:42		G-
Surrogates									
a,a,a-Trifluorotoluene (S)	76	%.	50-150		1		02/23/22 13:42	98-08-8	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Minneapolis								
Arsenic	**1.4**	ug/L	0.50	0.083	1	02/22/22 05:03	02/22/22 13:50	7440-38-2	
Barium	**157**	ug/L	0.30	0.055	1	02/22/22 05:03	02/22/22 13:50	7440-39-3	
Chromium	**1.4**	ug/L	0.50	0.25	1	02/22/22 05:03	02/22/22 13:50	7440-47-3	
Lead	**1.4**	ug/L	0.10	0.028	1	02/22/22 05:03	02/22/22 13:50	7439-92-1	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Minneapolis								
Arsenic, Dissolved	**1.1**	ug/L	0.50	0.083	1	02/22/22 05:03	02/23/22 22:28	7440-38-2	
Barium, Dissolved	**137**	ug/L	0.30	0.055	1	02/22/22 05:03	02/23/22 22:28	7440-39-3	
Chromium, Dissolved	**1.2**	ug/L	0.50	0.25	1	02/22/22 05:03	02/23/22 22:28	7440-47-3	
Lead, Dissolved	**0.23**	ug/L	0.10	0.028	1	02/22/22 05:03	02/23/22 22:28	7439-92-1	
8270E MSSV CPAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA Mod. 3510C Pace Analytical Services - Minneapolis								
1-Methylnaphthalene	**0.017J**	ug/L	0.042	0.0087	1	02/21/22 15:18	02/22/22 19:50	90-12-0	
2-Chloronaphthalene	**<0.019**	ug/L	0.042	0.019	1	02/21/22 15:18	02/22/22 19:50	91-58-7	
2-Methylnaphthalene	**<0.016**	ug/L	0.042	0.016	1	02/21/22 15:18	02/22/22 19:50	91-57-6	
3-Methylcholanthrene	**<0.011**	ug/L	0.042	0.011	1	02/21/22 15:18	02/22/22 19:50	56-49-5	
5-Methylchrysene	**<0.0070**	ug/L	0.042	0.0070	1	02/21/22 15:18	02/22/22 19:50	3697-24-3	
5-Nitroacenaphthene	**<0.016**	ug/L	0.042	0.016	1	02/21/22 15:18	02/22/22 19:50	602-87-9	
6-Nitrochrysene	**<0.11**	ug/L	0.32	0.11	1	02/21/22 15:18	02/22/22 19:50	7496-02-8	
7,12-Dimethylbenz(a)anthracene	**<0.036**	ug/L	0.11	0.036	1	02/21/22 15:18	02/22/22 19:50	57-97-6	
7H-Dibenzo(c,g)carbazole	**<0.033**	ug/L	0.11	0.033	1	02/21/22 15:18	02/22/22 19:50	194-59-2	
Acenaphthene	**0.20**	ug/L	0.042	0.012	1	02/21/22 15:18	02/22/22 19:50	83-32-9	
Acenaphthylene	**<0.011**	ug/L	0.042	0.011	1	02/21/22 15:18	02/22/22 19:50	208-96-8	
Anthracene	**<0.0081**	ug/L	0.042	0.0081	1	02/21/22 15:18	02/22/22 19:50	120-12-7	
Benzo(a)anthracene	**<0.017**	ug/L	0.042	0.017	1	02/21/22 15:18	02/22/22 19:50	56-55-3	
Benzo(a)pyrene	**<0.012**	ug/L	0.042	0.012	1	02/21/22 15:18	02/22/22 19:50	50-32-8	
Benzo(e)pyrene	**<0.015**	ug/L	0.042	0.015	1	02/21/22 15:18	02/22/22 19:50	192-97-2	
Benzo(g,h,i)perylene	**<0.017**	ug/L	0.042	0.017	1	02/21/22 15:18	02/22/22 19:50	191-24-2	
Benzofluoranthenes (Total)	**<0.027**	ug/L	0.13	0.027	1	02/21/22 15:18	02/22/22 19:50		N2
Carbazole	**<0.015**	ug/L	0.042	0.015	1	02/21/22 15:18	02/22/22 19:50	86-74-8	
Chrysene	**<0.015**	ug/L	0.042	0.015	1	02/21/22 15:18	02/22/22 19:50	218-01-9	
Dibenz(a,h)acridine	**<0.015**	ug/L	0.042	0.015	1	02/21/22 15:18	02/22/22 19:50	226-36-8	
Dibenz(a,h)anthracene	**<0.017**	ug/L	0.042	0.017	1	02/21/22 15:18	02/22/22 19:50	53-70-3	
Dibenz(a,j)acridine	**<0.017**	ug/L	0.042	0.017	1	02/21/22 15:18	02/22/22 19:50	224-42-0	
Dibenzo(a,e)pyrene	**<0.011**	ug/L	0.042	0.011	1	02/21/22 15:18	02/22/22 19:50	192-65-4	
Dibenzo(a,h)pyrene	**<0.010**	ug/L	0.042	0.010	1	02/21/22 15:18	02/22/22 19:50	189-64-0	
Dibenzo(a,i)pyrene	**<0.013**	ug/L	0.042	0.013	1	02/21/22 15:18	02/22/22 19:50	189-55-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: Z076000082 P66 Westlake-Revised Report
Pace Project No.: 10598112

Sample: MW-217 **Lab ID: 10598112009** Collected: 02/16/22 12:20 Received: 02/19/22 11:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV CPAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA Mod. 3510C Pace Analytical Services - Minneapolis								
Dibenzo(a,l)pyrene	**<0.018**	ug/L	0.042	0.018	1	02/21/22 15:18	02/22/22 19:50	191-30-0	
Dibenzofuran	**<0.018**	ug/L	0.042	0.018	1	02/21/22 15:18	02/22/22 19:50	132-64-9	
Fluoranthene	**<0.018**	ug/L	0.042	0.018	1	02/21/22 15:18	02/22/22 19:50	206-44-0	L2
Fluorene	**0.047**	ug/L	0.042	0.010	1	02/21/22 15:18	02/22/22 19:50	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.017**	ug/L	0.042	0.017	1	02/21/22 15:18	02/22/22 19:50	193-39-5	
Naphthalene	**0.24**	ug/L	0.042	0.017	1	02/21/22 15:18	02/22/22 19:50	91-20-3	
Perylene	**<0.012**	ug/L	0.042	0.012	1	02/21/22 15:18	02/22/22 19:50	198-55-0	
Phenanthrene	**<0.016**	ug/L	0.042	0.016	1	02/21/22 15:18	02/22/22 19:50	85-01-8	
Pyrene	**<0.014**	ug/L	0.042	0.014	1	02/21/22 15:18	02/22/22 19:50	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	67	%.	52-125		1	02/21/22 15:18	02/22/22 19:50	321-60-8	
p-Terphenyl-d14 (S)	75	%.	51-125		1	02/21/22 15:18	02/22/22 19:50	1718-51-0	
8260D MSV UST	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis								
Benzene	**<0.10**	ug/L	1.0	0.10	1		02/21/22 17:42	71-43-2	
Ethylbenzene	**<0.11**	ug/L	1.0	0.11	1		02/21/22 17:42	100-41-4	
Methyl-tert-butyl ether	**<0.13**	ug/L	1.0	0.13	1		02/21/22 17:42	1634-04-4	
Toluene	**<0.10**	ug/L	1.0	0.10	1		02/21/22 17:42	108-88-3	
Xylene (Total)	**<0.20**	ug/L	3.0	0.20	1		02/21/22 17:42	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	97	%.	75-125		1		02/21/22 17:42	2199-69-1	
4-Bromofluorobenzene (S)	95	%.	75-125		1		02/21/22 17:42	460-00-4	
Toluene-d8 (S)	100	%.	75-125		1		02/21/22 17:42	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Z076000082 P66 Westlake-Revised Report
Pace Project No.: 10598112

Sample: MW-218 **Lab ID: 10598112010** Collected: 02/16/22 13:15 Received: 02/19/22 11:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx Pace Analytical Services - Minneapolis								
TPH as Gas	**126**	ug/L	100	13.4	1		02/23/22 14:27		G-
Surrogates									
a,a,a-Trifluorotoluene (S)	75	%.	50-150		1		02/23/22 14:27	98-08-8	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Minneapolis								
Arsenic	**1.4**	ug/L	0.50	0.083	1	02/22/22 05:03	02/22/22 13:56	7440-38-2	
Barium	**141**	ug/L	0.30	0.055	1	02/22/22 05:03	02/22/22 13:56	7440-39-3	
Chromium	**0.94**	ug/L	0.50	0.25	1	02/22/22 05:03	02/22/22 13:56	7440-47-3	
Lead	**0.20**	ug/L	0.10	0.028	1	02/22/22 05:03	02/22/22 13:56	7439-92-1	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Minneapolis								
Arsenic, Dissolved	**0.84**	ug/L	0.50	0.083	1	02/22/22 05:03	02/23/22 22:31	7440-38-2	
Barium, Dissolved	**121**	ug/L	0.30	0.055	1	02/22/22 05:03	02/23/22 22:31	7440-39-3	
Chromium, Dissolved	**0.59**	ug/L	0.50	0.25	1	02/22/22 05:03	02/23/22 22:31	7440-47-3	
Lead, Dissolved	**<0.028**	ug/L	0.10	0.028	1	02/22/22 05:03	02/23/22 22:31	7439-92-1	
8270E MSSV CPAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA Mod. 3510C Pace Analytical Services - Minneapolis								
1-Methylnaphthalene	**0.016J**	ug/L	0.040	0.0082	1	02/21/22 15:18	02/22/22 20:20	90-12-0	
2-Chloronaphthalene	**<0.018**	ug/L	0.040	0.018	1	02/21/22 15:18	02/22/22 20:20	91-58-7	
2-Methylnaphthalene	**<0.015**	ug/L	0.040	0.015	1	02/21/22 15:18	02/22/22 20:20	91-57-6	
3-Methylcholanthrene	**<0.011**	ug/L	0.040	0.011	1	02/21/22 15:18	02/22/22 20:20	56-49-5	
5-Methylchrysene	**<0.0066**	ug/L	0.040	0.0066	1	02/21/22 15:18	02/22/22 20:20	3697-24-3	
5-Nitroacenaphthene	**<0.015**	ug/L	0.040	0.015	1	02/21/22 15:18	02/22/22 20:20	602-87-9	
6-Nitrochrysene	**<0.11**	ug/L	0.30	0.11	1	02/21/22 15:18	02/22/22 20:20	7496-02-8	
7,12-Dimethylbenz(a)anthracene	**<0.034**	ug/L	0.099	0.034	1	02/21/22 15:18	02/22/22 20:20	57-97-6	
7H-Dibenzo(c,g)carbazole	**<0.031**	ug/L	0.099	0.031	1	02/21/22 15:18	02/22/22 20:20	194-59-2	
Acenaphthene	**0.014J**	ug/L	0.040	0.011	1	02/21/22 15:18	02/22/22 20:20	83-32-9	
Acenaphthylene	**<0.011**	ug/L	0.040	0.011	1	02/21/22 15:18	02/22/22 20:20	208-96-8	
Anthracene	**<0.0076**	ug/L	0.040	0.0076	1	02/21/22 15:18	02/22/22 20:20	120-12-7	
Benzo(a)anthracene	**<0.016**	ug/L	0.040	0.016	1	02/21/22 15:18	02/22/22 20:20	56-55-3	
Benzo(a)pyrene	**<0.012**	ug/L	0.040	0.012	1	02/21/22 15:18	02/22/22 20:20	50-32-8	
Benzo(e)pyrene	**<0.014**	ug/L	0.040	0.014	1	02/21/22 15:18	02/22/22 20:20	192-97-2	
Benzo(g,h,i)perylene	**<0.016**	ug/L	0.040	0.016	1	02/21/22 15:18	02/22/22 20:20	191-24-2	
Benzofluoranthenes (Total)	**<0.025**	ug/L	0.12	0.025	1	02/21/22 15:18	02/22/22 20:20		N2
Carbazole	**<0.014**	ug/L	0.040	0.014	1	02/21/22 15:18	02/22/22 20:20	86-74-8	
Chrysene	**<0.015**	ug/L	0.040	0.015	1	02/21/22 15:18	02/22/22 20:20	218-01-9	
Dibenz(a,h)acridine	**<0.014**	ug/L	0.040	0.014	1	02/21/22 15:18	02/22/22 20:20	226-36-8	
Dibenz(a,h)anthracene	**<0.016**	ug/L	0.040	0.016	1	02/21/22 15:18	02/22/22 20:20	53-70-3	
Dibenz(a,j)acridine	**<0.016**	ug/L	0.040	0.016	1	02/21/22 15:18	02/22/22 20:20	224-42-0	
Dibenzo(a,e)pyrene	**<0.010**	ug/L	0.040	0.010	1	02/21/22 15:18	02/22/22 20:20	192-65-4	
Dibenzo(a,h)pyrene	**<0.0094**	ug/L	0.040	0.0094	1	02/21/22 15:18	02/22/22 20:20	189-64-0	
Dibenzo(a,i)pyrene	**<0.013**	ug/L	0.040	0.013	1	02/21/22 15:18	02/22/22 20:20	189-55-9	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Z076000082 P66 Westlake-Revised Report
Pace Project No.: 10598112

Sample: MW-218 **Lab ID: 10598112010** Collected: 02/16/22 13:15 Received: 02/19/22 11:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270E MSSV CPAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA Mod. 3510C Pace Analytical Services - Minneapolis								
Dibenzo(a,l)pyrene	**<0.017**	ug/L	0.040	0.017	1	02/21/22 15:18	02/22/22 20:20	191-30-0	
Dibenzofuran	**<0.017**	ug/L	0.040	0.017	1	02/21/22 15:18	02/22/22 20:20	132-64-9	
Fluoranthene	**<0.017**	ug/L	0.040	0.017	1	02/21/22 15:18	02/22/22 20:20	206-44-0	L2
Fluorene	**<0.0097**	ug/L	0.040	0.0097	1	02/21/22 15:18	02/22/22 20:20	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.016**	ug/L	0.040	0.016	1	02/21/22 15:18	02/22/22 20:20	193-39-5	
Naphthalene	**<0.016**	ug/L	0.040	0.016	1	02/21/22 15:18	02/22/22 20:20	91-20-3	
Perylene	**<0.011**	ug/L	0.040	0.011	1	02/21/22 15:18	02/22/22 20:20	198-55-0	
Phenanthrene	**<0.015**	ug/L	0.040	0.015	1	02/21/22 15:18	02/22/22 20:20	85-01-8	
Pyrene	**<0.013**	ug/L	0.040	0.013	1	02/21/22 15:18	02/22/22 20:20	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	72	%.	52-125		1	02/21/22 15:18	02/22/22 20:20	321-60-8	
p-Terphenyl-d14 (S)	68	%.	51-125		1	02/21/22 15:18	02/22/22 20:20	1718-51-0	
8260D MSV UST	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis								
Benzene	**<0.10**	ug/L	1.0	0.10	1		02/21/22 17:56	71-43-2	
Ethylbenzene	**<0.11**	ug/L	1.0	0.11	1		02/21/22 17:56	100-41-4	
Methyl-tert-butyl ether	**<0.13**	ug/L	1.0	0.13	1		02/21/22 17:56	1634-04-4	
Toluene	**<0.10**	ug/L	1.0	0.10	1		02/21/22 17:56	108-88-3	
Xylene (Total)	**<0.20**	ug/L	3.0	0.20	1		02/21/22 17:56	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	96	%.	75-125		1		02/21/22 17:56	2199-69-1	
4-Bromofluorobenzene (S)	94	%.	75-125		1		02/21/22 17:56	460-00-4	
Toluene-d8 (S)	102	%.	75-125		1		02/21/22 17:56	2037-26-5	

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ANALYTICAL RESULTS

Project: Z076000082 P66 Westlake-Revised Report
Pace Project No.: 10598112

Sample: Trip Blank **Lab ID: 10598112011** Collected: 02/16/22 00:00 Received: 02/19/22 11:05 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx Pace Analytical Services - Minneapolis								
TPH as Gas	**<13.4**	ug/L	100	13.4	1		02/23/22 14:42		
Surrogates									
a,a,a-Trifluorotoluene (S)	65	%.	50-150		1		02/23/22 14:42	98-08-8	
8260D MSV UST	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis								
Benzene	**<0.10**	ug/L	1.0	0.10	1		02/21/22 16:15	71-43-2	
Ethylbenzene	**<0.11**	ug/L	1.0	0.11	1		02/21/22 16:15	100-41-4	
Methyl-tert-butyl ether	**<0.13**	ug/L	1.0	0.13	1		02/21/22 16:15	1634-04-4	
Toluene	**<0.10**	ug/L	1.0	0.10	1		02/21/22 16:15	108-88-3	
Xylene (Total)	**<0.20**	ug/L	3.0	0.20	1		02/21/22 16:15	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	97	%.	75-125		1		02/21/22 16:15	2199-69-1	
4-Bromofluorobenzene (S)	94	%.	75-125		1		02/21/22 16:15	460-00-4	
Toluene-d8 (S)	100	%.	75-125		1		02/21/22 16:15	2037-26-5	

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QUALITY CONTROL DATA

Project: Z076000082 P66 Westlake-Revised Report
Pace Project No.: 10598112

QC Batch: 800270
QC Batch Method: NWTPH-Gx
Analysis Method: NWTPH-Gx
Analysis Description: NWTPH-Gx Water
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10598112001, 10598112002, 10598112003, 10598112004, 10598112005, 10598112006, 10598112007, 10598112008, 10598112009, 10598112010, 10598112011

METHOD BLANK: 4250647 Matrix: Water
Associated Lab Samples: 10598112001, 10598112002, 10598112003, 10598112004, 10598112005, 10598112006, 10598112007, 10598112008, 10598112009, 10598112010, 10598112011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
TPH as Gas	ug/L	<13.4	100	13.4	02/23/22 11:55	
a,a,a-Trifluorotoluene (S)	%.	70	50-150		02/23/22 11:55	

METHOD BLANK: 4250648 Matrix: Water
Associated Lab Samples: 10598112001, 10598112002, 10598112003, 10598112004, 10598112005, 10598112006, 10598112007, 10598112008, 10598112009, 10598112010, 10598112011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
TPH as Gas	ug/L	<13.4	100	13.4	02/23/22 14:12	
a,a,a-Trifluorotoluene (S)	%.	75	50-150		02/23/22 14:12	

LABORATORY CONTROL SAMPLE & LCSD: 4250649 4250650

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
TPH as Gas	ug/L	1000	1070	979	107	98	75-125	9	20	
a,a,a-Trifluorotoluene (S)	%.				78	81	50-150			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4250651 4250652

Parameter	Units	10598112003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH as Gas	ug/L	<13.4	1000	1000	1160	1100	116	110	65-126	5	30	
a,a,a-Trifluorotoluene (S)	%.						74	74	50-150			

SAMPLE DUPLICATE: 4250678

Parameter	Units	10598112008 Result	Dup Result	RPD	Max RPD	Qualifiers
TPH as Gas	ug/L	<13.4	<13.4		30	
a,a,a-Trifluorotoluene (S)	%.	69	76			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Z076000082 P66 Westlake-Revised Report
Pace Project No.: 10598112

SAMPLE DUPLICATE: 4250679

Parameter	Units	10598112007 Result	Dup Result	RPD	Max RPD	Qualifiers
TPH as Gas	ug/L	<13.4	<13.4		30	G-
a,a,a-Trifluorotoluene (S)	%.	72	69			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Z076000082 P66 Westlake-Revised Report
Pace Project No.: 10598112

QC Batch: 799793
QC Batch Method: EPA 200.8
Analysis Method: EPA 200.8
Analysis Description: 200.8 MET
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10598112001, 10598112002, 10598112003, 10598112004, 10598112005, 10598112006, 10598112007, 10598112008, 10598112009, 10598112010

METHOD BLANK: 4248889 Matrix: Water
Associated Lab Samples: 10598112001, 10598112002, 10598112003, 10598112004, 10598112005, 10598112006, 10598112007, 10598112008, 10598112009, 10598112010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	ug/L	<0.083	0.50	0.083	02/22/22 12:21	
Barium	ug/L	0.056J	0.30	0.055	02/22/22 12:21	
Chromium	ug/L	<0.25	0.50	0.25	02/22/22 12:21	
Lead	ug/L	<0.028	0.10	0.028	02/22/22 12:21	

LABORATORY CONTROL SAMPLE: 4248890

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	100	97.7	98	85-115	
Barium	ug/L	100	100	100	85-115	
Chromium	ug/L	100	104	104	85-115	
Lead	ug/L	100	99.9	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4248891 4248892

Parameter	Units	10598112003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	0.24J	100	100	102	100	102	100	70-130	2	20	
Barium	ug/L	62.4	100	100	168	160	106	98	70-130	5	20	
Chromium	ug/L	0.60	100	100	107	102	106	101	70-130	5	20	
Lead	ug/L	0.031J	100	100	102	97.7	102	98	70-130	4	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Z076000082 P66 Westlake-Revised Report
Pace Project No.: 10598112

QC Batch: 799792
QC Batch Method: EPA 200.8
Analysis Method: EPA 200.8
Analysis Description: 200.8 MET Dissolved
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10598112001, 10598112002, 10598112003, 10598112004, 10598112005, 10598112006, 10598112007, 10598112008, 10598112009, 10598112010

METHOD BLANK: 4248885 Matrix: Water
Associated Lab Samples: 10598112001, 10598112002, 10598112003, 10598112004, 10598112005, 10598112006, 10598112007, 10598112008, 10598112009, 10598112010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic, Dissolved	ug/L	<0.083	0.50	0.083	02/23/22 21:28	
Barium, Dissolved	ug/L	<0.055	0.30	0.055	02/23/22 21:28	
Chromium, Dissolved	ug/L	<0.25	0.50	0.25	02/23/22 21:28	
Lead, Dissolved	ug/L	<0.028	0.10	0.028	02/23/22 21:28	

LABORATORY CONTROL SAMPLE: 4248886

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	100	95.6	96	85-115	
Barium, Dissolved	ug/L	100	97.9	98	85-115	
Chromium, Dissolved	ug/L	100	102	102	85-115	
Lead, Dissolved	ug/L	100	100	100	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4248887 4248888

Parameter	Units	10598112003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic, Dissolved	ug/L	0.20J	100	100	100	93.9	100	94	70-130	7	20	
Barium, Dissolved	ug/L	62.5	100	100	163	161	100	98	70-130	1	20	
Chromium, Dissolved	ug/L	0.63	100	100	103	100	102	100	70-130	2	20	
Lead, Dissolved	ug/L	<0.028	100	100	98.8	95.6	99	96	70-130	3	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: Z076000082 P66 Westlake-Revised Report
Pace Project No.: 10598112

QC Batch: 799968
QC Batch Method: EPA 8260D
Analysis Method: EPA 8260D
Analysis Description: 8260D MSV UST-WATER
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10598112001, 10598112002, 10598112003, 10598112004, 10598112005, 10598112006, 10598112007, 10598112008, 10598112009, 10598112010, 10598112011

METHOD BLANK: 4249333 Matrix: Water
Associated Lab Samples: 10598112001, 10598112002, 10598112003, 10598112004, 10598112005, 10598112006, 10598112007, 10598112008, 10598112009, 10598112010, 10598112011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Benzene	ug/L	<0.10	1.0	0.10	02/21/22 15:03	
Ethylbenzene	ug/L	<0.11	1.0	0.11	02/21/22 15:03	
Methyl-tert-butyl ether	ug/L	<0.13	1.0	0.13	02/21/22 15:03	
Toluene	ug/L	<0.10	1.0	0.10	02/21/22 15:03	
Xylene (Total)	ug/L	<0.20	3.0	0.20	02/21/22 15:03	
1,2-Dichlorobenzene-d4 (S)	%.	98	75-125		02/21/22 15:03	
4-Bromofluorobenzene (S)	%.	95	75-125		02/21/22 15:03	
Toluene-d8 (S)	%.	100	75-125		02/21/22 15:03	

LABORATORY CONTROL SAMPLE: 4249334

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	20	16.5	82	73-125	
Ethylbenzene	ug/L	20	17.8	89	75-125	
Methyl-tert-butyl ether	ug/L	20	17.9	89	75-125	
Toluene	ug/L	20	17.4	87	74-125	
Xylene (Total)	ug/L	60	53.5	89	72-125	
1,2-Dichlorobenzene-d4 (S)	%.			97	75-125	
4-Bromofluorobenzene (S)	%.			93	75-125	
Toluene-d8 (S)	%.			100	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4249335 4249336

Parameter	Units	10598112003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	<0.10	20	20	18.1	17.2	91	86	65-140	5	30	
Ethylbenzene	ug/L	<0.11	20	20	18.9	18.3	95	91	66-126	4	30	
Methyl-tert-butyl ether	ug/L	<0.13	20	20	18.9	17.7	95	88	65-137	7	30	
Toluene	ug/L	<0.10	20	20	19.1	18.2	96	91	69-131	5	30	
Xylene (Total)	ug/L	<0.20	60	60	57.1	55.6	95	93	68-136	3	30	
1,2-Dichlorobenzene-d4 (S)	%.						96	99	75-125			
4-Bromofluorobenzene (S)	%.						92	94	75-125			
Toluene-d8 (S)	%.						101	101	75-125			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: Z076000082 P66 Westlake-Revised Report
Pace Project No.: 10598112

QC Batch: 799965
QC Batch Method: EPA Mod. 3510C
Analysis Method: EPA 8270E by SIM
Analysis Description: 8270E CPAH by SIM MSSV
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10598112001, 10598112002, 10598112003, 10598112004, 10598112005, 10598112006, 10598112007, 10598112008, 10598112009, 10598112010

METHOD BLANK: 4249320 Matrix: Water
Associated Lab Samples: 10598112001, 10598112002, 10598112003, 10598112004, 10598112005, 10598112006, 10598112007, 10598112008, 10598112009, 10598112010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	<0.0082	0.040	0.0082	02/22/22 13:47	
2-Chloronaphthalene	ug/L	<0.018	0.040	0.018	02/22/22 13:47	
2-Methylnaphthalene	ug/L	<0.015	0.040	0.015	02/22/22 13:47	
3-Methylcholanthrene	ug/L	<0.011	0.040	0.011	02/22/22 13:47	
5-Methylchrysene	ug/L	<0.0066	0.040	0.0066	02/22/22 13:47	
5-Nitroacenaphthene	ug/L	<0.015	0.040	0.015	02/22/22 13:47	
6-Nitrochrysene	ug/L	<0.11	0.30	0.11	02/22/22 13:47	
7,12-Dimethylbenz(a)anthracene	ug/L	<0.034	0.10	0.034	02/22/22 13:47	
7H-Dibenzo(c,g)carbazole	ug/L	<0.032	0.10	0.032	02/22/22 13:47	
Acenaphthene	ug/L	<0.011	0.040	0.011	02/22/22 13:47	
Acenaphthylene	ug/L	<0.011	0.040	0.011	02/22/22 13:47	
Anthracene	ug/L	<0.0077	0.040	0.0077	02/22/22 13:47	
Benzo(a)anthracene	ug/L	<0.016	0.040	0.016	02/22/22 13:47	
Benzo(a)pyrene	ug/L	<0.012	0.040	0.012	02/22/22 13:47	
Benzo(e)pyrene	ug/L	<0.014	0.040	0.014	02/22/22 13:47	
Benzo(g,h,i)perylene	ug/L	<0.016	0.040	0.016	02/22/22 13:47	
Benzofluoranthenes (Total)	ug/L	<0.026	0.12	0.026	02/22/22 13:47	N2
Carbazole	ug/L	<0.014	0.040	0.014	02/22/22 13:47	
Chrysene	ug/L	<0.015	0.040	0.015	02/22/22 13:47	
Dibenz(a,h)acridine	ug/L	<0.014	0.040	0.014	02/22/22 13:47	
Dibenz(a,h)anthracene	ug/L	<0.016	0.040	0.016	02/22/22 13:47	
Dibenz(a,j)acridine	ug/L	<0.016	0.040	0.016	02/22/22 13:47	
Dibenzo(a,e)pyrene	ug/L	<0.010	0.040	0.010	02/22/22 13:47	
Dibenzo(a,h)pyrene	ug/L	<0.0095	0.040	0.0095	02/22/22 13:47	
Dibenzo(a,i)pyrene	ug/L	<0.013	0.040	0.013	02/22/22 13:47	
Dibenzo(a,l)pyrene	ug/L	<0.017	0.040	0.017	02/22/22 13:47	
Dibenzofuran	ug/L	<0.017	0.040	0.017	02/22/22 13:47	
Fluoranthene	ug/L	<0.017	0.040	0.017	02/22/22 13:47	
Fluorene	ug/L	<0.0098	0.040	0.0098	02/22/22 13:47	
Indeno(1,2,3-cd)pyrene	ug/L	<0.016	0.040	0.016	02/22/22 13:47	
Naphthalene	ug/L	<0.016	0.040	0.016	02/22/22 13:47	
Perylene	ug/L	<0.011	0.040	0.011	02/22/22 13:47	
Phenanthrene	ug/L	<0.016	0.040	0.016	02/22/22 13:47	
Pyrene	ug/L	<0.013	0.040	0.013	02/22/22 13:47	
2-Fluorobiphenyl (S)	%.	60	52-125		02/22/22 13:47	
p-Terphenyl-d14 (S)	%.	84	51-125		02/22/22 13:47	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: Z076000082 P66 Westlake-Revised Report
Pace Project No.: 10598112

LABORATORY CONTROL SAMPLE: 4249321

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	3	1.5	50	39-125	
2-Chloronaphthalene	ug/L	3	1.6	52	34-125	
2-Methylnaphthalene	ug/L	3	1.5	49	37-125	
3-Methylcholanthrene	ug/L	3	1.9	62	51-125	
5-Methylchrysene	ug/L	3	2.3	77	60-125	
5-Nitroacenaphthene	ug/L	3	1.9	62	49-135	
6-Nitrochrysene	ug/L	3	1.8	62	30-150	
7,12-Dimethylbenz(a)anthracene	ug/L	3	0.95	32	30-125	
7H-Dibenzo(c,g)carbazole	ug/L	3	2.5	83	60-125	
Acenaphthene	ug/L	3	1.6	53	40-125	
Acenaphthylene	ug/L	3	1.6	52	42-125	
Anthracene	ug/L	3	1.9	63	51-125	
Benzo(a)anthracene	ug/L	3	2.0	67	56-125	
Benzo(a)pyrene	ug/L	3	2.1	69	62-125	
Benzo(e)pyrene	ug/L	3	2.1	70	64-125	
Benzo(g,h,i)perylene	ug/L	3	2.3	76	53-125	
Benzofluoranthenes (Total)	ug/L	9	6.7	74	63-125	N2
Carbazole	ug/L	3	2.0	65	59-125	
Chrysene	ug/L	3	2.2	72	56-125	
Dibenz(a,h)acridine	ug/L	3	2.5	83	62-125	
Dibenz(a,h)anthracene	ug/L	3	2.4	79	63-125	
Dibenz(a,j)acridine	ug/L	3	2.3	77	47-125	
Dibenzo(a,e)pyrene	ug/L	3	2.2	74	32-125	
Dibenzo(a,h)pyrene	ug/L	3	2.6	86	58-125	
Dibenzo(a,i)pyrene	ug/L	3	2.5	84	49-125	
Dibenzo(a,l)pyrene	ug/L	3	2.4	79	36-125	
Dibenzofuran	ug/L	3	1.6	53	46-125	
Fluoranthene	ug/L	3	1.8	61	65-125	L2
Fluorene	ug/L	3	1.6	52	48-125	
Indeno(1,2,3-cd)pyrene	ug/L	3	2.3	75	63-125	
Naphthalene	ug/L	3	1.6	52	35-125	
Perylene	ug/L	3	2.4	79	62-125	
Phenanthrene	ug/L	3	1.9	63	60-125	
Pyrene	ug/L	3	2.2	72	64-125	
2-Fluorobiphenyl (S)	%.			59	52-125	
p-Terphenyl-d14 (S)	%.			87	51-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4249322 4249323

Parameter	Units	10598112003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/L	<0.0086	2.9	3.2	1.2	1.4	40	45	70-130	20	30	M1
2-Chloronaphthalene	ug/L	<0.019	2.9	3.2	1.3	1.6	45	50	70-130	19	30	M1
2-Methylnaphthalene	ug/L	<0.016	2.9	3.2	1.1	1.4	38	43	70-130	22	30	M1
3-Methylcholanthrene	ug/L	<0.011	2.9	3.2	1.6	1.9	57	60	70-130	14	30	M1

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: Z076000082 P66 Westlake-Revised Report
Pace Project No.: 10598112

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4249322 4249323

Parameter	Units	10598112003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
5-Methylchrysene	ug/L	<0.0069	2.9	3.2	2.0	2.3	69	73	70-130	15	30	M1
5-Nitroacenaphthene	ug/L	<0.016	2.9	3.2	1.5	1.8	53	56	70-130	15	30	M1
6-Nitrochrysene	ug/L	<0.11	2.9	3.2	1.3	1.6	46	49	70-130	16	30	M1
7,12-Dimethylbenz(a)anthracene	ug/L	<0.035	2.9	3.2	1.3	1.3	45	41	70-130	0	30	M1
7H-Dibenzo(c,g)carbazole	ug/L	<0.033	2.9	3.2	2.1	2.5	74	80	70-130	18	30	
Acenaphthene	ug/L	<0.011	2.9	3.2	1.5	1.7	52	55	70-130	16	30	M1
Acenaphthylene	ug/L	<0.011	2.9	3.2	1.5	1.7	51	55	70-130	16	30	M1
Anthracene	ug/L	<0.0080	2.9	3.2	1.7	2.0	60	64	70-130	16	30	M1
Benzo(a)anthracene	ug/L	<0.017	2.9	3.2	1.7	2.0	60	63	70-130	15	30	M1
Benzo(a)pyrene	ug/L	<0.012	2.9	3.2	1.8	2.1	62	66	70-130	16	30	M1
Benzo(e)pyrene	ug/L	<0.015	2.9	3.2	1.8	2.1	62	67	70-130	17	30	M1
Benzo(g,h,i)perylene	ug/L	<0.017	2.9	3.2	2.0	2.3	69	74	70-130	18	30	M1
Benzofluoranthenes (Total)	ug/L	<0.027	8.6	9.5	5.7	6.8	66	71	70-130	17	30	M1,N2
Carbazole	ug/L	<0.015	2.9	3.2	1.8	2.1	62	67	70-130	18	30	M1
Chrysene	ug/L	<0.015	2.9	3.2	1.8	2.2	64	68	70-130	16	30	M1
Dibenz(a,h)acridine	ug/L	<0.015	2.9	3.2	2.1	2.5	73	80	70-130	18	30	
Dibenz(a,h)anthracene	ug/L	<0.017	2.9	3.2	2.0	2.4	71	77	70-130	18	30	
Dibenz(a,j)acridine	ug/L	<0.017	2.9	3.2	1.9	2.5	68	79	70-130	25	30	M1
Dibenzo(a,e)pyrene	ug/L	<0.011	2.9	3.2	2.0	2.4	71	75	70-130	15	30	
Dibenzo(a,h)pyrene	ug/L	<0.0099	2.9	3.2	2.2	2.6	77	83	70-130	18	30	
Dibenzo(a,i)pyrene	ug/L	<0.013	2.9	3.2	2.1	2.5	74	80	70-130	17	30	
Dibenzo(a,l)pyrene	ug/L	<0.018	2.9	3.2	2.0	2.4	71	75	70-130	16	30	
Dibenzofuran	ug/L	<0.018	2.9	3.2	1.5	1.7	53	55	70-130	14	30	M1
Fluoranthene	ug/L	<0.018	2.9	3.2	1.6	1.8	55	58	70-130	15	30	M0
Fluorene	ug/L	<0.010	2.9	3.2	1.6	1.8	54	56	70-130	13	30	M1
Indeno(1,2,3-cd)pyrene	ug/L	<0.017	2.9	3.2	1.9	2.3	67	73	70-130	18	30	M1
Naphthalene	ug/L	<0.017	2.9	3.2	1.1	1.5	39	47	70-130	29	30	M1
Perylene	ug/L	<0.011	2.9	3.2	2.0	2.4	71	77	70-130	18	30	
Phenanthrene	ug/L	<0.016	2.9	3.2	1.7	2.0	61	64	70-130	16	30	M1
Pyrene	ug/L	<0.014	2.9	3.2	1.9	2.2	66	71	70-130	18	30	M1
2-Fluorobiphenyl (S)	%.						66	68	52-125			
p-Terphenyl-d14 (S)	%.						83	92	51-125			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: Z076000082 P66 Westlake-Revised Report
Pace Project No.: 10598112

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: 800107

[1]	The continuing calibration verification was above the method acceptance limit for dibenz(a,h)anthracene and dibenzo(a,h)pyrene. Any detection for the analyte in the associated samples may have a high bias.

ANALYTE QUALIFIERS

C6	Result confirmed by reanalysis conducted outside of the method specified holding time.
G-	Early peaks present outside the GRO window.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
N2	The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.
S0	Surrogate recovery outside laboratory control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Z076000082 P66 Westlake-Revised Report
Pace Project No.: 10598112

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10598112001	**MW-209**	NWTPH-Gx	800270		
10598112002	**MW-210**	NWTPH-Gx	800270		
10598112003	**MW-211**	NWTPH-Gx	800270		
10598112004	**MW-212**	NWTPH-Gx	800270		
10598112005	**MW-213**	NWTPH-Gx	800270		
10598112006	**MW-214**	NWTPH-Gx	800270		
10598112007	**MW-215**	NWTPH-Gx	800270		
10598112008	**MW-216**	NWTPH-Gx	800270		
10598112009	**MW-217**	NWTPH-Gx	800270		
10598112010	**MW-218**	NWTPH-Gx	800270		
10598112011	**Trip Blank**	NWTPH-Gx	800270		
10598112001	**MW-209**	EPA 200.8	799793	EPA 200.8	800088
10598112002	**MW-210**	EPA 200.8	799793	EPA 200.8	800088
10598112003	**MW-211**	EPA 200.8	799793	EPA 200.8	800088
10598112004	**MW-212**	EPA 200.8	799793	EPA 200.8	800088
10598112005	**MW-213**	EPA 200.8	799793	EPA 200.8	800088
10598112006	**MW-214**	EPA 200.8	799793	EPA 200.8	800088
10598112007	**MW-215**	EPA 200.8	799793	EPA 200.8	800088
10598112008	**MW-216**	EPA 200.8	799793	EPA 200.8	800088
10598112009	**MW-217**	EPA 200.8	799793	EPA 200.8	800088
10598112010	**MW-218**	EPA 200.8	799793	EPA 200.8	800088
10598112001	**MW-209**	EPA 200.8	799792	EPA 200.8	800097
10598112002	**MW-210**	EPA 200.8	799792	EPA 200.8	800097
10598112003	**MW-211**	EPA 200.8	799792	EPA 200.8	800097
10598112004	**MW-212**	EPA 200.8	799792	EPA 200.8	800097
10598112005	**MW-213**	EPA 200.8	799792	EPA 200.8	800097
10598112006	**MW-214**	EPA 200.8	799792	EPA 200.8	800097
10598112007	**MW-215**	EPA 200.8	799792	EPA 200.8	800097
10598112008	**MW-216**	EPA 200.8	799792	EPA 200.8	800097
10598112009	**MW-217**	EPA 200.8	799792	EPA 200.8	800097
10598112010	**MW-218**	EPA 200.8	799792	EPA 200.8	800097
10598112001	**MW-209**	EPA Mod. 3510C	799965	EPA 8270E by SIM	800107
10598112002	**MW-210**	EPA Mod. 3510C	799965	EPA 8270E by SIM	800107
10598112003	**MW-211**	EPA Mod. 3510C	799965	EPA 8270E by SIM	800107
10598112004	**MW-212**	EPA Mod. 3510C	799965	EPA 8270E by SIM	800107
10598112005	**MW-213**	EPA Mod. 3510C	799965	EPA 8270E by SIM	800107
10598112006	**MW-214**	EPA Mod. 3510C	799965	EPA 8270E by SIM	800107
10598112007	**MW-215**	EPA Mod. 3510C	799965	EPA 8270E by SIM	800107
10598112008	**MW-216**	EPA Mod. 3510C	799965	EPA 8270E by SIM	800107
10598112009	**MW-217**	EPA Mod. 3510C	799965	EPA 8270E by SIM	800107
10598112010	**MW-218**	EPA Mod. 3510C	799965	EPA 8270E by SIM	800107
10598112001	**MW-209**	EPA 8260D	799968		
10598112002	**MW-210**	EPA 8260D	799968		
10598112003	**MW-211**	EPA 8260D	799968		
10598112004	**MW-212**	EPA 8260D	799968		
10598112005	**MW-213**	EPA 8260D	799968		
10598112006	**MW-214**	EPA 8260D	799968		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Z076000082 P66 Westlake-Revised Report
Pace Project No.: 10598112

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10598112007	**MW-215**	EPA 8260D	799968		
10598112008	**MW-216**	EPA 8260D	799968		
10598112009	**MW-217**	EPA 8260D	799968		
10598112010	**MW-218**	EPA 8260D	799968		
10598112011	**Trip Blank**	EPA 8260D	799968		

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://info.pacelabs.com/hubfs/pas-standard-terms.pdf.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Atlas	Report To:	Elisabeth.Silver@oneatlas.com	Attention:	Accounts Payable
Address:	6347 Seaview Ave NW	Copy To:		Company Name:	Atlas
	Seattle, WA 98107			Address:	
Email:		Purchase Order #:		Pace Quote:	
Phone:	Fax:	Project Name:	P66 Westlake	Pace Project Manager:	jennifer.gross@pacelabs.com,
Requested Due Date:	Standard	Project #:	BC76CC6E82	Pace Profile #:	39765 / Line 9

Regulatory Agency: —

State / Location: WA / Westlake

WO#: 10598112

10598112

Requested Analysis Filtered (Y/N): Y

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Total As, Ba, Cr, Pb by 200.8	Diss. As, Ba, Cr, Pb by 200.8 (FF)	NWTPH-DX	NWTPH-GX	8260 BTEX/MTBE	cPAH by 8270 SIM	Residual Cl	
1	MW-209	W	G	2/17	16:10	—			10	2		2	X					X	X		X	X	X		001
2	MW-210	W	G	2/17	15:25	—			10	2		2	X					X	X		X	X	X		002
3	MW-211	W	G	2/16	15:25	—			20	8		2	18					X	X		X	X	X		MS/MSD 003 @15:25
4	MW-212	W	G	2/17	9:55	—			10	2		2	X					X	X		X	X	X		004
5	MW-213	W	G	2/17	11:20	—			10	2		2	X					X	X		X	X	X		005
6	MW-214	W	G	2/17	12:20	—			10	2		2	X					X	X		X	X	X		006
7	MW-215	W	G	2/17	14:15	—			10	2		2	X					X	X		X	X	X		007
8	MW-216	W	G	2/16	11:05	—			10	2		2	X					X	X		X	X	X		008
9	MW-217	W	G	2/16	12:20	—			10	2		2	X					X	X		X	X	X		009
10	MW-218	W	G	2/16	13:15	—			10	2		2	X					X	X		X	X	X		010
11																									
12																									

SAMPLE CONDITIONS: Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time	TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
B. Gouket / Atlas	02/18/2022	15:00	[signature] / PACE	2/19/22	1105	0.8	Y	N	Y
						0.8			

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: B. Gouket

SIGNATURE of SAMPLER: B. Gouket

DATE Signed: 02-18-2022

Pace Analytical®	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 06Jan2022 Page 1 of 1
	Document No.: ENV-FRM-MIN4-0150 Rev.04	Pace Analytical Services - Minneapolis

Sample Condition Upon Receipt **Client Name:** Atlas **Project #:** WO#: 10598112

PM: JMG Due Date: 03/07/22
CLIENT: ATC_WA

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ SpeeDee ☐ Commercial

Tracking Number: _____ See Exceptions ☒ ENV-FRM-MIN4-0142

Custody Seal on Cooler/Box Present? ☐ Yes ☒ No **Seals Intact?** ☐ Yes ☒ No **Biological Tissue Frozen?** ☐ Yes ☐ No ☒ N/A

Packing Material: ☒ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other: _____ **Temp Blank?** ☒ Yes ☐ No

Thermometer: ☐ T1(0461) ☐ T2(1336) ☐ T3(0459) ☐ T4(0254) ☒ T5(0489) ☐ 01339252/1710 ☐ 122639816 ☐ 140792808 **Type of Ice:** ☒ Wet ☐ Blue ☐ None ☐ Dry ☐ Melted

Did Samples Originate in West Virginia? ☐ Yes ☒ No **Were All Container Temps Taken?** ☐ Yes ☐ No ☒ N/A

Temp should be above freezing to 6°C **Cooler Temp Read w/temp blank:** 0.8, 0.8, 3.2, 3.1 °C **Average Corrected Temp (no temp blank only):** _____ °C ☒ See Exceptions ENV-FRM-MIN4-0142 ☐ 1 Container

Correction Factor: TMH **Cooler Temp Corrected w/temp blank:** 0.8, 0.8, 3.2, 3.1 °C

USDA Regulated Soil: (☒ N/A, water sample/Other: _____) **Date/Initials of Person Examining Contents:** 2/18/22 KN

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA. MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

If Yes to either question, fill out a Regulated Soil Checklist ENV-FRM-MIN4-0154 and include with SCUR/COC paperwork.

Location (check one): ☐ Duluth ☒ Minneapolis ☐ Virginia				**COMMENTS:**
Chain of Custody Present and Filled Out?	☒ Yes	☐ No		1.
Chain of Custody Relinquished?	☒ Yes	☐ No		2.
Sampler Name and/or Signature on COC?	☒ Yes	☐ No	☐ N/A	3.
Samples Arrived within Hold Time?	☒ Yes	☐ No		4. If Fecal: ☐ <8 hrs ☐ >8hr, <24 hrs, ☐ >24 hrs
Short Hold Time Analysis (<72 hr)?	☐ Yes	☒ No		5. ☐ Fecal Coliform ☐ HPC ☐ Total Coliform/E coli ☐ BOD/cBOD ☐ Hex Chrome ☐ Turbidity ☐ Nitrate ☐ Nitrite ☐ Orthophos ☐ Other _____
Rush Turn Around Time Requested?	☐ Yes	☒ No		6.
Sufficient Volume?	☒ Yes	☐ No		7.
Correct Containers Used? -Pace Containers Used?	☒ Yes ☒ Yes	☐ No ☐ No		8.
Containers Intact?	☒ Yes	☐ No		9.
Field Filtered Volume Received for Dissolved Tests?	☒ Yes	☐ No	☐ N/A	10. Is sediment visible in the dissolved container? ☐ Yes ☒ No
Is sufficient information available to reconcile the samples to the COC? Matrix: ☒ Water ☐ Soil ☐ Oil ☐ Other-	☒ Yes	☐ No		11. **If no, write ID/ Date/Time on Container Below:** ☐ See Exception ENV-FRM-MIN4-0142
All containers needing acid/base preservation have been checked?	☒ Yes	☐ No	☐ N/A	12. Sample # 1-10: 1/2 ☐ NaOH ☒ HNO_3 ☐ H_2SO_4 ☐ Zinc Acetate
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, <2pH, NaOH >9 Sulfide, NaOH>10 Cyanide)	☒ Yes	☐ No	☐ N/A	
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS	☒ Yes	☐ No	☐ N/A	Positive for Res. Chlorine? ☐ Yes ☐ No pH Paper Lot# ☐ See Exception ENV-FRM-MIN4-0142
				Res. Chlorine | 0-6 Roll 230320 | 0-6 Strip | 0-14 Strip
Headspace in Methyl Mercury Container?	☐ Yes	☐ No	☒ N/A	
Extra labels present on soil VOA or WIDRO containers?	☐ Yes	☐ No	☒ N/A	13. ☐ See Exception ENV-FRM-MIN4-0140
Headspace in VOA Vials (greater than 6mm)?	☐ Yes	☒ No	☐ N/A	
Trip Blank Present?	☒ Yes	☐ No	☐ N/A	14.
Trip Blank Custody Seals Present?	☒ Yes	☐ No	☐ N/A	Pace Trip Blank Lot # (if purchased): 350780 (6)

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: Jenni Gross **Date:** 2/21/22

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e., out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled by: KN

SCUR Exceptions:

Workorder #:

Out of Temp Sample IDs	Container Type	# of Containers

PM Notified? ☐Yes ☐No

If yes, indicate who was contacted/date/time.
If no, indicate reason why.

Multiple Cooler Project? ☐Yes ☐No
If you answered yes, fill out information to the left.

No Temp Blank		
Read Temp	Corrected Temp	Average Temp

Tracking Number/Temperature	
2700 0332 4246	0.8
4257	0.8
4268	3.2
4235	3.1

Issue Type: Sample ID	Container Type	# of Containers

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preserv.	pH Upon Receipt	Date Adjusted	Time Adjusted	Amount Added (mL)	Lot # Added	pH After	In Compliance after addition?	Initials
								☐Yes ☐No	
								☐Yes ☐No	
								☐Yes ☐No	
								☐Yes ☐No	

Comments:

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

May 26, 2022

Brani Jurista
Farallon Consulting
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 397-066
Laboratory Reference No. 2205-212

Dear Brani:

Enclosed are the analytical results and associated quality control data for samples submitted on May 18, 2022.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: May 26, 2022
Samples Submitted: May 18, 2022
Laboratory Reference: 2205-212
Project: 397-066

Case Narrative

Samples were collected on May 17, 2022 and received by the laboratory on May 18, 2022. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: May 26, 2022
Samples Submitted: May 18, 2022
Laboratory Reference: 2205-212
Project: 397-066

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**B-37-4-051722**					
Laboratory ID:	05-212-01					
Gasoline	**ND**	100	NWTPH-Gx	5-18-22	5-18-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*93*	*65-122*				
Client ID:	**B-37-9-051722**					
Laboratory ID:	05-212-02					
Gasoline	**ND**	100	NWTPH-Gx	5-18-22	5-18-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*93*	*65-122*				
Client ID:	**B-37-3-051722**					
Laboratory ID:	05-212-03					
Gasoline	**ND**	100	NWTPH-Gx	5-18-22	5-18-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*92*	*65-122*				
Client ID:	**MWR-6-051722**					
Laboratory ID:	05-212-04					
Gasoline	**ND**	100	NWTPH-Gx	5-18-22	5-18-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*93*	*65-122*				
Client ID:	**B-37-1-051722**					
Laboratory ID:	05-212-05					
Gasoline	**ND**	100	NWTPH-Gx	5-18-22	5-18-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*92*	*65-122*				
Client ID:	**MW-45-051722**					
Laboratory ID:	05-212-06					
Gasoline	**160**	100	NWTPH-Gx	5-18-22	5-18-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*93*	*65-122*				
Client ID:	**PH-1-051722**					
Laboratory ID:	05-212-07					
Gasoline	**ND**	100	NWTPH-Gx	5-18-22	5-18-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*93*	*65-122*				

Date of Report: May 26, 2022
Samples Submitted: May 18, 2022
Laboratory Reference: 2205-212
Project: 397-066

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-50-051722**					
Laboratory ID:	05-212-08					
Gasoline	**ND**	100	NWTPH-Gx	5-18-22	5-18-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*93*	*65-122*				
Client ID:	**PH-2-051722**					
Laboratory ID:	05-212-09					
Gasoline	**ND**	100	NWTPH-Gx	5-18-22	5-18-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*95*	*65-122*				

Date of Report: May 26, 2022
Samples Submitted: May 18, 2022
Laboratory Reference: 2205-212
Project: 397-066

GASOLINE RANGE ORGANICS
NWTPH-Gx
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0518W1					
Gasoline	**ND**	100	NWTPH-Gx	5-18-22	5-18-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*93*	*65-122*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	05-212-01										
	ORIG	DUP									
Gasoline	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Surrogate:											
Fluorobenzene						*93*	*93*	*65-122*			

Date of Report: May 26, 2022
Samples Submitted: May 18, 2022
Laboratory Reference: 2205-212
Project: 397-066

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Water
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**B-37-4-051722**					
Laboratory ID:	05-212-01					
Diesel Range Organics	**ND**	0.15	NWTPH-Dx	5-24-22	5-24-22	
Lube Oil Range Organics	**0.34**	0.21	NWTPH-Dx	5-24-22	5-24-22	
DRO/LRO C10-C36	**0.30**	0.26	NWTPH-Dx	5-24-22	5-24-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*84*	*50-150*				
Client ID:	**B-37-9-051722**					
Laboratory ID:	05-212-02					
Diesel Range Organics	**ND**	0.16	NWTPH-Dx	5-24-22	5-24-22	
Lube Oil Range Organics	**ND**	0.22	NWTPH-Dx	5-24-22	5-24-22	
DRO/LRO C10-C36	**ND**	0.28	NWTPH-Dx	5-24-22	5-24-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*85*	*50-150*				
Client ID:	**B-37-3-051722**					
Laboratory ID:	05-212-03					
Diesel Range Organics	**ND**	0.15	NWTPH-Dx	5-24-22	5-24-22	
Lube Oil Range Organics	**ND**	0.21	NWTPH-Dx	5-24-22	5-24-22	
DRO/LRO C10-C36	**ND**	0.26	NWTPH-Dx	5-24-22	5-24-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*75*	*50-150*				
Client ID:	**MWR-6-051722**					
Laboratory ID:	05-212-04					
Diesel Range Organics	**ND**	0.16	NWTPH-Dx	5-24-22	5-24-22	
Lube Oil Range Organics	**ND**	0.22	NWTPH-Dx	5-24-22	5-24-22	
DRO/LRO C10-C36	**ND**	0.27	NWTPH-Dx	5-24-22	5-24-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*86*	*50-150*				
Client ID:	**B-37-1-051722**					
Laboratory ID:	05-212-05					
Diesel Range Organics	**ND**	0.15	NWTPH-Dx	5-24-22	5-24-22	
Lube Oil Range Organics	**ND**	0.21	NWTPH-Dx	5-24-22	5-24-22	
DRO/LRO C10-C36	**ND**	0.27	NWTPH-Dx	5-24-22	5-24-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*83*	*50-150*				

Date of Report: May 26, 2022
Samples Submitted: May 18, 2022
Laboratory Reference: 2205-212
Project: 397-066

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Water
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-45-051722**					
Laboratory ID:	05-212-06					
Diesel Range Organics	**0.24**	0.17	NWTPH-Dx	5-24-22	5-24-22	
Lube Oil Range Organics	**0.32**	0.23	NWTPH-Dx	5-24-22	5-24-22	
DRO/LRO C10-C36	**0.39**	0.29	NWTPH-Dx	5-24-22	5-24-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*96*	*50-150*				
Client ID:	**PH-1-051722**					
Laboratory ID:	05-212-07					
Diesel Range Organics	**ND**	0.15	NWTPH-Dx	5-24-22	5-24-22	
Lube Oil Range Organics	**0.30**	0.21	NWTPH-Dx	5-24-22	5-24-22	
DRO/LRO C10-C36	**ND**	0.26	NWTPH-Dx	5-24-22	5-24-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*98*	*50-150*				
Client ID:	**MW-50-051722**					
Laboratory ID:	05-212-08					
Diesel Range Organics	**ND**	0.17	NWTPH-Dx	5-24-22	5-24-22	
Lube Oil Range Organics	**ND**	0.23	NWTPH-Dx	5-24-22	5-24-22	
DRO/LRO C10-C36	**0.34**	0.29	NWTPH-Dx	5-24-22	5-24-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*87*	*50-150*				
Client ID:	**PH-2-051722**					
Laboratory ID:	05-212-09					
Diesel Range Organics	**ND**	0.15	NWTPH-Dx	5-24-22	5-24-22	
Lube Oil Range Organics	**ND**	0.21	NWTPH-Dx	5-24-22	5-24-22	
DRO/LRO C10-C36	**ND**	0.26	NWTPH-Dx	5-24-22	5-24-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*93*	*50-150*				

Date of Report: May 26, 2022
Samples Submitted: May 18, 2022
Laboratory Reference: 2205-212
Project: 397-066

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx
QUALITY CONTROL

Matrix: Water
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0524W1					
Diesel Range Organics	**ND**	0.12	NWTPH-Dx	5-24-22	5-24-22	
Lube Oil Range Organics	**ND**	0.16	NWTPH-Dx	5-24-22	5-24-22	
DRO/LRO C10-C36	**ND**	0.20	NWTPH-Dx	5-24-22	5-24-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*77*	*50-150*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	SB0524W1										
	ORIG	DUP									
Diesel Fuel #2	**0.420**	**0.399**	NA	NA		NA		NA	5	NA	
Surrogate:											
o-Terphenyl						*89*	*95*	*50-150*			

Date of Report: May 26, 2022
Samples Submitted: May 18, 2022
Laboratory Reference: 2205-212
Project: 397-066

PCBs EPA 8082A

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**B-37-3-051722**					
Laboratory ID:	05-212-03					
Aroclor 1016	**ND**	0.021	EPA 8082A	5-25-22	5-25-22	
Aroclor 1221	**ND**	0.021	EPA 8082A	5-25-22	5-25-22	
Aroclor 1232	**ND**	0.021	EPA 8082A	5-25-22	5-25-22	
Aroclor 1242	**ND**	0.021	EPA 8082A	5-25-22	5-25-22	
Aroclor 1248	**ND**	0.021	EPA 8082A	5-25-22	5-25-22	
Aroclor 1254	**ND**	0.021	EPA 8082A	5-25-22	5-25-22	
Aroclor 1260	**ND**	0.021	EPA 8082A	5-25-22	5-25-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*124*	*49-133*				
Client ID:	**B-37-1-051722**					
Laboratory ID:	05-212-05					
Aroclor 1016	**ND**	0.021	EPA 8082A	5-25-22	5-25-22	
Aroclor 1221	**ND**	0.021	EPA 8082A	5-25-22	5-25-22	
Aroclor 1232	**ND**	0.021	EPA 8082A	5-25-22	5-25-22	
Aroclor 1242	**ND**	0.021	EPA 8082A	5-25-22	5-25-22	
Aroclor 1248	**ND**	0.021	EPA 8082A	5-25-22	5-25-22	
Aroclor 1254	**ND**	0.021	EPA 8082A	5-25-22	5-25-22	
Aroclor 1260	**ND**	0.021	EPA 8082A	5-25-22	5-25-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*117*	*49-133*				
Client ID:	**PH-1-051722**					
Laboratory ID:	05-212-07					
Aroclor 1016	**ND**	0.020	EPA 8082A	5-25-22	5-25-22	
Aroclor 1221	**ND**	0.020	EPA 8082A	5-25-22	5-25-22	
Aroclor 1232	**ND**	0.020	EPA 8082A	5-25-22	5-25-22	
Aroclor 1242	**ND**	0.020	EPA 8082A	5-25-22	5-25-22	
Aroclor 1248	**ND**	0.020	EPA 8082A	5-25-22	5-25-22	
Aroclor 1254	**ND**	0.020	EPA 8082A	5-25-22	5-25-22	
Aroclor 1260	**ND**	0.020	EPA 8082A	5-25-22	5-25-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*107*	*49-133*				

Date of Report: May 26, 2022
Samples Submitted: May 18, 2022
Laboratory Reference: 2205-212
Project: 397-066

PCBs EPA 8082A

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**PH-2-051722**					
Laboratory ID:	05-212-09					
Aroclor 1016	**ND**	0.020	EPA 8082A	5-25-22	5-25-22	
Aroclor 1221	**ND**	0.020	EPA 8082A	5-25-22	5-25-22	
Aroclor 1232	**ND**	0.020	EPA 8082A	5-25-22	5-25-22	
Aroclor 1242	**ND**	0.020	EPA 8082A	5-25-22	5-25-22	
Aroclor 1248	**ND**	0.020	EPA 8082A	5-25-22	5-25-22	
Aroclor 1254	**ND**	0.020	EPA 8082A	5-25-22	5-25-22	
Aroclor 1260	**ND**	0.020	EPA 8082A	5-25-22	5-25-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*109*	*49-133*				

Date of Report: May 26, 2022
Samples Submitted: May 18, 2022
Laboratory Reference: 2205-212
Project: 397-066

PCBs EPA 8082A
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0525W1					
Aroclor 1016	**ND**	0.020	EPA 8082A	5-25-22	5-25-22	
Aroclor 1221	**ND**	0.020	EPA 8082A	5-25-22	5-25-22	
Aroclor 1232	**ND**	0.020	EPA 8082A	5-25-22	5-25-22	
Aroclor 1242	**ND**	0.020	EPA 8082A	5-25-22	5-25-22	
Aroclor 1248	**ND**	0.020	EPA 8082A	5-25-22	5-25-22	
Aroclor 1254	**ND**	0.020	EPA 8082A	5-25-22	5-25-22	
Aroclor 1260	**ND**	0.020	EPA 8082A	5-25-22	5-25-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*114*	*49-133*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB0525W2										
	SB	SBD	SB	SBD		SB	SBD				
Aroclor 1260	**0.479**	**0.458**	0.500	0.500	N/A	**96**	**92**	67-120	4	15	
Surrogate:											
DCB						*122*	*114*	*49-133*			

Date of Report: May 26, 2022
Samples Submitted: May 18, 2022
Laboratory Reference: 2205-212
Project: 397-066

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**B-37-4-051722**					
Laboratory ID:	05-212-01					
Benzene	ND	0.20	EPA 8260D	5-19-22	5-19-22	
Toluene	ND	1.0	EPA 8260D	5-19-22	5-19-22	
Ethylbenzene	ND	0.20	EPA 8260D	5-19-22	5-19-22	
m,p-Xylene	ND	0.40	EPA 8260D	5-19-22	5-19-22	
o-Xylene	ND	0.20	EPA 8260D	5-19-22	5-19-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*104*	*75-127*				
Toluene-d8	*102*	*80-127*				
4-Bromofluorobenzene	*96*	*78-125*				
Client ID:	**B-37-9-051722**					
Laboratory ID:	05-212-02					
Benzene	ND	0.20	EPA 8260D	5-19-22	5-19-22	
Toluene	ND	1.0	EPA 8260D	5-19-22	5-19-22	
Ethylbenzene	ND	0.20	EPA 8260D	5-19-22	5-19-22	
m,p-Xylene	ND	0.40	EPA 8260D	5-19-22	5-19-22	
o-Xylene	ND	0.20	EPA 8260D	5-19-22	5-19-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*101*	*75-127*				
Toluene-d8	*101*	*80-127*				
4-Bromofluorobenzene	*96*	*78-125*				
Client ID:	**B-37-3-051722**					
Laboratory ID:	05-212-03					
Benzene	ND	0.20	EPA 8260D	5-19-22	5-19-22	
Toluene	ND	1.0	EPA 8260D	5-19-22	5-19-22	
Ethylbenzene	ND	0.20	EPA 8260D	5-19-22	5-19-22	
m,p-Xylene	ND	0.40	EPA 8260D	5-19-22	5-19-22	
o-Xylene	ND	0.20	EPA 8260D	5-19-22	5-19-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*102*	*75-127*				
Toluene-d8	*101*	*80-127*				
4-Bromofluorobenzene	*96*	*78-125*				

Date of Report: May 26, 2022
Samples Submitted: May 18, 2022
Laboratory Reference: 2205-212
Project: 397-066

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MWR-6-051722**					
Laboratory ID:	05-212-04					
Benzene	ND	0.20	EPA 8260D	5-19-22	5-19-22	
Toluene	ND	1.0	EPA 8260D	5-19-22	5-19-22	
Ethylbenzene	ND	0.20	EPA 8260D	5-19-22	5-19-22	
m,p-Xylene	ND	0.40	EPA 8260D	5-19-22	5-19-22	
o-Xylene	ND	0.20	EPA 8260D	5-19-22	5-19-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*102*	*75-127*				
Toluene-d8	*101*	*80-127*				
4-Bromofluorobenzene	*97*	*78-125*				
Client ID:	**B-37-1-051722**					
Laboratory ID:	05-212-05					
Benzene	ND	0.20	EPA 8260D	5-19-22	5-19-22	
Toluene	ND	1.0	EPA 8260D	5-19-22	5-19-22	
Ethylbenzene	ND	0.20	EPA 8260D	5-19-22	5-19-22	
m,p-Xylene	ND	0.40	EPA 8260D	5-19-22	5-19-22	
o-Xylene	ND	0.20	EPA 8260D	5-19-22	5-19-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*101*	*75-127*				
Toluene-d8	*101*	*80-127*				
4-Bromofluorobenzene	*96*	*78-125*				
Client ID:	**MW-45-051722**					
Laboratory ID:	05-212-06					
Benzene	ND	0.20	EPA 8260D	5-19-22	5-19-22	
Toluene	ND	1.0	EPA 8260D	5-19-22	5-19-22	
Ethylbenzene	ND	0.20	EPA 8260D	5-19-22	5-19-22	
m,p-Xylene	ND	0.40	EPA 8260D	5-19-22	5-19-22	
o-Xylene	ND	0.20	EPA 8260D	5-19-22	5-19-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*102*	*75-127*				
Toluene-d8	*101*	*80-127*				
4-Bromofluorobenzene	*94*	*78-125*				

Date of Report: May 26, 2022
Samples Submitted: May 18, 2022
Laboratory Reference: 2205-212
Project: 397-066

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**PH-1-051722**					
Laboratory ID:	05-212-07					
Benzene	ND	0.20	EPA 8260D	5-19-22	5-19-22	
Toluene	ND	1.0	EPA 8260D	5-19-22	5-19-22	
Ethylbenzene	ND	0.20	EPA 8260D	5-19-22	5-19-22	
m,p-Xylene	ND	0.40	EPA 8260D	5-19-22	5-19-22	
o-Xylene	ND	0.20	EPA 8260D	5-19-22	5-19-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*101*	*75-127*				
Toluene-d8	*101*	*80-127*				
4-Bromofluorobenzene	*97*	*78-125*				
Client ID:	**MW-50-051722**					
Laboratory ID:	05-212-08					
Benzene	ND	0.20	EPA 8260D	5-19-22	5-19-22	
Toluene	ND	1.0	EPA 8260D	5-19-22	5-19-22	
Ethylbenzene	ND	0.20	EPA 8260D	5-19-22	5-19-22	
m,p-Xylene	ND	0.40	EPA 8260D	5-19-22	5-19-22	
o-Xylene	ND	0.20	EPA 8260D	5-19-22	5-19-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*102*	*75-127*				
Toluene-d8	*101*	*80-127*				
4-Bromofluorobenzene	*98*	*78-125*				
Client ID:	**PH-2-051722**					
Laboratory ID:	05-212-09					
Benzene	1.3	0.20	EPA 8260D	5-19-22	5-19-22	
Toluene	ND	1.0	EPA 8260D	5-19-22	5-19-22	
Ethylbenzene	0.60	0.20	EPA 8260D	5-19-22	5-19-22	
m,p-Xylene	ND	0.40	EPA 8260D	5-19-22	5-19-22	
o-Xylene	ND	0.20	EPA 8260D	5-19-22	5-19-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*98*	*75-127*				
Toluene-d8	*99*	*80-127*				
4-Bromofluorobenzene	*96*	*78-125*				

Date of Report: May 26, 2022
Samples Submitted: May 18, 2022
Laboratory Reference: 2205-212
Project: 397-066

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0519W1					
Benzene	ND	0.20	EPA 8260D	5-19-22	5-19-22	
Toluene	ND	1.0	EPA 8260D	5-19-22	5-19-22	
Ethylbenzene	ND	0.20	EPA 8260D	5-19-22	5-19-22	
m,p-Xylene	ND	0.40	EPA 8260D	5-19-22	5-19-22	
o-Xylene	ND	0.20	EPA 8260D	5-19-22	5-19-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*100*	*75-127*				
Toluene-d8	*100*	*80-127*				
4-Bromofluorobenzene	*97*	*78-125*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0519W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	**10.5**	**10.6**	10.0	10.0	105	106	78-125	1	19	
Benzene	**11.0**	**10.9**	10.0	10.0	110	109	80-121	1	16	
Trichloroethene	**11.4**	**11.2**	10.0	10.0	114	112	80-122	2	18	
Toluene	**10.8**	**10.6**	10.0	10.0	108	106	80-120	2	18	
Chlorobenzene	**11.1**	**10.8**	10.0	10.0	111	108	80-120	3	17	
Surrogate:										
Dibromofluoromethane					*100*	*98*	*75-127*			
Toluene-d8					*102*	*101*	*80-127*			
4-Bromofluorobenzene					*101*	*101*	*78-125*			

Date of Report: May 26, 2022
Samples Submitted: May 18, 2022
Laboratory Reference: 2205-212
Project: 397-066

PAHs EPA 8270E/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags	MDL
Client ID:	**B-37-4-051722**						
Laboratory ID:	05-212-01						
Naphthalene	**ND**	0.10	EPA 8270E/SIM	5-20-22	5-20-22		
Benzo[a]anthracene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22		
Chrysene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22		
Benzo[b]fluoranthene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22		
Benzo(j,k)fluoranthene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22		
Benzo[a]pyrene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22		
Indeno(1,2,3-c,d)pyrene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22		
Dibenz[a,h]anthracene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22		
Surrogate:	*Percent Recovery*	*Control Limits*					
2-Fluorobiphenyl	*65*	*20 - 106*					
Pyrene-d10	*85*	*19 - 104*					
Terphenyl-d14	*91*	*41 - 127*					
Client ID:	**B-37-9-051722**						
Laboratory ID:	05-212-02						
Naphthalene	**0.016**	0.12	EPA 8270E/SIM	5-20-22	5-20-22	J	0.015
Benzo[a]anthracene	**ND**	0.012	EPA 8270E/SIM	5-20-22	5-20-22		0.0099
Chrysene	**ND**	0.012	EPA 8270E/SIM	5-20-22	5-20-22		0.011
Benzo[b]fluoranthene	**ND**	0.012	EPA 8270E/SIM	5-20-22	5-20-22		0.0091
Benzo(j,k)fluoranthene	**ND**	0.012	EPA 8270E/SIM	5-20-22	5-20-22		0.0095
Benzo[a]pyrene	**ND**	0.012	EPA 8270E/SIM	5-20-22	5-20-22		0.0075
Indeno(1,2,3-c,d)pyrene	**ND**	0.012	EPA 8270E/SIM	5-20-22	5-20-22		0.0094
Dibenz[a,h]anthracene	**ND**	0.012	EPA 8270E/SIM	5-20-22	5-20-22		0.0091
Surrogate:	*Percent Recovery*	*Control Limits*					
2-Fluorobiphenyl	*62*	*25 - 106*					
Pyrene-d10	*79*	*28 - 104*					
Terphenyl-d14	*87*	*40 - 139*					
Client ID:	**B-37-3-051722**						
Laboratory ID:	05-212-03						
Naphthalene	**ND**	0.10	EPA 8270E/SIM	5-20-22	5-20-22		
Benzo[a]anthracene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22		
Chrysene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22		
Benzo[b]fluoranthene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22		
Benzo(j,k)fluoranthene	**0.014**	0.010	EPA 8270E/SIM	5-20-22	5-20-22		
Benzo[a]pyrene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22		
Indeno(1,2,3-c,d)pyrene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22		
Dibenz[a,h]anthracene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22		
Surrogate:	*Percent Recovery*	*Control Limits*					
2-Fluorobiphenyl	*33*	*20 - 106*					
Pyrene-d10	*39*	*19 - 104*					
Terphenyl-d14	*46*	*41 - 127*					

Date of Report: May 26, 2022
Samples Submitted: May 18, 2022
Laboratory Reference: 2205-212
Project: 397-066

PAHs EPA 8270E/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags	MDL
Client ID:	**MWR-6-051722**						
Laboratory ID:	05-212-04						
Naphthalene	**ND**	0.11	EPA 8270E/SIM	5-20-22	5-20-22		0.014
Benzo[a]anthracene	**ND**	0.011	EPA 8270E/SIM	5-20-22	5-20-22		0.0094
Chrysene	**ND**	0.011	EPA 8270E/SIM	5-20-22	5-20-22		0.010
Benzo[b]fluoranthene	**ND**	0.011	EPA 8270E/SIM	5-20-22	5-20-22		0.0087
Benzo(j,k)fluoranthene	**ND**	0.011	EPA 8270E/SIM	5-20-22	5-20-22		0.0090
Benzo[a]pyrene	**ND**	0.011	EPA 8270E/SIM	5-20-22	5-20-22		0.0071
Indeno(1,2,3-c,d)pyrene	**ND**	0.011	EPA 8270E/SIM	5-20-22	5-20-22		0.0089
Dibenz[a,h]anthracene	**ND**	0.011	EPA 8270E/SIM	5-20-22	5-20-22		0.0087
Surrogate:	*Percent Recovery*	*Control Limits*					
2-Fluorobiphenyl	*50*	*25 - 106*					
Pyrene-d10	*67*	*28 - 104*					
Terphenyl-d14	*70*	*40 - 139*					
Client ID:	**B-37-1-051722**						
Laboratory ID:	05-212-05						
Naphthalene	**0.12**	0.11	EPA 8270E/SIM	5-20-22	5-20-22		
Benzo[a]anthracene	**ND**	0.011	EPA 8270E/SIM	5-20-22	5-20-22		0.0090
Chrysene	**ND**	0.011	EPA 8270E/SIM	5-20-22	5-20-22		0.0099
Benzo[b]fluoranthene	**ND**	0.011	EPA 8270E/SIM	5-20-22	5-20-22		0.0082
Benzo(j,k)fluoranthene	**ND**	0.011	EPA 8270E/SIM	5-20-22	5-20-22		0.0086
Benzo[a]pyrene	**ND**	0.011	EPA 8270E/SIM	5-20-22	5-20-22		0.0068
Indeno(1,2,3-c,d)pyrene	**ND**	0.011	EPA 8270E/SIM	5-20-22	5-20-22		0.0085
Dibenz[a,h]anthracene	**ND**	0.011	EPA 8270E/SIM	5-20-22	5-20-22		0.0083
Surrogate:	*Percent Recovery*	*Control Limits*					
2-Fluorobiphenyl	*60*	*25 - 106*					
Pyrene-d10	*82*	*28 - 104*					
Terphenyl-d14	*83*	*40 - 139*					
Client ID:	**MW-45-051722**						
Laboratory ID:	05-212-06						
Naphthalene	**0.24**	0.11	EPA 8270E/SIM	5-20-22	5-20-22		
Benzo[a]anthracene	**ND**	0.011	EPA 8270E/SIM	5-20-22	5-20-22		0.0092
Chrysene	**ND**	0.011	EPA 8270E/SIM	5-20-22	5-20-22		0.010
Benzo[b]fluoranthene	**ND**	0.011	EPA 8270E/SIM	5-20-22	5-20-22		0.0085
Benzo(j,k)fluoranthene	**ND**	0.011	EPA 8270E/SIM	5-20-22	5-20-22		0.0088
Benzo[a]pyrene	**ND**	0.011	EPA 8270E/SIM	5-20-22	5-20-22		0.0070
Indeno(1,2,3-c,d)pyrene	**ND**	0.011	EPA 8270E/SIM	5-20-22	5-20-22		0.0088
Dibenz[a,h]anthracene	**ND**	0.011	EPA 8270E/SIM	5-20-22	5-20-22		0.0085
Surrogate:	*Percent Recovery*	*Control Limits*					
2-Fluorobiphenyl	*54*	*25 - 106*					
Pyrene-d10	*74*	*28 - 104*					
Terphenyl-d14	*74*	*40 - 139*					

Date of Report: May 26, 2022
Samples Submitted: May 18, 2022
Laboratory Reference: 2205-212
Project: 397-066

PAHs EPA 8270E/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags	MDL
Client ID:	**PH-1-051722**						
Laboratory ID:	05-212-07						
Naphthalene	**ND**	0.10	EPA 8270E/SIM	5-20-22	5-20-22		
Benzo[a]anthracene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22		
Chrysene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22		
Benzo[b]fluoranthene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22		
Benzo(j,k)fluoranthene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22		
Benzo[a]pyrene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22		
Indeno(1,2,3-c,d)pyrene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22		
Dibenz[a,h]anthracene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22		
Surrogate:	*Percent Recovery*	*Control Limits*					
2-Fluorobiphenyl	*56*	*20 - 106*					
Pyrene-d10	*80*	*19 - 104*					
Terphenyl-d14	*87*	*41 - 127*					
Client ID:	**MW-50-051722**						
Laboratory ID:	05-212-08						
Naphthalene	**2.7**	0.12	EPA 8270E/SIM	5-20-22	5-20-22		
Benzo[a]anthracene	**0.020**	0.012	EPA 8270E/SIM	5-20-22	5-20-22		
Chrysene	**0.012**	0.012	EPA 8270E/SIM	5-20-22	5-20-22		
Benzo[b]fluoranthene	**0.017**	0.012	EPA 8270E/SIM	5-20-22	5-20-22		
Benzo(j,k)fluoranthene	**0.023**	0.012	EPA 8270E/SIM	5-20-22	5-20-22		
Benzo[a]pyrene	**0.0092**	0.012	EPA 8270E/SIM	5-20-22	5-20-22	J	0.0074
Indeno(1,2,3-c,d)pyrene	**ND**	0.012	EPA 8270E/SIM	5-20-22	5-20-22		0.0093
Dibenz[a,h]anthracene	**ND**	0.012	EPA 8270E/SIM	5-20-22	5-20-22		0.0091
Surrogate:	*Percent Recovery*	*Control Limits*					
2-Fluorobiphenyl	*59*	*25 - 106*					
Pyrene-d10	*83*	*28 - 104*					
Terphenyl-d14	*85*	*40 - 139*					
Client ID:	**PH-2-051722**						
Laboratory ID:	05-212-09						
Naphthalene	**0.31**	0.10	EPA 8270E/SIM	5-20-22	5-20-22		
Benzo[a]anthracene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22		
Chrysene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22		
Benzo[b]fluoranthene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22		
Benzo(j,k)fluoranthene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22		
Benzo[a]pyrene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22		
Indeno(1,2,3-c,d)pyrene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22		
Dibenz[a,h]anthracene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22		
Surrogate:	*Percent Recovery*	*Control Limits*					
2-Fluorobiphenyl	*59*	*20 - 106*					
Pyrene-d10	*87*	*19 - 104*					
Terphenyl-d14	*91*	*41 - 127*					

Date of Report: May 26, 2022
Samples Submitted: May 18, 2022
Laboratory Reference: 2205-212
Project: 397-066

PAHs EPA 8270E/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**PH-2-051722**					
Laboratory ID:	05-212-09					
Naphthalene	**0.31**	0.10	EPA 8270E/SIM	5-20-22	5-20-22	
Benzo[a]anthracene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22	
Chrysene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22	
Benzo[b]fluoranthene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22	
Benzo(j,k)fluoranthene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22	
Benzo[a]pyrene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22	
Indeno(1,2,3-c,d)pyrene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22	
Dibenz[a,h]anthracene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*59*	*20 - 106*				
Pyrene-d10	*87*	*19 - 104*				
Terphenyl-d14	*91*	*41 - 127*				

Date of Report: May 26, 2022
Samples Submitted: May 18, 2022
Laboratory Reference: 2205-212
Project: 397-066

PAHs EPA 8270E/SIM
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags	MDL
METHOD BLANK							
Laboratory ID:	MB0520W1						
Naphthalene	**ND**	0.10	EPA 8270E/SIM	5-20-22	5-20-22		0.013
Benzo[a]anthracene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22		0.0084
Chrysene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22		0.0093
Benzo[b]fluoranthene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22		0.0078
Benzo(j,k)fluoranthene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22		0.0081
Benzo[a]pyrene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22		0.0064
Indeno(1,2,3-c,d)pyrene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22		0.0080
Dibenz[a,h]anthracene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22		0.0078
Surrogate:	*Percent Recovery*	*Control Limits*					
2-Fluorobiphenyl	*70*	*25 - 106*					
Pyrene-d10	*88*	*28 - 104*					
Terphenyl-d14	*96*	*40 - 139*					

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0520W1									
	SB	SBD	SB	SBD	SB	SBD				
Naphthalene	**0.318**	**0.329**	0.500	0.500	64	66	29 - 96	3	38	
Acenaphthylene	**0.355**	**0.373**	0.500	0.500	71	75	42 - 101	5	28	
Acenaphthene	**0.362**	**0.375**	0.500	0.500	72	75	37 - 104	4	31	
Fluorene	**0.371**	**0.384**	0.500	0.500	74	77	48 - 101	3	21	
Phenanthrene	**0.367**	**0.394**	0.500	0.500	73	79	52 - 104	7	20	
Anthracene	**0.372**	**0.389**	0.500	0.500	74	78	50 - 106	4	20	
Fluoranthene	**0.402**	**0.416**	0.500	0.500	80	83	56 - 113	3	20	
Pyrene	**0.402**	**0.448**	0.500	0.500	80	90	55 - 123	11	27	
Benzo[a]anthracene	**0.436**	**0.457**	0.500	0.500	87	91	60 - 131	5	20	
Chrysene	**0.415**	**0.444**	0.500	0.500	83	89	62 - 120	7	20	
Benzo[b]fluoranthene	**0.410**	**0.417**	0.500	0.500	82	83	63 - 123	2	20	
Benzo(j,k)fluoranthene	**0.414**	**0.450**	0.500	0.500	83	90	60 - 127	8	20	
Benzo[a]pyrene	**0.403**	**0.413**	0.500	0.500	81	83	61 - 123	2	20	
Indeno(1,2,3-c,d)pyrene	**0.393**	**0.401**	0.500	0.500	79	80	60 - 125	2	20	
Dibenz[a,h]anthracene	**0.404**	**0.417**	0.500	0.500	81	83	61 - 124	3	20	
Benzo[g,h,i]perylene	**0.401**	**0.415**	0.500	0.500	80	83	59 - 122	3	20	
Surrogate:										
2-Fluorobiphenyl					*63*	*65*	*25 - 106*			
Pyrene-d10					*76*	*83*	*28 - 104*			
Terphenyl-d14					*85*	*90*	*40 - 139*			

Date of Report: May 26, 2022
Samples Submitted: May 18, 2022
Laboratory Reference: 2205-212
Project: 397-066

TOTAL METALS
EPA 200.8

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**B-37-4-051722**					
Laboratory ID:	05-212-01					
Arsenic	**ND**	3.0	EPA 200.8	5-23-22	5-23-22	
Barium	**120**	28	EPA 200.8	5-23-22	5-23-22	
Chromium	**ND**	10	EPA 200.8	5-23-22	5-23-22	
Lead	**ND**	1.1	EPA 200.8	5-23-22	5-23-22	
Client ID:	**B-37-9-051722**					
Laboratory ID:	05-212-02					
Arsenic	**12**	3.0	EPA 200.8	5-23-22	5-23-22	
Barium	**120**	28	EPA 200.8	5-23-22	5-23-22	
Chromium	**ND**	10	EPA 200.8	5-23-22	5-23-22	
Lead	**ND**	1.1	EPA 200.8	5-23-22	5-23-22	
Client ID:	**B-37-3-051722**					
Laboratory ID:	05-212-03					
Arsenic	**5.3**	3.0	EPA 200.8	5-23-22	5-23-22	
Barium	**110**	28	EPA 200.8	5-23-22	5-23-22	
Chromium	**ND**	10	EPA 200.8	5-23-22	5-23-22	
Lead	**ND**	1.1	EPA 200.8	5-23-22	5-23-22	
Client ID:	**MWR-6-051722**					
Laboratory ID:	05-212-04					
Arsenic	**ND**	3.0	EPA 200.8	5-23-22	5-23-22	
Barium	**140**	28	EPA 200.8	5-23-22	5-23-22	
Chromium	**ND**	10	EPA 200.8	5-23-22	5-23-22	
Lead	**ND**	1.1	EPA 200.8	5-23-22	5-23-22	
Client ID:	**B-37-1-051722**					
Laboratory ID:	05-212-05					
Arsenic	**ND**	3.0	EPA 200.8	5-23-22	5-23-22	
Barium	**140**	28	EPA 200.8	5-23-22	5-23-22	
Chromium	**ND**	10	EPA 200.8	5-23-22	5-23-22	
Lead	**ND**	1.1	EPA 200.8	5-23-22	5-23-22	

Date of Report: May 26, 2022
Samples Submitted: May 18, 2022
Laboratory Reference: 2205-212
Project: 397-066

TOTAL METALS
EPA 200.8

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-45-051722**					
Laboratory ID:	05-212-06					
Arsenic	**ND**	3.0	EPA 200.8	5-23-22	5-23-22	
Barium	**53**	28	EPA 200.8	5-23-22	5-23-22	
Chromium	**ND**	10	EPA 200.8	5-23-22	5-23-22	
Lead	**ND**	1.1	EPA 200.8	5-23-22	5-23-22	
Client ID:	**PH-1-051722**					
Laboratory ID:	05-212-07					
Arsenic	**3.4**	3.0	EPA 200.8	5-23-22	5-23-22	
Barium	**170**	28	EPA 200.8	5-23-22	5-23-22	
Chromium	**ND**	10	EPA 200.8	5-23-22	5-23-22	
Lead	**ND**	1.1	EPA 200.8	5-23-22	5-23-22	
Client ID:	**MW-50-051722**					
Laboratory ID:	05-212-08					
Arsenic	**20**	3.0	EPA 200.8	5-23-22	5-23-22	
Barium	**69**	28	EPA 200.8	5-23-22	5-23-22	
Chromium	**ND**	10	EPA 200.8	5-23-22	5-23-22	
Lead	**ND**	1.1	EPA 200.8	5-23-22	5-23-22	
Client ID:	**PH-2-051722**					
Laboratory ID:	05-212-09					
Arsenic	**8.7**	3.0	EPA 200.8	5-23-22	5-23-22	
Barium	**110**	28	EPA 200.8	5-23-22	5-23-22	
Chromium	**ND**	10	EPA 200.8	5-23-22	5-23-22	
Lead	**ND**	1.1	EPA 200.8	5-23-22	5-23-22	

Date of Report: May 26, 2022
Samples Submitted: May 18, 2022
Laboratory Reference: 2205-212
Project: 397-066

TOTAL METALS
EPA 200.8
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0523WM1					
Arsenic	**ND**	3.0	EPA 200.8	5-23-22	5-23-22	
Barium	**ND**	28	EPA 200.8	5-23-22	5-23-22	
Chromium	**ND**	10	EPA 200.8	5-23-22	5-23-22	
Lead	**ND**	1.1	EPA 200.8	5-23-22	5-23-22	

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	05-063-07									
	ORIG	DUP								
Arsenic	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Barium	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Chromium	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Lead	**ND**	**ND**	NA	NA		NA	NA	NA	20	
MATRIX SPIKES										
Laboratory ID:	05-063-07									
	MS	MSD	MS	MSD		MS	MSD			
Arsenic	**131**	**123**	111	111	ND	**118**	**111**	75-125	6	20
Barium	**148**	**139**	111	111	23.1	**113**	**105**	75-125	6	20
Chromium	**122**	**113**	111	111	ND	**110**	**102**	75-125	8	20
Lead	**123**	**114**	111	111	ND	**111**	**103**	75-125	7	20

Date of Report: May 26, 2022
Samples Submitted: May 18, 2022
Laboratory Reference: 2205-212
Project: 397-066

DISSOLVED METALS
EPA 200.8

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**B-37-4-051722**					
Laboratory ID:	05-212-01					
Arsenic	**ND**	3.0	EPA 200.8	5-18-22	5-23-22	
Barium	**83**	25	EPA 200.8	5-18-22	5-23-22	
Chromium	**ND**	10	EPA 200.8	5-18-22	5-23-22	
Lead	**ND**	1.0	EPA 200.8	5-18-22	5-23-22	
Client ID:	**B-37-9-051722**					
Laboratory ID:	05-212-02					
Arsenic	**7.7**	3.0	EPA 200.8	5-18-22	5-23-22	
Barium	**83**	25	EPA 200.8	5-18-22	5-23-22	
Chromium	**ND**	10	EPA 200.8	5-18-22	5-23-22	
Lead	**ND**	1.0	EPA 200.8	5-18-22	5-23-22	
Client ID:	**B-37-3-051722**					
Laboratory ID:	05-212-03					
Arsenic	**ND**	3.0	EPA 200.8	5-18-22	5-23-22	
Barium	**68**	25	EPA 200.8	5-18-22	5-23-22	
Chromium	**ND**	10	EPA 200.8	5-18-22	5-23-22	
Lead	**ND**	1.0	EPA 200.8	5-18-22	5-23-22	
Client ID:	**MWR-6-051722**					
Laboratory ID:	05-212-04					
Arsenic	**ND**	3.0	EPA 200.8	5-18-22	5-23-22	
Barium	**70**	25	EPA 200.8	5-18-22	5-23-22	
Chromium	**ND**	10	EPA 200.8	5-18-22	5-23-22	
Lead	**ND**	1.0	EPA 200.8	5-18-22	5-23-22	
Client ID:	**B-37-1-051722**					
Laboratory ID:	05-212-05					
Arsenic	**ND**	3.0	EPA 200.8	5-18-22	5-23-22	
Barium	**98**	25	EPA 200.8	5-18-22	5-23-22	
Chromium	**ND**	10	EPA 200.8	5-18-22	5-23-22	
Lead	**ND**	1.0	EPA 200.8	5-18-22	5-23-22	

Date of Report: May 26, 2022
Samples Submitted: May 18, 2022
Laboratory Reference: 2205-212
Project: 397-066

DISSOLVED METALS
EPA 200.8

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-45-051722**					
Laboratory ID:	05-212-06					
Arsenic	**ND**	3.0	EPA 200.8	5-18-22	5-23-22	
Barium	**43**	25	EPA 200.8	5-18-22	5-23-22	
Chromium	**ND**	10	EPA 200.8	5-18-22	5-23-22	
Lead	**ND**	1.0	EPA 200.8	5-18-22	5-23-22	
Client ID:	**PH-1-051722**					
Laboratory ID:	05-212-07					
Arsenic	**ND**	3.0	EPA 200.8	5-18-22	5-23-22	
Barium	**100**	25	EPA 200.8	5-18-22	5-23-22	
Chromium	**ND**	10	EPA 200.8	5-18-22	5-23-22	
Lead	**ND**	1.0	EPA 200.8	5-18-22	5-23-22	
Client ID:	**MW-50-051722**					
Laboratory ID:	05-212-08					
Arsenic	**11**	3.0	EPA 200.8	5-18-22	5-23-22	
Barium	**35**	25	EPA 200.8	5-18-22	5-23-22	
Chromium	**ND**	10	EPA 200.8	5-18-22	5-23-22	
Lead	**ND**	1.0	EPA 200.8	5-18-22	5-23-22	
Client ID:	**PH-2-051722**					
Laboratory ID:	05-212-09					
Arsenic	**3.6**	3.0	EPA 200.8	5-18-22	5-23-22	
Barium	**79**	25	EPA 200.8	5-18-22	5-23-22	
Chromium	**ND**	10	EPA 200.8	5-18-22	5-23-22	
Lead	**ND**	1.0	EPA 200.8	5-18-22	5-23-22	

Date of Report: May 26, 2022
Samples Submitted: May 18, 2022
Laboratory Reference: 2205-212
Project: 397-066

DISSOLVED METALS
EPA 200.8
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0518F1					
Arsenic	**ND**	3.0	EPA 200.8	5-18-22	5-23-22	
Barium	**ND**	25	EPA 200.8	5-18-22	5-23-22	
Chromium	**ND**	10	EPA 200.8	5-18-22	5-23-22	
Lead	**ND**	1.0	EPA 200.8	5-18-22	5-23-22	

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	05-212-03									
	ORIG	DUP								
Arsenic	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Barium	**68.4**	**69.0**	NA	NA		NA	NA	1	20	
Chromium	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Lead	**ND**	**ND**	NA	NA		NA	NA	NA	20	
MATRIX SPIKES										
Laboratory ID:	05-212-03									
	MS	MSD	MS	MSD		MS	MSD			
Arsenic	**94.6**	**95.0**	80.0	80.0	ND	**118**	**119**	75-125	0	20
Barium	**147**	**145**	80.0	80.0	68.4	**98**	**96**	75-125	1	20
Chromium	**76.6**	**75.8**	80.0	80.0	ND	**96**	**95**	75-125	1	20
Lead	**74.0**	**74.2**	80.0	80.0	ND	**93**	**93**	75-125	0	20

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

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

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody

Page 1 of 1

OnSite Environmental Inc.
Analytical Laboratory Testing Services
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Phone: (425) 883-3881 • www.onsite-env.com

Company: FARALLON
Project Number: 397-066
Project Name: BLOCK 37 PROPERTY
Project Manager: BRANI JURISTA
Sampled by: K. ZYGAS / G. MCKENNEY

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☒ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 05-212

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (Acid / SG Clean-up☐)	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level)	PCBs 8082 A	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	BTEX (8260D)	cPAHs + Naphthalene/8270E/Selective ion monitoring	Metals (As, Ba, Cr, Pb) TOTAL + DISSOLVED	% Moisture
1	B-37-4-051722	~~5-17-22~~ ~~1023~~ KB	1023	W	13			X	X														X	X	X	
2	B-37-9-051722	5-17-22	1046	W	13			X	X														X	X	X	
3	B-37-3-051722		1133	W	13			X	X						X								X	X	X	
4	MWR-6-051722		1228	W	13			X	X														X	X	X	
5	B-37-1-051722		1308	W	13			X	X						X								X	X	X	
6	MW-45-051722		1413	W	13			X	X														X	X	X	
7	PH-1-051722		1443	W	13			X	X						X								X	X	X	
8	MW-50-051722		1552	W	13			X	X														X	X	X	
9	PH-2-051722		1607	W	13			X	X						X								X	X	X	
																	5-18-22									KB

	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished	Brani Jurista Van	FARALLON	5/18/22	1059	
Received		5 Day	5/18/22	1059	
Relinquished	Van	5 Day	5/18/22	1146	
Received		OSE	5/18/22	1146	
Relinquished					
Received					Data Package: Standard ☐ Level III ☐ Level IV ☐
Reviewed/Date		Reviewed/Date			Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

May 27, 2022

Brani Jurista
Farallon Consulting
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 397-066
Laboratory Reference No. 2205-219

Dear Brani:

Enclosed are the analytical results and associated quality control data for samples submitted on May 19, 2022.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: May 27, 2022
Samples Submitted: May 19, 2022
Laboratory Reference: 2205-219
Project: 397-066

Case Narrative

Samples were collected on May 18, 2022 and received by the laboratory on May 19, 2022. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: May 27, 2022
Samples Submitted: May 19, 2022
Laboratory Reference: 2205-219
Project: 397-066

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**B-37-6-051822**					
Laboratory ID:	05-219-01					
Gasoline	**ND**	122	NWTPH-Gx	5-20-22	5-20-22	U1
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*91*	*65-122*				
Client ID:	**B-37-8-051822**					
Laboratory ID:	05-219-02					
Gasoline	**ND**	100	NWTPH-Gx	5-20-22	5-20-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*91*	*65-122*				
Client ID:	**B-37-5-051822**					
Laboratory ID:	05-219-03					
Gasoline	**ND**	100	NWTPH-Gx	5-20-22	5-20-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*91*	*65-122*				
Client ID:	**B-37-7-051822**					
Laboratory ID:	05-219-04					
Gasoline	**ND**	100	NWTPH-Gx	5-20-22	5-20-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*91*	*65-122*				
Client ID:	**PH-3-051822**					
Laboratory ID:	05-219-05					
Gasoline	**ND**	100	NWTPH-Gx	5-20-22	5-20-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*91*	*65-122*				
Client ID:	**B-37-2-051822**					
Laboratory ID:	05-219-06					
Gasoline	**ND**	100	NWTPH-Gx	5-20-22	5-20-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*92*	*65-122*				
Client ID:	**MWR-3-051822**					
Laboratory ID:	05-219-08					
Gasoline	**ND**	100	NWTPH-Gx	5-20-22	5-20-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*91*	*65-122*				

Date of Report: May 27, 2022
Samples Submitted: May 19, 2022
Laboratory Reference: 2205-219
Project: 397-066

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-54-051822**					
Laboratory ID:	05-219-09					
Gasoline	**ND**	100	NWTPH-Gx	5-20-22	5-20-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*91*	*65-122*				
Client ID:	**FMW-139-051822**					
Laboratory ID:	05-219-10					
Gasoline	**ND**	100	NWTPH-Gx	5-20-22	5-20-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*91*	*65-122*				

Date of Report: May 27, 2022
Samples Submitted: May 19, 2022
Laboratory Reference: 2205-219
Project: 397-066

GASOLINE RANGE ORGANICS
NWTPH-Gx
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0520W2					
Gasoline	**ND**	100	NWTPH-Gx	5-20-22	5-20-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*92*	*65-122*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	05-228-01										
	ORIG	DUP									
Gasoline	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Surrogate:											
Fluorobenzene						*92*	*92*	*65-122*			

Date of Report: May 27, 2022
Samples Submitted: May 19, 2022
Laboratory Reference: 2205-219
Project: 397-066

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Water
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**B-37-6-051822**					
Laboratory ID:	05-219-01					
Diesel Range Organics	**ND**	0.15	NWTPH-Dx	5-24-22	5-24-22	
Lube Oil Range Organics	**0.33**	0.20	NWTPH-Dx	5-24-22	5-24-22	
DRO/LRO C10-C36	**ND**	0.26	NWTPH-Dx	5-24-22	5-24-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*84*	*50-150*				
Client ID:	**B-37-8-051822**					
Laboratory ID:	05-219-02					
Diesel Range Organics	**ND**	0.15	NWTPH-Dx	5-24-22	5-24-22	
Lube Oil Range Organics	**0.23**	0.20	NWTPH-Dx	5-24-22	5-24-22	
DRO/LRO C10-C36	**ND**	0.25	NWTPH-Dx	5-24-22	5-24-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*81*	*50-150*				
Client ID:	**B-37-5-051822**					
Laboratory ID:	05-219-03					
Diesel Range Organics	**ND**	0.16	NWTPH-Dx	5-24-22	5-24-22	
Lube Oil Range Organics	**0.26**	0.22	NWTPH-Dx	5-24-22	5-24-22	
DRO/LRO C10-C36	**ND**	0.27	NWTPH-Dx	5-24-22	5-24-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*89*	*50-150*				
Client ID:	**B-37-7-051822**					
Laboratory ID:	05-219-04					
Diesel Range Organics	**ND**	0.18	NWTPH-Dx	5-24-22	5-24-22	
Lube Oil Range Organics	**0.28**	0.24	NWTPH-Dx	5-24-22	5-24-22	
DRO/LRO C10-C36	**ND**	0.30	NWTPH-Dx	5-24-22	5-24-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*103*	*50-150*				
Client ID:	**PH-3-051822**					
Laboratory ID:	05-219-05					
Diesel Range Organics	**ND**	0.16	NWTPH-Dx	5-24-22	5-24-22	
Lube Oil Range Organics	**0.27**	0.21	NWTPH-Dx	5-24-22	5-24-22	
DRO/LRO C10-C36	**ND**	0.26	NWTPH-Dx	5-24-22	5-24-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*86*	*50-150*				

Date of Report: May 27, 2022
Samples Submitted: May 19, 2022
Laboratory Reference: 2205-219
Project: 397-066

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Water
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**B-37-2-051822**					
Laboratory ID:	05-219-06					
Diesel Range Organics	**ND**	0.16	NWTPH-Dx	5-24-22	5-24-22	
Lube Oil Range Organics	**ND**	0.22	NWTPH-Dx	5-24-22	5-24-22	
DRO/LRO C10-C36	**ND**	0.27	NWTPH-Dx	5-24-22	5-24-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*87*	*50-150*				
Client ID:	**FMW-131-051822**					
Laboratory ID:	05-219-07					
Diesel Range Organics	**ND**	0.17	NWTPH-Dx	5-26-22	5-26-22	
Lube Oil Range Organics	**0.28**	0.23	NWTPH-Dx	5-26-22	5-26-22	
DRO/LRO C10-C36	**ND**	0.29	NWTPH-Dx	5-26-22	5-26-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*95*	*50-150*				
Client ID:	**MWR-3-051822**					
Laboratory ID:	05-219-08					
Diesel Range Organics	**ND**	0.17	NWTPH-Dx	5-24-22	5-24-22	
Lube Oil Range Organics	**ND**	0.22	NWTPH-Dx	5-24-22	5-24-22	
DRO/LRO C10-C36	**ND**	0.28	NWTPH-Dx	5-24-22	5-24-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*88*	*50-150*				
Client ID:	**MW-54-051822**					
Laboratory ID:	05-219-09					
Diesel Range Organics	**ND**	0.17	NWTPH-Dx	5-24-22	5-24-22	
Lube Oil Range Organics	**ND**	0.22	NWTPH-Dx	5-24-22	5-24-22	
DRO/LRO C10-C36	**ND**	0.28	NWTPH-Dx	5-24-22	5-24-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*91*	*50-150*				
Client ID:	**FMW-139-051822**					
Laboratory ID:	05-219-10					
Diesel Range Organics	**ND**	0.16	NWTPH-Dx	5-24-22	5-24-22	
Lube Oil Range Organics	**ND**	0.21	NWTPH-Dx	5-24-22	5-24-22	
DRO/LRO C10-C36	**ND**	0.27	NWTPH-Dx	5-24-22	5-24-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*97*	*50-150*				

Date of Report: May 27, 2022
Samples Submitted: May 19, 2022
Laboratory Reference: 2205-219
Project: 397-066

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx
QUALITY CONTROL

Matrix: Water
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0524W1					
Diesel Range Organics	**ND**	0.12	NWTPH-Dx	5-24-22	5-24-22	
Lube Oil Range Organics	**ND**	0.16	NWTPH-Dx	5-24-22	5-24-22	
DRO/LRO C10-C36	**ND**	0.20	NWTPH-Dx	5-24-22	5-24-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*77*	*50-150*				
Laboratory ID:	MB0526W1					
Diesel Range Organics	**ND**	0.12	NWTPH-Dx	5-26-22	5-26-22	
Lube Oil Range Organics	**ND**	0.16	NWTPH-Dx	5-26-22	5-26-22	
DRO/LRO C10-C36	**ND**	0.20	NWTPH-Dx	5-26-22	5-26-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*91*	*50-150*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	05-219-07										
	ORIG	DUP									
Diesel Range	**ND**	**ND**	NA	NA		NA		NA	NA	NA	
Lube Oil Range Organics	**0.279**	**0.266**	NA	NA		NA		NA	5	NA	
Surrogate:											
o-Terphenyl						*95*	*93*	*50-150*			
Laboratory ID:	SB0524W1										
	ORIG	DUP									
Diesel Fuel #2	**0.420**	**0.399**	NA	NA		NA		NA	5	NA	
Lube Oil Range	**ND**	**ND**	NA	NA		NA		NA	NA	NA	
Surrogate:											
o-Terphenyl						*89*	*95*	*50-150*			

Date of Report: May 27, 2022
Samples Submitted: May 19, 2022
Laboratory Reference: 2205-219
Project: 397-066

PAHs EPA 8270E/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**B-37-6-051822**					
Laboratory ID:	05-219-01					
Naphthalene	**ND**	0.10	EPA 8270E/SIM	5-20-22	5-20-22	
Benzo[a]anthracene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22	
Chrysene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22	
Benzo[b]fluoranthene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22	
Benzo(j,k)fluoranthene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22	
Benzo[a]pyrene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22	
Indeno(1,2,3-c,d)pyrene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22	
Dibenz[a,h]anthracene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*57*	*20 - 106*				
Pyrene-d10	*80*	*19 - 104*				
Terphenyl-d14	*80*	*41 - 127*				
Client ID:	**B-37-8-051822**					
Laboratory ID:	05-219-02					
Naphthalene	**ND**	0.10	EPA 8270E/SIM	5-20-22	5-20-22	
Benzo[a]anthracene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22	
Chrysene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22	
Benzo[b]fluoranthene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22	
Benzo(j,k)fluoranthene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22	
Benzo[a]pyrene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22	
Indeno(1,2,3-c,d)pyrene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22	
Dibenz[a,h]anthracene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*56*	*20 - 106*				
Pyrene-d10	*80*	*19 - 104*				
Terphenyl-d14	*87*	*41 - 127*				
Client ID:	**B-37-5-051822**					
Laboratory ID:	05-219-03					
Naphthalene	**ND**	0.098	EPA 8270E/SIM	5-20-22	5-20-22	
Benzo[a]anthracene	**ND**	0.0098	EPA 8270E/SIM	5-20-22	5-20-22	
Chrysene	**ND**	0.0098	EPA 8270E/SIM	5-20-22	5-20-22	
Benzo[b]fluoranthene	**ND**	0.0098	EPA 8270E/SIM	5-20-22	5-20-22	
Benzo(j,k)fluoranthene	**ND**	0.0098	EPA 8270E/SIM	5-20-22	5-20-22	
Benzo[a]pyrene	**ND**	0.0098	EPA 8270E/SIM	5-20-22	5-20-22	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0098	EPA 8270E/SIM	5-20-22	5-20-22	
Dibenz[a,h]anthracene	**ND**	0.0098	EPA 8270E/SIM	5-20-22	5-20-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*59*	*20 - 106*				
Pyrene-d10	*77*	*19 - 104*				
Terphenyl-d14	*84*	*41 - 127*				

Date of Report: May 27, 2022
Samples Submitted: May 19, 2022
Laboratory Reference: 2205-219
Project: 397-066

PAHs EPA 8270E/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**B-37-7-051822**					
Laboratory ID:	05-219-04					
Naphthalene	**ND**	0.11	EPA 8270E/SIM	5-20-22	5-20-22	
Benzo[a]anthracene	**ND**	0.011	EPA 8270E/SIM	5-20-22	5-20-22	
Chrysene	**ND**	0.011	EPA 8270E/SIM	5-20-22	5-20-22	
Benzo[b]fluoranthene	**ND**	0.011	EPA 8270E/SIM	5-20-22	5-20-22	
Benzo(j,k)fluoranthene	**ND**	0.011	EPA 8270E/SIM	5-20-22	5-20-22	
Benzo[a]pyrene	**ND**	0.011	EPA 8270E/SIM	5-20-22	5-20-22	
Indeno(1,2,3-c,d)pyrene	**ND**	0.011	EPA 8270E/SIM	5-20-22	5-20-22	
Dibenz[a,h]anthracene	**ND**	0.011	EPA 8270E/SIM	5-20-22	5-20-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*56*	*25 - 106*				
Pyrene-d10	*75*	*28 - 104*				
Terphenyl-d14	*78*	*40 - 139*				
Client ID:	**PH-3-051822**					
Laboratory ID:	05-219-05					
Naphthalene	**ND**	0.10	EPA 8270E/SIM	5-20-22	5-20-22	
Benzo[a]anthracene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22	
Chrysene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22	
Benzo[b]fluoranthene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22	
Benzo(j,k)fluoranthene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22	
Benzo[a]pyrene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22	
Indeno(1,2,3-c,d)pyrene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22	
Dibenz[a,h]anthracene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*58*	*20 - 106*				
Pyrene-d10	*82*	*19 - 104*				
Terphenyl-d14	*84*	*41 - 127*				
Client ID:	**B-37-2-051822**					
Laboratory ID:	05-219-06					
Naphthalene	**ND**	0.099	EPA 8270E/SIM	5-20-22	5-20-22	
Benzo[a]anthracene	**ND**	0.0099	EPA 8270E/SIM	5-20-22	5-20-22	
Chrysene	**ND**	0.0099	EPA 8270E/SIM	5-20-22	5-20-22	
Benzo[b]fluoranthene	**ND**	0.0099	EPA 8270E/SIM	5-20-22	5-20-22	
Benzo(j,k)fluoranthene	**ND**	0.0099	EPA 8270E/SIM	5-20-22	5-20-22	
Benzo[a]pyrene	**ND**	0.0099	EPA 8270E/SIM	5-20-22	5-20-22	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0099	EPA 8270E/SIM	5-20-22	5-20-22	
Dibenz[a,h]anthracene	**ND**	0.0099	EPA 8270E/SIM	5-20-22	5-20-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*57*	*20 - 106*				
Pyrene-d10	*89*	*19 - 104*				
Terphenyl-d14	*88*	*41 - 127*				

Date of Report: May 27, 2022
Samples Submitted: May 19, 2022
Laboratory Reference: 2205-219
Project: 397-066

PAHs EPA 8270E/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FMW-131-051822**					
Laboratory ID:	05-219-07					
Naphthalene	**ND**	0.10	EPA 8270E/SIM	5-20-22	5-20-22	
Benzo[a]anthracene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22	
Chrysene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22	
Benzo[b]fluoranthene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22	
Benzo(j,k)fluoranthene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22	
Benzo[a]pyrene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22	
Indeno(1,2,3-c,d)pyrene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22	
Dibenz[a,h]anthracene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*38*	*20 - 106*				
Pyrene-d10	*50*	*19 - 104*				
Terphenyl-d14	*51*	*41 - 127*				
Client ID:	**MWR-3-051822**					
Laboratory ID:	05-219-08					
Naphthalene	**ND**	0.10	EPA 8270E/SIM	5-20-22	5-20-22	
Benzo[a]anthracene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22	
Chrysene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22	
Benzo[b]fluoranthene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22	
Benzo(j,k)fluoranthene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22	
Benzo[a]pyrene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22	
Indeno(1,2,3-c,d)pyrene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22	
Dibenz[a,h]anthracene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*65*	*20 - 106*				
Pyrene-d10	*79*	*19 - 104*				
Terphenyl-d14	*85*	*41 - 127*				
Client ID:	**MW-54-051822**					
Laboratory ID:	05-219-09					
Naphthalene	**ND**	0.11	EPA 8270E/SIM	5-20-22	5-20-22	
Benzo[a]anthracene	**ND**	0.011	EPA 8270E/SIM	5-20-22	5-20-22	
Chrysene	**ND**	0.011	EPA 8270E/SIM	5-20-22	5-20-22	
Benzo[b]fluoranthene	**ND**	0.011	EPA 8270E/SIM	5-20-22	5-20-22	
Benzo(j,k)fluoranthene	**ND**	0.011	EPA 8270E/SIM	5-20-22	5-20-22	
Benzo[a]pyrene	**ND**	0.011	EPA 8270E/SIM	5-20-22	5-20-22	
Indeno(1,2,3-c,d)pyrene	**ND**	0.011	EPA 8270E/SIM	5-20-22	5-20-22	
Dibenz[a,h]anthracene	**ND**	0.011	EPA 8270E/SIM	5-20-22	5-20-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*55*	*25 - 106*				
Pyrene-d10	*76*	*28 - 104*				
Terphenyl-d14	*80*	*40 - 139*				

Date of Report: May 27, 2022
Samples Submitted: May 19, 2022
Laboratory Reference: 2205-219
Project: 397-066

PAHs EPA 8270E/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FMW-139-051822**					
Laboratory ID:	05-219-10					
Naphthalene	**ND**	0.10	EPA 8270E/SIM	5-20-22	5-20-22	
Benzo[a]anthracene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22	
Chrysene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22	
Benzo[b]fluoranthene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22	
Benzo(j,k)fluoranthene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22	
Benzo[a]pyrene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22	
Indeno(1,2,3-c,d)pyrene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22	
Dibenz[a,h]anthracene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*53*	*20 - 106*				
Pyrene-d10	*73*	*19 - 104*				
Terphenyl-d14	*70*	*41 - 127*				

Date of Report: May 27, 2022
Samples Submitted: May 19, 2022
Laboratory Reference: 2205-219
Project: 397-066

PAHs EPA 8270E/SIM
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0520W1					
Naphthalene	**ND**	0.10	EPA 8270E/SIM	5-20-22	5-20-22	
Benzo[a]anthracene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22	
Chrysene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22	
Benzo[b]fluoranthene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22	
Benzo(j,k)fluoranthene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22	
Benzo[a]pyrene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22	
Indeno(1,2,3-c,d)pyrene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22	
Dibenz[a,h]anthracene	**ND**	0.010	EPA 8270E/SIM	5-20-22	5-20-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*70*	*25 - 106*				
Pyrene-d10	*88*	*28 - 104*				
Terphenyl-d14	*96*	*40 - 139*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0520W1									
	SB	SBD	SB	SBD	SB	SBD				
Naphthalene	**0.318**	**0.329**	0.500	0.500	64	66	29 - 96	3	38	
Acenaphthylene	**0.355**	**0.373**	0.500	0.500	71	75	42 - 101	5	28	
Acenaphthene	**0.362**	**0.375**	0.500	0.500	72	75	37 - 104	4	31	
Fluorene	**0.371**	**0.384**	0.500	0.500	74	77	48 - 101	3	21	
Phenanthrene	**0.367**	**0.394**	0.500	0.500	73	79	52 - 104	7	20	
Anthracene	**0.372**	**0.389**	0.500	0.500	74	78	50 - 106	4	20	
Fluoranthene	**0.402**	**0.416**	0.500	0.500	80	83	56 - 113	3	20	
Pyrene	**0.402**	**0.448**	0.500	0.500	80	90	55 - 123	11	27	
Benzo[a]anthracene	**0.436**	**0.457**	0.500	0.500	87	91	60 - 131	5	20	
Chrysene	**0.415**	**0.444**	0.500	0.500	83	89	62 - 120	7	20	
Benzo[b]fluoranthene	**0.410**	**0.417**	0.500	0.500	82	83	63 - 123	2	20	
Benzo(j,k)fluoranthene	**0.414**	**0.450**	0.500	0.500	83	90	60 - 127	8	20	
Benzo[a]pyrene	**0.403**	**0.413**	0.500	0.500	81	83	61 - 123	2	20	
Indeno(1,2,3-c,d)pyrene	**0.393**	**0.401**	0.500	0.500	79	80	60 - 125	2	20	
Dibenz[a,h]anthracene	**0.404**	**0.417**	0.500	0.500	81	83	61 - 124	3	20	
Benzo[g,h,i]perylene	**0.401**	**0.415**	0.500	0.500	80	83	59 - 122	3	20	
Surrogate:										
2-Fluorobiphenyl					*63*	*65*	*25 - 106*			
Pyrene-d10					*76*	*83*	*28 - 104*			
Terphenyl-d14					*85*	*90*	*40 - 139*			

Date of Report: May 27, 2022
Samples Submitted: May 19, 2022
Laboratory Reference: 2205-219
Project: 397-066

PCBs EPA 8082A

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**PH-3-051822**					
Laboratory ID:	05-219-05					
Aroclor 1016	**ND**	0.052	EPA 8082A	5-25-22	5-25-22	
Aroclor 1221	**ND**	0.052	EPA 8082A	5-25-22	5-25-22	
Aroclor 1232	**ND**	0.052	EPA 8082A	5-25-22	5-25-22	
Aroclor 1242	**ND**	0.052	EPA 8082A	5-25-22	5-25-22	
Aroclor 1248	**ND**	0.052	EPA 8082A	5-25-22	5-25-22	
Aroclor 1254	**ND**	0.052	EPA 8082A	5-25-22	5-25-22	
Aroclor 1260	**ND**	0.052	EPA 8082A	5-25-22	5-25-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*129*	*49-133*				
Client ID:	**MWR-3-051822**					
Laboratory ID:	05-219-08					
Aroclor 1016	**ND**	0.053	EPA 8082A	5-25-22	5-25-22	
Aroclor 1221	**ND**	0.053	EPA 8082A	5-25-22	5-25-22	
Aroclor 1232	**ND**	0.053	EPA 8082A	5-25-22	5-25-22	
Aroclor 1242	**ND**	0.053	EPA 8082A	5-25-22	5-25-22	
Aroclor 1248	**ND**	0.053	EPA 8082A	5-25-22	5-25-22	
Aroclor 1254	**ND**	0.053	EPA 8082A	5-25-22	5-25-22	
Aroclor 1260	**ND**	0.053	EPA 8082A	5-25-22	5-25-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*119*	*49-133*				

Date of Report: May 27, 2022
Samples Submitted: May 19, 2022
Laboratory Reference: 2205-219
Project: 397-066

PCBs EPA 8082A
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0525W1					
Aroclor 1016	**ND**	0.050	EPA 8082A	5-25-22	5-25-22	
Aroclor 1221	**ND**	0.050	EPA 8082A	5-25-22	5-25-22	
Aroclor 1232	**ND**	0.050	EPA 8082A	5-25-22	5-25-22	
Aroclor 1242	**ND**	0.050	EPA 8082A	5-25-22	5-25-22	
Aroclor 1248	**ND**	0.050	EPA 8082A	5-25-22	5-25-22	
Aroclor 1254	**ND**	0.050	EPA 8082A	5-25-22	5-25-22	
Aroclor 1260	**ND**	0.050	EPA 8082A	5-25-22	5-25-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*114*	*49-133*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB0525W2										
	SB	SBD	SB	SBD		SB	SBD				
Aroclor 1260	**0.479**	**0.458**	0.500	0.500	N/A	**96**	**92**	67-120	4	15	
Surrogate:											
DCB						*122*	*114*	*49-133*			

Date of Report: May 27, 2022
Samples Submitted: May 19, 2022
Laboratory Reference: 2205-219
Project: 397-066

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**B-37-6-051822**					
Laboratory ID:	05-219-01					
Benzene	ND	0.20	EPA 8260D	5-23-22	5-23-22	
Toluene	ND	1.0	EPA 8260D	5-23-22	5-23-22	
Ethylbenzene	ND	0.20	EPA 8260D	5-23-22	5-23-22	
m,p-Xylene	ND	0.40	EPA 8260D	5-23-22	5-23-22	
o-Xylene	ND	0.20	EPA 8260D	5-23-22	5-23-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*106*	*75-127*				
Toluene-d8	*99*	*80-127*				
4-Bromofluorobenzene	*99*	*78-125*				
Client ID:	**B-37-8-051822**					
Laboratory ID:	05-219-02					
Benzene	ND	0.20	EPA 8260D	5-23-22	5-23-22	
Toluene	ND	1.0	EPA 8260D	5-23-22	5-23-22	
Ethylbenzene	ND	0.20	EPA 8260D	5-23-22	5-23-22	
m,p-Xylene	ND	0.40	EPA 8260D	5-23-22	5-23-22	
o-Xylene	ND	0.20	EPA 8260D	5-23-22	5-23-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*105*	*75-127*				
Toluene-d8	*97*	*80-127*				
4-Bromofluorobenzene	*97*	*78-125*				
Client ID:	**B-37-5-051822**					
Laboratory ID:	05-219-03					
Benzene	ND	0.20	EPA 8260D	5-23-22	5-23-22	
Toluene	ND	1.0	EPA 8260D	5-23-22	5-23-22	
Ethylbenzene	ND	0.20	EPA 8260D	5-23-22	5-23-22	
m,p-Xylene	ND	0.40	EPA 8260D	5-23-22	5-23-22	
o-Xylene	ND	0.20	EPA 8260D	5-23-22	5-23-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*104*	*75-127*				
Toluene-d8	*98*	*80-127*				
4-Bromofluorobenzene	*96*	*78-125*				

Date of Report: May 27, 2022
Samples Submitted: May 19, 2022
Laboratory Reference: 2205-219
Project: 397-066

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**B-37-7-051822**					
Laboratory ID:	05-219-04					
Benzene	ND	0.20	EPA 8260D	5-23-22	5-23-22	
Toluene	ND	1.0	EPA 8260D	5-23-22	5-23-22	
Ethylbenzene	ND	0.20	EPA 8260D	5-23-22	5-23-22	
m,p-Xylene	ND	0.40	EPA 8260D	5-23-22	5-23-22	
o-Xylene	ND	0.20	EPA 8260D	5-23-22	5-23-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*102*	*75-127*				
Toluene-d8	*97*	*80-127*				
4-Bromofluorobenzene	*98*	*78-125*				
Client ID:	**PH-3-051822**					
Laboratory ID:	05-219-05					
Benzene	ND	0.20	EPA 8260D	5-23-22	5-23-22	
Toluene	ND	1.0	EPA 8260D	5-23-22	5-23-22	
Ethylbenzene	ND	0.20	EPA 8260D	5-23-22	5-23-22	
m,p-Xylene	ND	0.40	EPA 8260D	5-23-22	5-23-22	
o-Xylene	ND	0.20	EPA 8260D	5-23-22	5-23-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*102*	*75-127*				
Toluene-d8	*98*	*80-127*				
4-Bromofluorobenzene	*97*	*78-125*				
Client ID:	**B-37-2-051822**					
Laboratory ID:	05-219-06					
Benzene	2.8	0.20	EPA 8260D	5-23-22	5-23-22	
Toluene	ND	1.0	EPA 8260D	5-23-22	5-23-22	
Ethylbenzene	ND	0.20	EPA 8260D	5-23-22	5-23-22	
m,p-Xylene	ND	0.40	EPA 8260D	5-23-22	5-23-22	
o-Xylene	ND	0.20	EPA 8260D	5-23-22	5-23-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*106*	*75-127*				
Toluene-d8	*96*	*80-127*				
4-Bromofluorobenzene	*98*	*78-125*				

Date of Report: May 27, 2022
Samples Submitted: May 19, 2022
Laboratory Reference: 2205-219
Project: 397-066

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FMW-131-051822**					
Laboratory ID:	05-219-07					
Benzene	ND	0.20	EPA 8260D	5-23-22	5-23-22	
Toluene	ND	1.0	EPA 8260D	5-23-22	5-23-22	
Ethylbenzene	ND	0.20	EPA 8260D	5-23-22	5-23-22	
m,p-Xylene	ND	0.40	EPA 8260D	5-23-22	5-23-22	
o-Xylene	ND	0.20	EPA 8260D	5-23-22	5-23-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*104*	*75-127*				
Toluene-d8	*99*	*80-127*				
4-Bromofluorobenzene	*98*	*78-125*				
Client ID:	**MWR-3-051822**					
Laboratory ID:	05-219-08					
Benzene	ND	0.20	EPA 8260D	5-23-22	5-23-22	
Toluene	ND	1.0	EPA 8260D	5-23-22	5-23-22	
Ethylbenzene	ND	0.20	EPA 8260D	5-23-22	5-23-22	
m,p-Xylene	ND	0.40	EPA 8260D	5-23-22	5-23-22	
o-Xylene	ND	0.20	EPA 8260D	5-23-22	5-23-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*104*	*75-127*				
Toluene-d8	*99*	*80-127*				
4-Bromofluorobenzene	*98*	*78-125*				
Client ID:	**MW-54-051822**					
Laboratory ID:	05-219-09					
Benzene	ND	0.20	EPA 8260D	5-23-22	5-23-22	
Toluene	ND	1.0	EPA 8260D	5-23-22	5-23-22	
Ethylbenzene	ND	0.20	EPA 8260D	5-23-22	5-23-22	
m,p-Xylene	ND	0.40	EPA 8260D	5-23-22	5-23-22	
o-Xylene	ND	0.20	EPA 8260D	5-23-22	5-23-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*104*	*75-127*				
Toluene-d8	*99*	*80-127*				
4-Bromofluorobenzene	*98*	*78-125*				

Date of Report: May 27, 2022
Samples Submitted: May 19, 2022
Laboratory Reference: 2205-219
Project: 397-066

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FMW-139-051822**					
Laboratory ID:	05-219-10					
Benzene	ND	0.20	EPA 8260D	5-23-22	5-23-22	
Toluene	ND	1.0	EPA 8260D	5-23-22	5-23-22	
Ethylbenzene	ND	0.20	EPA 8260D	5-23-22	5-23-22	
m,p-Xylene	ND	0.40	EPA 8260D	5-23-22	5-23-22	
o-Xylene	ND	0.20	EPA 8260D	5-23-22	5-23-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*103*	*75-127*				
Toluene-d8	*98*	*80-127*				
4-Bromofluorobenzene	*100*	*78-125*				

Date of Report: May 27, 2022
Samples Submitted: May 19, 2022
Laboratory Reference: 2205-219
Project: 397-066

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0523W2					
Benzene	ND	0.20	EPA 8260D	5-23-22	5-23-22	
Toluene	ND	1.0	EPA 8260D	5-23-22	5-23-22	
Ethylbenzene	ND	0.20	EPA 8260D	5-23-22	5-23-22	
m,p-Xylene	ND	0.40	EPA 8260D	5-23-22	5-23-22	
o-Xylene	ND	0.20	EPA 8260D	5-23-22	5-23-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*108*	*75-127*				
Toluene-d8	*99*	*80-127*				
4-Bromofluorobenzene	*99*	*78-125*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0523W2									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	**9.17**	**10.3**	10.0	10.0	92	103	78-125	12	19	
Benzene	**9.05**	**10.0**	10.0	10.0	91	100	80-121	10	16	
Trichloroethene	**8.88**	**9.84**	10.0	10.0	89	98	80-122	10	18	
Toluene	**8.61**	**9.47**	10.0	10.0	86	95	80-120	10	18	
Chlorobenzene	**8.63**	**9.30**	10.0	10.0	86	93	80-120	7	17	
Surrogate:										
Dibromofluoromethane					*100*	*102*	*75-127*			
Toluene-d8					*98*	*99*	*80-127*			
4-Bromofluorobenzene					*100*	*100*	*78-125*			

Date of Report: May 27, 2022
Samples Submitted: May 19, 2022
Laboratory Reference: 2205-219
Project: 397-066

TOTAL METALS
EPA 200.8

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**B-37-6-051822**					
Laboratory ID:	05-219-01					
Arsenic	**ND**	3.0	EPA 200.8	5-19-22	5-23-22	
Barium	**61**	25	EPA 200.8	5-19-22	5-23-22	
Chromium	**ND**	10	EPA 200.8	5-19-22	5-23-22	
Lead	**ND**	1.0	EPA 200.8	5-19-22	5-23-22	
Client ID:	**B-37-8-051822**					
Laboratory ID:	05-219-02					
Arsenic	**5.2**	3.0	EPA 200.8	5-19-22	5-23-22	
Barium	**85**	25	EPA 200.8	5-19-22	5-23-22	
Chromium	**ND**	10	EPA 200.8	5-19-22	5-23-22	
Lead	**ND**	1.0	EPA 200.8	5-19-22	5-23-22	
Client ID:	**B-37-5-051822**					
Laboratory ID:	05-219-03					
Arsenic	**5.1**	3.0	EPA 200.8	5-19-22	5-23-22	
Barium	**38**	25	EPA 200.8	5-19-22	5-23-22	
Chromium	**ND**	10	EPA 200.8	5-19-22	5-23-22	
Lead	**ND**	1.0	EPA 200.8	5-19-22	5-23-22	
Client ID:	**B-37-7-051822**					
Laboratory ID:	05-219-04					
Arsenic	**ND**	3.0	EPA 200.8	5-19-22	5-23-22	
Barium	**99**	25	EPA 200.8	5-19-22	5-23-22	
Chromium	**ND**	10	EPA 200.8	5-19-22	5-23-22	
Lead	**ND**	1.0	EPA 200.8	5-19-22	5-23-22	
Client ID:	**PH-3-051822**					
Laboratory ID:	05-219-05					
Arsenic	**ND**	3.0	EPA 200.8	5-19-22	5-23-22	
Barium	**88**	25	EPA 200.8	5-19-22	5-23-22	
Chromium	**ND**	10	EPA 200.8	5-19-22	5-23-22	
Lead	**ND**	1.0	EPA 200.8	5-19-22	5-23-22	

Date of Report: May 27, 2022
Samples Submitted: May 19, 2022
Laboratory Reference: 2205-219
Project: 397-066

TOTAL METALS
EPA 200.8

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FMW-131-051822**					
Laboratory ID:	05-219-07					
Arsenic	**78**	3.0	EPA 200.8	5-19-22	5-23-22	
Barium	**ND**	25	EPA 200.8	5-19-22	5-23-22	
Chromium	**ND**	10	EPA 200.8	5-19-22	5-23-22	
Lead	**ND**	1.0	EPA 200.8	5-19-22	5-23-22	
Client ID:	**MWR-3-051822**					
Laboratory ID:	05-219-08					
Arsenic	**5.4**	3.0	EPA 200.8	5-19-22	5-23-22	
Barium	**34**	25	EPA 200.8	5-19-22	5-23-22	
Chromium	**ND**	10	EPA 200.8	5-19-22	5-23-22	
Lead	**ND**	1.0	EPA 200.8	5-19-22	5-23-22	
Client ID:	**MW-54-051822**					
Laboratory ID:	05-219-09					
Arsenic	**ND**	3.0	EPA 200.8	5-19-22	5-23-22	
Barium	**48**	25	EPA 200.8	5-19-22	5-23-22	
Chromium	**ND**	10	EPA 200.8	5-19-22	5-23-22	
Lead	**ND**	1.0	EPA 200.8	5-19-22	5-23-22	
Client ID:	**FMW-139-051822**					
Laboratory ID:	05-219-10					
Arsenic	**ND**	3.0	EPA 200.8	5-19-22	5-23-22	
Barium	**56**	25	EPA 200.8	5-19-22	5-23-22	
Chromium	**ND**	10	EPA 200.8	5-19-22	5-23-22	
Lead	**ND**	1.0	EPA 200.8	5-19-22	5-23-22	

Date of Report: May 27, 2022
Samples Submitted: May 19, 2022
Laboratory Reference: 2205-219
Project: 397-066

TOTAL METALS
EPA 200.8
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0519F1					
Arsenic	**ND**	3.0	EPA 200.8	5-19-22	5-23-22	
Barium	**ND**	25	EPA 200.8	5-19-22	5-23-22	
Chromium	**ND**	10	EPA 200.8	5-19-22	5-23-22	
Lead	**ND**	1.0	EPA 200.8	5-19-22	5-23-22	

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	05-212-03									
	ORIG	DUP								
Arsenic	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Barium	**68.4**	**69.0**	NA	NA		NA	NA	1	20	
Chromium	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Lead	**ND**	**ND**	NA	NA		NA	NA	NA	20	
MATRIX SPIKES										
Laboratory ID:	05-212-03									
	MS	MSD	MS	MSD		MS	MSD			
Arsenic	**94.6**	**95.0**	80.0	80.0	ND	**118**	**119**	75-125	0	20
Barium	**147**	**145**	80.0	80.0	68.4	**98**	**96**	75-125	1	20
Chromium	**76.6**	**75.8**	80.0	80.0	ND	**96**	**95**	75-125	1	20
Lead	**74.0**	**74.2**	80.0	80.0	ND	**93**	**93**	75-125	0	20

Date of Report: May 27, 2022
Samples Submitted: May 19, 2022
Laboratory Reference: 2205-219
Project: 397-066

DISSOLVED METALS
EPA 200.8

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**B-37-6-051822**					
Laboratory ID:	05-219-01					
Arsenic	**ND**	3.0	EPA 200.8	5-23-22	5-23-22	
Barium	**74**	28	EPA 200.8	5-23-22	5-23-22	
Chromium	**ND**	10	EPA 200.8	5-23-22	5-23-22	
Lead	**ND**	1.1	EPA 200.8	5-23-22	5-23-22	
Client ID:	**B-37-8-051822**					
Laboratory ID:	05-219-02					
Arsenic	**7.2**	3.0	EPA 200.8	5-23-22	5-23-22	
Barium	**110**	28	EPA 200.8	5-23-22	5-23-22	
Chromium	**ND**	10	EPA 200.8	5-23-22	5-23-22	
Lead	**ND**	1.1	EPA 200.8	5-23-22	5-23-22	
Client ID:	**B-37-5-051822**					
Laboratory ID:	05-219-03					
Arsenic	**8.9**	3.0	EPA 200.8	5-23-22	5-23-22	
Barium	**55**	28	EPA 200.8	5-23-22	5-23-22	
Chromium	**ND**	10	EPA 200.8	5-23-22	5-23-22	
Lead	**ND**	1.1	EPA 200.8	5-23-22	5-23-22	
Client ID:	**B-37-7-051822**					
Laboratory ID:	05-219-04					
Arsenic	**ND**	3.0	EPA 200.8	5-23-22	5-23-22	
Barium	**150**	28	EPA 200.8	5-23-22	5-23-22	
Chromium	**ND**	10	EPA 200.8	5-23-22	5-23-22	
Lead	**ND**	1.1	EPA 200.8	5-23-22	5-23-22	
Client ID:	**PH-3-051822**					
Laboratory ID:	05-219-05					
Arsenic	**4.1**	3.0	EPA 200.8	5-23-22	5-23-22	
Barium	**140**	28	EPA 200.8	5-23-22	5-23-22	
Chromium	**ND**	10	EPA 200.8	5-23-22	5-23-22	
Lead	**ND**	1.1	EPA 200.8	5-23-22	5-23-22	

Date of Report: May 27, 2022
Samples Submitted: May 19, 2022
Laboratory Reference: 2205-219
Project: 397-066

DISSOLVED METALS
EPA 200.8

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FMW-131-051822**					
Laboratory ID:	05-219-07					
Arsenic	**140**	3.0	EPA 200.8	5-23-22	5-23-22	
Barium	**ND**	28	EPA 200.8	5-23-22	5-23-22	
Chromium	**ND**	10	EPA 200.8	5-23-22	5-23-22	
Lead	**ND**	1.1	EPA 200.8	5-23-22	5-23-22	
Client ID:	**MWR-3-051822**					
Laboratory ID:	05-219-08					
Arsenic	**9.1**	3.0	EPA 200.8	5-23-22	5-23-22	
Barium	**45**	28	EPA 200.8	5-23-22	5-23-22	
Chromium	**ND**	10	EPA 200.8	5-23-22	5-23-22	
Lead	**ND**	1.1	EPA 200.8	5-23-22	5-23-22	
Client ID:	**MW-54-051822**					
Laboratory ID:	05-219-09					
Arsenic	**ND**	3.0	EPA 200.8	5-23-22	5-23-22	
Barium	**56**	28	EPA 200.8	5-23-22	5-23-22	
Chromium	**ND**	10	EPA 200.8	5-23-22	5-23-22	
Lead	**ND**	1.1	EPA 200.8	5-23-22	5-23-22	
Client ID:	**FMW-139-051822**					
Laboratory ID:	05-219-10					
Arsenic	**ND**	3.0	EPA 200.8	5-23-22	5-23-22	
Barium	**64**	28	EPA 200.8	5-23-22	5-23-22	
Chromium	**ND**	10	EPA 200.8	5-23-22	5-23-22	
Lead	**ND**	1.1	EPA 200.8	5-23-22	5-23-22	

Date of Report: May 27, 2022
Samples Submitted: May 19, 2022
Laboratory Reference: 2205-219
Project: 397-066

DISSOLVED METALS
EPA 200.8
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0523WM1					
Arsenic	**ND**	3.0	EPA 200.8	5-23-22	5-23-22	
Barium	**ND**	28	EPA 200.8	5-23-22	5-23-22	
Chromium	**ND**	10	EPA 200.8	5-23-22	5-23-22	
Lead	**ND**	1.1	EPA 200.8	5-23-22	5-23-22	

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	05-063-07									
	ORIG	DUP								
Arsenic	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Barium	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Chromium	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Lead	**ND**	**ND**	NA	NA		NA	NA	NA	20	
MATRIX SPIKES										
Laboratory ID:	05-063-07									
	MS	MSD	MS	MSD		MS	MSD			
Arsenic	**131**	**123**	111	111	ND	**118**	**111**	75-125	6	20
Barium	**148**	**139**	111	111	23.1	**113**	**105**	75-125	6	20
Chromium	**122**	**113**	111	111	ND	**110**	**102**	75-125	8	20
Lead	**123**	**114**	111	111	ND	**111**	**103**	75-125	7	20

Date of Report: May 27, 2022
Samples Submitted: May 19, 2022
Laboratory Reference: 2205-219
Project: 397-066

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FMW-131-051822**					
Laboratory ID:	05-219-07					
Gasoline	**ND**	100	NWTPH-Gx	5-23-22	5-23-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*90*	*65-122*				

Date of Report: May 27, 2022
Samples Submitted: May 19, 2022
Laboratory Reference: 2205-219
Project: 397-066

GASOLINE RANGE ORGANICS
NWTPH-Gx
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0523W1					
Gasoline	**ND**	100	NWTPH-Gx	5-23-22	5-23-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*91*	*65-122*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	05-223-01										
	ORIG	DUP									
Gasoline	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Surrogate:											
Fluorobenzene						*91*	*91*	*65-122*			

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

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

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody

Page 1 of 1

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: FARALLON
Project Number: 397-066
Project Name: BLOCK 37 PROPERTY
Project Manager: BRANI JURISTA
Sampled by: K. ZIGAS / G. MCKENNEY

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☒ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 05-219

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	B-37-6-051822	5-18-22	857	W	11
2	B-37-8-051822		914		11
3	B-37-5-051822		957		11
4	B-37-7-051822		1055		11
5	PH-3-051822		1108		13
6	B-37-2-051822		1240		8
7	FMW-131-051822		1300		11
8	MWR-3-051822		1356		11
9	~~DUP~~ FMW-54-051822		1420		11
10	FMW-139-051822		1539		11

Analysis	Lab ID 1	2	3	4	5	6	7	8	9	10
NWTPH-HCID										
NWTPH-Gx/BTEX (8021☐ 8260☐)										
NWTPH-Gx	X	X	X	X	X	X	(X)	X	X	X
NWTPH-Dx (Acid / SG Clean-up☐)	X	X	X	X	X	X	(X)	X	X	X
Volatiles 8260										
Halogenated Volatiles 8260										
EDB EPA 8011 (Waters Only)										
Semivolatiles 8270/SIM (with low-level PAHs)										
PAHs 8270/SIM (low-level) (8270E)	X	X	X	X	X	X	(X)	X	X	X
PCBs 8082 A					X					
Organochlorine Pesticides 8081										
Organophosphorus Pesticides 8270/SIM										
Chlorinated Acid Herbicides 8151										
Total RCRA Metals										
Total MTCA Metals										
TCLP Metals										
HEM (oil and grease) 1664										
BTEX (8260D)	X	X	X	X	X	X	(X)	X	X	X
Naphthalene (8270E/SIM)	X	X	X	X	X	X	(X)	X	X	X
Metals (As, Ba, Cr, Pb) TOTAL + DISSOLVED	X	X	X	X	X	X	(X)	X	X	X
% Moisture										

	Signature	Company	Date	Time
Relinquished		FLN	5/19/22	0930
Received		Client Ex	5/19/22	93[illegible]
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

COC #2/2
(X) Added 5/23/22 BK
(COC #1/2 relinquished by FARALLON on 5-18-22 ~1100)

Hold "FMW-131-051822" (PM will contact)

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

September 6, 2022

Brani Jurista
Farallon Consulting
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 397-066
Laboratory Reference No. 2208-291

Dear Brani:

Enclosed are the analytical results and associated quality control data for samples submitted on August 26, 2022.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: September 6, 2022
Samples Submitted: August 26, 2022
Laboratory Reference: 2208-291
Project: 397-066

Case Narrative

Samples were collected on August 24 and 25, 2022 and received by the laboratory on August 26, 2022. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: September 6, 2022
Samples Submitted: August 26, 2022
Laboratory Reference: 2208-291
Project: 397-066

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**PH-3-082522**					
Laboratory ID:	08-291-01					
Gasoline	**ND**	100	NWTPH-Gx	8-29-22	8-29-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*88*	*65-122*				
Client ID:	**B-37-7-082522**					
Laboratory ID:	08-291-02					
Gasoline	**ND**	100	NWTPH-Gx	8-29-22	8-29-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*89*	*65-122*				
Client ID:	**MW-50-082522**					
Laboratory ID:	08-291-03					
Gasoline	**ND**	100	NWTPH-Gx	8-29-22	8-29-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*87*	*65-122*				
Client ID:	**B-37-5-082522**					
Laboratory ID:	08-291-04					
Gasoline	**ND**	100	NWTPH-Gx	8-29-22	8-29-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*90*	*65-122*				
Client ID:	**B-37-8-082522**					
Laboratory ID:	08-291-05					
Gasoline	**ND**	100	NWTPH-Gx	8-29-22	8-29-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*84*	*65-122*				
Client ID:	**B-37-1-082522**					
Laboratory ID:	08-291-06					
Gasoline	**ND**	100	NWTPH-Gx	8-29-22	8-29-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*88*	*65-122*				
Client ID:	**B-37-6-082522**					
Laboratory ID:	08-291-07					
Gasoline	**ND**	100	NWTPH-Gx	8-29-22	8-29-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*87*	*65-122*				

Date of Report: September 6, 2022
Samples Submitted: August 26, 2022
Laboratory Reference: 2208-291
Project: 397-066

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**B-37-4-082522**					
Laboratory ID:	08-291-08					
Gasoline	**ND**	100	NWTPH-Gx	8-29-22	8-29-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*92*	*65-122*				
Client ID:	**B-37-3-082522**					
Laboratory ID:	08-291-09					
Gasoline	**ND**	100	NWTPH-Gx	8-29-22	8-29-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*91*	*65-122*				
Client ID:	**B-37-2-082422**					
Laboratory ID:	08-291-10					
Gasoline	**ND**	100	NWTPH-Gx	8-29-22	8-29-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*89*	*65-122*				
Client ID:	**MWR-3-082422**					
Laboratory ID:	08-291-11					
Gasoline	**ND**	100	NWTPH-Gx	8-29-22	8-29-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*89*	*65-122*				
Client ID:	**FMW-131-082422**					
Laboratory ID:	08-291-12					
Gasoline	**ND**	100	NWTPH-Gx	8-29-22	8-29-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*92*	*65-122*				
Client ID:	**FMW-139-082422**					
Laboratory ID:	08-291-13					
Gasoline	**ND**	100	NWTPH-Gx	8-29-22	8-29-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*88*	*65-122*				
Client ID:	**B-37-9-082422**					
Laboratory ID:	08-291-14					
Gasoline	**ND**	100	NWTPH-Gx	8-29-22	8-29-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*90*	*65-122*				

Date of Report: September 6, 2022
Samples Submitted: August 26, 2022
Laboratory Reference: 2208-291
Project: 397-066

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MWR-6-082422**					
Laboratory ID:	08-291-15					
Gasoline	**ND**	100	NWTPH-Gx	8-29-22	8-29-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*89*	*65-122*				
Client ID:	**MW-45-082422**					
Laboratory ID:	08-291-16					
Gasoline	**ND**	100	NWTPH-Gx	8-29-22	8-29-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*90*	*65-122*				
Client ID:	**MW-54-082422**					
Laboratory ID:	08-291-17					
Gasoline	**ND**	100	NWTPH-Gx	8-29-22	8-29-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*89*	*65-122*				
Client ID:	**PH-2/AMW-1-082522**					
Laboratory ID:	08-291-18					
Gasoline	**ND**	100	NWTPH-Gx	8-29-22	8-29-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*89*	*65-122*				
Client ID:	**PH-1-082522**					
Laboratory ID:	08-291-19					
Gasoline	**ND**	100	NWTPH-Gx	8-29-22	8-29-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*89*	*65-122*				

Date of Report: September 6, 2022
Samples Submitted: August 26, 2022
Laboratory Reference: 2208-291
Project: 397-066

GASOLINE RANGE ORGANICS
NWTPH-Gx
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0829W2					
Gasoline	**ND**	100	NWTPH-Gx	8-29-22	8-29-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*81*	*65-122*				
Laboratory ID:	MB0829W3					
Gasoline	**ND**	100	NWTPH-Gx	8-29-22	8-29-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*94*	*65-122*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	08-268-01										
	ORIG	DUP									
Gasoline	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Surrogate:											
Fluorobenzene						*82*	*81*	*65-122*			
Laboratory ID:	08-268-03										
	ORIG	DUP									
Gasoline	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Surrogate:											
Fluorobenzene						*82*	*82*	*65-122*			

Date of Report: September 6, 2022
Samples Submitted: August 26, 2022
Laboratory Reference: 2208-291
Project: 397-066

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Water
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**PH-3-082522**					
Laboratory ID:	08-291-01					
Diesel Range Organics	**ND**	0.13	NWTPH-Dx	8-30-22	8-30-22	
Lube Oil Range Organics	**ND**	0.20	NWTPH-Dx	8-30-22	8-30-22	
DRO/LRO C10-C36	**ND**	0.25	NWTPH-Dx	8-30-22	8-30-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*80*	*50-150*				
Client ID:	**B-37-7-082522**					
Laboratory ID:	08-291-02					
Diesel Fuel #2	**0.27**	0.13	NWTPH-Dx	8-30-22	8-30-22	
Lube Oil Range Organics	**ND**	0.20	NWTPH-Dx	8-30-22	8-30-22	
DRO/LRO C10-C36	**0.32**	0.25	NWTPH-Dx	8-30-22	8-30-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*87*	*50-150*				
Client ID:	**MW-50-082522**					
Laboratory ID:	08-291-03					
Diesel Range Organics	**0.39**	0.13	NWTPH-Dx	8-30-22	8-30-22	
Lube Oil Range Organics	**0.40**	0.20	NWTPH-Dx	8-30-22	8-30-22	
DRO/LRO C10-C36	**0.56**	0.25	NWTPH-Dx	8-30-22	8-30-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*95*	*50-150*				
Client ID:	**B-37-5-082522**					
Laboratory ID:	08-291-04					
Diesel Range Organics	**ND**	0.13	NWTPH-Dx	8-30-22	8-30-22	
Lube Oil Range Organics	**0.28**	0.20	NWTPH-Dx	8-30-22	8-30-22	
DRO/LRO C10-C36	**ND**	0.25	NWTPH-Dx	8-30-22	8-30-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*100*	*50-150*				
Client ID:	**B-37-8-082522**					
Laboratory ID:	08-291-05					
Diesel Range Organics	**ND**	0.13	NWTPH-Dx	8-30-22	8-30-22	
Lube Oil Range Organics	**0.27**	0.20	NWTPH-Dx	8-30-22	8-30-22	
DRO/LRO C10-C36	**ND**	0.25	NWTPH-Dx	8-30-22	8-30-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*98*	*50-150*				

Date of Report: September 6, 2022
Samples Submitted: August 26, 2022
Laboratory Reference: 2208-291
Project: 397-066

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Water
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**B-37-1-082522**					
Laboratory ID:	08-291-06					
Diesel Range Organics	**0.27**	0.13	NWTPH-Dx	8-30-22	8-30-22	
Lube Oil Range Organics	**0.42**	0.21	NWTPH-Dx	8-30-22	8-30-22	
DRO/LRO C10-C36	**0.40**	0.27	NWTPH-Dx	8-30-22	8-30-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*100*	*50-150*				
Client ID:	**B-37-6-082522**					
Laboratory ID:	08-291-07					
Diesel Range Organics	**0.16**	0.13	NWTPH-Dx	8-30-22	8-30-22	
Lube Oil Range Organics	**0.34**	0.21	NWTPH-Dx	8-30-22	8-30-22	
DRO/LRO C10-C36	**0.33**	0.26	NWTPH-Dx	8-30-22	8-30-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*113*	*50-150*				
Client ID:	**B-37-4-082522**					
Laboratory ID:	08-291-08					
Diesel Range Organics	**0.24**	0.13	NWTPH-Dx	8-30-22	8-30-22	
Lube Oil Range Organics	**0.40**	0.21	NWTPH-Dx	8-30-22	8-30-22	
DRO/LRO C10-C36	**0.36**	0.26	NWTPH-Dx	8-30-22	8-30-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*111*	*50-150*				
Client ID:	**B-37-3-082522**					
Laboratory ID:	08-291-09					
Diesel Range Organics	**ND**	0.13	NWTPH-Dx	8-30-22	8-30-22	
Lube Oil Range Organics	**0.28**	0.21	NWTPH-Dx	8-30-22	8-30-22	
DRO/LRO C10-C36	**ND**	0.26	NWTPH-Dx	8-30-22	8-30-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*77*	*50-150*				
Client ID:	**B-37-2-082422**					
Laboratory ID:	08-291-10					
Diesel Range Organics	**ND**	0.13	NWTPH-Dx	8-30-22	8-30-22	
Lube Oil Range Organics	**0.25**	0.21	NWTPH-Dx	8-30-22	8-30-22	
DRO/LRO C10-C36	**ND**	0.26	NWTPH-Dx	8-30-22	8-30-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*85*	*50-150*				

Date of Report: September 6, 2022
Samples Submitted: August 26, 2022
Laboratory Reference: 2208-291
Project: 397-066

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Water
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MWR-3-082422**					
Laboratory ID:	08-291-11					
Diesel Range Organics	**ND**	0.13	NWTPH-Dx	8-30-22	8-30-22	
Lube Oil Range Organics	**ND**	0.21	NWTPH-Dx	8-30-22	8-30-22	
DRO/LRO C10-C36	**ND**	0.26	NWTPH-Dx	8-30-22	8-30-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*78*	*50-150*				
Client ID:	**FMW-131-082422**					
Laboratory ID:	08-291-12					
Diesel Range Organics	**ND**	0.13	NWTPH-Dx	8-30-22	8-30-22	
Lube Oil Range Organics	**ND**	0.21	NWTPH-Dx	8-30-22	8-30-22	
DRO/LRO C10-C36	**ND**	0.26	NWTPH-Dx	8-30-22	8-30-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*75*	*50-150*				
Client ID:	**FMW-139-082422**					
Laboratory ID:	08-291-13					
Diesel Range Organics	**ND**	0.13	NWTPH-Dx	8-30-22	9-2-22	
Lube Oil Range Organics	**ND**	0.21	NWTPH-Dx	8-30-22	9-2-22	
DRO/LRO C10-C36	**ND**	0.26	NWTPH-Dx	8-30-22	9-2-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*89*	*50-150*				
Client ID:	**B-37-9-082422**					
Laboratory ID:	08-291-14					
Diesel Range Organics	**0.23**	0.13	NWTPH-Dx	8-30-22	8-31-22	
Lube Oil Range Organics	**0.29**	0.20	NWTPH-Dx	8-30-22	8-31-22	
DRO/LRO C10-C36	**0.36**	0.25	NWTPH-Dx	8-30-22	8-31-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*96*	*50-150*				
Client ID:	**MWR-6-082422**					
Laboratory ID:	08-291-15					
Diesel Range Organics	**0.15**	0.13	NWTPH-Dx	8-30-22	9-1-22	
Lube Oil Range Organics	**0.24**	0.20	NWTPH-Dx	8-30-22	9-1-22	
DRO/LRO C10-C36	**0.27**	0.25	NWTPH-Dx	8-30-22	9-1-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*105*	*50-150*				

Date of Report: September 6, 2022
Samples Submitted: August 26, 2022
Laboratory Reference: 2208-291
Project: 397-066

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Water
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-45-082422**					
Laboratory ID:	08-291-16					
Diesel Range Organics	**0.22**	0.13	NWTPH-Dx	8-30-22	9-1-22	
Lube Oil Range Organics	**ND**	0.20	NWTPH-Dx	8-30-22	9-1-22	
DRO/LRO C10-C36	**0.32**	0.25	NWTPH-Dx	8-30-22	9-1-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*107*	*50-150*				
Client ID:	**MW-54-082422**					
Laboratory ID:	08-291-17					
Diesel Range Organics	**ND**	0.13	NWTPH-Dx	8-30-22	9-2-22	
Lube Oil Range Organics	**ND**	0.20	NWTPH-Dx	8-30-22	9-2-22	
DRO/LRO C10-C36	**ND**	0.25	NWTPH-Dx	8-30-22	9-2-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*86*	*50-150*				
Client ID:	**PH-2/AMW-1-082522**					
Laboratory ID:	08-291-18					
Diesel Range Organics	**ND**	0.13	NWTPH-Dx	8-30-22	9-2-22	
Lube Oil Range Organics	**ND**	0.21	NWTPH-Dx	8-30-22	9-2-22	
DRO/LRO C10-C36	**ND**	0.26	NWTPH-Dx	8-30-22	9-2-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*95*	*50-150*				
Client ID:	**PH-1-082522**					
Laboratory ID:	08-291-19					
Diesel Range Organics	**ND**	0.13	NWTPH-Dx	8-30-22	9-2-22	
Lube Oil Range Organics	**ND**	0.21	NWTPH-Dx	8-30-22	9-2-22	
DRO/LRO C10-C36	**ND**	0.27	NWTPH-Dx	8-30-22	9-2-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*93*	*50-150*				

Date of Report: September 6, 2022
Samples Submitted: August 26, 2022
Laboratory Reference: 2208-291
Project: 397-066

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx
QUALITY CONTROL

Matrix: Water
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0830W1					
Diesel Range Organics	**ND**	0.10	NWTPH-Dx	8-30-22	8-30-22	
Lube Oil Range Organics	**ND**	0.16	NWTPH-Dx	8-30-22	8-30-22	
DRO/LRO C10-C36	**ND**	0.20	NWTPH-Dx	8-30-22	8-30-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*96*	*50-150*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	SB0830W1										
	ORIG	DUP									
Diesel Fuel #2	**0.476**	**0.449**	NA	NA		NA		NA	6	NA	
Surrogate:											
o-Terphenyl						*104*	*104*	*50-150*			
Laboratory ID:	08-291-16										
	ORIG	DUP									
Diesel Range Organics	**0.222**	**0.224**	NA	NA		NA		NA	1	NA	
Lube Oil Range	**ND**	**ND**	NA	NA		NA		NA	NA	NA	
DRO/LRO C10-C36	**0.316**	**0.315**	NA	NA		NA		NA	0	NA	
Surrogate:											
o-Terphenyl						*107*	*102*	*50-150*			

Date of Report: September 6, 2022
Samples Submitted: August 26, 2022
Laboratory Reference: 2208-291
Project: 397-066

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**PH-3-082522**					
Laboratory ID:	08-291-01					
Benzene	ND	0.20	EPA 8260D	8-30-22	8-30-22	
Toluene	ND	1.0	EPA 8260D	8-30-22	8-30-22	
Ethylbenzene	ND	0.20	EPA 8260D	8-30-22	8-30-22	
m,p-Xylene	ND	0.40	EPA 8260D	8-30-22	8-30-22	
o-Xylene	ND	0.20	EPA 8260D	8-30-22	8-30-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*100*	*75-127*				
Toluene-d8	*102*	*80-127*				
4-Bromofluorobenzene	*101*	*78-125*				
Client ID:	**B-37-7-082522**					
Laboratory ID:	08-291-02					
Benzene	ND	0.20	EPA 8260D	8-30-22	8-30-22	
Toluene	ND	1.0	EPA 8260D	8-30-22	8-30-22	
Ethylbenzene	ND	0.20	EPA 8260D	8-30-22	8-30-22	
m,p-Xylene	ND	0.40	EPA 8260D	8-30-22	8-30-22	
o-Xylene	ND	0.20	EPA 8260D	8-30-22	8-30-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*100*	*75-127*				
Toluene-d8	*102*	*80-127*				
4-Bromofluorobenzene	*101*	*78-125*				
Client ID:	**MW-50-082522**					
Laboratory ID:	08-291-03					
Benzene	ND	0.20	EPA 8260D	8-30-22	8-30-22	
Toluene	ND	1.0	EPA 8260D	8-30-22	8-30-22	
Ethylbenzene	ND	0.20	EPA 8260D	8-30-22	8-30-22	
m,p-Xylene	ND	0.40	EPA 8260D	8-30-22	8-30-22	
o-Xylene	ND	0.20	EPA 8260D	8-30-22	8-30-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*99*	*75-127*				
Toluene-d8	*102*	*80-127*				
4-Bromofluorobenzene	*100*	*78-125*				

Date of Report: September 6, 2022
Samples Submitted: August 26, 2022
Laboratory Reference: 2208-291
Project: 397-066

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**B-37-5-082522**					
Laboratory ID:	08-291-04					
Benzene	ND	0.20	EPA 8260D	8-30-22	8-30-22	
Toluene	ND	1.0	EPA 8260D	8-30-22	8-30-22	
Ethylbenzene	ND	0.20	EPA 8260D	8-30-22	8-30-22	
m,p-Xylene	ND	0.40	EPA 8260D	8-30-22	8-30-22	
o-Xylene	ND	0.20	EPA 8260D	8-30-22	8-30-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*100*	*75-127*				
Toluene-d8	*101*	*80-127*				
4-Bromofluorobenzene	*101*	*78-125*				
Client ID:	**B-37-8-082522**					
Laboratory ID:	08-291-05					
Benzene	ND	0.20	EPA 8260D	8-30-22	8-30-22	
Toluene	ND	1.0	EPA 8260D	8-30-22	8-30-22	
Ethylbenzene	ND	0.20	EPA 8260D	8-30-22	8-30-22	
m,p-Xylene	ND	0.40	EPA 8260D	8-30-22	8-30-22	
o-Xylene	ND	0.20	EPA 8260D	8-30-22	8-30-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*101*	*75-127*				
Toluene-d8	*103*	*80-127*				
4-Bromofluorobenzene	*103*	*78-125*				
Client ID:	**B-37-1-082522**					
Laboratory ID:	08-291-06					
Benzene	ND	0.20	EPA 8260D	8-30-22	8-30-22	
Toluene	ND	1.0	EPA 8260D	8-30-22	8-30-22	
Ethylbenzene	ND	0.20	EPA 8260D	8-30-22	8-30-22	
m,p-Xylene	ND	0.40	EPA 8260D	8-30-22	8-30-22	
o-Xylene	ND	0.20	EPA 8260D	8-30-22	8-30-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*98*	*75-127*				
Toluene-d8	*104*	*80-127*				
4-Bromofluorobenzene	*102*	*78-125*				

Date of Report: September 6, 2022
Samples Submitted: August 26, 2022
Laboratory Reference: 2208-291
Project: 397-066

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**B-37-6-082522**					
Laboratory ID:	08-291-07					
Benzene	ND	0.20	EPA 8260D	8-30-22	8-30-22	
Toluene	ND	1.0	EPA 8260D	8-30-22	8-30-22	
Ethylbenzene	ND	0.20	EPA 8260D	8-30-22	8-30-22	
m,p-Xylene	ND	0.40	EPA 8260D	8-30-22	8-30-22	
o-Xylene	ND	0.20	EPA 8260D	8-30-22	8-30-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*98*	*75-127*				
Toluene-d8	*102*	*80-127*				
4-Bromofluorobenzene	*101*	*78-125*				
Client ID:	**B-37-4-082522**					
Laboratory ID:	08-291-08					
Benzene	ND	0.20	EPA 8260D	8-30-22	8-30-22	
Toluene	ND	1.0	EPA 8260D	8-30-22	8-30-22	
Ethylbenzene	ND	0.20	EPA 8260D	8-30-22	8-30-22	
m,p-Xylene	ND	0.40	EPA 8260D	8-30-22	8-30-22	
o-Xylene	ND	0.20	EPA 8260D	8-30-22	8-30-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*99*	*75-127*				
Toluene-d8	*102*	*80-127*				
4-Bromofluorobenzene	*101*	*78-125*				
Client ID:	**B-37-3-082522**					
Laboratory ID:	08-291-09					
Benzene	ND	0.20	EPA 8260D	8-30-22	8-30-22	
Toluene	ND	1.0	EPA 8260D	8-30-22	8-30-22	
Ethylbenzene	ND	0.20	EPA 8260D	8-30-22	8-30-22	
m,p-Xylene	ND	0.40	EPA 8260D	8-30-22	8-30-22	
o-Xylene	ND	0.20	EPA 8260D	8-30-22	8-30-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*98*	*75-127*				
Toluene-d8	*101*	*80-127*				
4-Bromofluorobenzene	*98*	*78-125*				

Date of Report: September 6, 2022
Samples Submitted: August 26, 2022
Laboratory Reference: 2208-291
Project: 397-066

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**B-37-2-082422**					
Laboratory ID:	08-291-10					
Benzene	ND	0.20	EPA 8260D	8-30-22	8-30-22	
Toluene	ND	1.0	EPA 8260D	8-30-22	8-30-22	
Ethylbenzene	ND	0.20	EPA 8260D	8-30-22	8-30-22	
m,p-Xylene	ND	0.40	EPA 8260D	8-30-22	8-30-22	
o-Xylene	ND	0.20	EPA 8260D	8-30-22	8-30-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*99*	*75-127*				
Toluene-d8	*103*	*80-127*				
4-Bromofluorobenzene	*103*	*78-125*				
Client ID:	**MWR-3-082422**					
Laboratory ID:	08-291-11					
Benzene	ND	0.20	EPA 8260D	8-30-22	8-30-22	
Toluene	ND	1.0	EPA 8260D	8-30-22	8-30-22	
Ethylbenzene	ND	0.20	EPA 8260D	8-30-22	8-30-22	
m,p-Xylene	ND	0.40	EPA 8260D	8-30-22	8-30-22	
o-Xylene	ND	0.20	EPA 8260D	8-30-22	8-30-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*96*	*75-127*				
Toluene-d8	*102*	*80-127*				
4-Bromofluorobenzene	*101*	*78-125*				
Client ID:	**FMW-131-082422**					
Laboratory ID:	08-291-12					
Benzene	ND	0.20	EPA 8260D	8-30-22	8-30-22	
Toluene	ND	1.0	EPA 8260D	8-30-22	8-30-22	
Ethylbenzene	ND	0.20	EPA 8260D	8-30-22	8-30-22	
m,p-Xylene	ND	0.40	EPA 8260D	8-30-22	8-30-22	
o-Xylene	ND	0.20	EPA 8260D	8-30-22	8-30-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*99*	*75-127*				
Toluene-d8	*103*	*80-127*				
4-Bromofluorobenzene	*102*	*78-125*				

Date of Report: September 6, 2022
Samples Submitted: August 26, 2022
Laboratory Reference: 2208-291
Project: 397-066

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FMW-139-082422**					
Laboratory ID:	08-291-13					
Benzene	ND	0.20	EPA 8260D	8-30-22	8-30-22	
Toluene	ND	1.0	EPA 8260D	8-30-22	8-30-22	
Ethylbenzene	ND	0.20	EPA 8260D	8-30-22	8-30-22	
m,p-Xylene	ND	0.40	EPA 8260D	8-30-22	8-30-22	
o-Xylene	ND	0.20	EPA 8260D	8-30-22	8-30-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*100*	*75-127*				
Toluene-d8	*102*	*80-127*				
4-Bromofluorobenzene	*104*	*78-125*				
Client ID:	**B-37-9-082422**					
Laboratory ID:	08-291-14					
Benzene	ND	0.20	EPA 8260D	8-30-22	8-30-22	
Toluene	ND	1.0	EPA 8260D	8-30-22	8-30-22	
Ethylbenzene	ND	0.20	EPA 8260D	8-30-22	8-30-22	
m,p-Xylene	ND	0.40	EPA 8260D	8-30-22	8-30-22	
o-Xylene	ND	0.20	EPA 8260D	8-30-22	8-30-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*99*	*75-127*				
Toluene-d8	*103*	*80-127*				
4-Bromofluorobenzene	*103*	*78-125*				
Client ID:	**MWR-6-082422**					
Laboratory ID:	08-291-15					
Benzene	ND	0.20	EPA 8260D	8-30-22	8-30-22	
Toluene	ND	1.0	EPA 8260D	8-30-22	8-30-22	
Ethylbenzene	ND	0.20	EPA 8260D	8-30-22	8-30-22	
m,p-Xylene	ND	0.40	EPA 8260D	8-30-22	8-30-22	
o-Xylene	ND	0.20	EPA 8260D	8-30-22	8-30-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*100*	*75-127*				
Toluene-d8	*103*	*80-127*				
4-Bromofluorobenzene	*102*	*78-125*				

Date of Report: September 6, 2022
Samples Submitted: August 26, 2022
Laboratory Reference: 2208-291
Project: 397-066

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-45-082422**					
Laboratory ID:	08-291-16					
Benzene	ND	0.20	EPA 8260D	8-30-22	8-30-22	
Toluene	ND	1.0	EPA 8260D	8-30-22	8-30-22	
Ethylbenzene	ND	0.20	EPA 8260D	8-30-22	8-30-22	
m,p-Xylene	ND	0.40	EPA 8260D	8-30-22	8-30-22	
o-Xylene	ND	0.20	EPA 8260D	8-30-22	8-30-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*99*	*75-127*				
Toluene-d8	*102*	*80-127*				
4-Bromofluorobenzene	*103*	*78-125*				
Client ID:	**MW-54-082422**					
Laboratory ID:	08-291-17					
Benzene	ND	0.20	EPA 8260D	8-30-22	8-30-22	
Toluene	ND	1.0	EPA 8260D	8-30-22	8-30-22	
Ethylbenzene	ND	0.20	EPA 8260D	8-30-22	8-30-22	
m,p-Xylene	ND	0.40	EPA 8260D	8-30-22	8-30-22	
o-Xylene	ND	0.20	EPA 8260D	8-30-22	8-30-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*99*	*75-127*				
Toluene-d8	*102*	*80-127*				
4-Bromofluorobenzene	*102*	*78-125*				
Client ID:	**PH-2/AMW-1-082522**					
Laboratory ID:	08-291-18					
Benzene	0.54	0.20	EPA 8260D	8-30-22	8-30-22	
Toluene	ND	1.0	EPA 8260D	8-30-22	8-30-22	
Ethylbenzene	ND	0.20	EPA 8260D	8-30-22	8-30-22	
m,p-Xylene	ND	0.40	EPA 8260D	8-30-22	8-30-22	
o-Xylene	ND	0.20	EPA 8260D	8-30-22	8-30-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*98*	*75-127*				
Toluene-d8	*103*	*80-127*				
4-Bromofluorobenzene	*101*	*78-125*				

Date of Report: September 6, 2022
Samples Submitted: August 26, 2022
Laboratory Reference: 2208-291
Project: 397-066

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**PH-1-082522**					
Laboratory ID:	08-291-19					
Benzene	ND	0.20	EPA 8260D	8-30-22	8-30-22	
Toluene	ND	1.0	EPA 8260D	8-30-22	8-30-22	
Ethylbenzene	ND	0.20	EPA 8260D	8-30-22	8-30-22	
m,p-Xylene	ND	0.40	EPA 8260D	8-30-22	8-30-22	
o-Xylene	ND	0.20	EPA 8260D	8-30-22	8-30-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*99*	*75-127*				
Toluene-d8	*101*	*80-127*				
4-Bromofluorobenzene	*101*	*78-125*				

Date of Report: September 6, 2022
Samples Submitted: August 26, 2022
Laboratory Reference: 2208-291
Project: 397-066

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0830W1					
Benzene	ND	0.20	EPA 8260D	8-30-22	8-30-22	
Toluene	ND	1.0	EPA 8260D	8-30-22	8-30-22	
Ethylbenzene	ND	0.20	EPA 8260D	8-30-22	8-30-22	
m,p-Xylene	ND	0.40	EPA 8260D	8-30-22	8-30-22	
o-Xylene	ND	0.20	EPA 8260D	8-30-22	8-30-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*101*	*75-127*				
Toluene-d8	*101*	*80-127*				
4-Bromofluorobenzene	*101*	*78-125*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0830W1									
	SB	SBD	SB	SBD	SB	SBD				
Benzene	**10.0**	**9.90**	10.0	10.0	100	99	80-121	1	16	
Toluene	**9.66**	**9.58**	10.0	10.0	97	96	80-120	1	18	
Ethylbenzene	**9.33**	**9.22**	10.0	10.0	93	92	80-125	1	18	
m,p-Xylene	**18.6**	**18.6**	20.0	20.0	93	93	80-127	0	18	
o-Xylene	**9.34**	**9.24**	10.0	10.0	93	92	80-126	1	18	
Surrogate:										
Dibromofluoromethane					*105*	*103*	*75-127*			
Toluene-d8					*105*	*104*	*80-127*			
4-Bromofluorobenzene					*105*	*105*	*78-125*			

Date of Report: September 6, 2022
Samples Submitted: August 26, 2022
Laboratory Reference: 2208-291
Project: 397-066

PAHs EPA 8270E/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**PH-3-082522**					
Laboratory ID:	08-291-01					
Naphthalene	**ND**	0.096	EPA 8270E/SIM	8-29-22	8-29-22	
Benzo[a]anthracene	**ND**	0.0096	EPA 8270E/SIM	8-29-22	8-29-22	
Chrysene	**ND**	0.0096	EPA 8270E/SIM	8-29-22	8-29-22	
Benzo[b]fluoranthene	**ND**	0.0096	EPA 8270E/SIM	8-29-22	8-29-22	
Benzo(j,k)fluoranthene	**ND**	0.0096	EPA 8270E/SIM	8-29-22	8-29-22	
Benzo[a]pyrene	**ND**	0.0096	EPA 8270E/SIM	8-29-22	8-29-22	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0096	EPA 8270E/SIM	8-29-22	8-29-22	
Dibenz[a,h]anthracene	**ND**	0.0096	EPA 8270E/SIM	8-29-22	8-29-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*59*	*20 - 106*				
Pyrene-d10	*69*	*19 - 104*				
Terphenyl-d14	*65*	*41 - 127*				
Client ID:	**B-37-7-082522**					
Laboratory ID:	08-291-02					
Naphthalene	**ND**	0.095	EPA 8270E/SIM	8-29-22	8-29-22	
Benzo[a]anthracene	**ND**	0.0095	EPA 8270E/SIM	8-29-22	8-29-22	
Chrysene	**ND**	0.0095	EPA 8270E/SIM	8-29-22	8-29-22	
Benzo[b]fluoranthene	**ND**	0.0095	EPA 8270E/SIM	8-29-22	8-29-22	
Benzo(j,k)fluoranthene	**ND**	0.0095	EPA 8270E/SIM	8-29-22	8-29-22	
Benzo[a]pyrene	**ND**	0.0095	EPA 8270E/SIM	8-29-22	8-29-22	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0095	EPA 8270E/SIM	8-29-22	8-29-22	
Dibenz[a,h]anthracene	**ND**	0.0095	EPA 8270E/SIM	8-29-22	8-29-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*55*	*20 - 106*				
Pyrene-d10	*66*	*19 - 104*				
Terphenyl-d14	*66*	*41 - 127*				

Date of Report: September 6, 2022
Samples Submitted: August 26, 2022
Laboratory Reference: 2208-291
Project: 397-066

PAHs EPA 8270E/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-50-082522**					
Laboratory ID:	08-291-03					
Naphthalene	**4.0**	0.48	EPA 8270E/SIM	8-29-22	8-30-22	
Benzo[a]anthracene	**0.022**	0.0096	EPA 8270E/SIM	8-29-22	8-29-22	
Chrysene	**0.017**	0.0096	EPA 8270E/SIM	8-29-22	8-29-22	
Benzo[b]fluoranthene	**0.019**	0.0096	EPA 8270E/SIM	8-29-22	8-29-22	
Benzo(j,k)fluoranthene	**ND**	0.0096	EPA 8270E/SIM	8-29-22	8-29-22	
Benzo[a]pyrene	**ND**	0.0096	EPA 8270E/SIM	8-29-22	8-29-22	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0096	EPA 8270E/SIM	8-29-22	8-29-22	
Dibenz[a,h]anthracene	**ND**	0.0096	EPA 8270E/SIM	8-29-22	8-29-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*67*	*20 - 106*				
Pyrene-d10	*75*	*19 - 104*				
Terphenyl-d14	*75*	*41 - 127*				

Client ID:	**B-37-5-082522**					
Laboratory ID:	08-291-04					
Naphthalene	**ND**	0.096	EPA 8270E/SIM	8-29-22	8-29-22	
Benzo[a]anthracene	**ND**	0.0096	EPA 8270E/SIM	8-29-22	8-29-22	
Chrysene	**ND**	0.0096	EPA 8270E/SIM	8-29-22	8-29-22	
Benzo[b]fluoranthene	**ND**	0.0096	EPA 8270E/SIM	8-29-22	8-29-22	
Benzo(j,k)fluoranthene	**ND**	0.0096	EPA 8270E/SIM	8-29-22	8-29-22	
Benzo[a]pyrene	**ND**	0.0096	EPA 8270E/SIM	8-29-22	8-29-22	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0096	EPA 8270E/SIM	8-29-22	8-29-22	
Dibenz[a,h]anthracene	**ND**	0.0096	EPA 8270E/SIM	8-29-22	8-29-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*53*	*20 - 106*				
Pyrene-d10	*65*	*19 - 104*				
Terphenyl-d14	*63*	*41 - 127*				

Date of Report: September 6, 2022
Samples Submitted: August 26, 2022
Laboratory Reference: 2208-291
Project: 397-066

PAHs EPA 8270E/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**B-37-8-082522**					
Laboratory ID:	08-291-05					
Naphthalene	**ND**	0.096	EPA 8270E/SIM	8-29-22	8-29-22	
Benzo[a]anthracene	**ND**	0.0096	EPA 8270E/SIM	8-29-22	8-29-22	
Chrysene	**ND**	0.0096	EPA 8270E/SIM	8-29-22	8-29-22	
Benzo[b]fluoranthene	**ND**	0.0096	EPA 8270E/SIM	8-29-22	8-29-22	
Benzo(j,k)fluoranthene	**ND**	0.0096	EPA 8270E/SIM	8-29-22	8-29-22	
Benzo[a]pyrene	**ND**	0.0096	EPA 8270E/SIM	8-29-22	8-29-22	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0096	EPA 8270E/SIM	8-29-22	8-29-22	
Dibenz[a,h]anthracene	**ND**	0.0096	EPA 8270E/SIM	8-29-22	8-29-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*56*	*20 - 106*				
Pyrene-d10	*66*	*19 - 104*				
Terphenyl-d14	*63*	*41 - 127*				
Client ID:	**B-37-1-082522**					
Laboratory ID:	08-291-06					
Naphthalene	**ND**	0.10	EPA 8270E/SIM	8-29-22	8-29-22	
Benzo[a]anthracene	**ND**	0.010	EPA 8270E/SIM	8-29-22	8-29-22	
Chrysene	**ND**	0.010	EPA 8270E/SIM	8-29-22	8-29-22	
Benzo[b]fluoranthene	**ND**	0.010	EPA 8270E/SIM	8-29-22	8-29-22	
Benzo(j,k)fluoranthene	**ND**	0.010	EPA 8270E/SIM	8-29-22	8-29-22	
Benzo[a]pyrene	**ND**	0.010	EPA 8270E/SIM	8-29-22	8-29-22	
Indeno(1,2,3-c,d)pyrene	**ND**	0.010	EPA 8270E/SIM	8-29-22	8-29-22	
Dibenz[a,h]anthracene	**ND**	0.010	EPA 8270E/SIM	8-29-22	8-29-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*62*	*20 - 106*				
Pyrene-d10	*73*	*19 - 104*				
Terphenyl-d14	*72*	*41 - 127*				

Date of Report: September 6, 2022
Samples Submitted: August 26, 2022
Laboratory Reference: 2208-291
Project: 397-066

PAHs EPA 8270E/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**B-37-6-082522**					
Laboratory ID:	08-291-07					
Naphthalene	**ND**	0.10	EPA 8270E/SIM	8-29-22	8-29-22	
Benzo[a]anthracene	**ND**	0.010	EPA 8270E/SIM	8-29-22	8-29-22	
Chrysene	**ND**	0.010	EPA 8270E/SIM	8-29-22	8-29-22	
Benzo[b]fluoranthene	**ND**	0.010	EPA 8270E/SIM	8-29-22	8-29-22	
Benzo(j,k)fluoranthene	**ND**	0.010	EPA 8270E/SIM	8-29-22	8-29-22	
Benzo[a]pyrene	**ND**	0.010	EPA 8270E/SIM	8-29-22	8-29-22	
Indeno(1,2,3-c,d)pyrene	**ND**	0.010	EPA 8270E/SIM	8-29-22	8-29-22	
Dibenz[a,h]anthracene	**ND**	0.010	EPA 8270E/SIM	8-29-22	8-29-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*59*	*20 - 106*				
Pyrene-d10	*74*	*19 - 104*				
Terphenyl-d14	*75*	*41 - 127*				
Client ID:	**B-37-4-082522**					
Laboratory ID:	08-291-08					
Naphthalene	**ND**	0.099	EPA 8270E/SIM	8-29-22	8-29-22	
Benzo[a]anthracene	**ND**	0.0099	EPA 8270E/SIM	8-29-22	8-29-22	
Chrysene	**ND**	0.0099	EPA 8270E/SIM	8-29-22	8-29-22	
Benzo[b]fluoranthene	**ND**	0.0099	EPA 8270E/SIM	8-29-22	8-29-22	
Benzo(j,k)fluoranthene	**ND**	0.0099	EPA 8270E/SIM	8-29-22	8-29-22	
Benzo[a]pyrene	**ND**	0.0099	EPA 8270E/SIM	8-29-22	8-29-22	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0099	EPA 8270E/SIM	8-29-22	8-29-22	
Dibenz[a,h]anthracene	**ND**	0.0099	EPA 8270E/SIM	8-29-22	8-29-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*66*	*20 - 106*				
Pyrene-d10	*78*	*19 - 104*				
Terphenyl-d14	*73*	*41 - 127*				

Date of Report: September 6, 2022
Samples Submitted: August 26, 2022
Laboratory Reference: 2208-291
Project: 397-066

PAHs EPA 8270E/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**B-37-3-082522**					
Laboratory ID:	08-291-09					
Naphthalene	**ND**	0.097	EPA 8270E/SIM	8-29-22	8-29-22	
Benzo[a]anthracene	**ND**	0.0097	EPA 8270E/SIM	8-29-22	8-29-22	
Chrysene	**ND**	0.0097	EPA 8270E/SIM	8-29-22	8-29-22	
Benzo[b]fluoranthene	**ND**	0.0097	EPA 8270E/SIM	8-29-22	8-29-22	
Benzo(j,k)fluoranthene	**ND**	0.0097	EPA 8270E/SIM	8-29-22	8-29-22	
Benzo[a]pyrene	**ND**	0.0097	EPA 8270E/SIM	8-29-22	8-29-22	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0097	EPA 8270E/SIM	8-29-22	8-29-22	
Dibenz[a,h]anthracene	**ND**	0.0097	EPA 8270E/SIM	8-29-22	8-29-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*54*	*20 - 106*				
Pyrene-d10	*74*	*19 - 104*				
Terphenyl-d14	*73*	*41 - 127*				
Client ID:	**B-37-2-082422**					
Laboratory ID:	08-291-10					
Naphthalene	**ND**	0.097	EPA 8270E/SIM	8-29-22	8-29-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*58*	*20 - 106*				
Pyrene-d10	*72*	*19 - 104*				
Terphenyl-d14	*69*	*41 - 127*				
Client ID:	**MWR-3-082422**					
Laboratory ID:	08-291-11					
Naphthalene	**ND**	0.096	EPA 8270E/SIM	8-29-22	8-29-22	
Benzo[a]anthracene	**ND**	0.0096	EPA 8270E/SIM	8-29-22	8-29-22	
Chrysene	**ND**	0.0096	EPA 8270E/SIM	8-29-22	8-29-22	
Benzo[b]fluoranthene	**ND**	0.0096	EPA 8270E/SIM	8-29-22	8-29-22	
Benzo(j,k)fluoranthene	**ND**	0.0096	EPA 8270E/SIM	8-29-22	8-29-22	
Benzo[a]pyrene	**ND**	0.0096	EPA 8270E/SIM	8-29-22	8-29-22	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0096	EPA 8270E/SIM	8-29-22	8-29-22	
Dibenz[a,h]anthracene	**ND**	0.0096	EPA 8270E/SIM	8-29-22	8-29-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*51*	*20 - 106*				
Pyrene-d10	*61*	*19 - 104*				
Terphenyl-d14	*60*	*41 - 127*				

Date of Report: September 6, 2022
Samples Submitted: August 26, 2022
Laboratory Reference: 2208-291
Project: 397-066

PAHs EPA 8270E/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FMW-131-082422**					
Laboratory ID:	08-291-12					
Naphthalene	**ND**	0.097	EPA 8270E/SIM	8-29-22	8-29-22	
Benzo[a]anthracene	**ND**	0.0097	EPA 8270E/SIM	8-29-22	8-29-22	
Chrysene	**ND**	0.0097	EPA 8270E/SIM	8-29-22	8-29-22	
Benzo[b]fluoranthene	**ND**	0.0097	EPA 8270E/SIM	8-29-22	8-29-22	
Benzo(j,k)fluoranthene	**ND**	0.0097	EPA 8270E/SIM	8-29-22	8-29-22	
Benzo[a]pyrene	**ND**	0.0097	EPA 8270E/SIM	8-29-22	8-29-22	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0097	EPA 8270E/SIM	8-29-22	8-29-22	
Dibenz[a,h]anthracene	**ND**	0.0097	EPA 8270E/SIM	8-29-22	8-29-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*54*	*20 - 106*				
Pyrene-d10	*67*	*19 - 104*				
Terphenyl-d14	*65*	*41 - 127*				
Client ID:	**FMW-139-082422**					
Laboratory ID:	08-291-13					
Naphthalene	**ND**	0.096	EPA 8270E/SIM	8-29-22	8-29-22	
Benzo[a]anthracene	**ND**	0.0096	EPA 8270E/SIM	8-29-22	8-29-22	
Chrysene	**ND**	0.0096	EPA 8270E/SIM	8-29-22	8-29-22	
Benzo[b]fluoranthene	**ND**	0.0096	EPA 8270E/SIM	8-29-22	8-29-22	
Benzo(j,k)fluoranthene	**ND**	0.0096	EPA 8270E/SIM	8-29-22	8-29-22	
Benzo[a]pyrene	**ND**	0.0096	EPA 8270E/SIM	8-29-22	8-29-22	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0096	EPA 8270E/SIM	8-29-22	8-29-22	
Dibenz[a,h]anthracene	**ND**	0.0096	EPA 8270E/SIM	8-29-22	8-29-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*60*	*20 - 106*				
Pyrene-d10	*70*	*19 - 104*				
Terphenyl-d14	*67*	*41 - 127*				

Date of Report: September 6, 2022
Samples Submitted: August 26, 2022
Laboratory Reference: 2208-291
Project: 397-066

PAHs EPA 8270E/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**B-37-9-082422**					
Laboratory ID:	08-291-14					
Naphthalene	**ND**	0.097	EPA 8270E/SIM	8-29-22	8-29-22	
Benzo[a]anthracene	**ND**	0.0097	EPA 8270E/SIM	8-29-22	8-29-22	
Chrysene	**ND**	0.0097	EPA 8270E/SIM	8-29-22	8-29-22	
Benzo[b]fluoranthene	**ND**	0.0097	EPA 8270E/SIM	8-29-22	8-29-22	
Benzo(j,k)fluoranthene	**ND**	0.0097	EPA 8270E/SIM	8-29-22	8-29-22	
Benzo[a]pyrene	**ND**	0.0097	EPA 8270E/SIM	8-29-22	8-29-22	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0097	EPA 8270E/SIM	8-29-22	8-29-22	
Dibenz[a,h]anthracene	**ND**	0.0097	EPA 8270E/SIM	8-29-22	8-29-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*56*	*20 - 106*				
Pyrene-d10	*66*	*19 - 104*				
Terphenyl-d14	*63*	*41 - 127*				
Client ID:	**MWR-6-082422**					
Laboratory ID:	08-291-15					
Naphthalene	**ND**	0.096	EPA 8270E/SIM	8-29-22	8-29-22	
Benzo[a]anthracene	**ND**	0.0096	EPA 8270E/SIM	8-29-22	8-29-22	
Chrysene	**ND**	0.0096	EPA 8270E/SIM	8-29-22	8-29-22	
Benzo[b]fluoranthene	**ND**	0.0096	EPA 8270E/SIM	8-29-22	8-29-22	
Benzo(j,k)fluoranthene	**ND**	0.0096	EPA 8270E/SIM	8-29-22	8-29-22	
Benzo[a]pyrene	**ND**	0.0096	EPA 8270E/SIM	8-29-22	8-29-22	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0096	EPA 8270E/SIM	8-29-22	8-29-22	
Dibenz[a,h]anthracene	**ND**	0.0096	EPA 8270E/SIM	8-29-22	8-29-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*61*	*20 - 106*				
Pyrene-d10	*73*	*19 - 104*				
Terphenyl-d14	*68*	*41 - 127*				

Date of Report: September 6, 2022
Samples Submitted: August 26, 2022
Laboratory Reference: 2208-291
Project: 397-066

PAHs EPA 8270E/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-45-082422**					
Laboratory ID:	08-291-16					
Naphthalene	**ND**	0.095	EPA 8270E/SIM	8-29-22	8-29-22	
Benzo[a]anthracene	**ND**	0.0095	EPA 8270E/SIM	8-29-22	8-29-22	
Chrysene	**ND**	0.0095	EPA 8270E/SIM	8-29-22	8-29-22	
Benzo[b]fluoranthene	**ND**	0.0095	EPA 8270E/SIM	8-29-22	8-29-22	
Benzo(j,k)fluoranthene	**ND**	0.0095	EPA 8270E/SIM	8-29-22	8-29-22	
Benzo[a]pyrene	**ND**	0.0095	EPA 8270E/SIM	8-29-22	8-29-22	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0095	EPA 8270E/SIM	8-29-22	8-29-22	
Dibenz[a,h]anthracene	**ND**	0.0095	EPA 8270E/SIM	8-29-22	8-29-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*71*	*20 - 106*				
Pyrene-d10	*70*	*19 - 104*				
Terphenyl-d14	*67*	*41 - 127*				
Client ID:	**MW-54-082422**					
Laboratory ID:	08-291-17					
Naphthalene	**ND**	0.095	EPA 8270E/SIM	8-29-22	8-29-22	
Benzo[a]anthracene	**ND**	0.0095	EPA 8270E/SIM	8-29-22	8-29-22	
Chrysene	**ND**	0.0095	EPA 8270E/SIM	8-29-22	8-29-22	
Benzo[b]fluoranthene	**ND**	0.0095	EPA 8270E/SIM	8-29-22	8-29-22	
Benzo(j,k)fluoranthene	**ND**	0.0095	EPA 8270E/SIM	8-29-22	8-29-22	
Benzo[a]pyrene	**ND**	0.0095	EPA 8270E/SIM	8-29-22	8-29-22	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0095	EPA 8270E/SIM	8-29-22	8-29-22	
Dibenz[a,h]anthracene	**ND**	0.0095	EPA 8270E/SIM	8-29-22	8-29-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*58*	*20 - 106*				
Pyrene-d10	*68*	*19 - 104*				
Terphenyl-d14	*65*	*41 - 127*				

Date of Report: September 6, 2022
Samples Submitted: August 26, 2022
Laboratory Reference: 2208-291
Project: 397-066

PAHs EPA 8270E/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**PH-2/AMW-1-082522**					
Laboratory ID:	08-291-18					
Naphthalene	**ND**	0.099	EPA 8270E/SIM	8-29-22	8-29-22	
Benzo[a]anthracene	**ND**	0.0099	EPA 8270E/SIM	8-29-22	8-29-22	
Chrysene	**ND**	0.0099	EPA 8270E/SIM	8-29-22	8-29-22	
Benzo[b]fluoranthene	**ND**	0.0099	EPA 8270E/SIM	8-29-22	8-29-22	
Benzo(j,k)fluoranthene	**ND**	0.0099	EPA 8270E/SIM	8-29-22	8-29-22	
Benzo[a]pyrene	**ND**	0.0099	EPA 8270E/SIM	8-29-22	8-29-22	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0099	EPA 8270E/SIM	8-29-22	8-29-22	
Dibenz[a,h]anthracene	**ND**	0.0099	EPA 8270E/SIM	8-29-22	8-29-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*47*	*20 - 106*				
Pyrene-d10	*57*	*19 - 104*				
Terphenyl-d14	*57*	*41 - 127*				
Client ID:	**PH-1-082522**					
Laboratory ID:	08-291-19					
Naphthalene	**ND**	0.097	EPA 8270E/SIM	8-29-22	8-30-22	
Benzo[a]anthracene	**ND**	0.0097	EPA 8270E/SIM	8-29-22	8-30-22	
Chrysene	**ND**	0.0097	EPA 8270E/SIM	8-29-22	8-30-22	
Benzo[b]fluoranthene	**ND**	0.0097	EPA 8270E/SIM	8-29-22	8-30-22	
Benzo(j,k)fluoranthene	**ND**	0.0097	EPA 8270E/SIM	8-29-22	8-30-22	
Benzo[a]pyrene	**ND**	0.0097	EPA 8270E/SIM	8-29-22	8-30-22	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0097	EPA 8270E/SIM	8-29-22	8-30-22	
Dibenz[a,h]anthracene	**ND**	0.0097	EPA 8270E/SIM	8-29-22	8-30-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*63*	*20 - 106*				
Pyrene-d10	*74*	*19 - 104*				
Terphenyl-d14	*69*	*41 - 127*				

Date of Report: September 6, 2022
Samples Submitted: August 26, 2022
Laboratory Reference: 2208-291
Project: 397-066

PAHs EPA 8270E/SIM
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0829W1					
Naphthalene	**ND**	0.10	EPA 8270E/SIM	8-29-22	8-29-22	
Benzo[a]anthracene	**ND**	0.010	EPA 8270E/SIM	8-29-22	8-29-22	
Chrysene	**ND**	0.010	EPA 8270E/SIM	8-29-22	8-29-22	
Benzo[b]fluoranthene	**ND**	0.010	EPA 8270E/SIM	8-29-22	8-29-22	
Benzo(j,k)fluoranthene	**ND**	0.010	EPA 8270E/SIM	8-29-22	8-29-22	
Benzo[a]pyrene	**ND**	0.010	EPA 8270E/SIM	8-29-22	8-29-22	
Indeno(1,2,3-c,d)pyrene	**ND**	0.010	EPA 8270E/SIM	8-29-22	8-29-22	
Dibenz[a,h]anthracene	**ND**	0.010	EPA 8270E/SIM	8-29-22	8-29-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*62*	*20 - 106*				
Pyrene-d10	*78*	*19 - 104*				
Terphenyl-d14	*78*	*41 - 127*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0829W1									
	SB	SBD	SB	SBD	SB	SBD				
Naphthalene	**0.267**	**0.271**	0.500	0.500	53	54	25 - 82	1	39	
Acenaphthylene	**0.290**	**0.301**	0.500	0.500	58	60	35 - 107	4	26	
Acenaphthene	**0.285**	**0.297**	0.500	0.500	57	59	33 - 99	4	26	
Fluorene	**0.331**	**0.357**	0.500	0.500	66	71	43 - 95	8	24	
Phenanthrene	**0.337**	**0.363**	0.500	0.500	67	73	49 - 100	7	20	
Anthracene	**0.328**	**0.347**	0.500	0.500	66	69	47 - 101	6	21	
Fluoranthene	**0.353**	**0.384**	0.500	0.500	71	77	51 - 115	8	23	
Pyrene	**0.355**	**0.372**	0.500	0.500	71	74	53 - 117	5	24	
Benzo[a]anthracene	**0.332**	**0.344**	0.500	0.500	66	69	57 - 114	4	21	
Chrysene	**0.341**	**0.359**	0.500	0.500	68	72	55 - 119	5	21	
Benzo[b]fluoranthene	**0.379**	**0.390**	0.500	0.500	76	78	56 - 125	3	26	
Benzo(j,k)fluoranthene	**0.325**	**0.350**	0.500	0.500	65	70	53 - 124	7	22	
Benzo[a]pyrene	**0.343**	**0.359**	0.500	0.500	69	72	54 - 119	5	22	
Indeno(1,2,3-c,d)pyrene	**0.404**	**0.417**	0.500	0.500	81	83	55 - 118	3	23	
Dibenz[a,h]anthracene	**0.370**	**0.391**	0.500	0.500	74	78	56 - 118	6	23	
Benzo[g,h,i]perylene	**0.355**	**0.374**	0.500	0.500	71	75	55 - 117	5	22	
Surrogate:										
2-Fluorobiphenyl					*58*	*57*	*20 - 106*			
Pyrene-d10					*70*	*75*	*19 - 104*			
Terphenyl-d14					*68*	*72*	*41 - 127*			

Date of Report: September 6, 2022
Samples Submitted: August 26, 2022
Laboratory Reference: 2208-291
Project: 397-066

PCBs EPA 8082A

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**PH-3-082522**					
Laboratory ID:	08-291-01					
Aroclor 1016	**ND**	0.019	EPA 8082A	8-31-22	8-31-22	
Aroclor 1221	**ND**	0.019	EPA 8082A	8-31-22	8-31-22	
Aroclor 1232	**ND**	0.019	EPA 8082A	8-31-22	8-31-22	
Aroclor 1242	**ND**	0.019	EPA 8082A	8-31-22	8-31-22	
Aroclor 1248	**ND**	0.019	EPA 8082A	8-31-22	8-31-22	
Aroclor 1254	**ND**	0.019	EPA 8082A	8-31-22	8-31-22	
Aroclor 1260	**ND**	0.019	EPA 8082A	8-31-22	8-31-22	
Aroclor 1262	**ND**	0.019	EPA 8082A	8-31-22	8-31-22	
Aroclor 1268	**ND**	0.019	EPA 8082A	8-31-22	8-31-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*105*	*49-133*				
Client ID:	**B-37-1-082522**					
Laboratory ID:	08-291-06					
Aroclor 1016	**ND**	0.019	EPA 8082A	8-31-22	8-31-22	
Aroclor 1221	**ND**	0.019	EPA 8082A	8-31-22	8-31-22	
Aroclor 1232	**ND**	0.019	EPA 8082A	8-31-22	8-31-22	
Aroclor 1242	**ND**	0.019	EPA 8082A	8-31-22	8-31-22	
Aroclor 1248	**ND**	0.019	EPA 8082A	8-31-22	8-31-22	
Aroclor 1254	**ND**	0.019	EPA 8082A	8-31-22	8-31-22	
Aroclor 1260	**ND**	0.019	EPA 8082A	8-31-22	8-31-22	
Aroclor 1262	**ND**	0.019	EPA 8082A	8-31-22	8-31-22	
Aroclor 1268	**ND**	0.019	EPA 8082A	8-31-22	8-31-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*107*	*49-133*				
Client ID:	**B-37-3-082522**					
Laboratory ID:	08-291-09					
Aroclor 1016	**ND**	0.019	EPA 8082A	8-31-22	8-31-22	
Aroclor 1221	**ND**	0.019	EPA 8082A	8-31-22	8-31-22	
Aroclor 1232	**ND**	0.019	EPA 8082A	8-31-22	8-31-22	
Aroclor 1242	**ND**	0.019	EPA 8082A	8-31-22	8-31-22	
Aroclor 1248	**ND**	0.019	EPA 8082A	8-31-22	8-31-22	
Aroclor 1254	**ND**	0.019	EPA 8082A	8-31-22	8-31-22	
Aroclor 1260	**ND**	0.019	EPA 8082A	8-31-22	8-31-22	
Aroclor 1262	**ND**	0.019	EPA 8082A	8-31-22	8-31-22	
Aroclor 1268	**ND**	0.019	EPA 8082A	8-31-22	8-31-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*110*	*49-133*				

Date of Report: September 6, 2022
Samples Submitted: August 26, 2022
Laboratory Reference: 2208-291
Project: 397-066

PCBs EPA 8082A

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MWR-3-082422**					
Laboratory ID:	08-291-11					
Aroclor 1016	**ND**	0.020	EPA 8082A	8-31-22	8-31-22	
Aroclor 1221	**ND**	0.020	EPA 8082A	8-31-22	8-31-22	
Aroclor 1232	**ND**	0.020	EPA 8082A	8-31-22	8-31-22	
Aroclor 1242	**ND**	0.020	EPA 8082A	8-31-22	8-31-22	
Aroclor 1248	**ND**	0.020	EPA 8082A	8-31-22	8-31-22	
Aroclor 1254	**ND**	0.020	EPA 8082A	8-31-22	8-31-22	
Aroclor 1260	**ND**	0.020	EPA 8082A	8-31-22	8-31-22	
Aroclor 1262	**ND**	0.020	EPA 8082A	8-31-22	8-31-22	
Aroclor 1268	**ND**	0.020	EPA 8082A	8-31-22	8-31-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*107*	*49-133*				
Client ID:	**PH-2/AMW-1-082522**					
Laboratory ID:	08-291-18					
Aroclor 1016	**ND**	0.020	EPA 8082A	8-31-22	8-31-22	
Aroclor 1221	**ND**	0.020	EPA 8082A	8-31-22	8-31-22	
Aroclor 1232	**ND**	0.020	EPA 8082A	8-31-22	8-31-22	
Aroclor 1242	**ND**	0.020	EPA 8082A	8-31-22	8-31-22	
Aroclor 1248	**ND**	0.020	EPA 8082A	8-31-22	8-31-22	
Aroclor 1254	**ND**	0.020	EPA 8082A	8-31-22	8-31-22	
Aroclor 1260	**ND**	0.020	EPA 8082A	8-31-22	8-31-22	
Aroclor 1262	**ND**	0.020	EPA 8082A	8-31-22	8-31-22	
Aroclor 1268	**ND**	0.020	EPA 8082A	8-31-22	8-31-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*91*	*49-133*				
Client ID:	**PH-1-082522**					
Laboratory ID:	08-291-19					
Aroclor 1016	**ND**	0.019	EPA 8082A	8-31-22	8-31-22	
Aroclor 1221	**ND**	0.019	EPA 8082A	8-31-22	8-31-22	
Aroclor 1232	**ND**	0.019	EPA 8082A	8-31-22	8-31-22	
Aroclor 1242	**ND**	0.019	EPA 8082A	8-31-22	8-31-22	
Aroclor 1248	**ND**	0.019	EPA 8082A	8-31-22	8-31-22	
Aroclor 1254	**ND**	0.019	EPA 8082A	8-31-22	8-31-22	
Aroclor 1260	**ND**	0.019	EPA 8082A	8-31-22	8-31-22	
Aroclor 1262	**ND**	0.019	EPA 8082A	8-31-22	8-31-22	
Aroclor 1268	**ND**	0.019	EPA 8082A	8-31-22	8-31-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*91*	*49-133*				

Date of Report: September 6, 2022
Samples Submitted: August 26, 2022
Laboratory Reference: 2208-291
Project: 397-066

PCBs EPA 8082A
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0831W1					
Aroclor 1016	**ND**	0.020	EPA 8082A	8-31-22	8-31-22	
Aroclor 1221	**ND**	0.020	EPA 8082A	8-31-22	8-31-22	
Aroclor 1232	**ND**	0.020	EPA 8082A	8-31-22	8-31-22	
Aroclor 1242	**ND**	0.020	EPA 8082A	8-31-22	8-31-22	
Aroclor 1248	**ND**	0.020	EPA 8082A	8-31-22	8-31-22	
Aroclor 1254	**ND**	0.020	EPA 8082A	8-31-22	8-31-22	
Aroclor 1260	**ND**	0.020	EPA 8082A	8-31-22	8-31-22	
Aroclor 1262	**ND**	0.020	EPA 8082A	8-31-22	8-31-22	
Aroclor 1268	**ND**	0.020	EPA 8082A	8-31-22	8-31-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*99*	*49-133*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB0831W1										
	SB	SBD	SB	SBD		SB	SBD				
Aroclor 1260	**0.480**	**0.467**	0.500	0.500	N/A	**96**	**93**	67-120	3	15	
Surrogate:											
DCB						*100*	*97*	*49-133*			

Date of Report: September 6, 2022
Samples Submitted: August 26, 2022
Laboratory Reference: 2208-291
Project: 397-066

TOTAL METALS
EPA 200.8

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**PH-3-082522**					
Laboratory ID:	08-291-01					
Arsenic	**7.2**	3.0	EPA 200.8	9-2-22	9-2-22	
Barium	**160**	28	EPA 200.8	9-2-22	9-2-22	
Chromium	**ND**	10	EPA 200.8	9-2-22	9-2-22	
Lead	**ND**	1.1	EPA 200.8	9-2-22	9-2-22	
Client ID:	**B-37-7-082522**					
Laboratory ID:	08-291-02					
Arsenic	**ND**	3.0	EPA 200.8	9-2-22	9-2-22	
Barium	**140**	28	EPA 200.8	9-2-22	9-2-22	
Chromium	**ND**	10	EPA 200.8	9-2-22	9-2-22	
Lead	**ND**	1.1	EPA 200.8	9-2-22	9-2-22	
Client ID:	**MW-50-082522**					
Laboratory ID:	08-291-03					
Arsenic	**19**	3.0	EPA 200.8	9-2-22	9-2-22	
Barium	**81**	28	EPA 200.8	9-2-22	9-2-22	
Chromium	**ND**	10	EPA 200.8	9-2-22	9-2-22	
Lead	**ND**	1.1	EPA 200.8	9-2-22	9-2-22	
Client ID:	**B-37-5-082522**					
Laboratory ID:	08-291-04					
Arsenic	**11**	3.0	EPA 200.8	9-2-22	9-2-22	
Barium	**90**	28	EPA 200.8	9-2-22	9-2-22	
Chromium	**ND**	10	EPA 200.8	9-2-22	9-2-22	
Lead	**ND**	1.1	EPA 200.8	9-2-22	9-2-22	
Client ID:	**B-37-8-082522**					
Laboratory ID:	08-291-05					
Arsenic	**5.6**	3.0	EPA 200.8	9-2-22	9-2-22	
Barium	**120**	28	EPA 200.8	9-2-22	9-2-22	
Chromium	**ND**	10	EPA 200.8	9-2-22	9-2-22	
Lead	**1.2**	1.1	EPA 200.8	9-2-22	9-2-22	

Date of Report: September 6, 2022
Samples Submitted: August 26, 2022
Laboratory Reference: 2208-291
Project: 397-066

TOTAL METALS
EPA 200.8

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**B-37-1-082522**					
Laboratory ID:	08-291-06					
Arsenic	**ND**	3.0	EPA 200.8	9-2-22	9-2-22	
Barium	**130**	28	EPA 200.8	9-2-22	9-2-22	
Chromium	**ND**	10	EPA 200.8	9-2-22	9-2-22	
Lead	**ND**	1.1	EPA 200.8	9-2-22	9-2-22	
Client ID:	**B-37-6-082522**					
Laboratory ID:	08-291-07					
Arsenic	**ND**	3.0	EPA 200.8	9-2-22	9-2-22	
Barium	**77**	28	EPA 200.8	9-2-22	9-2-22	
Chromium	**ND**	10	EPA 200.8	9-2-22	9-2-22	
Lead	**ND**	1.1	EPA 200.8	9-2-22	9-2-22	
Client ID:	**B-37-4-082522**					
Laboratory ID:	08-291-08					
Arsenic	**ND**	3.0	EPA 200.8	9-2-22	9-2-22	
Barium	**110**	28	EPA 200.8	9-2-22	9-2-22	
Chromium	**ND**	10	EPA 200.8	9-2-22	9-2-22	
Lead	**ND**	1.1	EPA 200.8	9-2-22	9-2-22	
Client ID:	**B-37-3-082522**					
Laboratory ID:	08-291-09					
Arsenic	**5.2**	3.0	EPA 200.8	9-2-22	9-2-22	
Barium	**110**	28	EPA 200.8	9-2-22	9-2-22	
Chromium	**ND**	10	EPA 200.8	9-2-22	9-2-22	
Lead	**ND**	1.1	EPA 200.8	9-2-22	9-2-22	
Client ID:	**MWR-3-082422**					
Laboratory ID:	08-291-11					
Arsenic	**8.3**	3.0	EPA 200.8	9-2-22	9-2-22	
Barium	**56**	28	EPA 200.8	9-2-22	9-2-22	
Chromium	**ND**	10	EPA 200.8	9-2-22	9-2-22	
Lead	**ND**	1.1	EPA 200.8	9-2-22	9-2-22	

Date of Report: September 6, 2022
Samples Submitted: August 26, 2022
Laboratory Reference: 2208-291
Project: 397-066

TOTAL METALS
EPA 200.8

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FMW-131-082422**					
Laboratory ID:	08-291-12					
Arsenic	**53**	3.0	EPA 200.8	9-2-22	9-2-22	
Barium	**ND**	28	EPA 200.8	9-2-22	9-2-22	
Chromium	**ND**	10	EPA 200.8	9-2-22	9-2-22	
Lead	**ND**	1.1	EPA 200.8	9-2-22	9-2-22	
Client ID:	**FMW-139-082422**					
Laboratory ID:	08-291-13					
Arsenic	**ND**	3.0	EPA 200.8	9-2-22	9-2-22	
Barium	**67**	28	EPA 200.8	9-2-22	9-2-22	
Chromium	**ND**	10	EPA 200.8	9-2-22	9-2-22	
Lead	**ND**	1.1	EPA 200.8	9-2-22	9-2-22	
Client ID:	**B-37-9-082422**					
Laboratory ID:	08-291-14					
Arsenic	**10**	3.0	EPA 200.8	9-2-22	9-2-22	
Barium	**93**	28	EPA 200.8	9-2-22	9-2-22	
Chromium	**ND**	10	EPA 200.8	9-2-22	9-2-22	
Lead	**ND**	1.1	EPA 200.8	9-2-22	9-2-22	
Client ID:	**MWR-6-082422**					
Laboratory ID:	08-291-15					
Arsenic	**ND**	3.0	EPA 200.8	9-2-22	9-2-22	
Barium	**160**	28	EPA 200.8	9-2-22	9-2-22	
Chromium	**ND**	10	EPA 200.8	9-2-22	9-2-22	
Lead	**ND**	1.1	EPA 200.8	9-2-22	9-2-22	
Client ID:	**MW-45-082422**					
Laboratory ID:	08-291-16					
Arsenic	**ND**	3.0	EPA 200.8	9-2-22	9-2-22	
Barium	**62**	28	EPA 200.8	9-2-22	9-2-22	
Chromium	**ND**	10	EPA 200.8	9-2-22	9-2-22	
Lead	**ND**	1.1	EPA 200.8	9-2-22	9-2-22	

Date of Report: September 6, 2022
Samples Submitted: August 26, 2022
Laboratory Reference: 2208-291
Project: 397-066

TOTAL METALS
EPA 200.8

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-54-082422**					
Laboratory ID:	08-291-17					
Arsenic	**ND**	3.0	EPA 200.8	9-2-22	9-2-22	
Barium	**55**	28	EPA 200.8	9-2-22	9-2-22	
Chromium	**ND**	10	EPA 200.8	9-2-22	9-2-22	
Lead	**ND**	1.1	EPA 200.8	9-2-22	9-2-22	
Client ID:	**PH-2/AMW-1-082522**					
Laboratory ID:	08-291-18					
Arsenic	**12**	3.0	EPA 200.8	9-2-22	9-2-22	
Barium	**110**	28	EPA 200.8	9-2-22	9-2-22	
Chromium	**ND**	10	EPA 200.8	9-2-22	9-2-22	
Lead	**ND**	1.1	EPA 200.8	9-2-22	9-2-22	
Client ID:	**PH-1-082522**					
Laboratory ID:	08-291-19					
Arsenic	**4.0**	3.0	EPA 200.8	9-2-22	9-2-22	
Barium	**170**	28	EPA 200.8	9-2-22	9-2-22	
Chromium	**ND**	10	EPA 200.8	9-2-22	9-2-22	
Lead	**ND**	1.1	EPA 200.8	9-2-22	9-2-22	

Date of Report: September 6, 2022
Samples Submitted: August 26, 2022
Laboratory Reference: 2208-291
Project: 397-066

TOTAL METALS
EPA 200.8
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0902WM1					
Arsenic	**ND**	3.0	EPA 200.8	9-2-22	9-2-22	
Barium	**ND**	28	EPA 200.8	9-2-22	9-2-22	
Chromium	**ND**	10	EPA 200.8	9-2-22	9-2-22	
Lead	**ND**	1.1	EPA 200.8	9-2-22	9-2-22	

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	08-238-04									
	ORIG	DUP								
Arsenic	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Barium	**45.3**	**45.6**	NA	NA		NA	NA	0	20	
Chromium	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Lead	**ND**	**ND**	NA	NA		NA	NA	NA	20	
MATRIX SPIKES										
Laboratory ID:	08-238-04									
	MS	MSD	MS	MSD		MS	MSD			
Arsenic	**111**	**113**	111	111	ND	**100**	**102**	75-125	2	20
Barium	**153**	**155**	111	111	45.3	**97**	**99**	75-125	1	20
Chromium	**106**	**108**	111	111	ND	**96**	**97**	75-125	1	20
Lead	**109**	**111**	111	111	ND	**98**	**100**	75-125	1	20

Date of Report: September 6, 2022
Samples Submitted: August 26, 2022
Laboratory Reference: 2208-291
Project: 397-066

DISSOLVED METALS
EPA 200.8

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**PH-3-082522**					
Laboratory ID:	08-291-01					
Arsenic	**7.4**	3.0	EPA 200.8		9-2-22	
Barium	**160**	25	EPA 200.8		9-2-22	
Chromium	**ND**	10	EPA 200.8		9-2-22	
Lead	**ND**	1.0	EPA 200.8		9-2-22	
Client ID:	**B-37-7-082522**					
Laboratory ID:	08-291-02					
Arsenic	**ND**	3.0	EPA 200.8		9-2-22	
Barium	**140**	25	EPA 200.8		9-2-22	
Chromium	**ND**	10	EPA 200.8		9-2-22	
Lead	**ND**	1.0	EPA 200.8		9-2-22	
Client ID:	**MW-50-082522**					
Laboratory ID:	08-291-03					
Arsenic	**19**	3.0	EPA 200.8		9-2-22	
Barium	**80**	25	EPA 200.8		9-2-22	
Chromium	**ND**	10	EPA 200.8		9-2-22	
Lead	**ND**	1.0	EPA 200.8		9-2-22	
Client ID:	**B-37-5-082522**					
Laboratory ID:	08-291-04					
Arsenic	**11**	3.0	EPA 200.8		9-2-22	
Barium	**78**	25	EPA 200.8		9-2-22	
Chromium	**ND**	10	EPA 200.8		9-2-22	
Lead	**ND**	1.0	EPA 200.8		9-2-22	
Client ID:	**B-37-8-082522**					
Laboratory ID:	08-291-05					
Arsenic	**5.4**	3.0	EPA 200.8		9-2-22	
Barium	**94**	25	EPA 200.8		9-2-22	
Chromium	**ND**	10	EPA 200.8		9-2-22	
Lead	**ND**	1.0	EPA 200.8		9-2-22	

Date of Report: September 6, 2022
Samples Submitted: August 26, 2022
Laboratory Reference: 2208-291
Project: 397-066

DISSOLVED METALS
EPA 200.8

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**B-37-1-082522**					
Laboratory ID:	08-291-06					
Arsenic	**ND**	3.0	EPA 200.8		9-2-22	
Barium	**130**	25	EPA 200.8		9-2-22	
Chromium	**ND**	10	EPA 200.8		9-2-22	
Lead	**ND**	1.0	EPA 200.8		9-2-22	
Client ID:	**B-37-6-082522**					
Laboratory ID:	08-291-07					
Arsenic	**ND**	3.0	EPA 200.8		9-2-22	
Barium	**76**	25	EPA 200.8		9-2-22	
Chromium	**ND**	10	EPA 200.8		9-2-22	
Lead	**ND**	1.0	EPA 200.8		9-2-22	
Client ID:	**B-37-4-082522**					
Laboratory ID:	08-291-08					
Arsenic	**ND**	3.0	EPA 200.8		9-2-22	
Barium	**110**	25	EPA 200.8		9-2-22	
Chromium	**ND**	10	EPA 200.8		9-2-22	
Lead	**ND**	1.0	EPA 200.8		9-2-22	
Client ID:	**B-37-3-082522**					
Laboratory ID:	08-291-09					
Arsenic	**5.5**	3.0	EPA 200.8		9-2-22	
Barium	**110**	25	EPA 200.8		9-2-22	
Chromium	**ND**	10	EPA 200.8		9-2-22	
Lead	**ND**	1.0	EPA 200.8		9-2-22	
Client ID:	**MWR-3-082422**					
Laboratory ID:	08-291-11					
Arsenic	**7.9**	3.0	EPA 200.8		9-2-22	
Barium	**50**	25	EPA 200.8		9-2-22	
Chromium	**ND**	10	EPA 200.8		9-2-22	
Lead	**ND**	1.0	EPA 200.8		9-2-22	

Date of Report: September 6, 2022
Samples Submitted: August 26, 2022
Laboratory Reference: 2208-291
Project: 397-066

DISSOLVED METALS
EPA 200.8

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FMW-131-082422**					
Laboratory ID:	08-291-12					
Arsenic	**53**	3.0	EPA 200.8		9-2-22	
Barium	**ND**	25	EPA 200.8		9-2-22	
Chromium	**ND**	10	EPA 200.8		9-2-22	
Lead	**ND**	1.0	EPA 200.8		9-2-22	
Client ID:	**FMW-139-082422**					
Laboratory ID:	08-291-13					
Arsenic	**ND**	3.0	EPA 200.8		9-2-22	
Barium	**66**	25	EPA 200.8		9-2-22	
Chromium	**ND**	10	EPA 200.8		9-2-22	
Lead	**ND**	1.0	EPA 200.8		9-2-22	
Client ID:	**B-37-9-082422**					
Laboratory ID:	08-291-14					
Arsenic	**11**	3.0	EPA 200.8		9-2-22	
Barium	**90**	25	EPA 200.8		9-2-22	
Chromium	**ND**	10	EPA 200.8		9-2-22	
Lead	**ND**	1.0	EPA 200.8		9-2-22	
Client ID:	**MWR-6-082422**					
Laboratory ID:	08-291-15					
Arsenic	**ND**	3.0	EPA 200.8		9-2-22	
Barium	**150**	25	EPA 200.8		9-2-22	
Chromium	**ND**	10	EPA 200.8		9-2-22	
Lead	**ND**	1.0	EPA 200.8		9-2-22	
Client ID:	**MW-45-082422**					
Laboratory ID:	08-291-16					
Arsenic	**ND**	3.0	EPA 200.8	8-26-22	9-2-22	
Barium	**40**	25	EPA 200.8	8-26-22	9-2-22	
Chromium	**ND**	10	EPA 200.8	8-26-22	9-2-22	
Lead	**ND**	1.0	EPA 200.8	8-26-22	9-2-22	

Date of Report: September 6, 2022
Samples Submitted: August 26, 2022
Laboratory Reference: 2208-291
Project: 397-066

DISSOLVED METALS
EPA 200.8

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-54-082422**					
Laboratory ID:	08-291-17					
Arsenic	**ND**	3.0	EPA 200.8		9-2-22	
Barium	**54**	25	EPA 200.8		9-2-22	
Chromium	**ND**	10	EPA 200.8		9-2-22	
Lead	**ND**	1.0	EPA 200.8		9-2-22	
Client ID:	**PH-2/AMW-1-082522**					
Laboratory ID:	08-291-18					
Arsenic	**5.6**	3.0	EPA 200.8	8-26-22	9-2-22	
Barium	**90**	25	EPA 200.8	8-26-22	9-2-22	
Chromium	**ND**	10	EPA 200.8	8-26-22	9-2-22	
Lead	**ND**	1.0	EPA 200.8	8-26-22	9-2-22	
Client ID:	**PH-1-082522**					
Laboratory ID:	08-291-19					
Arsenic	**4.3**	3.0	EPA 200.8		9-2-22	
Barium	**160**	25	EPA 200.8		9-2-22	
Chromium	**ND**	10	EPA 200.8		9-2-22	
Lead	**ND**	1.0	EPA 200.8		9-2-22	

Date of Report: September 6, 2022
Samples Submitted: August 26, 2022
Laboratory Reference: 2208-291
Project: 397-066

DISSOLVED METALS
EPA 200.8
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0826F1					
Arsenic	**ND**	3.0	EPA 200.8	8-26-22	9-2-22	
Barium	**ND**	25	EPA 200.8	8-26-22	9-2-22	
Chromium	**ND**	10	EPA 200.8	8-26-22	9-2-22	
Lead	**ND**	1.0	EPA 200.8	8-26-22	9-2-22	

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	08-291-16									
	ORIG	DUP								
Arsenic	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Barium	**40.2**	**42.2**	NA	NA		NA	NA	5	20	
Chromium	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Lead	**ND**	**ND**	NA	NA		NA	NA	NA	20	
MATRIX SPIKES										
Laboratory ID:	08-291-16									
	MS	MSD	MS	MSD		MS	MSD			
Arsenic	**83.0**	**87.4**	80.0	80.0	ND	**104**	**109**	75-125	5	20
Barium	**123**	**125**	80.0	80.0	40.2	**103**	**106**	75-125	2	20
Chromium	**75.6**	**77.8**	80.0	80.0	ND	**95**	**97**	75-125	3	20
Lead	**79.4**	**80.6**	80.0	80.0	ND	**99**	**101**	75-125	1	20

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

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

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody

Page 1 of 2

OnSite Environmental Inc.
Analytical Laboratory Testing Services
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Company: FARALLON
Project Number: 397-066
Project Name: BLOCK 37
Project Manager: BRANI JURISTA
Sampled by: JOHN KIM / MICHAEL YSAGUIRRE

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☒ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 08-291

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	PH-3-082522	8/25/22	1515	W	13
2	B-37-7-082522		1306		11
3	MW-50-082522		1000		1
4	B-37-5-082522		0900		
5	B-37-8-082522		1135		
6	B-37-1-082522		1210		13
7	B-37-6-082522		1630		11
8	B-37-4-082522		1505		1
9	B-37-3-082522		1340		13

Lab ID	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☒)	NWTPH-Gx	NWTPH-Dx (Acid / SG Clean-up☐) DRO, ORO, C10-C36	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level) CARCINOGENIC	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	BTEX (8260D)	NAPTHALENE (8270E/SIM)	METALS (As, Ba, Cr, Pb) TOTAL & DISSOLVED	% Moisture
1			X	X					X	X								X	X	X	
2			X	X					X									X	X	X	
3			X	X					X									X	X	X	
4			X	X					X									X	X	X	
5			X	X					X									X	X	X	
6			X	X					X	X								X	X	X	
7			X	X					X									X	X	X	
8			X	X					X									X	X	X	
9			X	X					X	X								X	X	X	

	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished		FARALLON	8/26/22	0932	COC #1/2
Received	Van/JEFF	SPL	8/26/22	1030/1140	~~HOLD FOR PM: METALS AND DISSOLVED~~ METALS
Relinquished	Van/JEFF	SPL	8/26/22	1140/1210	LOW LEVEL PQLs
Received		CASE	8/26/22	1140/1210	
Relinquished					
Received					Data Package: Standard ☑ Level III ☐ Level IV ☐
Reviewed/Date		Reviewed/Date			Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☑

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: FARALLON
Project Number: 397-066
Project Name: BLOCK 37
Project Manager: BRANI JURISTA
Sampled by: JOHN KIM / ANGELA OSMAN

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☒ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 08-291

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☐)	NWTPH-Gx	NWTPH-Dx (Acid / SG Clean-up☐) DRO, ORO, C10-C36	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level) carcinogenic	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	BTEX (8260D)	NAPHTHALENE (8270E/SIM)	METALS (As, Ba, Cr, Pb)	TOTAL & DISSOLVED	% Moisture
10	B-37-2-082422	8/24/22	1635	W	9			X	X														X	X			
11	MWR-3-082422		1450		13			X	X					X	X								X	X	X		
12	FMW-131-082422		1325		11			X	X					X									X	X	X		
13	FMW-139-082422		1138					X	X					X									X	X	X		
14	B-37-9-082422		1408					X	X					X									X	X	X		
15	MWR-6-082422		1557					X	X					X									X	X	X		
16	MW-45-082422		1221					X	X					X									X	X	X	.	
17	MW-54-082422		1123		↓			X	X					X									X	X	X		
18	PH-2/AMW-1-082522	8/25/22	0910		13			X	X					X	X								X	X	X	.	
19	PH-1-082522	8/25/22	1055		↓			X	X					X	X								X	X	X		

	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished		FARALLON	8/26/22	0932	COC #212
Received	Van / JEFF	SPL	8/26/22	1030/11.4	~~HOLD FOR PM: METALS AND~~
Relinquished	Van / JEFF	SPL	8/26/22	1140/12.0	Low Level PALs DISSOLVED ~~METALS~~
Received		CORE	8/26/22	1140/12.0	
Relinquished					
Received					Data Package: Standard ☑ Level III ☐ Level IV ☐
Reviewed/Date		Reviewed/Date			Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☑

3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Atlas Technical Consultants
Brianne Goulet
6347 Seaview Ave NW
Seattle, WA 98107

RE: P66 Westlake
Work Order Number: 2208255

August 24, 2022

Attention Brianne Goulet:

Fremont Analytical, Inc. received 10 sample(s) on 8/17/2022 for the analyses presented in the following report.

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

Date: *08/24/2022*

CLIENT: Atlas Technical Consultants
Project: P66 Westlake
Work Order: 2208255

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2208255-001	MW-209	08/17/2022 11:45 AM	08/17/2022 5:39 PM
2208255-002	MW-210	08/17/2022 10:50 AM	08/17/2022 5:39 PM
2208255-003	MW-211	08/17/2022 10:00 AM	08/17/2022 5:39 PM
2208255-004	MW-212	08/17/2022 4:40 PM	08/17/2022 5:39 PM
2208255-005	MW-213	08/17/2022 1:35 PM	08/17/2022 5:39 PM
2208255-006	MW-214	08/17/2022 2:25 PM	08/17/2022 5:39 PM
2208255-007	MW-215	08/17/2022 3:25 PM	08/17/2022 5:39 PM
2208255-008	MW-216	08/16/2022 11:05 AM	08/17/2022 5:39 PM
2208255-009	MW-217	08/16/2022 12:20 PM	08/17/2022 5:39 PM
2208255-010	MW-218	08/16/2022 1:12 PM	08/17/2022 5:39 PM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

Original

Case Narrative

WO#: **2208255**
Date: **8/24/2022**

CLIENT: Atlas Technical Consultants
Project: P66 Westlake

I. SAMPLE RECEIPT:
Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:
Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:
Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

* - Flagged value is not within established control limits
B - Analyte detected in the associated Method Blank
D - Dilution was required
E - Value above quantitation range
H - Holding times for preparation or analysis exceeded
I - Analyte with an internal standard that does not meet established acceptance criteria
J - Analyte detected below Reporting Limit
N - Tentatively Identified Compound (TIC)
Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
S - Spike recovery outside accepted recovery limits
ND - Not detected at the Reporting Limit
R - High relative percent difference observed

Acronyms:

%Rec - Percent Recovery
CCB - Continued Calibration Blank
CCV - Continued Calibration Verification
DF - Dilution Factor
DUP - Sample Duplicate
HEM - Hexane Extractable Material
ICV - Initial Calibration Verification
LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
MCL - Maximum Contaminant Level
MB or MBLANK - Method Blank
MDL - Method Detection Limit
MS/MSD - Matrix Spike / Matrix Spike Duplicate
PDS - Post Digestion Spike
Ref Val - Reference Value
REP - Sample Replicate
RL - Reporting Limit
RPD - Relative Percent Difference
SD - Serial Dilution
SGT - Silica Gel Treatment
SPK - Spike
Surr - Surrogate

CLIENT: Atlas Technical Consultants
Project: P66 Westlake

Lab ID: 2208255-001 **Collection Date:** 8/17/2022 11:45:00 AM
Client Sample ID: **MW-209** **Matrix:** Groundwater

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.				Batch ID: 37492		Analyst: KJ
Diesel Range Organics	162	94.2		µg/L	1	8/23/2022 10:32:29 AM
Heavy Oil	ND	94.2		µg/L	1	8/23/2022 10:32:29 AM
Total Petroleum Hydrocarbons	ND	188		µg/L	1	8/23/2022 10:32:29 AM
Surr: 2-Fluorobiphenyl	75.3	50 - 150		%Rec	1	8/23/2022 10:32:29 AM
Surr: o-Terphenyl	79.6	50 - 150		%Rec	1	8/23/2022 10:32:29 AM

NOTES:
Chromatographic pattern indicates a continuous distribution of material in the diesel and oil ranges.

Lab ID: 2208255-002 **Collection Date:** 8/17/2022 10:50:00 AM
Client Sample ID: **MW-210** **Matrix:** Groundwater

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.				Batch ID: 37492		Analyst: KJ
Diesel Range Organics	189	93.9		µg/L	1	8/23/2022 10:43:29 AM
Heavy Oil	ND	93.9		µg/L	1	8/23/2022 10:43:29 AM
Total Petroleum Hydrocarbons	189	188		µg/L	1	8/23/2022 10:43:29 AM
Surr: 2-Fluorobiphenyl	77.7	50 - 150		%Rec	1	8/23/2022 10:43:29 AM
Surr: o-Terphenyl	81.9	50 - 150		%Rec	1	8/23/2022 10:43:29 AM

NOTES:
Chromatographic pattern indicates a continuous distribution of material in the diesel and oil ranges.

Lab ID: 2208255-003 **Collection Date:** 8/17/2022 10:00:00 AM
Client Sample ID: **MW-211** **Matrix:** Groundwater

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.				Batch ID: 37492		Analyst: KJ
Diesel Range Organics	ND	94.1		µg/L	1	8/23/2022 11:49:28 AM
Heavy Oil	ND	94.1		µg/L	1	8/23/2022 11:49:28 AM
Total Petroleum Hydrocarbons	ND	188		µg/L	1	8/23/2022 11:49:28 AM
Surr: 2-Fluorobiphenyl	64.9	50 - 150		%Rec	1	8/23/2022 11:49:28 AM
Surr: o-Terphenyl	72.0	50 - 150		%Rec	1	8/23/2022 11:49:28 AM

CLIENT: Atlas Technical Consultants
Project: P66 Westlake

Lab ID: 2208255-004 **Collection Date:** 8/17/2022 4:40:00 PM
Client Sample ID: **MW-212** **Matrix:** Groundwater

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.				Batch ID: 37492		Analyst: KJ
Diesel Range Organics	174	94.0		µg/L	1	8/23/2022 12:00:29 PM
Heavy Oil	ND	94.0		µg/L	1	8/23/2022 12:00:29 PM
Total Petroleum Hydrocarbons	ND	188		µg/L	1	8/23/2022 12:00:29 PM
Surr: 2-Fluorobiphenyl	73.6	50 - 150		%Rec	1	8/23/2022 12:00:29 PM
Surr: o-Terphenyl	80.4	50 - 150		%Rec	1	8/23/2022 12:00:29 PM

NOTES:
Chromatographic pattern indicates a continuous distribution of material in the diesel and oil ranges.

Lab ID: 2208255-005 **Collection Date:** 8/17/2022 1:35:00 PM
Client Sample ID: **MW-213** **Matrix:** Groundwater

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.				Batch ID: 37492		Analyst: KJ
Diesel Range Organics	173	94.0		µg/L	1	8/23/2022 12:11:26 PM
Heavy Oil	ND	94.0		µg/L	1	8/23/2022 12:11:26 PM
Total Petroleum Hydrocarbons	ND	188		µg/L	1	8/23/2022 12:11:26 PM
Surr: 2-Fluorobiphenyl	86.2	50 - 150		%Rec	1	8/23/2022 12:11:26 PM
Surr: o-Terphenyl	94.3	50 - 150		%Rec	1	8/23/2022 12:11:26 PM

NOTES:
Chromatographic pattern indicates a continuous distribution of material in the diesel and oil ranges.

Lab ID: 2208255-006 **Collection Date:** 8/17/2022 2:25:00 PM
Client Sample ID: **MW-214** **Matrix:** Groundwater

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.				Batch ID: 37492		Analyst: KJ
Diesel Range Organics	ND	94.9		µg/L	1	8/23/2022 12:24:20 PM
Heavy Oil	ND	94.9		µg/L	1	8/23/2022 12:24:20 PM
Total Petroleum Hydrocarbons	ND	190		µg/L	1	8/23/2022 12:24:20 PM
Surr: 2-Fluorobiphenyl	91.1	50 - 150		%Rec	1	8/23/2022 12:24:20 PM
Surr: o-Terphenyl	99.1	50 - 150		%Rec	1	8/23/2022 12:24:20 PM

CLIENT: Atlas Technical Consultants
Project: P66 Westlake

Lab ID: 2208255-007 **Collection Date:** 8/17/2022 3:25:00 PM
Client Sample ID: **MW-215** **Matrix:** Groundwater

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.				Batch ID: 37492		Analyst: KJ
Diesel Range Organics	ND	94.3		µg/L	1	8/23/2022 12:35:29 PM
Heavy Oil	ND	94.3		µg/L	1	8/23/2022 12:35:29 PM
Total Petroleum Hydrocarbons	ND	189		µg/L	1	8/23/2022 12:35:29 PM
Surr: 2-Fluorobiphenyl	82.3	50 - 150		%Rec	1	8/23/2022 12:35:29 PM
Surr: o-Terphenyl	90.6	50 - 150		%Rec	1	8/23/2022 12:35:29 PM

Lab ID: 2208255-008 **Collection Date:** 8/16/2022 11:05:00 AM
Client Sample ID: **MW-216** **Matrix:** Groundwater

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.				Batch ID: 37492		Analyst: KJ
Diesel Range Organics	529	95.2		µg/L	1	8/23/2022 12:46:29 PM
Heavy Oil	ND	95.2		µg/L	1	8/23/2022 12:46:29 PM
Total Petroleum Hydrocarbons	529	190		µg/L	1	8/23/2022 12:46:29 PM
Surr: 2-Fluorobiphenyl	87.7	50 - 150		%Rec	1	8/23/2022 12:46:29 PM
Surr: o-Terphenyl	90.3	50 - 150		%Rec	1	8/23/2022 12:46:29 PM

NOTES:
Chromatographic pattern indicates a continuous distribution of material in the diesel and oil ranges.

Lab ID: 2208255-009 **Collection Date:** 8/16/2022 12:20:00 PM
Client Sample ID: **MW-217** **Matrix:** Groundwater

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.				Batch ID: 37492		Analyst: KJ
Diesel Range Organics	1,060	96.7		µg/L	1	8/23/2022 12:57:32 PM
Heavy Oil	ND	96.7		µg/L	1	8/23/2022 12:57:32 PM
Total Petroleum Hydrocarbons	1,060	193		µg/L	1	8/23/2022 12:57:32 PM
Surr: 2-Fluorobiphenyl	102	50 - 150		%Rec	1	8/23/2022 12:57:32 PM
Surr: o-Terphenyl	102	50 - 150		%Rec	1	8/23/2022 12:57:32 PM

NOTES:
Chromatographic pattern is consistent with kerosene

Analytical Report

Work Order: **2208255**
Date Reported: **8/24/2022**

CLIENT: Atlas Technical Consultants
Project: P66 Westlake

Lab ID: 2208255-010 **Collection Date:** 8/16/2022 1:12:00 PM
Client Sample ID: **MW-218** **Matrix:** Groundwater

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.				Batch ID: 37492		Analyst: KJ
Diesel Range Organics	813	96.3		µg/L	1	8/23/2022 1:08:31 PM
Heavy Oil	ND	96.3		µg/L	1	8/23/2022 1:08:31 PM
Total Petroleum Hydrocarbons	813	193		µg/L	1	8/23/2022 1:08:31 PM
Surr: 2-Fluorobiphenyl	88.4	50 - 150		%Rec	1	8/23/2022 1:08:31 PM
Surr: o-Terphenyl	86.1	50 - 150		%Rec	1	8/23/2022 1:08:31 PM

NOTES:
Chromatographic pattern is consistent with kerosene

Work Order: 2208255
CLIENT: Atlas Technical Consultants
Project: P66 Westlake

QC SUMMARY REPORT

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Sample ID: **LCS-37492** SampType: **LCS** Units: **µg/L** Prep Date: **8/19/2022** RunNo: **77741**
Client ID: **LCSW** Batch ID: **37492** Analysis Date: **8/23/2022** SeqNo: **1597049**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Petroleum Hydrocarbons	805	189	1,184	0	68.0	40	123				
Surr: 2-Fluorobiphenyl	18.1		23.67		76.5	50	150				
Surr: o-Terphenyl	21.4		23.67		90.5	50	150				

Sample ID: **LCSD-37492** SampType: **LCSD** Units: **µg/L** Prep Date: **8/19/2022** RunNo: **77741**
Client ID: **LCSW02** Batch ID: **37492** Analysis Date: **8/23/2022** SeqNo: **1597050**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Petroleum Hydrocarbons	871	192	1,198	0	72.7	40	123	804.5	7.95	30	
Surr: 2-Fluorobiphenyl	16.2		23.96		67.7	50	150		0		
Surr: o-Terphenyl	21.1		23.96		88.2	50	150		0		

Sample ID: **MB-37492** SampType: **MBLK** Units: **µg/L** Prep Date: **8/19/2022** RunNo: **77741**
Client ID: **MBLKW** Batch ID: **37492** Analysis Date: **8/23/2022** SeqNo: **1597059**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	ND	95.1									
Heavy Oil	ND	95.1									
Total Petroleum Hydrocarbons	ND	190									
Surr: 2-Fluorobiphenyl	17.7		23.78		74.4	50	150				
Surr: o-Terphenyl	18.6		23.78		78.3	50	150				

Fremont Analytical

Sample Log-In Check List

Client Name:	ATLAS	Work Order Number:	2208255
Logged by:	Gabrielle Coeuille	Date Received:	8/17/2022 5:39:00 PM

Chain of Custody

1.	Is Chain of Custody complete?	Yes	☑	No	☐	Not Present ☐
2.	How was the sample delivered?	Client				

Log In

3.	Coolers are present?	Yes	☑	No	☐	NA ☐
4.	Shipping container/cooler in good condition?	Yes	☑	No	☐	
5.	Custody Seals present on shipping container/cooler? (Refer to comments for Custody Seals not intact)	Yes	☐	No	☐	Not Present ☑
6.	Was an attempt made to cool the samples?	Yes	☑	No	☐	NA ☐
7.	Were all items received at a temperature of >2°C to 6°C *	Yes	☑	No	☐	NA ☐
8.	Sample(s) in proper container(s)?	Yes	☑	No	☐	
9.	Sufficient sample volume for indicated test(s)?	Yes	☑	No	☐	
10.	Are samples properly preserved?	Yes	☑	No	☐	
11.	Was preservative added to bottles?	Yes	☐	No	☑	NA ☐
12.	Is there headspace in the VOA vials?	Yes	☐	No	☐	NA ☑
13.	Did all samples containers arrive in good condition(unbroken)?	Yes	☑	No	☐	
14.	Does paperwork match bottle labels?	Yes	☑	No	☐	
15.	Are matrices correctly identified on Chain of Custody?	Yes	☑	No	☐	
16.	Is it clear what analyses were requested?	Yes	☑	No	☐	
17.	Were all holding times able to be met?	Yes	☑	No	☐	

Special Handling (if applicable)

18.	Was client notified of all discrepancies with this order?	Yes	☐	No	☐	NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

19. Additional remarks:

Item Information

Item #	Temp ºC
Sample 1	1.8

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

Fremont Analytical
3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Chain of Custody Record & Laboratory Services Agreement

Date: Aug. 17, 2022 Page: 1 of: 1

Laboratory Project No (internal): 2208255

Project Name: Pier Westlake

Special Remarks: if not all samples within temp, its because they're still cooling. ME

Project No: [redacted] Z0760000 82

Client: Atlas Technical Consultants

Address: 6347 Seaview [redacted] NW

City, State, Zip: Seattle, WA

Telephone: [redacted]

Fax:

Collected by: Isabella Ancona

Location: 600 Westlake Ave N

Report To (PM): Brianne Gouiett | Elisabeth Silver

Sample Disposal: ☐ Return to client ☒ Disposal by lab (after 30 days)

PM Email: Brianne.Gouiett@oneatlas.com | elisabeth.silver@oneatlas.com

	Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	VOCs (EPA 8260 / 624)	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8) Total (T) | Dissolved (D)	Anions (IC)***	EDB (8011)	Kerosene				Comments
1	MW-209	8/17/22	1145	GW	1				X							X					
2	MW-210		1050		1				X							X					
3	MW-211		10000		1				X							X					
4	MW-212		1640		1				X							X					
5	MW-213		1335		1				X							X					
6	MW-214		1425		1				X							X					
7	MW-215	↓	1525	↓	1				X							X					
8	MW-216	8/16/22	1105	GW	1				X							X					
9	MW-217	↓	1220	↓	1				X							X					
10	MW-218	↓	1312	↓	1				X							X					

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

**Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL *Individual:* Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Ti Tl V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

Turn-around Time:
☒ Standard ☐ Next Day
☐ 3 Day ☐ Same Day
☐ 2 Day ____ (specify)

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished (Signature)	Print Name	Date/Time	Received (Signature)	Print Name	Date/Time
x Isabella Ancona	Isabella Ancona	8/17/22 1643	x Yeyi Chen	Yeyi	8/17/22 17:39
Relinquished (Signature)	Print Name	Date/Time	Received (Signature)	Print Name	Date/Time
x			x		

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

September 09, 2022

Elisabeth Silver
Atlas
6347 Seaview Ave NW
Seattle, WA 98107

RE: Project: P66 Westlake
Pace Project No.: 10622370

Dear Elisabeth Silver:

Enclosed are the analytical results for sample(s) received by the laboratory on August 22, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jennifer Gross
jennifer.gross@pacelabs.com
(612)607-1700
Project Manager

Enclosures

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: P66 Westlake
Pace Project No.: 10622370

Pace Analytical Services, LLC - Minneapolis MN

1700 Elm Street SE, Minneapolis, MN 55414
A2LA Certification #: 2926.01*
1800 Elm Street SE, Minneapolis, MN 55414--Satellite Air Lab
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009*
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014*
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8 Tribal Water Systems+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605*
Georgia Certification #: 959
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: AI-03086*
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064*
Maryland Certification #: 322
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137*
Minnesota Dept of Ag Approval: via MN 027-053-137
Minnesota Petrofund Registration #: 1240*
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081*
New Jersey Certification #: MN002
New York Certification #: 11647*
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification (A2LA) #: R-036
North Dakota Certification (MN) #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification (1700) #: CL101
Ohio VAP Certification (1800) #: CL110*
Oklahoma Certification #: 9507*
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001*
Pennsylvania Certification #: 68-00563*
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192*
Utah Certification #: MN00064*
Vermont Certification #: VT-027053137
Virginia Certification #: 460163*
Washington Certification #: C486*
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01
USDA Permit #: P330-19-00208
*Please Note: Applicable air certifications are denoted with an asterisk (*).

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1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: P66 Westlake
Pace Project No.: 10622370

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10622370001	**MW-209**	Water	08/17/22 11:45	08/22/22 08:50
10622370002	**MW-210**	Water	08/17/22 10:50	08/22/22 08:50
10622370003	**MW-211**	Water	08/17/22 10:00	08/22/22 08:50
10622370004	**MW-212**	Water	08/17/22 16:40	08/22/22 08:50
10622370005	**MW-213**	Water	08/17/22 13:35	08/22/22 08:50
10622370006	**MW-214**	Water	08/17/22 14:25	08/22/22 08:50
10622370007	**MW-215**	Water	08/17/22 15:25	08/22/22 08:50
10622370008	**MW-216**	Water	08/16/22 11:05	08/22/22 08:50
10622370009	**MW-217**	Water	08/16/22 12:20	08/22/22 08:50
10622370010	**MW-218**	Water	08/16/22 13:12	08/22/22 08:50
10622370011	**Trip Blank**	Water	08/16/22 00:00	08/22/22 08:50

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(612)607-1700

SAMPLE ANALYTE COUNT

Project: P66 Westlake
Pace Project No.: 10622370

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10622370001	**MW-209**	NWTPH-Dx	EB3	4	PASI-M
		NWTPH-Gx	TM2	2	PASI-M
		EPA 200.8	PW1	4	PASI-M
		EPA 200.8	WBS	4	PASI-M
		EPA 8270E by SIM	KJ3	8	PASI-M
		EPA 8260D	NMB	9	PASI-M
10622370002	**MW-210**	NWTPH-Dx	EB3	4	PASI-M
		NWTPH-Gx	TM2	2	PASI-M
		EPA 200.8	PW1	4	PASI-M
		EPA 200.8	WBS	4	PASI-M
		EPA 8270E by SIM	KJ3	8	PASI-M
		EPA 8260D	NMB	9	PASI-M
10622370003	**MW-211**	NWTPH-Dx	EB3	4	PASI-M
		NWTPH-Gx	TM2	2	PASI-M
		EPA 200.8	PW1	4	PASI-M
		EPA 200.8	WBS	4	PASI-M
		EPA 8270E by SIM	KJ3	8	PASI-M
		EPA 8260D	NMB	9	PASI-M
10622370004	**MW-212**	NWTPH-Dx	EB3	4	PASI-M
		NWTPH-Gx	TM2	2	PASI-M
		EPA 200.8	PW1	4	PASI-M
		EPA 200.8	WBS	4	PASI-M
		EPA 8270E by SIM	KJ3	8	PASI-M
		EPA 8260D	NMB	9	PASI-M
10622370005	**MW-213**	NWTPH-Dx	EB3	4	PASI-M
		NWTPH-Gx	TM2	2	PASI-M
		EPA 200.8	PW1	4	PASI-M
		EPA 200.8	WBS	4	PASI-M
		EPA 8270E by SIM	KJ3	8	PASI-M
		EPA 8260D	NMB	9	PASI-M
10622370006	**MW-214**	NWTPH-Dx	EB3	4	PASI-M
		NWTPH-Gx	TM2	2	PASI-M
		EPA 200.8	PW1	4	PASI-M
		EPA 200.8	WBS	4	PASI-M
		EPA 8270E by SIM	KJ3	8	PASI-M
		EPA 8260D	NMB	9	PASI-M
10622370007	**MW-215**	NWTPH-Dx	EB3	4	PASI-M

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SAMPLE ANALYTE COUNT

Project: P66 Westlake
Pace Project No.: 10622370

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		NWTPH-Gx	TM2	2	PASI-M
		EPA 200.8	PW1	4	PASI-M
		EPA 200.8	WBS	4	PASI-M
		EPA 8270E by SIM	KJ3	8	PASI-M
		EPA 8260D	NMB	9	PASI-M
10622370008	**MW-216**	NWTPH-Dx	EB3	4	PASI-M
		NWTPH-Gx	TM2	2	PASI-M
		EPA 200.8	PW1	4	PASI-M
		EPA 200.8	WBS	4	PASI-M
		EPA 8270E by SIM	KJ3	8	PASI-M
		EPA 8260D	PAB	9	PASI-M
10622370009	**MW-217**	NWTPH-Dx	EB3	4	PASI-M
		NWTPH-Gx	TM2	2	PASI-M
		EPA 200.8	PW1	4	PASI-M
		EPA 200.8	WBS	4	PASI-M
		EPA 8270E by SIM	KJ3	8	PASI-M
		EPA 8260D	PAB	9	PASI-M
10622370010	**MW-218**	NWTPH-Dx	EB3	4	PASI-M
		NWTPH-Gx	TM2	2	PASI-M
		EPA 200.8	PW1	4	PASI-M
		EPA 200.8	WBS	4	PASI-M
		EPA 8270E by SIM	KJ3	8	PASI-M
		EPA 8260D	PAB	9	PASI-M
10622370011	**Trip Blank**	EPA 8260D	NMB	7	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: P66 Westlake
Pace Project No.: 10622370

Sample: MW-209 **Lab ID: 10622370001** Collected: 08/17/22 11:45 Received: 08/22/22 08:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS LV	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510C Pace Analytical Services - Minneapolis								
Diesel Fuel Range	**<140**	ug/L	476	140	1	08/23/22 17:58	08/26/22 02:08	68334-30-5	
Motor Oil Range	**<218**	ug/L	476	218	1	08/23/22 17:58	08/26/22 02:08		
Surrogates									
o-Terphenyl (S)	66	%.	50-150		1	08/23/22 17:58	08/26/22 02:08	84-15-1	
n-Triacontane (S)	58	%.	50-150		1	08/23/22 17:58	08/26/22 02:08		
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx Pace Analytical Services - Minneapolis								
TPH as Gas	**24.4J**	ug/L	100	22.6	1		08/26/22 16:13		B
Surrogates									
a,a,a-Trifluorotoluene (S)	100	%.	50-150		1		08/26/22 16:13	98-08-8	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Minneapolis								
Arsenic	**1.4**	ug/L	0.50	0.092	1	08/29/22 06:21	08/31/22 23:11	7440-38-2	
Barium	**113**	ug/L	0.30	0.092	1	08/29/22 06:21	08/31/22 23:11	7440-39-3	
Chromium	**0.92J**	ug/L	2.0	0.36	1	08/29/22 06:21	08/31/22 23:11	7440-47-3	
Lead	**0.063J**	ug/L	0.50	0.056	1	08/29/22 06:21	08/31/22 23:11	7439-92-1	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Minneapolis								
Arsenic, Dissolved	**1.4**	ug/L	0.50	0.092	1	08/31/22 06:25	09/08/22 04:37	7440-38-2	
Barium, Dissolved	**111**	ug/L	0.30	0.092	1	08/31/22 06:25	09/08/22 04:37	7440-39-3	
Chromium, Dissolved	**0.86J**	ug/L	2.0	0.36	1	08/31/22 06:25	09/08/22 20:28	7440-47-3	
Lead, Dissolved	**0.069J**	ug/L	0.50	0.056	1	08/31/22 06:25	09/08/22 20:28	7439-92-1	
8270E MSSV CPAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510C Pace Analytical Services - Minneapolis								
Benzo(a)anthracene	**0.037J**	ug/L	0.041	0.0079	1	08/23/22 17:27	08/25/22 20:29	56-55-3	
Benzo(a)pyrene	**<0.011**	ug/L	0.041	0.011	1	08/23/22 17:27	08/25/22 20:29	50-32-8	
Benzofluoranthenes (Total)	**<0.034**	ug/L	0.12	0.034	1	08/23/22 17:27	08/25/22 20:29		N2
Chrysene	**0.042**	ug/L	0.041	0.0082	1	08/23/22 17:27	08/25/22 20:29	218-01-9	
Dibenz(a,h)anthracene	**<0.016**	ug/L	0.041	0.016	1	08/23/22 17:27	08/25/22 20:29	53-70-3	
Indeno(1,2,3-cd)pyrene	**<0.016**	ug/L	0.041	0.016	1	08/23/22 17:27	08/25/22 20:29	193-39-5	
Surrogates									
2-Fluorobiphenyl (S)	68	%.	52-125		1	08/23/22 17:27	08/25/22 20:29	321-60-8	
p-Terphenyl-d14 (S)	75	%.	51-125		1	08/23/22 17:27	08/25/22 20:29	1718-51-0	
8260D MSV UST	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis								
Benzene	**<0.10**	ug/L	1.0	0.10	1		08/25/22 18:44	71-43-2	
Ethylbenzene	**<0.11**	ug/L	1.0	0.11	1		08/25/22 18:44	100-41-4	
Methyl-tert-butyl ether	**<0.13**	ug/L	1.0	0.13	1		08/25/22 18:44	1634-04-4	
Naphthalene	**<0.18**	ug/L	1.0	0.18	1		08/25/22 18:44	91-20-3	
Toluene	**<0.10**	ug/L	1.0	0.10	1		08/25/22 18:44	108-88-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: P66 Westlake
Pace Project No.: 10622370

Sample: MW-209 **Lab ID: 10622370001** Collected: 08/17/22 11:45 Received: 08/22/22 08:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV UST	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis								
Xylene (Total)	**<0.20**	ug/L	3.0	0.20	1		08/25/22 18:44	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	103	%.	75-125		1		08/25/22 18:44	2199-69-1	
4-Bromofluorobenzene (S)	99	%.	75-125		1		08/25/22 18:44	460-00-4	
Toluene-d8 (S)	102	%.	75-125		1		08/25/22 18:44	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
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ANALYTICAL RESULTS

Project: P66 Westlake
Pace Project No.: 10622370

Sample: MW-210 **Lab ID: 10622370002** Collected: 08/17/22 10:50 Received: 08/22/22 08:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS LV	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510C Pace Analytical Services - Minneapolis								
Diesel Fuel Range	**<134**	ug/L	455	134	1	08/23/22 17:58	08/26/22 02:30	68334-30-5	
Motor Oil Range	**<208**	ug/L	455	208	1	08/23/22 17:58	08/26/22 02:30		
Surrogates									
o-Terphenyl (S)	62	%.	50-150		1	08/23/22 17:58	08/26/22 02:30	84-15-1	
n-Triacontane (S)	59	%.	50-150		1	08/23/22 17:58	08/26/22 02:30		
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx Pace Analytical Services - Minneapolis								
TPH as Gas	**<22.6**	ug/L	100	22.6	1		08/26/22 16:28		
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%.	50-150		1		08/26/22 16:28	98-08-8	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Minneapolis								
Arsenic	**0.76**	ug/L	0.50	0.092	1	08/29/22 06:21	08/31/22 23:30	7440-38-2	
Barium	**93.4**	ug/L	0.30	0.092	1	08/29/22 06:21	08/31/22 23:30	7440-39-3	
Chromium	**1.2J**	ug/L	2.0	0.36	1	08/29/22 06:21	08/31/22 23:30	7440-47-3	
Lead	**<0.056**	ug/L	0.50	0.056	1	08/29/22 06:21	08/31/22 23:30	7439-92-1	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Minneapolis								
Arsenic, Dissolved	**0.60**	ug/L	0.50	0.092	1	08/31/22 06:25	09/08/22 04:50	7440-38-2	
Barium, Dissolved	**85.2**	ug/L	0.30	0.092	1	08/31/22 06:25	09/08/22 04:50	7440-39-3	
Chromium, Dissolved	**1.3J**	ug/L	2.0	0.36	1	08/31/22 06:25	09/08/22 20:48	7440-47-3	
Lead, Dissolved	**<0.056**	ug/L	0.50	0.056	1	08/31/22 06:25	09/08/22 20:48	7439-92-1	
8270E MSSV CPAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510C Pace Analytical Services - Minneapolis								
Benzo(a)anthracene	**<0.0080**	ug/L	0.041	0.0080	1	08/23/22 17:27	08/25/22 20:59	56-55-3	
Benzo(a)pyrene	**<0.011**	ug/L	0.041	0.011	1	08/23/22 17:27	08/25/22 20:59	50-32-8	
Benzofluoranthenes (Total)	**<0.035**	ug/L	0.12	0.035	1	08/23/22 17:27	08/25/22 20:59		N2
Chrysene	**<0.0083**	ug/L	0.041	0.0083	1	08/23/22 17:27	08/25/22 20:59	218-01-9	
Dibenz(a,h)anthracene	**<0.016**	ug/L	0.041	0.016	1	08/23/22 17:27	08/25/22 20:59	53-70-3	
Indeno(1,2,3-cd)pyrene	**<0.016**	ug/L	0.041	0.016	1	08/23/22 17:27	08/25/22 20:59	193-39-5	
Surrogates									
2-Fluorobiphenyl (S)	65	%.	52-125		1	08/23/22 17:27	08/25/22 20:59	321-60-8	
p-Terphenyl-d14 (S)	75	%.	51-125		1	08/23/22 17:27	08/25/22 20:59	1718-51-0	
8260D MSV UST	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis								
Benzene	**<0.10**	ug/L	1.0	0.10	1		08/25/22 18:59	71-43-2	
Ethylbenzene	**<0.11**	ug/L	1.0	0.11	1		08/25/22 18:59	100-41-4	
Methyl-tert-butyl ether	**<0.13**	ug/L	1.0	0.13	1		08/25/22 18:59	1634-04-4	
Naphthalene	**<0.18**	ug/L	1.0	0.18	1		08/25/22 18:59	91-20-3	
Toluene	**<0.10**	ug/L	1.0	0.10	1		08/25/22 18:59	108-88-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: P66 Westlake
Pace Project No.: 10622370

Sample: MW-210 **Lab ID: 10622370002** Collected: 08/17/22 10:50 Received: 08/22/22 08:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV UST	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis								
Xylene (Total)	**<0.20**	ug/L	3.0	0.20	1		08/25/22 18:59	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	100	%.	75-125		1		08/25/22 18:59	2199-69-1	
4-Bromofluorobenzene (S)	99	%.	75-125		1		08/25/22 18:59	460-00-4	
Toluene-d8 (S)	102	%.	75-125		1		08/25/22 18:59	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: P66 Westlake
Pace Project No.: 10622370

Sample: MW-211 **Lab ID: 10622370003** Collected: 08/17/22 10:00 Received: 08/22/22 08:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS LV	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510C Pace Analytical Services - Minneapolis								
Diesel Fuel Range	**<148**	ug/L	500	148	1	08/23/22 17:58	08/26/22 02:41	68334-30-5	
Motor Oil Range	**<229**	ug/L	500	229	1	08/23/22 17:58	08/26/22 02:41		
Surrogates									
o-Terphenyl (S)	71	%.	50-150		1	08/23/22 17:58	08/26/22 02:41	84-15-1	
n-Triacontane (S)	65	%.	50-150		1	08/23/22 17:58	08/26/22 02:41		
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx Pace Analytical Services - Minneapolis								
TPH as Gas	**23.5J**	ug/L	100	22.6	1		08/26/22 16:43		B
Surrogates									
a,a,a-Trifluorotoluene (S)	100	%.	50-150		1		08/26/22 16:43	98-08-8	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Minneapolis								
Arsenic	**0.27J**	ug/L	0.50	0.092	1	08/29/22 06:21	08/31/22 23:33	7440-38-2	
Barium	**68.1**	ug/L	0.30	0.092	1	08/29/22 06:21	08/31/22 23:33	7440-39-3	
Chromium	**1.1J**	ug/L	2.0	0.36	1	08/29/22 06:21	08/31/22 23:33	7440-47-3	
Lead	**<0.056**	ug/L	0.50	0.056	1	08/29/22 06:21	08/31/22 23:33	7439-92-1	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Minneapolis								
Arsenic, Dissolved	**0.21J**	ug/L	0.50	0.092	1	08/31/22 06:25	09/08/22 04:54	7440-38-2	
Barium, Dissolved	**65.5**	ug/L	0.30	0.092	1	08/31/22 06:25	09/08/22 04:54	7440-39-3	
Chromium, Dissolved	**0.97J**	ug/L	2.0	0.36	1	08/31/22 06:25	09/08/22 21:01	7440-47-3	
Lead, Dissolved	**<0.056**	ug/L	0.50	0.056	1	08/31/22 06:25	09/08/22 21:01	7439-92-1	
8270E MSSV CPAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510C Pace Analytical Services - Minneapolis								
Benzo(a)anthracene	**<0.0079**	ug/L	0.041	0.0079	1	08/23/22 17:27	08/25/22 21:30	56-55-3	
Benzo(a)pyrene	**<0.011**	ug/L	0.041	0.011	1	08/23/22 17:27	08/25/22 21:30	50-32-8	
Benzofluoranthenes (Total)	**<0.034**	ug/L	0.12	0.034	1	08/23/22 17:27	08/25/22 21:30		N2
Chrysene	**<0.0082**	ug/L	0.041	0.0082	1	08/23/22 17:27	08/25/22 21:30	218-01-9	
Dibenz(a,h)anthracene	**<0.016**	ug/L	0.041	0.016	1	08/23/22 17:27	08/25/22 21:30	53-70-3	
Indeno(1,2,3-cd)pyrene	**<0.016**	ug/L	0.041	0.016	1	08/23/22 17:27	08/25/22 21:30	193-39-5	
Surrogates									
2-Fluorobiphenyl (S)	67	%.	52-125		1	08/23/22 17:27	08/25/22 21:30	321-60-8	
p-Terphenyl-d14 (S)	74	%.	51-125		1	08/23/22 17:27	08/25/22 21:30	1718-51-0	
8260D MSV UST	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis								
Benzene	**<0.10**	ug/L	1.0	0.10	1		08/25/22 19:15	71-43-2	
Ethylbenzene	**<0.11**	ug/L	1.0	0.11	1		08/25/22 19:15	100-41-4	
Methyl-tert-butyl ether	**<0.13**	ug/L	1.0	0.13	1		08/25/22 19:15	1634-04-4	
Naphthalene	**<0.18**	ug/L	1.0	0.18	1		08/25/22 19:15	91-20-3	
Toluene	**<0.10**	ug/L	1.0	0.10	1		08/25/22 19:15	108-88-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: P66 Westlake
Pace Project No.: 10622370

Sample: MW-211 **Lab ID: 10622370003** Collected: 08/17/22 10:00 Received: 08/22/22 08:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV UST	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis								
Xylene (Total)	**<0.20**	ug/L	3.0	0.20	1		08/25/22 19:15	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	100	%.	75-125		1		08/25/22 19:15	2199-69-1	
4-Bromofluorobenzene (S)	100	%.	75-125		1		08/25/22 19:15	460-00-4	
Toluene-d8 (S)	102	%.	75-125		1		08/25/22 19:15	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: P66 Westlake
Pace Project No.: 10622370

Sample: MW-212 **Lab ID: 10622370004** Collected: 08/17/22 16:40 Received: 08/22/22 08:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS LV	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510C Pace Analytical Services - Minneapolis								
Diesel Fuel Range	**<148**	ug/L	500	148	1	08/23/22 17:58	08/26/22 02:53	68334-30-5	
Motor Oil Range	**<229**	ug/L	500	229	1	08/23/22 17:58	08/26/22 02:53		
Surrogates									
o-Terphenyl (S)	65	%.	50-150		1	08/23/22 17:58	08/26/22 02:53	84-15-1	
n-Triacontane (S)	58	%.	50-150		1	08/23/22 17:58	08/26/22 02:53		
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx Pace Analytical Services - Minneapolis								
TPH as Gas	**45.4J**	ug/L	100	22.6	1		08/26/22 16:58		B
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%.	50-150		1		08/26/22 16:58	98-08-8	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Minneapolis								
Arsenic	**0.86**	ug/L	0.50	0.092	1	08/29/22 06:21	08/31/22 23:37	7440-38-2	
Barium	**165**	ug/L	0.30	0.092	1	08/29/22 06:21	08/31/22 23:37	7440-39-3	
Chromium	**1.1J**	ug/L	2.0	0.36	1	08/29/22 06:21	08/31/22 23:37	7440-47-3	
Lead	**<0.056**	ug/L	0.50	0.056	1	08/29/22 06:21	08/31/22 23:37	7439-92-1	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Minneapolis								
Arsenic, Dissolved	**0.65**	ug/L	0.50	0.092	1	08/31/22 06:25	09/08/22 04:57	7440-38-2	
Barium, Dissolved	**163**	ug/L	0.30	0.092	1	08/31/22 06:25	09/08/22 04:57	7440-39-3	
Chromium, Dissolved	**1.1J**	ug/L	2.0	0.36	1	08/31/22 06:25	09/08/22 21:08	7440-47-3	
Lead, Dissolved	**<0.056**	ug/L	0.50	0.056	1	08/31/22 06:25	09/08/22 21:08	7439-92-1	
8270E MSSV CPAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510C Pace Analytical Services - Minneapolis								
Benzo(a)anthracene	**<0.0079**	ug/L	0.041	0.0079	1	08/23/22 17:27	08/29/22 13:56	56-55-3	
Benzo(a)pyrene	**<0.011**	ug/L	0.041	0.011	1	08/23/22 17:27	08/29/22 13:56	50-32-8	
Benzofluoranthenes (Total)	**<0.034**	ug/L	0.12	0.034	1	08/23/22 17:27	08/29/22 13:56		N2
Chrysene	**<0.0082**	ug/L	0.041	0.0082	1	08/23/22 17:27	08/29/22 13:56	218-01-9	
Dibenz(a,h)anthracene	**<0.016**	ug/L	0.041	0.016	1	08/23/22 17:27	08/29/22 13:56	53-70-3	
Indeno(1,2,3-cd)pyrene	**<0.016**	ug/L	0.041	0.016	1	08/23/22 17:27	08/29/22 13:56	193-39-5	
Surrogates									
2-Fluorobiphenyl (S)	63	%.	52-125		1	08/23/22 17:27	08/29/22 13:56	321-60-8	
p-Terphenyl-d14 (S)	82	%.	51-125		1	08/23/22 17:27	08/29/22 13:56	1718-51-0	
8260D MSV UST	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis								
Benzene	**<0.10**	ug/L	1.0	0.10	1		08/25/22 19:31	71-43-2	
Ethylbenzene	**<0.11**	ug/L	1.0	0.11	1		08/25/22 19:31	100-41-4	
Methyl-tert-butyl ether	**0.25J**	ug/L	1.0	0.13	1		08/25/22 19:31	1634-04-4	
Naphthalene	**<0.18**	ug/L	1.0	0.18	1		08/25/22 19:31	91-20-3	
Toluene	**<0.10**	ug/L	1.0	0.10	1		08/25/22 19:31	108-88-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: P66 Westlake
Pace Project No.: 10622370

Sample: MW-212 **Lab ID: 10622370004** Collected: 08/17/22 16:40 Received: 08/22/22 08:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV UST	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis								
Xylene (Total)	**<0.20**	ug/L	3.0	0.20	1		08/25/22 19:31	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	102	%.	75-125		1		08/25/22 19:31	2199-69-1	
4-Bromofluorobenzene (S)	101	%.	75-125		1		08/25/22 19:31	460-00-4	
Toluene-d8 (S)	101	%.	75-125		1		08/25/22 19:31	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: P66 Westlake
Pace Project No.: 10622370

Sample: MW-213 **Lab ID: 10622370005** Collected: 08/17/22 13:35 Received: 08/22/22 08:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS LV	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510C Pace Analytical Services - Minneapolis								
Diesel Fuel Range	**<140**	ug/L	476	140	1	08/23/22 17:58	08/26/22 03:04	68334-30-5	
Motor Oil Range	**<218**	ug/L	476	218	1	08/23/22 17:58	08/26/22 03:04		
Surrogates									
o-Terphenyl (S)	71	%.	50-150		1	08/23/22 17:58	08/26/22 03:04	84-15-1	
n-Triacontane (S)	70	%.	50-150		1	08/23/22 17:58	08/26/22 03:04		
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx Pace Analytical Services - Minneapolis								
TPH as Gas	**46.9J**	ug/L	100	22.6	1		08/26/22 17:13		B
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%.	50-150		1		08/26/22 17:13	98-08-8	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Minneapolis								
Arsenic	**12.5**	ug/L	0.50	0.092	1	08/29/22 06:21	08/31/22 23:40	7440-38-2	
Barium	**72.1**	ug/L	0.30	0.092	1	08/29/22 06:21	08/31/22 23:40	7440-39-3	
Chromium	**1.9J**	ug/L	2.0	0.36	1	08/29/22 06:21	08/31/22 23:40	7440-47-3	
Lead	**0.39J**	ug/L	0.50	0.056	1	08/29/22 06:21	08/31/22 23:40	7439-92-1	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Minneapolis								
Arsenic, Dissolved	**12.6**	ug/L	0.50	0.092	1	08/31/22 06:25	09/08/22 05:00	7440-38-2	
Barium, Dissolved	**59.7**	ug/L	0.30	0.092	1	08/31/22 06:25	09/08/22 05:00	7440-39-3	
Chromium, Dissolved	**1.6J**	ug/L	2.0	0.36	1	08/31/22 06:25	09/08/22 21:15	7440-47-3	
Lead, Dissolved	**0.20J**	ug/L	0.50	0.056	1	08/31/22 06:25	09/08/22 21:15	7439-92-1	
8270E MSSV CPAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510C Pace Analytical Services - Minneapolis								
Benzo(a)anthracene	**<0.0079**	ug/L	0.041	0.0079	1	08/23/22 17:27	08/29/22 14:26	56-55-3	
Benzo(a)pyrene	**<0.011**	ug/L	0.041	0.011	1	08/23/22 17:27	08/29/22 14:26	50-32-8	
Benzofluoranthenes (Total)	**<0.034**	ug/L	0.12	0.034	1	08/23/22 17:27	08/29/22 14:26		N2
Chrysene	**<0.0082**	ug/L	0.041	0.0082	1	08/23/22 17:27	08/29/22 14:26	218-01-9	
Dibenz(a,h)anthracene	**<0.016**	ug/L	0.041	0.016	1	08/23/22 17:27	08/29/22 14:26	53-70-3	
Indeno(1,2,3-cd)pyrene	**<0.016**	ug/L	0.041	0.016	1	08/23/22 17:27	08/29/22 14:26	193-39-5	
Surrogates									
2-Fluorobiphenyl (S)	65	%.	52-125		1	08/23/22 17:27	08/29/22 14:26	321-60-8	
p-Terphenyl-d14 (S)	82	%.	51-125		1	08/23/22 17:27	08/29/22 14:26	1718-51-0	
8260D MSV UST	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis								
Benzene	**<0.10**	ug/L	1.0	0.10	1		08/25/22 19:46	71-43-2	
Ethylbenzene	**<0.11**	ug/L	1.0	0.11	1		08/25/22 19:46	100-41-4	
Methyl-tert-butyl ether	**<0.13**	ug/L	1.0	0.13	1		08/25/22 19:46	1634-04-4	
Naphthalene	**<0.18**	ug/L	1.0	0.18	1		08/25/22 19:46	91-20-3	
Toluene	**<0.10**	ug/L	1.0	0.10	1		08/25/22 19:46	108-88-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: P66 Westlake
Pace Project No.: 10622370

Sample: MW-213 **Lab ID: 10622370005** Collected: 08/17/22 13:35 Received: 08/22/22 08:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV UST	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis								
Xylene (Total)	**<0.20**	ug/L	3.0	0.20	1		08/25/22 19:46	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	101	%.	75-125		1		08/25/22 19:46	2199-69-1	
4-Bromofluorobenzene (S)	101	%.	75-125		1		08/25/22 19:46	460-00-4	
Toluene-d8 (S)	100	%.	75-125		1		08/25/22 19:46	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Minneapolis, MN 55414
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ANALYTICAL RESULTS

Project: P66 Westlake
Pace Project No.: 10622370

Sample: MW-214 **Lab ID: 10622370006** Collected: 08/17/22 14:25 Received: 08/22/22 08:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS LV	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510C Pace Analytical Services - Minneapolis								
Diesel Fuel Range	**<128**	ug/L	435	128	1	08/23/22 17:58	08/26/22 03:15	68334-30-5	C6
Motor Oil Range	**<199**	ug/L	435	199	1	08/23/22 17:58	08/26/22 03:15		
Surrogates									
o-Terphenyl (S)	57	%.	50-150		1	08/23/22 17:58	08/26/22 03:15	84-15-1	
n-Triacontane (S)	38	%.	50-150		1	08/23/22 17:58	08/26/22 03:15		1M
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx Pace Analytical Services - Minneapolis								
TPH as Gas	**<22.6**	ug/L	100	22.6	1		08/26/22 18:13		
Surrogates									
a,a,a-Trifluorotoluene (S)	98	%.	50-150		1		08/26/22 18:13	98-08-8	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Minneapolis								
Arsenic	**8.5**	ug/L	0.50	0.092	1	08/29/22 06:21	08/31/22 23:43	7440-38-2	
Barium	**48.0**	ug/L	0.30	0.092	1	08/29/22 06:21	08/31/22 23:43	7440-39-3	
Chromium	**0.91J**	ug/L	2.0	0.36	1	08/29/22 06:21	08/31/22 23:43	7440-47-3	
Lead	**<0.056**	ug/L	0.50	0.056	1	08/29/22 06:21	08/31/22 23:43	7439-92-1	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Minneapolis								
Arsenic, Dissolved	**8.4**	ug/L	0.50	0.092	1	08/31/22 06:25	09/08/22 05:11	7440-38-2	
Barium, Dissolved	**51.1**	ug/L	0.30	0.092	1	08/31/22 06:25	09/08/22 05:11	7440-39-3	
Chromium, Dissolved	**0.97J**	ug/L	2.0	0.36	1	08/31/22 06:25	09/08/22 21:22	7440-47-3	
Lead, Dissolved	**<0.056**	ug/L	0.50	0.056	1	08/31/22 06:25	09/08/22 21:22	7439-92-1	
8270E MSSV CPAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510C Pace Analytical Services - Minneapolis								
Benzo(a)anthracene	**<0.0078**	ug/L	0.040	0.0078	1	08/23/22 17:27	08/29/22 15:28	56-55-3	
Benzo(a)pyrene	**<0.011**	ug/L	0.040	0.011	1	08/23/22 17:27	08/29/22 15:28	50-32-8	
Benzofluoranthenes (Total)	**<0.034**	ug/L	0.12	0.034	1	08/23/22 17:27	08/29/22 15:28		N2
Chrysene	**<0.0080**	ug/L	0.040	0.0080	1	08/23/22 17:27	08/29/22 15:28	218-01-9	
Dibenz(a,h)anthracene	**<0.016**	ug/L	0.040	0.016	1	08/23/22 17:27	08/29/22 15:28	53-70-3	
Indeno(1,2,3-cd)pyrene	**<0.016**	ug/L	0.040	0.016	1	08/23/22 17:27	08/29/22 15:28	193-39-5	
Surrogates									
2-Fluorobiphenyl (S)	52	%.	52-125		1	08/23/22 17:27	08/29/22 15:28	321-60-8	
p-Terphenyl-d14 (S)	76	%.	51-125		1	08/23/22 17:27	08/29/22 15:28	1718-51-0	
8260D MSV UST	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis								
Benzene	**<0.10**	ug/L	1.0	0.10	1		08/25/22 20:02	71-43-2	
Ethylbenzene	**<0.11**	ug/L	1.0	0.11	1		08/25/22 20:02	100-41-4	
Methyl-tert-butyl ether	**<0.13**	ug/L	1.0	0.13	1		08/25/22 20:02	1634-04-4	
Naphthalene	**<0.18**	ug/L	1.0	0.18	1		08/25/22 20:02	91-20-3	
Toluene	**<0.10**	ug/L	1.0	0.10	1		08/25/22 20:02	108-88-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: P66 Westlake
Pace Project No.: 10622370

Sample: MW-214 **Lab ID: 10622370006** Collected: 08/17/22 14:25 Received: 08/22/22 08:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV UST	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis								
Xylene (Total)	**<0.20**	ug/L	3.0	0.20	1		08/25/22 20:02	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	99	%.	75-125		1		08/25/22 20:02	2199-69-1	
4-Bromofluorobenzene (S)	99	%.	75-125		1		08/25/22 20:02	460-00-4	
Toluene-d8 (S)	103	%.	75-125		1		08/25/22 20:02	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: P66 Westlake
Pace Project No.: 10622370

Sample: MW-215 **Lab ID: 10622370007** Collected: 08/17/22 15:25 Received: 08/22/22 08:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS LV	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510C Pace Analytical Services - Minneapolis								
Diesel Fuel Range	**<134**	ug/L	455	134	1	08/23/22 17:58	08/26/22 03:27	68334-30-5	
Motor Oil Range	**<208**	ug/L	455	208	1	08/23/22 17:58	08/26/22 03:27		
Surrogates									
o-Terphenyl (S)	63	%.	50-150		1	08/23/22 17:58	08/26/22 03:27	84-15-1	
n-Triacontane (S)	51	%.	50-150		1	08/23/22 17:58	08/26/22 03:27		
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx Pace Analytical Services - Minneapolis								
TPH as Gas	**31.6J**	ug/L	100	22.6	1		08/25/22 21:55		B
Surrogates									
a,a,a-Trifluorotoluene (S)	97	%.	50-150		1		08/25/22 21:55	98-08-8	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Minneapolis								
Arsenic	**3.4**	ug/L	0.50	0.092	1	08/29/22 06:21	08/31/22 23:46	7440-38-2	
Barium	**68.8**	ug/L	0.30	0.092	1	08/29/22 06:21	08/31/22 23:46	7440-39-3	
Chromium	**2.3**	ug/L	2.0	0.36	1	08/29/22 06:21	08/31/22 23:46	7440-47-3	
Lead	**1.3**	ug/L	0.50	0.056	1	08/29/22 06:21	08/31/22 23:46	7439-92-1	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Minneapolis								
Arsenic, Dissolved	**2.6**	ug/L	0.50	0.092	1	08/31/22 06:25	09/08/22 05:14	7440-38-2	
Barium, Dissolved	**57.5**	ug/L	0.30	0.092	1	08/31/22 06:25	09/08/22 05:14	7440-39-3	
Chromium, Dissolved	**1.4J**	ug/L	2.0	0.36	1	08/31/22 06:25	09/08/22 21:35	7440-47-3	
Lead, Dissolved	**0.090J**	ug/L	0.50	0.056	1	08/31/22 06:25	09/08/22 21:35	7439-92-1	
8270E MSSV CPAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510C Pace Analytical Services - Minneapolis								
Benzo(a)anthracene	**<0.0081**	ug/L	0.042	0.0081	1	08/23/22 17:27	08/29/22 15:59	56-55-3	
Benzo(a)pyrene	**<0.011**	ug/L	0.042	0.011	1	08/23/22 17:27	08/29/22 15:59	50-32-8	
Benzofluoranthenes (Total)	**<0.035**	ug/L	0.13	0.035	1	08/23/22 17:27	08/29/22 15:59		N2
Chrysene	**<0.0084**	ug/L	0.042	0.0084	1	08/23/22 17:27	08/29/22 15:59	218-01-9	
Dibenz(a,h)anthracene	**<0.016**	ug/L	0.042	0.016	1	08/23/22 17:27	08/29/22 15:59	53-70-3	
Indeno(1,2,3-cd)pyrene	**<0.017**	ug/L	0.042	0.017	1	08/23/22 17:27	08/29/22 15:59	193-39-5	
Surrogates									
2-Fluorobiphenyl (S)	62	%.	52-125		1	08/23/22 17:27	08/29/22 15:59	321-60-8	
p-Terphenyl-d14 (S)	78	%.	51-125		1	08/23/22 17:27	08/29/22 15:59	1718-51-0	
8260D MSV UST	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis								
Benzene	**<0.10**	ug/L	1.0	0.10	1		08/25/22 20:17	71-43-2	
Ethylbenzene	**<0.11**	ug/L	1.0	0.11	1		08/25/22 20:17	100-41-4	
Methyl-tert-butyl ether	**<0.13**	ug/L	1.0	0.13	1		08/25/22 20:17	1634-04-4	
Naphthalene	**<0.18**	ug/L	1.0	0.18	1		08/25/22 20:17	91-20-3	
Toluene	**<0.10**	ug/L	1.0	0.10	1		08/25/22 20:17	108-88-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: P66 Westlake
Pace Project No.: 10622370

Sample: MW-215 **Lab ID: 10622370007** Collected: 08/17/22 15:25 Received: 08/22/22 08:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV UST	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis								
Xylene (Total)	**<0.20**	ug/L	3.0	0.20	1		08/25/22 20:17	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	100	%.	75-125		1		08/25/22 20:17	2199-69-1	
4-Bromofluorobenzene (S)	100	%.	75-125		1		08/25/22 20:17	460-00-4	
Toluene-d8 (S)	102	%.	75-125		1		08/25/22 20:17	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: P66 Westlake
Pace Project No.: 10622370

Sample: MW-216 **Lab ID: 10622370008** Collected: 08/16/22 11:05 Received: 08/22/22 08:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS LV	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510C Pace Analytical Services - Minneapolis								
Diesel Fuel Range	**<148**	ug/L	500	148	1	08/23/22 17:58	08/26/22 03:38	68334-30-5	
Motor Oil Range	**<229**	ug/L	500	229	1	08/23/22 17:58	08/26/22 03:38		
Surrogates									
o-Terphenyl (S)	50	%.	50-150		1	08/23/22 17:58	08/26/22 03:38	84-15-1	
n-Triacontane (S)	47	%.	50-150		1	08/23/22 17:58	08/26/22 03:38		2M
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx Pace Analytical Services - Minneapolis								
TPH as Gas	**33.2J**	ug/L	100	22.6	1		08/26/22 15:13		B
Surrogates									
a,a,a-Trifluorotoluene (S)	100	%.	50-150		1		08/26/22 15:13	98-08-8	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Minneapolis								
Arsenic	**21.0**	ug/L	0.50	0.092	1	08/29/22 06:21	08/31/22 23:49	7440-38-2	
Barium	**97.3**	ug/L	0.30	0.092	1	08/29/22 06:21	08/31/22 23:49	7440-39-3	
Chromium	**4.0**	ug/L	2.0	0.36	1	08/29/22 06:21	08/31/22 23:49	7440-47-3	
Lead	**0.28J**	ug/L	0.50	0.056	1	08/29/22 06:21	08/31/22 23:49	7439-92-1	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Minneapolis								
Arsenic, Dissolved	**19.0**	ug/L	0.50	0.092	1	08/31/22 06:25	09/08/22 05:17	7440-38-2	
Barium, Dissolved	**89.1**	ug/L	0.30	0.092	1	08/31/22 06:25	09/08/22 05:17	7440-39-3	
Chromium, Dissolved	**3.6**	ug/L	2.0	0.36	1	08/31/22 06:25	09/08/22 21:42	7440-47-3	
Lead, Dissolved	**0.080J**	ug/L	0.50	0.056	1	08/31/22 06:25	09/08/22 21:42	7439-92-1	
8270E MSSV CPAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510C Pace Analytical Services - Minneapolis								
Benzo(a)anthracene	**<0.0079**	ug/L	0.040	0.0079	1	08/23/22 17:27	08/29/22 16:30	56-55-3	
Benzo(a)pyrene	**<0.011**	ug/L	0.040	0.011	1	08/23/22 17:27	08/29/22 16:30	50-32-8	
Benzofluoranthenes (Total)	**<0.034**	ug/L	0.12	0.034	1	08/23/22 17:27	08/29/22 16:30		N2
Chrysene	**<0.0081**	ug/L	0.040	0.0081	1	08/23/22 17:27	08/29/22 16:30	218-01-9	
Dibenz(a,h)anthracene	**<0.016**	ug/L	0.040	0.016	1	08/23/22 17:27	08/29/22 16:30	53-70-3	
Indeno(1,2,3-cd)pyrene	**<0.016**	ug/L	0.040	0.016	1	08/23/22 17:27	08/29/22 16:30	193-39-5	
Surrogates									
2-Fluorobiphenyl (S)	63	%.	52-125		1	08/23/22 17:27	08/29/22 16:30	321-60-8	
p-Terphenyl-d14 (S)	72	%.	51-125		1	08/23/22 17:27	08/29/22 16:30	1718-51-0	
8260D MSV UST	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis								
Benzene	**<0.10**	ug/L	1.0	0.10	1		08/24/22 21:36	71-43-2	
Ethylbenzene	**<0.11**	ug/L	1.0	0.11	1		08/24/22 21:36	100-41-4	
Methyl-tert-butyl ether	**<0.13**	ug/L	1.0	0.13	1		08/24/22 21:36	1634-04-4	
Naphthalene	**<0.18**	ug/L	1.0	0.18	1		08/24/22 21:36	91-20-3	
Toluene	**<0.10**	ug/L	1.0	0.10	1		08/24/22 21:36	108-88-3	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
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ANALYTICAL RESULTS

Project: P66 Westlake
Pace Project No.: 10622370

Sample: MW-216 **Lab ID: 10622370008** Collected: 08/16/22 11:05 Received: 08/22/22 08:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV UST	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis								
Xylene (Total)	**<0.20**	ug/L	3.0	0.20	1		08/24/22 21:36	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	102	%.	75-125		1		08/24/22 21:36	2199-69-1	
4-Bromofluorobenzene (S)	101	%.	75-125		1		08/24/22 21:36	460-00-4	
Toluene-d8 (S)	103	%.	75-125		1		08/24/22 21:36	2037-26-5	

Pace Analytical Services, LLC
1700 Elm Street
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ANALYTICAL RESULTS

Project: P66 Westlake
Pace Project No.: 10622370

Sample: MW-217 **Lab ID: 10622370009** Collected: 08/16/22 12:20 Received: 08/22/22 08:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS LV	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510C Pace Analytical Services - Minneapolis								
Diesel Fuel Range	**475**	ug/L	455	134	1	08/23/22 17:58	08/26/22 03:49	68334-30-5	
Motor Oil Range	**<208**	ug/L	455	208	1	08/23/22 17:58	08/26/22 03:49		
Surrogates									
o-Terphenyl (S)	66	%.	50-150		1	08/23/22 17:58	08/26/22 03:49	84-15-1	
n-Triacontane (S)	52	%.	50-150		1	08/23/22 17:58	08/26/22 03:49		
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx Pace Analytical Services - Minneapolis								
TPH as Gas	**127**	ug/L	100	22.6	1		08/26/22 15:28		B
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%.	50-150		1		08/26/22 15:28	98-08-8	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Minneapolis								
Arsenic	**1.2**	ug/L	0.50	0.092	1	08/29/22 06:21	08/31/22 23:59	7440-38-2	
Barium	**147**	ug/L	0.30	0.092	1	08/29/22 06:21	08/31/22 23:59	7440-39-3	
Chromium	**1.3J**	ug/L	2.0	0.36	1	08/29/22 06:21	08/31/22 23:59	7440-47-3	
Lead	**0.24J**	ug/L	0.50	0.056	1	08/29/22 06:21	08/31/22 23:59	7439-92-1	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Minneapolis								
Arsenic, Dissolved	**1.1**	ug/L	0.50	0.092	1	08/31/22 06:25	09/08/22 05:21	7440-38-2	
Barium, Dissolved	**130**	ug/L	0.30	0.092	1	08/31/22 06:25	09/08/22 05:21	7440-39-3	
Chromium, Dissolved	**1.1J**	ug/L	2.0	0.36	1	08/31/22 06:25	09/08/22 21:49	7440-47-3	
Lead, Dissolved	**<0.056**	ug/L	0.50	0.056	1	08/31/22 06:25	09/08/22 21:49	7439-92-1	
8270E MSSV CPAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510C Pace Analytical Services - Minneapolis								
Benzo(a)anthracene	**<0.0083**	ug/L	0.043	0.0083	1	08/23/22 17:27	08/29/22 17:01	56-55-3	
Benzo(a)pyrene	**<0.011**	ug/L	0.043	0.011	1	08/23/22 17:27	08/29/22 17:01	50-32-8	
Benzofluoranthenes (Total)	**<0.036**	ug/L	0.13	0.036	1	08/23/22 17:27	08/29/22 17:01		N2
Chrysene	**<0.0085**	ug/L	0.043	0.0085	1	08/23/22 17:27	08/29/22 17:01	218-01-9	
Dibenz(a,h)anthracene	**<0.017**	ug/L	0.043	0.017	1	08/23/22 17:27	08/29/22 17:01	53-70-3	
Indeno(1,2,3-cd)pyrene	**<0.017**	ug/L	0.043	0.017	1	08/23/22 17:27	08/29/22 17:01	193-39-5	
Surrogates									
2-Fluorobiphenyl (S)	69	%.	52-125		1	08/23/22 17:27	08/29/22 17:01	321-60-8	
p-Terphenyl-d14 (S)	78	%.	51-125		1	08/23/22 17:27	08/29/22 17:01	1718-51-0	
8260D MSV UST	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis								
Benzene	**<0.10**	ug/L	1.0	0.10	1		08/24/22 21:52	71-43-2	
Ethylbenzene	**<0.11**	ug/L	1.0	0.11	1		08/24/22 21:52	100-41-4	
Methyl-tert-butyl ether	**<0.13**	ug/L	1.0	0.13	1		08/24/22 21:52	1634-04-4	
Naphthalene	**<0.18**	ug/L	1.0	0.18	1		08/24/22 21:52	91-20-3	
Toluene	**0.28J**	ug/L	1.0	0.10	1		08/24/22 21:52	108-88-3	B

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: P66 Westlake
Pace Project No.: 10622370

Sample: MW-217 **Lab ID: 10622370009** Collected: 08/16/22 12:20 Received: 08/22/22 08:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV UST	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis								
Xylene (Total)	**<0.20**	ug/L	3.0	0.20	1		08/24/22 21:52	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	104	%.	75-125		1		08/24/22 21:52	2199-69-1	
4-Bromofluorobenzene (S)	100	%.	75-125		1		08/24/22 21:52	460-00-4	
Toluene-d8 (S)	104	%.	75-125		1		08/24/22 21:52	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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Minneapolis, MN 55414
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ANALYTICAL RESULTS

Project: P66 Westlake
Pace Project No.: 10622370

Sample: MW-218 **Lab ID: 10622370010** Collected: 08/16/22 13:12 Received: 08/22/22 08:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Dx GCS LV	Analytical Method: NWTPH-Dx Preparation Method: EPA 3510C Pace Analytical Services - Minneapolis								
Diesel Fuel Range	**326J**	ug/L	400	118	1	08/23/22 17:58	08/26/22 04:01	68334-30-5	
Motor Oil Range	**<183**	ug/L	400	183	1	08/23/22 17:58	08/26/22 04:01		
Surrogates									
o-Terphenyl (S)	63	%.	50-150		1	08/23/22 17:58	08/26/22 04:01	84-15-1	
n-Triacontane (S)	57	%.	50-150		1	08/23/22 17:58	08/26/22 04:01		
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx Pace Analytical Services - Minneapolis								
TPH as Gas	**91.0J**	ug/L	100	22.6	1		08/26/22 15:58		B
Surrogates									
a,a,a-Trifluorotoluene (S)	103	%.	50-150		1		08/26/22 15:58	98-08-8	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Minneapolis								
Arsenic	**0.43J**	ug/L	0.50	0.092	1	08/29/22 06:21	09/01/22 00:02	7440-38-2	
Barium	**145**	ug/L	0.30	0.092	1	08/29/22 06:21	09/01/22 00:02	7440-39-3	
Chromium	**1.5J**	ug/L	2.0	0.36	1	08/29/22 06:21	09/01/22 00:02	7440-47-3	
Lead	**0.14J**	ug/L	0.50	0.056	1	08/29/22 06:21	09/01/22 00:02	7439-92-1	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Minneapolis								
Arsenic, Dissolved	**0.37J**	ug/L	0.50	0.092	1	08/31/22 06:25	09/08/22 05:24	7440-38-2	
Barium, Dissolved	**127**	ug/L	0.30	0.092	1	08/31/22 06:25	09/08/22 05:24	7440-39-3	
Chromium, Dissolved	**1.3J**	ug/L	2.0	0.36	1	08/31/22 06:25	09/08/22 21:55	7440-47-3	
Lead, Dissolved	**<0.056**	ug/L	0.50	0.056	1	08/31/22 06:25	09/08/22 21:55	7439-92-1	
8270E MSSV CPAH by SIM	Analytical Method: EPA 8270E by SIM Preparation Method: EPA 3510C Pace Analytical Services - Minneapolis								
Benzo(a)anthracene	**<0.0086**	ug/L	0.044	0.0086	1	08/23/22 17:27	08/29/22 17:32	56-55-3	
Benzo(a)pyrene	**<0.012**	ug/L	0.044	0.012	1	08/23/22 17:27	08/29/22 17:32	50-32-8	
Benzofluoranthenes (Total)	**<0.037**	ug/L	0.13	0.037	1	08/23/22 17:27	08/29/22 17:32		N2
Chrysene	**<0.0088**	ug/L	0.044	0.0088	1	08/23/22 17:27	08/29/22 17:32	218-01-9	
Dibenz(a,h)anthracene	**<0.017**	ug/L	0.044	0.017	1	08/23/22 17:27	08/29/22 17:32	53-70-3	
Indeno(1,2,3-cd)pyrene	**<0.017**	ug/L	0.044	0.017	1	08/23/22 17:27	08/29/22 17:32	193-39-5	
Surrogates									
2-Fluorobiphenyl (S)	61	%.	52-125		1	08/23/22 17:27	08/29/22 17:32	321-60-8	
p-Terphenyl-d14 (S)	65	%.	51-125		1	08/23/22 17:27	08/29/22 17:32	1718-51-0	
8260D MSV UST	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis								
Benzene	**<0.10**	ug/L	1.0	0.10	1		08/24/22 22:08	71-43-2	
Ethylbenzene	**<0.11**	ug/L	1.0	0.11	1		08/24/22 22:08	100-41-4	
Methyl-tert-butyl ether	**<0.13**	ug/L	1.0	0.13	1		08/24/22 22:08	1634-04-4	
Naphthalene	**<0.18**	ug/L	1.0	0.18	1		08/24/22 22:08	91-20-3	
Toluene	**0.11J**	ug/L	1.0	0.10	1		08/24/22 22:08	108-88-3	B

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: P66 Westlake
Pace Project No.: 10622370

Sample: MW-218 **Lab ID: 10622370010** Collected: 08/16/22 13:12 Received: 08/22/22 08:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV UST	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis								
Xylene (Total)	**<0.20**	ug/L	3.0	0.20	1		08/24/22 22:08	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	100	%.	75-125		1		08/24/22 22:08	2199-69-1	
4-Bromofluorobenzene (S)	101	%.	75-125		1		08/24/22 22:08	460-00-4	
Toluene-d8 (S)	102	%.	75-125		1		08/24/22 22:08	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: P66 Westlake
Pace Project No.: 10622370

Sample: Trip Blank **Lab ID: 10622370011** Collected: 08/16/22 00:00 Received: 08/22/22 08:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260D MSV UST	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis								
Benzene	**<0.10**	ug/L	1.0	0.10	1		08/24/22 00:02	71-43-2	
Ethylbenzene	**<0.11**	ug/L	1.0	0.11	1		08/24/22 00:02	100-41-4	
Toluene	**<0.10**	ug/L	1.0	0.10	1		08/24/22 00:02	108-88-3	
Xylene (Total)	**<0.20**	ug/L	3.0	0.20	1		08/24/22 00:02	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	99	%.	75-125		1		08/24/22 00:02	2199-69-1	
4-Bromofluorobenzene (S)	100	%.	75-125		1		08/24/22 00:02	460-00-4	
Toluene-d8 (S)	104	%.	75-125		1		08/24/22 00:02	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: P66 Westlake
Pace Project No.: 10622370

QC Batch: 836872
QC Batch Method: NWTPH-Gx
Analysis Method: NWTPH-Gx
Analysis Description: NWTPH-Gx Water
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10622370007

METHOD BLANK: 4431037 Matrix: Water
Associated Lab Samples: 10622370007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
TPH as Gas	ug/L	28.0J	100	22.6	08/25/22 21:40	
a,a,a-Trifluorotoluene (S)	%.	96	50-150		08/25/22 21:40	

LABORATORY CONTROL SAMPLE & LCSD: 4431038 4431039

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
TPH as Gas	ug/L	1000	848	822	85	82	75-125	3	20	
a,a,a-Trifluorotoluene (S)	%.				100	98	50-150			

SAMPLE DUPLICATE: 4431041

Parameter	Units	10622370007 Result	Dup Result	RPD	Max RPD	Qualifiers
TPH as Gas	ug/L	31.6J	29.0J		30	HS
a,a,a-Trifluorotoluene (S)	%.	97	98			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: P66 Westlake
Pace Project No.: 10622370

QC Batch: 837086 — Analysis Method: NWTPH-Gx
QC Batch Method: NWTPH-Gx — Analysis Description: NWTPH-Gx Water
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10622370001, 10622370002, 10622370003, 10622370004, 10622370005, 10622370006, 10622370008, 10622370009, 10622370010

METHOD BLANK: 4432042 — Matrix: Water
Associated Lab Samples: 10622370001, 10622370002, 10622370003, 10622370004, 10622370005, 10622370006, 10622370008, 10622370009, 10622370010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
TPH as Gas	ug/L	37.9J	100	22.6	08/26/22 14:58	
a,a,a-Trifluorotoluene (S)	%.	100	50-150		08/26/22 14:58	

METHOD BLANK: 4432043 — Matrix: Water
Associated Lab Samples: 10622370001, 10622370002, 10622370003, 10622370004, 10622370005, 10622370006, 10622370008, 10622370009, 10622370010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
TPH as Gas	ug/L	<22.6	100	22.6	08/26/22 17:58	
a,a,a-Trifluorotoluene (S)	%.	99	50-150		08/26/22 17:58	

LABORATORY CONTROL SAMPLE & LCSD: 4432044 4432045

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
TPH as Gas	ug/L	1000	855	875	85	88	75-125	2	20	
a,a,a-Trifluorotoluene (S)	%.				102	100	50-150			

SAMPLE DUPLICATE: 4432046

Parameter	Units	10622370009 Result	Dup Result	RPD	Max RPD	Qualifiers
TPH as Gas	ug/L	127	126	1	30	
a,a,a-Trifluorotoluene (S)	%.	101	101			

SAMPLE DUPLICATE: 4432047

Parameter	Units	10622534008 Result	Dup Result	RPD	Max RPD	Qualifiers
TPH as Gas	ug/L	ND	<22.6		30	
a,a,a-Trifluorotoluene (S)	%.	97	97			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: P66 Westlake
Pace Project No.: 10622370

QC Batch: 837190
QC Batch Method: EPA 200.8
Analysis Method: EPA 200.8
Analysis Description: 200.8 MET
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10622370001, 10622370002, 10622370003, 10622370004, 10622370005, 10622370006, 10622370007, 10622370008, 10622370009, 10622370010

METHOD BLANK: 4433350 Matrix: Water
Associated Lab Samples: 10622370001, 10622370002, 10622370003, 10622370004, 10622370005, 10622370006, 10622370007, 10622370008, 10622370009, 10622370010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	ug/L	<0.092	0.50	0.092	08/31/22 23:02	
Barium	ug/L	<0.092	0.30	0.092	08/31/22 23:02	
Chromium	ug/L	<0.36	2.0	0.36	08/31/22 23:02	
Lead	ug/L	<0.056	0.50	0.056	08/31/22 23:02	

LABORATORY CONTROL SAMPLE: 4433351

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	100	104	104	85-115	
Barium	ug/L	100	108	108	85-115	
Chromium	ug/L	100	108	108	85-115	
Lead	ug/L	100	107	107	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4433352 4433353

Parameter	Units	10622370001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	1.4	100	100	102	99.7	101	98	70-130	2	20	
Barium	ug/L	113	100	100	215	214	102	101	70-130	0	20	
Chromium	ug/L	0.92J	100	100	105	103	104	102	70-130	2	20	
Lead	ug/L	0.063J	100	100	102	102	102	102	70-130	0	20	

MATRIX SPIKE SAMPLE: 4433354

Parameter	Units	10622370010 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	0.43J	100	103	103	70-130	
Barium	ug/L	145	100	251	106	70-130	
Chromium	ug/L	1.5J	100	107	105	70-130	
Lead	ug/L	0.14J	100	104	104	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: P66 Westlake
Pace Project No.: 10622370

QC Batch: 837176 | Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 | Analysis Description: 200.8 MET Dissolved
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10622370001, 10622370002, 10622370003, 10622370004, 10622370005, 10622370006, 10622370007, 10622370008, 10622370009, 10622370010

METHOD BLANK: 4433287 Matrix: Water
Associated Lab Samples: 10622370001, 10622370002, 10622370003, 10622370004, 10622370005, 10622370006, 10622370007, 10622370008, 10622370009, 10622370010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic, Dissolved	ug/L	<0.092	0.50	0.092	09/08/22 04:30	
Barium, Dissolved	ug/L	<0.092	0.30	0.092	09/08/22 04:30	
Chromium, Dissolved	ug/L	<0.36	2.0	0.36	09/08/22 20:21	
Lead, Dissolved	ug/L	<0.056	0.50	0.056	09/08/22 20:21	

LABORATORY CONTROL SAMPLE: 4433288

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	100	98.2	98	85-115	
Barium, Dissolved	ug/L	100	100	100	85-115	
Chromium, Dissolved	ug/L	100	105	105	85-115	
Lead, Dissolved	ug/L	100	104	104	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4433289 4433290

Parameter	Units	10622370001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic, Dissolved	ug/L	1.4	100	100	100	103	99	102	70-130	3	20	
Barium, Dissolved	ug/L	111	100	100	211	213	100	103	70-130	1	20	
Chromium, Dissolved	ug/L	0.86J	100	100	105	102	104	101	70-130	3	20	
Lead, Dissolved	ug/L	0.069J	100	100	101	96.9	101	97	70-130	4	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: P66 Westlake
Pace Project No.: 10622370

QC Batch: 836423
QC Batch Method: EPA 8260D
Analysis Method: EPA 8260D
Analysis Description: 8260D MSV UST-WATER
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10622370011

METHOD BLANK: 4428604 Matrix: Water
Associated Lab Samples: 10622370011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Benzene	ug/L	<0.10	1.0	0.10	08/23/22 23:46	
Ethylbenzene	ug/L	<0.11	1.0	0.11	08/23/22 23:46	
Toluene	ug/L	<0.10	1.0	0.10	08/23/22 23:46	
Xylene (Total)	ug/L	<0.20	3.0	0.20	08/23/22 23:46	
1,2-Dichlorobenzene-d4 (S)	%.	102	75-125		08/23/22 23:46	
4-Bromofluorobenzene (S)	%.	100	75-125		08/23/22 23:46	
Toluene-d8 (S)	%.	104	75-125		08/23/22 23:46	

LABORATORY CONTROL SAMPLE & LCSD: 4428605 4428606

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Benzene	ug/L	20	17.8	17.2	89	86	73-125	3	20	
Ethylbenzene	ug/L	20	17.8	17.3	89	87	75-125	3	20	
Toluene	ug/L	20	17.2	16.5	86	82	74-125	4	20	
Xylene (Total)	ug/L	60	54.6	51.9	91	86	72-125	5	20	
1,2-Dichlorobenzene-d4 (S)	%.				101	102	75-125			
4-Bromofluorobenzene (S)	%.				100	99	75-125			
Toluene-d8 (S)	%.				98	98	75-125			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(612)607-1700

QUALITY CONTROL DATA

Project: P66 Westlake
Pace Project No.: 10622370

QC Batch: 836628
QC Batch Method: EPA 8260D
Analysis Method: EPA 8260D
Analysis Description: 8260D MSV UST-WATER
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10622370001, 10622370002, 10622370003, 10622370004, 10622370005, 10622370006, 10622370007

METHOD BLANK: 4429764 Matrix: Water
Associated Lab Samples: 10622370001, 10622370002, 10622370003, 10622370004, 10622370005, 10622370006, 10622370007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Benzene	ug/L	<0.10	1.0	0.10	08/25/22 17:26	
Ethylbenzene	ug/L	<0.11	1.0	0.11	08/25/22 17:26	
Methyl-tert-butyl ether	ug/L	<0.13	1.0	0.13	08/25/22 17:26	
Naphthalene	ug/L	<0.18	1.0	0.18	08/25/22 17:26	
Toluene	ug/L	<0.10	1.0	0.10	08/25/22 17:26	
Xylene (Total)	ug/L	<0.20	3.0	0.20	08/25/22 17:26	
1,2-Dichlorobenzene-d4 (S)	%.	97	75-125		08/25/22 17:26	
4-Bromofluorobenzene (S)	%.	101	75-125		08/25/22 17:26	
Toluene-d8 (S)	%.	102	75-125		08/25/22 17:26	

LABORATORY CONTROL SAMPLE & LCSD: 4429765 4429789

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Benzene	ug/L	20	20.7	19.3	103	97	73-125	7	20	
Ethylbenzene	ug/L	20	21.0	19.5	105	98	75-125	7	20	
Methyl-tert-butyl ether	ug/L	20	23.5	21.9	117	109	75-125	7	20	
Naphthalene	ug/L	20	23.4	22.1	117	110	66-127	6	20	
Toluene	ug/L	20	20.6	19.2	103	96	74-125	7	20	
Xylene (Total)	ug/L	60	64.9	60.3	108	100	72-125	7	20	
1,2-Dichlorobenzene-d4 (S)	%.				101	101	75-125			
4-Bromofluorobenzene (S)	%.				100	101	75-125			
Toluene-d8 (S)	%.				97	99	75-125			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA

Project: P66 Westlake
Pace Project No.: 10622370

QC Batch: 836641
QC Batch Method: EPA 8260D
Analysis Method: EPA 8260D
Analysis Description: 8260D MSV UST-WATER
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10622370008, 10622370009, 10622370010

METHOD BLANK: 4429864 Matrix: Water
Associated Lab Samples: 10622370008, 10622370009, 10622370010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Benzene	ug/L	<0.10	1.0	0.10	08/24/22 20:03	
Ethylbenzene	ug/L	<0.11	1.0	0.11	08/24/22 20:03	
Methyl-tert-butyl ether	ug/L	<0.13	1.0	0.13	08/24/22 20:03	
Naphthalene	ug/L	<0.18	1.0	0.18	08/24/22 20:03	
Toluene	ug/L	0.13J	1.0	0.10	08/24/22 20:03	
Xylene (Total)	ug/L	<0.20	3.0	0.20	08/24/22 20:03	
1,2-Dichlorobenzene-d4 (S)	%.	99	75-125		08/24/22 20:03	
4-Bromofluorobenzene (S)	%.	99	75-125		08/24/22 20:03	
Toluene-d8 (S)	%.	103	75-125		08/24/22 20:03	

LABORATORY CONTROL SAMPLE & LCSD: 4429865 4429866

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Benzene	ug/L	20	19.5	18.5	98	92	73-125	5	20	
Ethylbenzene	ug/L	20	19.7	18.7	98	93	75-125	5	20	
Methyl-tert-butyl ether	ug/L	20	21.5	20.9	107	105	75-125	3	20	
Naphthalene	ug/L	20	21.0	21.7	105	108	66-127	3	20	
Toluene	ug/L	20	19.1	18.2	96	91	74-125	5	20	
Xylene (Total)	ug/L	60	61.0	57.9	102	97	72-125	5	20	
1,2-Dichlorobenzene-d4 (S)	%.				100	99	75-125			
4-Bromofluorobenzene (S)	%.				100	100	75-125			
Toluene-d8 (S)	%.				97	97	75-125			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: P66 Westlake
Pace Project No.: 10622370

QC Batch: 836359
QC Batch Method: EPA 3510C
Analysis Method: EPA 8270E by SIM
Analysis Description: 8270E CPAH by SIM MSSV
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10622370001, 10622370002, 10622370003, 10622370004, 10622370005, 10622370006, 10622370007, 10622370008, 10622370009, 10622370010

METHOD BLANK: 4428317 Matrix: Water
Associated Lab Samples: 10622370001, 10622370002, 10622370003, 10622370004, 10622370005, 10622370006, 10622370007, 10622370008, 10622370009, 10622370010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Benzo(a)anthracene	ug/L	<0.0078	0.040	0.0078	08/25/22 12:15	
Benzo(a)pyrene	ug/L	<0.011	0.040	0.011	08/25/22 12:15	
Benzofluoranthenes (Total)	ug/L	<0.034	0.12	0.034	08/25/22 12:15	N2
Chrysene	ug/L	<0.0080	0.040	0.0080	08/25/22 12:15	
Dibenz(a,h)anthracene	ug/L	<0.016	0.040	0.016	08/25/22 12:15	
Indeno(1,2,3-cd)pyrene	ug/L	<0.016	0.040	0.016	08/25/22 12:15	
2-Fluorobiphenyl (S)	%.	71	52-125		08/25/22 12:15	
p-Terphenyl-d14 (S)	%.	80	51-125		08/25/22 12:15	

LABORATORY CONTROL SAMPLE & LCSD: 4428318 4428319

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Benzo(a)anthracene	ug/L	3	2.3	2.4	76	81	56-125	6	20	
Benzo(a)pyrene	ug/L	3	2.4	2.5	81	83	62-125	3	20	
Benzofluoranthenes (Total)	ug/L	9	7.3	7.7	81	85	63-125	4	20	N2
Chrysene	ug/L	3	2.4	2.5	79	84	56-125	6	20	
Dibenz(a,h)anthracene	ug/L	3	2.4	2.5	81	82	63-125	2	20	
Indeno(1,2,3-cd)pyrene	ug/L	3	2.5	2.6	84	88	63-125	5	20	
2-Fluorobiphenyl (S)	%.				66	75	52-125			
p-Terphenyl-d14 (S)	%.				77	80	51-125			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: P66 Westlake
Pace Project No.: 10622370

QC Batch: 836360
QC Batch Method: EPA 3510C
Analysis Method: NWTPH-Dx
Analysis Description: NWTPH-Dx GCS LV
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10622370001, 10622370002, 10622370003, 10622370004, 10622370005, 10622370006, 10622370007, 10622370008, 10622370009, 10622370010

METHOD BLANK: 4428320 Matrix: Water
Associated Lab Samples: 10622370001, 10622370002, 10622370003, 10622370004, 10622370005, 10622370006, 10622370007, 10622370008, 10622370009, 10622370010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Diesel Fuel Range	ug/L	<118	400	118	08/26/22 01:33	
Motor Oil Range	ug/L	<183	400	183	08/26/22 01:33	
n-Triacontane (S)	%.	93	50-150		08/26/22 01:33	
o-Terphenyl (S)	%.	87	50-150		08/26/22 01:33	

LABORATORY CONTROL SAMPLE & LCSD: 4428321 4428322

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Diesel Fuel Range	ug/L	2000	1650	1690	83	85	50-150	2	20	
Motor Oil Range	ug/L	2000	1730	1800	87	90	50-150	4	20	
n-Triacontane (S)	%.				80	83	50-150			
o-Terphenyl (S)	%.				83	86	50-150			

SAMPLE DUPLICATE: 4428539

Parameter	Units	10622370001 Result	Dup Result	RPD	Max RPD	Qualifiers
Diesel Fuel Range	ug/L	<140	<134		30	
Motor Oil Range	ug/L	<218	<208		30	
n-Triacontane (S)	%.	58	59			
o-Terphenyl (S)	%.	66	67			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: P66 Westlake
Pace Project No.: 10622370

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

WORKORDER QUALIFIERS

WO: 10622370

[1] The samples were received outside of required temperature range. Analysis was completed upon client approval.

BATCH QUALIFIERS

Batch: 836423

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: 836628

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: 836641

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: 836818

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: 836872

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: 837086

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: P66 Westlake
Pace Project No.: 10622370

ANALYTE QUALIFIERS

1M	Surrogate recovery outside laboratory control limits (confirmed by similar results from sample re-analysis).
2M	Surrogate recovery outside laboratory control limits due to emulsion.
B	Analyte was detected in the associated method blank.
C6	Result confirmed by reanalysis conducted outside of the method specified holding time.
HS	Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).
N2	The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: P66 Westlake
Pace Project No.: 10622370

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10622370001	MW-209	EPA 3510C	836360	NWTPH-Dx	837021
10622370002	MW-210	EPA 3510C	836360	NWTPH-Dx	837021
10622370003	MW-211	EPA 3510C	836360	NWTPH-Dx	837021
10622370004	MW-212	EPA 3510C	836360	NWTPH-Dx	837021
10622370005	MW-213	EPA 3510C	836360	NWTPH-Dx	837021
10622370006	MW-214	EPA 3510C	836360	NWTPH-Dx	837021
10622370007	MW-215	EPA 3510C	836360	NWTPH-Dx	837021
10622370008	MW-216	EPA 3510C	836360	NWTPH-Dx	837021
10622370009	MW-217	EPA 3510C	836360	NWTPH-Dx	837021
10622370010	MW-218	EPA 3510C	836360	NWTPH-Dx	837021
10622370001	MW-209	NWTPH-Gx	837086		
10622370002	MW-210	NWTPH-Gx	837086		
10622370003	MW-211	NWTPH-Gx	837086		
10622370004	MW-212	NWTPH-Gx	837086		
10622370005	MW-213	NWTPH-Gx	837086		
10622370006	MW-214	NWTPH-Gx	837086		
10622370007	MW-215	NWTPH-Gx	836872		
10622370008	MW-216	NWTPH-Gx	837086		
10622370009	MW-217	NWTPH-Gx	837086		
10622370010	MW-218	NWTPH-Gx	837086		
10622370001	MW-209	EPA 200.8	837190	EPA 200.8	837468
10622370002	MW-210	EPA 200.8	837190	EPA 200.8	837468
10622370003	MW-211	EPA 200.8	837190	EPA 200.8	837468
10622370004	MW-212	EPA 200.8	837190	EPA 200.8	837468
10622370005	MW-213	EPA 200.8	837190	EPA 200.8	837468
10622370006	MW-214	EPA 200.8	837190	EPA 200.8	837468
10622370007	MW-215	EPA 200.8	837190	EPA 200.8	837468
10622370008	MW-216	EPA 200.8	837190	EPA 200.8	837468
10622370009	MW-217	EPA 200.8	837190	EPA 200.8	837468
10622370010	MW-218	EPA 200.8	837190	EPA 200.8	837468
10622370001	MW-209	EPA 200.8	837176	EPA 200.8	838224
10622370002	MW-210	EPA 200.8	837176	EPA 200.8	838224
10622370003	MW-211	EPA 200.8	837176	EPA 200.8	838224
10622370004	MW-212	EPA 200.8	837176	EPA 200.8	838224
10622370005	MW-213	EPA 200.8	837176	EPA 200.8	838224
10622370006	MW-214	EPA 200.8	837176	EPA 200.8	838224
10622370007	MW-215	EPA 200.8	837176	EPA 200.8	838224
10622370008	MW-216	EPA 200.8	837176	EPA 200.8	838224
10622370009	MW-217	EPA 200.8	837176	EPA 200.8	838224
10622370010	MW-218	EPA 200.8	837176	EPA 200.8	838224
10622370001	MW-209	EPA 3510C	836359	EPA 8270E by SIM	836818
10622370002	MW-210	EPA 3510C	836359	EPA 8270E by SIM	836818
10622370003	MW-211	EPA 3510C	836359	EPA 8270E by SIM	836818
10622370004	MW-212	EPA 3510C	836359	EPA 8270E by SIM	836818
10622370005	MW-213	EPA 3510C	836359	EPA 8270E by SIM	836818
10622370006	MW-214	EPA 3510C	836359	EPA 8270E by SIM	836818

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: P66 Westlake
Pace Project No.: 10622370

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10622370007	**MW-215**	EPA 3510C	836359	EPA 8270E by SIM	836818
10622370008	**MW-216**	EPA 3510C	836359	EPA 8270E by SIM	836818
10622370009	**MW-217**	EPA 3510C	836359	EPA 8270E by SIM	836818
10622370010	**MW-218**	EPA 3510C	836359	EPA 8270E by SIM	836818
10622370001	**MW-209**	EPA 8260D	836628		
10622370002	**MW-210**	EPA 8260D	836628		
10622370003	**MW-211**	EPA 8260D	836628		
10622370004	**MW-212**	EPA 8260D	836628		
10622370005	**MW-213**	EPA 8260D	836628		
10622370006	**MW-214**	EPA 8260D	836628		
10622370007	**MW-215**	EPA 8260D	836628		
10622370008	**MW-216**	EPA 8260D	836641		
10622370009	**MW-217**	EPA 8260D	836641		
10622370010	**MW-218**	EPA 8260D	836641		
10622370011	**Trip Blank**	EPA 8260D	836423		

CHAIN-OF-CUSTODY / Analytical Request Document

Pace Analytical® WWW.PACELABS.COM

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://info.pacelabs.com/hubfs/pas-standard-terms.pdf.

Page : Of

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Atlas	Report To:		Attention:	Accounts Payable
Address:	6347 Seaview Ave NW	Copy To:		Company Name:	Atlas
	Seattle, WA 98107			Address:	
Email:		Purchase Order #:		Pace Quote:	
Phone:	Fax:	Project Name:	P66 Westlake	Pace Project Manager:	jennifer.gross@pacelabs.com,
Requested Due Date:	*Standard*	Project #:		Pace Profile #:	*39765 / Line 9*

Regulatory Agency

State / Location: WA / Westlake

WO# : 10622370

10622370

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Total As, Ba, Cr, Pb	Diss. As, Ba, Cr, Pb (FF)	NWTPH-DX	NWTPH-GX	8260 BTEX/MTBE/Naphthalene	PAH by 8270 SIM*	Res
	MATRIX: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS																	Requested Analysis Filtered (Y/N)	Y						
1	MW-209					8/17/2022	11:45		12	2		2	8						X	X	X	X	X	X	
2	MW-210					8/17/2022	10:50		12	2		2	8						X	X	X	X	X	X	
3	MW-211					8/17/2022	10:00		12	2		2	8						X	X	X	X	X	X	
4	MW-212					8/17/2022	16:40		12	2		2	8						X	X	X	X	X	X	
5	MW-213					8/17/2022	13:35		12	2		2	8						X	X	X	X	X	X	
6	MW-214					8/17/2022	14:25		12	2		2	8						X	X	X	X	X	X	
7	MW-215					8/17/2022	15:25		12	2		2	8						X	X	X	X	X	X	
8	MW-216					8/16/2022	11:05		12	2		2	8						X	X	X	X	X	X	
9	MW-217					8/16/2022	12:20		12	2		2	8						X	X	X	X	X	X	
10	MW-218					8/16/2022	13:12		12	2		2	8						X	X	X	X	X	X	
11																									
12																									

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Benzo(a)Pyrene, Benzo(a)Anthracene, Benzo(b)Fluoranthene, Benzo(j,k)Fluoranthene, Chrysene, Dibenz(a,h)Anthracene, Indeno(1,2,3-cd)Pyrene	B. Goulet/ Atlas	8/22/2022	11:00	[illegible]	8/22/22	8:50	9.0	4	4	4
							8.6			
							1.6			
							1.3			

TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Isabella Ancona

SIGNATURE of SAMPLER: DATE Signed:

DC#_Title: ENV-FRM-MIN4-0150 v05_Sample Condition Upon Receipt (SCUR)

Effective Date: 04/12/2022

Sample Condition Upon Receipt

Client Name: Atlas

Project #:

WO#: 10622370

PM: JMG Due Date: 09/02/22

CLIENT: ATC_WA

Courier: ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Pace ☐ SpeeDee ☐ Commercial

See Exceptions ☑ ENV-FRM-MIN4-0142

Tracking Number:

Custody Seal on Cooler/Box Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☑ No Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other: Temp Blank? ☑ Yes ☐ No

Thermometer: ☑ T1(0461) ☐ T2(1336) ☐ T3(0459) ☐ T4(0254) ☐ T5(0489) ☐ T6(0235) ☐ T7 (0042) ☐ 01339252/1710 ☐ 122639816 ☐ 140792808

Type of Ice: ☑ Wet ☐ Blue ☐ None ☐ Dry ☑ Melted

Did Samples Originate in West Virginia? ☐ Yes ☐ No Were All Container Temps Taken? ☐ Yes ☐ No ☐ N/A

Temp should be above freezing to 6°C

Cooler Temp Read w/temp blank: 9.1, 8.7, 1.7, 1.4 °C

Correction Factor: -0.1

Cooler Temp Corrected w/temp blank: 9.0, 8.6, 1.6, 1.3 °C

Average Corrected Temp (no temp blank only): ____ °C ☐ See Exceptions ENV-FRM-MIN4-0142 ☐ 1 Container

USDA Regulated Soil: (☑ N/A, water sample/Other:)

Date/Initials of Person Examining Contents: PMA 8/19/22

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA. MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

If Yes to either question, fill out a Regulated Soil Checklist ENV-FRM-MIN4-0154 and include with SCUR/COC paperwork.

Location (check one): ☐ Duluth ☑ Minneapolis ☐ Virginia

				COMMENTS:
Chain of Custody Present and Filled Out?	☑ Yes	☐ No		1.
Chain of Custody Relinquished?	☑ Yes	☐ No		2.
Sampler Name and/or Signature on COC?	☑ Yes	☐ No	☐ N/A	3.
Samples Arrived within Hold Time?	☑ Yes	☐ No		4. If Fecal: ☐ <8 hrs ☐ >8hr, <24 hrs, ☐ >24 hrs
Short Hold Time Analysis (<72 hr)?	☐ Yes	☑ No		5. ☐ Fecal Coliform ☐ HPC ☐ Total Coliform/E coli ☐ BOD/cBOD ☐ Hex Chrome ☐ Turbidity ☐ Nitrate ☐ Nitrite ☐ Orthophos ☐ Other
Rush Turn Around Time Requested?	☐ Yes	☑ No		6.
Sufficient Volume?	☑ Yes	☐ No		7.
Correct Containers Used? -Pace Containers Used?	☑ Yes ☑ Yes	☐ No ☐ No		8.
Containers Intact?	☑ Yes	☐ No		9.
Field Filtered Volume Received for Dissolved Tests?	☑ Yes	☐ No	☐ N/A	10. Is sediment visible in the dissolved container? ☐ Yes ☐ No
Is sufficient information available to reconcile the samples to the COC? Matrix: ☑ Water ☐ Soil ☐ Oil ☐ Other-	☒ Yes	☐ No		11. **If no, write ID/ Date/Time on Container Below:** **See Exception** ☐ **ENV-FRM-MIN4-0142** JMG 8/23/22
All containers needing acid/base preservation have been checked?	☑ Yes	☐ No	☐ N/A	12. Sample # 2,2
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, <2pH, NaOH >9 Sulfide, NaOH>10 Cyanide)	☑ Yes	☐ No	☐ N/A	☐ NaOH ☒ HNO_3 ☐ H_2SO_4 ☐ Zinc Acetate
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS	☑ Yes	☐ No	☐ N/A	Positive for Res. Chlorine? ☐ Yes ☐ No **pH Paper Lot#** **See Exception** ☐ **ENV-FRM-MIN4-0142**
				Res. Chlorine | 0-6 Roll 226424 | 0-6 Strip | 0-14 Strip
Headspace in Methyl Mercury Container?	☐ Yes	☐ No	☑ N/A	
Extra labels present on soil VOA or WIDRO containers?	☐ Yes	☐ No	☑ N/A	13. **See Exception** ☐ **ENV-FRM-MIN4-0140**
Headspace in VOA Vials (greater than 6mm)?	☐ Yes	☐ No	☑ N/A	
Trip Blank Present?	☑ Yes	☐ No	☐ N/A	14.
Trip Blank Custody Seals Present?	☑ Yes	☐ No	☐ N/A	Pace Trip Blank Lot # (if purchased): 367197

CLIENT NOTIFICATION/RESOLUTION Field Data Required? ☐ Yes ☐ No

Person Contacted: Brianne Goulet Date/Time: 8/22/22

Comments/Resolution: Only BTEX on trip blank.

8/23/22 - Notified Elisabeth of temperature exceedance on two of four coolers.

Project Manager Review: Jenni Gross **Date:** 8/23/22

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e.,, out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled by:

Pace ANALYTICAL SERVICES	**DC#_Title: ENV-FRM-MIN4-0142 v01_Sample Condition Upon Receipt (SCUR) Exception Form**
	Effective Date: 02/25/2022

SCUR Exceptions: **Workorder #:**

Out of Temp Sample IDs	Container Type	# of Containers

PM Notified? ☐Yes ☐No

If yes, indicate who was contacted/date/time.
If no, indicate reason why.

Multiple Cooler Project? ☐Yes ☐No
If you answered yes, fill out information to the left.

No Temp Blank		
Read Temp	Corrected Temp	Average Temp

Tracking Number/Temperature	
276958800790	9.0
276958800815	9.6
276958800804	1.6
276958800789	1.3

Issue Type: Sample ID	Container Type	# of Containers

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preserve	pH Upon Receipt	Date Adjusted	Time Adjusted	Amount Added (mL)	Lot # Added	pH After	In Compliance after addition?	Initials
								☐Yes ☐No	
								☐Yes ☐No	
								☐Yes ☐No	
								☐Yes ☐No	

Comments:

Qualtrax ID: 52763

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

November 17, 2022

Brani Jurista
Farallon Consulting
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 397-066
Laboratory Reference No. 2211-139

Dear Brani:

Enclosed are the analytical results and associated quality control data for samples submitted on November 9, 2022.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: November 17, 2022
Samples Submitted: November 9, 2022
Laboratory Reference: 2211-139
Project: 397-066

Case Narrative

Samples were collected on November 7 and 8, 2022 and received by the laboratory on November 9, 2022. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: November 17, 2022
Samples Submitted: November 9, 2022
Laboratory Reference: 2211-139
Project: 397-066

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FMW-139-110822**					
Laboratory ID:	11-139-01					
Gasoline	**ND**	100	NWTPH-Gx	11-11-22	11-11-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*111*	*65-122*				
Client ID:	**B-37-9-110822**					
Laboratory ID:	11-139-02					
Gasoline	**ND**	100	NWTPH-Gx	11-11-22	11-11-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*98*	*65-122*				
Client ID:	**MW-54-110822**					
Laboratory ID:	11-139-03					
Gasoline	**ND**	100	NWTPH-Gx	11-11-22	11-11-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*97*	*65-122*				
Client ID:	**MWR-6-110822**					
Laboratory ID:	11-139-04					
Gasoline	**ND**	100	NWTPH-Gx	11-11-22	11-11-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*100*	*65-122*				
Client ID:	**MW-45-110822**					
Laboratory ID:	11-139-05					
Gasoline	**ND**	100	NWTPH-Gx	11-11-22	11-11-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*101*	*65-122*				
Client ID:	**FMW-131-110822**					
Laboratory ID:	11-139-06					
Gasoline	**ND**	100	NWTPH-Gx	11-11-22	11-11-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*105*	*65-122*				
Client ID:	**MWR-3-110822**					
Laboratory ID:	11-139-07					
Gasoline	**ND**	100	NWTPH-Gx	11-11-22	11-11-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*100*	*65-122*				

Date of Report: November 17, 2022
Samples Submitted: November 9, 2022
Laboratory Reference: 2211-139
Project: 397-066

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**PH-3-110822**					
Laboratory ID:	11-139-08					
Gasoline	**ND**	100	NWTPH-Gx	11-11-22	11-11-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*98*	*65-122*				
Client ID:	**B-37-5-110722**					
Laboratory ID:	11-139-09					
Gasoline	**ND**	100	NWTPH-Gx	11-11-22	11-11-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*95*	*65-122*				
Client ID:	**B-37-6-110722**					
Laboratory ID:	11-139-10					
Gasoline	**ND**	100	NWTPH-Gx	11-11-22	11-11-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*95*	*65-122*				
Client ID:	**B-37-4-110722**					
Laboratory ID:	11-139-11					
Gasoline	**ND**	100	NWTPH-Gx	11-11-22	11-11-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*98*	*65-122*				
Client ID:	**B-37-3-110722**					
Laboratory ID:	11-139-12					
Gasoline	**ND**	100	NWTPH-Gx	11-11-22	11-11-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*96*	*65-122*				

Date of Report: November 17, 2022
Samples Submitted: November 9, 2022
Laboratory Reference: 2211-139
Project: 397-066

GASOLINE RANGE ORGANICS
NWTPH-Gx
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1111W1					
Gasoline	**ND**	100	NWTPH-Gx	11-11-22	11-11-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*100*	*65-122*				
Laboratory ID:	MB1111W2					
Gasoline	**ND**	100	NWTPH-Gx	11-11-22	11-11-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*110*	*65-122*				

Analyte	Result		Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE									
Laboratory ID:	11-139-01								
	ORIG	DUP							
Gasoline	**ND**	**ND**	NA	NA	NA	NA	NA	30	
Surrogate:									
Fluorobenzene					*111* *91*	*65-122*			
Laboratory ID:	11-139-06								
	ORIG	DUP							
Gasoline	**ND**	**ND**	NA	NA	NA	NA	NA	30	
Surrogate:									
Fluorobenzene					*105* *105*	*65-122*			

Date of Report: November 17, 2022
Samples Submitted: November 9, 2022
Laboratory Reference: 2211-139
Project: 397-066

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FMW-139-110822**					
Laboratory ID:	11-139-01					
Benzene	ND	0.20	EPA 8260D	11-14-22	11-14-22	
Toluene	ND	1.0	EPA 8260D	11-14-22	11-14-22	
Ethylbenzene	ND	0.20	EPA 8260D	11-14-22	11-14-22	
m,p-Xylene	ND	0.40	EPA 8260D	11-14-22	11-14-22	
o-Xylene	ND	0.20	EPA 8260D	11-14-22	11-14-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*108*	*75-127*				
Toluene-d8	*102*	*80-127*				
4-Bromofluorobenzene	*101*	*78-125*				
Client ID:	**B-37-9-110822**					
Laboratory ID:	11-139-02					
Benzene	ND	0.20	EPA 8260D	11-14-22	11-14-22	
Toluene	ND	1.0	EPA 8260D	11-14-22	11-14-22	
Ethylbenzene	ND	0.20	EPA 8260D	11-14-22	11-14-22	
m,p-Xylene	ND	0.40	EPA 8260D	11-14-22	11-14-22	
o-Xylene	ND	0.20	EPA 8260D	11-14-22	11-14-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*106*	*75-127*				
Toluene-d8	*103*	*80-127*				
4-Bromofluorobenzene	*102*	*78-125*				
Client ID:	**MW-54-110822**					
Laboratory ID:	11-139-03					
Benzene	ND	0.20	EPA 8260D	11-14-22	11-14-22	
Toluene	ND	1.0	EPA 8260D	11-14-22	11-14-22	
Ethylbenzene	ND	0.20	EPA 8260D	11-14-22	11-14-22	
m,p-Xylene	ND	0.40	EPA 8260D	11-14-22	11-14-22	
o-Xylene	ND	0.20	EPA 8260D	11-14-22	11-14-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*108*	*75-127*				
Toluene-d8	*103*	*80-127*				
4-Bromofluorobenzene	*102*	*78-125*				

Date of Report: November 17, 2022
Samples Submitted: November 9, 2022
Laboratory Reference: 2211-139
Project: 397-066

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MWR-6-110822**					
Laboratory ID:	11-139-04					
Benzene	ND	0.20	EPA 8260D	11-14-22	11-14-22	
Toluene	ND	1.0	EPA 8260D	11-14-22	11-14-22	
Ethylbenzene	ND	0.20	EPA 8260D	11-14-22	11-14-22	
m,p-Xylene	ND	0.40	EPA 8260D	11-14-22	11-14-22	
o-Xylene	ND	0.20	EPA 8260D	11-14-22	11-14-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*105*	*75-127*				
Toluene-d8	*104*	*80-127*				
4-Bromofluorobenzene	*103*	*78-125*				
Client ID:	**MW-45-110822**					
Laboratory ID:	11-139-05					
Benzene	ND	0.20	EPA 8260D	11-14-22	11-14-22	
Toluene	ND	1.0	EPA 8260D	11-14-22	11-14-22	
Ethylbenzene	ND	0.20	EPA 8260D	11-14-22	11-14-22	
m,p-Xylene	ND	0.40	EPA 8260D	11-14-22	11-14-22	
o-Xylene	ND	0.20	EPA 8260D	11-14-22	11-14-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*105*	*75-127*				
Toluene-d8	*103*	*80-127*				
4-Bromofluorobenzene	*99*	*78-125*				
Client ID:	**FMW-131-110822**					
Laboratory ID:	11-139-06					
Benzene	ND	0.20	EPA 8260D	11-14-22	11-14-22	
Toluene	ND	1.0	EPA 8260D	11-14-22	11-14-22	
Ethylbenzene	ND	0.20	EPA 8260D	11-14-22	11-14-22	
m,p-Xylene	ND	0.40	EPA 8260D	11-14-22	11-14-22	
o-Xylene	ND	0.20	EPA 8260D	11-14-22	11-14-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*104*	*75-127*				
Toluene-d8	*103*	*80-127*				
4-Bromofluorobenzene	*102*	*78-125*				

Date of Report: November 17, 2022
Samples Submitted: November 9, 2022
Laboratory Reference: 2211-139
Project: 397-066

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MWR-3-110822**					
Laboratory ID:	11-139-07					
Benzene	ND	0.20	EPA 8260D	11-14-22	11-14-22	
Toluene	ND	1.0	EPA 8260D	11-14-22	11-14-22	
Ethylbenzene	ND	0.20	EPA 8260D	11-14-22	11-14-22	
m,p-Xylene	ND	0.40	EPA 8260D	11-14-22	11-14-22	
o-Xylene	ND	0.20	EPA 8260D	11-14-22	11-14-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*108*	*75-127*				
Toluene-d8	*103*	*80-127*				
4-Bromofluorobenzene	*103*	*78-125*				
Client ID:	**PH-3-110822**					
Laboratory ID:	11-139-08					
Benzene	ND	0.20	EPA 8260D	11-14-22	11-14-22	
Toluene	ND	1.0	EPA 8260D	11-14-22	11-14-22	
Ethylbenzene	ND	0.20	EPA 8260D	11-14-22	11-14-22	
m,p-Xylene	ND	0.40	EPA 8260D	11-14-22	11-14-22	
o-Xylene	ND	0.20	EPA 8260D	11-14-22	11-14-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*108*	*75-127*				
Toluene-d8	*104*	*80-127*				
4-Bromofluorobenzene	*101*	*78-125*				
Client ID:	**B-37-5-110722**					
Laboratory ID:	11-139-09					
Benzene	ND	0.20	EPA 8260D	11-14-22	11-14-22	
Toluene	ND	1.0	EPA 8260D	11-14-22	11-14-22	
Ethylbenzene	ND	0.20	EPA 8260D	11-14-22	11-14-22	
m,p-Xylene	ND	0.40	EPA 8260D	11-14-22	11-14-22	
o-Xylene	ND	0.20	EPA 8260D	11-14-22	11-14-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*109*	*75-127*				
Toluene-d8	*104*	*80-127*				
4-Bromofluorobenzene	*102*	*78-125*				

Date of Report: November 17, 2022
Samples Submitted: November 9, 2022
Laboratory Reference: 2211-139
Project: 397-066

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**B-37-6-110722**					
Laboratory ID:	11-139-10					
Benzene	ND	0.20	EPA 8260D	11-14-22	11-14-22	
Toluene	ND	1.0	EPA 8260D	11-14-22	11-14-22	
Ethylbenzene	ND	0.20	EPA 8260D	11-14-22	11-14-22	
m,p-Xylene	ND	0.40	EPA 8260D	11-14-22	11-14-22	
o-Xylene	ND	0.20	EPA 8260D	11-14-22	11-14-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*104*	*75-127*				
Toluene-d8	*104*	*80-127*				
4-Bromofluorobenzene	*100*	*78-125*				
Client ID:	**B-37-4-110722**					
Laboratory ID:	11-139-11					
Benzene	ND	0.20	EPA 8260D	11-14-22	11-14-22	
Toluene	ND	1.0	EPA 8260D	11-14-22	11-14-22	
Ethylbenzene	ND	0.20	EPA 8260D	11-14-22	11-14-22	
m,p-Xylene	ND	0.40	EPA 8260D	11-14-22	11-14-22	
o-Xylene	ND	0.20	EPA 8260D	11-14-22	11-14-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*102*	*75-127*				
Toluene-d8	*102*	*80-127*				
4-Bromofluorobenzene	*99*	*78-125*				
Client ID:	**B-37-3-110722**					
Laboratory ID:	11-139-12					
Benzene	ND	0.20	EPA 8260D	11-14-22	11-14-22	
Toluene	ND	1.0	EPA 8260D	11-14-22	11-14-22	
Ethylbenzene	ND	0.20	EPA 8260D	11-14-22	11-14-22	
m,p-Xylene	ND	0.40	EPA 8260D	11-14-22	11-14-22	
o-Xylene	ND	0.20	EPA 8260D	11-14-22	11-14-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*102*	*75-127*				
Toluene-d8	*104*	*80-127*				
4-Bromofluorobenzene	*99*	*78-125*				

Date of Report: November 17, 2022
Samples Submitted: November 9, 2022
Laboratory Reference: 2211-139
Project: 397-066

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1114W1					
Benzene	ND	0.20	EPA 8260D	11-14-22	11-14-22	
Toluene	ND	1.0	EPA 8260D	11-14-22	11-14-22	
Ethylbenzene	ND	0.20	EPA 8260D	11-14-22	11-14-22	
m,p-Xylene	ND	0.40	EPA 8260D	11-14-22	11-14-22	
o-Xylene	ND	0.20	EPA 8260D	11-14-22	11-14-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*107*	*75-127*				
Toluene-d8	*103*	*80-127*				
4-Bromofluorobenzene	*102*	*78-125*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1114W1									
	SB	SBD	SB	SBD	SB	SBD				
Benzene	**10.1**	**10.2**	10.0	10.0	101	102	80-121	1	16	
Toluene	**9.72**	**9.78**	10.0	10.0	97	98	80-120	1	18	
Ethylbenzene	**10.3**	**10.2**	10.0	10.0	103	102	80-125	1	18	
m,p-Xylene	**21.1**	**20.8**	20.0	20.0	106	104	80-127	1	18	
o-Xylene	**10.5**	**10.4**	10.0	10.0	105	104	80-126	1	18	
Surrogate:										
Dibromofluoromethane					*104*	*107*	*75-127*			
Toluene-d8					*103*	*104*	*80-127*			
4-Bromofluorobenzene					*105*	*105*	*78-125*			

Date of Report: November 17, 2022
Samples Submitted: November 9, 2022
Laboratory Reference: 2211-139
Project: 397-066

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Water
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FMW-139-110822**					
Laboratory ID:	11-139-01					
Diesel Range Organics	**0.13**	0.13	NWTPH-Dx	11-14-22	11-17-22	
Lube Oil Range Organics	**0.36**	0.20	NWTPH-Dx	11-14-22	11-17-22	
DRO/LRO C10-C36	**0.34**	0.25	NWTPH-Dx	11-14-22	11-17-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*94*	*50-150*				
Client ID:	**B-37-9-110822**					
Laboratory ID:	11-139-02					
Diesel Range Organics	**0.27**	0.13	NWTPH-Dx	11-14-22	11-17-22	
Lube Oil Range Organics	**0.30**	0.20	NWTPH-Dx	11-14-22	11-17-22	
DRO/LRO C10-C36	**0.43**	0.25	NWTPH-Dx	11-14-22	11-17-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*111*	*50-150*				
Client ID:	**MW-54-110822**					
Laboratory ID:	11-139-03					
Diesel Range Organics	**ND**	0.13	NWTPH-Dx	11-14-22	11-15-22	
Lube Oil Range Organics	**0.21**	0.20	NWTPH-Dx	11-14-22	11-15-22	
DRO/LRO C10-C36	**ND**	0.25	NWTPH-Dx	11-14-22	11-15-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*68*	*50-150*				
Client ID:	**MWR-6-110822**					
Laboratory ID:	11-139-04					
Diesel Fuel #2	**0.19**	0.13	NWTPH-Dx	11-14-22	11-15-22	
Lube Oil Range Organics	**0.40**	0.20	NWTPH-Dx	11-14-22	11-15-22	
DRO/LRO C10-C36	**0.35**	0.25	NWTPH-Dx	11-14-22	11-15-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*74*	*50-150*				
Client ID:	**MW-45-110822**					
Laboratory ID:	11-139-05					
Diesel Range Organics	**0.22**	0.13	NWTPH-Dx	11-14-22	11-15-22	
Lube Oil Range Organics	**0.21**	0.20	NWTPH-Dx	11-14-22	11-15-22	
DRO/LRO C10-C36	**0.30**	0.25	NWTPH-Dx	11-14-22	11-15-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*72*	*50-150*				

Date of Report: November 17, 2022
Samples Submitted: November 9, 2022
Laboratory Reference: 2211-139
Project: 397-066

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Water
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FMW-131-110822**					
Laboratory ID:	11-139-06					
Diesel Range Organics	**ND**	0.13	NWTPH-Dx	11-14-22	11-15-22	
Lube Oil Range Organics	**ND**	0.20	NWTPH-Dx	11-14-22	11-15-22	
DRO/LRO C10-C36	**ND**	0.25	NWTPH-Dx	11-14-22	11-15-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*79*	*50-150*				
Client ID:	**MWR-3-110822**					
Laboratory ID:	11-139-07					
Diesel Range Organics	**ND**	0.13	NWTPH-Dx	11-14-22	11-17-22	
Lube Oil Range Organics	**0.22**	0.20	NWTPH-Dx	11-14-22	11-17-22	
DRO/LRO C10-C36	**ND**	0.25	NWTPH-Dx	11-14-22	11-17-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*98*	*50-150*				
Client ID:	**PH-3-110822**					
Laboratory ID:	11-139-08					
Diesel Range Organics	**ND**	0.13	NWTPH-Dx	11-14-22	11-15-22	
Lube Oil Range Organics	**ND**	0.20	NWTPH-Dx	11-14-22	11-15-22	
DRO/LRO C10-C36	**ND**	0.25	NWTPH-Dx	11-14-22	11-15-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*76*	*50-150*				
Client ID:	**B-37-5-110722**					
Laboratory ID:	11-139-09					
Diesel Range Organics	**0.16**	0.13	NWTPH-Dx	11-14-22	11-14-22	
Lube Oil Range Organics	**0.33**	0.20	NWTPH-Dx	11-14-22	11-14-22	
DRO/LRO C10-C36	**0.31**	0.25	NWTPH-Dx	11-14-22	11-14-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*72*	*50-150*				
Client ID:	**B-37-6-110722**					
Laboratory ID:	11-139-10					
Diesel Range Organics	**0.15**	0.13	NWTPH-Dx	11-14-22	11-14-22	
Lube Oil Range Organics	**0.26**	0.20	NWTPH-Dx	11-14-22	11-14-22	
DRO/LRO C10-C36	**0.26**	0.25	NWTPH-Dx	11-14-22	11-14-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*74*	*50-150*				

Date of Report: November 17, 2022
Samples Submitted: November 9, 2022
Laboratory Reference: 2211-139
Project: 397-066

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Water
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**B-37-4-110722**					
Laboratory ID:	11-139-11					
Diesel Range Organics	**0.21**	0.13	NWTPH-Dx	11-14-22	11-14-22	
Lube Oil Range Organics	**0.28**	0.20	NWTPH-Dx	11-14-22	11-14-22	
DRO/LRO C10-C36	**0.32**	0.25	NWTPH-Dx	11-14-22	11-14-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*74*	*50-150*				
Client ID:	**B-37-3-110722**					
Laboratory ID:	11-139-12					
Diesel Range Organics	**ND**	0.13	NWTPH-Dx	11-14-22	11-14-22	
Lube Oil Range Organics	**ND**	0.20	NWTPH-Dx	11-14-22	11-14-22	
DRO/LRO C10-C36	**ND**	0.25	NWTPH-Dx	11-14-22	11-14-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*61*	*50-150*				

Date of Report: November 17, 2022
Samples Submitted: November 9, 2022
Laboratory Reference: 2211-139
Project: 397-066

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx
QUALITY CONTROL

Matrix: Water
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1114W1					
Diesel Range Organics	**ND**	0.10	NWTPH-Dx	11-14-22	11-14-22	
Lube Oil Range Organics	**ND**	0.16	NWTPH-Dx	11-14-22	11-14-22	
DRO/LRO C10-C36	**ND**	0.20	NWTPH-Dx	11-14-22	11-14-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*91*	*50-150*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	11-091-01										
	ORIG	DUP									
Diesel Range	**ND**	**ND**	NA	NA		NA		NA	NA	NA	
Lube Oil Range	**ND**	**ND**	NA	NA		NA		NA	NA	NA	
DRO/LRO C10-C36	**ND**	**ND**	NA	NA		NA		NA	NA	NA	
Surrogate:											
o-Terphenyl						*100*	*90*	*50-150*			
Laboratory ID:	SB1114W1										
	ORIG	DUP									
Diesel Fuel #2	**0.404**	**0.337**	NA	NA		NA		NA	18	NA	
Surrogate:											
o-Terphenyl						*101*	*93*	*50-150*			

Date of Report: November 17, 2022
Samples Submitted: November 9, 2022
Laboratory Reference: 2211-139
Project: 397-066

PAHs EPA 8270E/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FMW-139-110822**					
Laboratory ID:	11-139-01					
Naphthalene	**ND**	0.095	EPA 8270E/SIM	11-11-22	11-11-22	
Benzo[a]anthracene	**ND**	0.0095	EPA 8270E/SIM	11-11-22	11-11-22	
Chrysene	**ND**	0.0095	EPA 8270E/SIM	11-11-22	11-11-22	
Benzo[b]fluoranthene	**ND**	0.0095	EPA 8270E/SIM	11-11-22	11-11-22	
Benzo(j,k)fluoranthene	**ND**	0.0095	EPA 8270E/SIM	11-11-22	11-11-22	
Benzo[a]pyrene	**ND**	0.0095	EPA 8270E/SIM	11-11-22	11-11-22	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0095	EPA 8270E/SIM	11-11-22	11-11-22	
Dibenz[a,h]anthracene	**ND**	0.0095	EPA 8270E/SIM	11-11-22	11-11-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*57*	*20 - 106*				
Pyrene-d10	*64*	*19 - 104*				
Terphenyl-d14	*68*	*41 - 127*				

Client ID:	**B-37-9-110822**					
Laboratory ID:	11-139-02					
Naphthalene	**ND**	0.095	EPA 8270E/SIM	11-11-22	11-11-22	
Benzo[a]anthracene	**ND**	0.0095	EPA 8270E/SIM	11-11-22	11-11-22	
Chrysene	**ND**	0.0095	EPA 8270E/SIM	11-11-22	11-11-22	
Benzo[b]fluoranthene	**ND**	0.0095	EPA 8270E/SIM	11-11-22	11-11-22	
Benzo(j,k)fluoranthene	**ND**	0.0095	EPA 8270E/SIM	11-11-22	11-11-22	
Benzo[a]pyrene	**ND**	0.0095	EPA 8270E/SIM	11-11-22	11-11-22	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0095	EPA 8270E/SIM	11-11-22	11-11-22	
Dibenz[a,h]anthracene	**ND**	0.0095	EPA 8270E/SIM	11-11-22	11-11-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*66*	*20 - 106*				
Pyrene-d10	*88*	*19 - 104*				
Terphenyl-d14	*85*	*41 - 127*				

Date of Report: November 17, 2022
Samples Submitted: November 9, 2022
Laboratory Reference: 2211-139
Project: 397-066

PAHs EPA 8270E/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-54-110822**					
Laboratory ID:	11-139-03					
Naphthalene	**ND**	0.095	EPA 8270E/SIM	11-11-22	11-11-22	
Benzo[a]anthracene	**ND**	0.0095	EPA 8270E/SIM	11-11-22	11-11-22	
Chrysene	**ND**	0.0095	EPA 8270E/SIM	11-11-22	11-11-22	
Benzo[b]fluoranthene	**ND**	0.0095	EPA 8270E/SIM	11-11-22	11-11-22	
Benzo(j,k)fluoranthene	**ND**	0.0095	EPA 8270E/SIM	11-11-22	11-11-22	
Benzo[a]pyrene	**ND**	0.0095	EPA 8270E/SIM	11-11-22	11-11-22	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0095	EPA 8270E/SIM	11-11-22	11-11-22	
Dibenz[a,h]anthracene	**ND**	0.0095	EPA 8270E/SIM	11-11-22	11-11-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*64*	*20 - 106*				
Pyrene-d10	*75*	*19 - 104*				
Terphenyl-d14	*77*	*41 - 127*				
Client ID:	**MWR-6-110822**					
Laboratory ID:	11-139-04					
Naphthalene	**ND**	0.096	EPA 8270E/SIM	11-11-22	11-11-22	
Benzo[a]anthracene	**ND**	0.0096	EPA 8270E/SIM	11-11-22	11-11-22	
Chrysene	**ND**	0.0096	EPA 8270E/SIM	11-11-22	11-11-22	
Benzo[b]fluoranthene	**ND**	0.0096	EPA 8270E/SIM	11-11-22	11-11-22	
Benzo(j,k)fluoranthene	**ND**	0.0096	EPA 8270E/SIM	11-11-22	11-11-22	
Benzo[a]pyrene	**ND**	0.0096	EPA 8270E/SIM	11-11-22	11-11-22	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0096	EPA 8270E/SIM	11-11-22	11-11-22	
Dibenz[a,h]anthracene	**ND**	0.0096	EPA 8270E/SIM	11-11-22	11-11-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*54*	*20 - 106*				
Pyrene-d10	*64*	*19 - 104*				
Terphenyl-d14	*62*	*41 - 127*				

Date of Report: November 17, 2022
Samples Submitted: November 9, 2022
Laboratory Reference: 2211-139
Project: 397-066

PAHs EPA 8270E/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-45-110822**					
Laboratory ID:	11-139-05					
Naphthalene	**0.18**	0.095	EPA 8270E/SIM	11-11-22	11-11-22	
Benzo[a]anthracene	**ND**	0.0095	EPA 8270E/SIM	11-11-22	11-11-22	
Chrysene	**ND**	0.0095	EPA 8270E/SIM	11-11-22	11-11-22	
Benzo[b]fluoranthene	**ND**	0.0095	EPA 8270E/SIM	11-11-22	11-11-22	
Benzo(j,k)fluoranthene	**ND**	0.0095	EPA 8270E/SIM	11-11-22	11-11-22	
Benzo[a]pyrene	**ND**	0.0095	EPA 8270E/SIM	11-11-22	11-11-22	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0095	EPA 8270E/SIM	11-11-22	11-11-22	
Dibenz[a,h]anthracene	**ND**	0.0095	EPA 8270E/SIM	11-11-22	11-11-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*56*	*20 - 106*				
Pyrene-d10	*69*	*19 - 104*				
Terphenyl-d14	*59*	*41 - 127*				
Client ID:	**FMW-131-110822**					
Laboratory ID:	11-139-06					
Naphthalene	**ND**	0.095	EPA 8270E/SIM	11-11-22	11-11-22	
Benzo[a]anthracene	**ND**	0.0095	EPA 8270E/SIM	11-11-22	11-11-22	
Chrysene	**ND**	0.0095	EPA 8270E/SIM	11-11-22	11-11-22	
Benzo[b]fluoranthene	**ND**	0.0095	EPA 8270E/SIM	11-11-22	11-11-22	
Benzo(j,k)fluoranthene	**ND**	0.0095	EPA 8270E/SIM	11-11-22	11-11-22	
Benzo[a]pyrene	**ND**	0.0095	EPA 8270E/SIM	11-11-22	11-11-22	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0095	EPA 8270E/SIM	11-11-22	11-11-22	
Dibenz[a,h]anthracene	**ND**	0.0095	EPA 8270E/SIM	11-11-22	11-11-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*58*	*20 - 106*				
Pyrene-d10	*74*	*19 - 104*				
Terphenyl-d14	*61*	*41 - 127*				

Date of Report: November 17, 2022
Samples Submitted: November 9, 2022
Laboratory Reference: 2211-139
Project: 397-066

PAHs EPA 8270E/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MWR-3-110822**					
Laboratory ID:	11-139-07					
Naphthalene	**ND**	0.095	EPA 8270E/SIM	11-11-22	11-11-22	
Benzo[a]anthracene	**ND**	0.0095	EPA 8270E/SIM	11-11-22	11-11-22	
Chrysene	**ND**	0.0095	EPA 8270E/SIM	11-11-22	11-11-22	
Benzo[b]fluoranthene	**ND**	0.0095	EPA 8270E/SIM	11-11-22	11-11-22	
Benzo(j,k)fluoranthene	**ND**	0.0095	EPA 8270E/SIM	11-11-22	11-11-22	
Benzo[a]pyrene	**ND**	0.0095	EPA 8270E/SIM	11-11-22	11-11-22	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0095	EPA 8270E/SIM	11-11-22	11-11-22	
Dibenz[a,h]anthracene	**ND**	0.0095	EPA 8270E/SIM	11-11-22	11-11-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*55*	*20 - 106*				
Pyrene-d10	*64*	*19 - 104*				
Terphenyl-d14	*68*	*41 - 127*				
Client ID:	**PH-3-110822**					
Laboratory ID:	11-139-08					
Naphthalene	**ND**	0.095	EPA 8270E/SIM	11-11-22	11-11-22	
Benzo[a]anthracene	**ND**	0.0095	EPA 8270E/SIM	11-11-22	11-11-22	
Chrysene	**ND**	0.0095	EPA 8270E/SIM	11-11-22	11-11-22	
Benzo[b]fluoranthene	**ND**	0.0095	EPA 8270E/SIM	11-11-22	11-11-22	
Benzo(j,k)fluoranthene	**ND**	0.0095	EPA 8270E/SIM	11-11-22	11-11-22	
Benzo[a]pyrene	**ND**	0.0095	EPA 8270E/SIM	11-11-22	11-11-22	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0095	EPA 8270E/SIM	11-11-22	11-11-22	
Dibenz[a,h]anthracene	**ND**	0.0095	EPA 8270E/SIM	11-11-22	11-11-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*59*	*20 - 106*				
Pyrene-d10	*68*	*19 - 104*				
Terphenyl-d14	*73*	*41 - 127*				

Date of Report: November 17, 2022
Samples Submitted: November 9, 2022
Laboratory Reference: 2211-139
Project: 397-066

PAHs EPA 8270E/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**B-37-5-110722**					
Laboratory ID:	11-139-09					
Naphthalene	**ND**	0.096	EPA 8270E/SIM	11-11-22	11-11-22	
Benzo[a]anthracene	**ND**	0.0096	EPA 8270E/SIM	11-11-22	11-11-22	
Chrysene	**ND**	0.0096	EPA 8270E/SIM	11-11-22	11-11-22	
Benzo[b]fluoranthene	**ND**	0.0096	EPA 8270E/SIM	11-11-22	11-11-22	
Benzo(j,k)fluoranthene	**ND**	0.0096	EPA 8270E/SIM	11-11-22	11-11-22	
Benzo[a]pyrene	**ND**	0.0096	EPA 8270E/SIM	11-11-22	11-11-22	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0096	EPA 8270E/SIM	11-11-22	11-11-22	
Dibenz[a,h]anthracene	**ND**	0.0096	EPA 8270E/SIM	11-11-22	11-11-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*64*	*20 - 106*				
Pyrene-d10	*77*	*19 - 104*				
Terphenyl-d14	*78*	*41 - 127*				
Client ID:	**B-37-6-110722**					
Laboratory ID:	11-139-10					
Naphthalene	**ND**	0.096	EPA 8270E/SIM	11-11-22	11-11-22	
Benzo[a]anthracene	**ND**	0.0096	EPA 8270E/SIM	11-11-22	11-11-22	
Chrysene	**ND**	0.0096	EPA 8270E/SIM	11-11-22	11-11-22	
Benzo[b]fluoranthene	**ND**	0.0096	EPA 8270E/SIM	11-11-22	11-11-22	
Benzo(j,k)fluoranthene	**ND**	0.0096	EPA 8270E/SIM	11-11-22	11-11-22	
Benzo[a]pyrene	**ND**	0.0096	EPA 8270E/SIM	11-11-22	11-11-22	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0096	EPA 8270E/SIM	11-11-22	11-11-22	
Dibenz[a,h]anthracene	**ND**	0.0096	EPA 8270E/SIM	11-11-22	11-11-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*54*	*20 - 106*				
Pyrene-d10	*69*	*19 - 104*				
Terphenyl-d14	*63*	*41 - 127*				

Date of Report: November 17, 2022
Samples Submitted: November 9, 2022
Laboratory Reference: 2211-139
Project: 397-066

PAHs EPA 8270E/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**B-37-4-110722**					
Laboratory ID:	11-139-11					
Naphthalene	**ND**	0.097	EPA 8270E/SIM	11-11-22	11-11-22	
Benzo[a]anthracene	**ND**	0.0097	EPA 8270E/SIM	11-11-22	11-11-22	
Chrysene	**ND**	0.0097	EPA 8270E/SIM	11-11-22	11-11-22	
Benzo[b]fluoranthene	**ND**	0.0097	EPA 8270E/SIM	11-11-22	11-11-22	
Benzo(j,k)fluoranthene	**ND**	0.0097	EPA 8270E/SIM	11-11-22	11-11-22	
Benzo[a]pyrene	**ND**	0.0097	EPA 8270E/SIM	11-11-22	11-11-22	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0097	EPA 8270E/SIM	11-11-22	11-11-22	
Dibenz[a,h]anthracene	**ND**	0.0097	EPA 8270E/SIM	11-11-22	11-11-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*53*	*20 - 106*				
Pyrene-d10	*66*	*19 - 104*				
Terphenyl-d14	*59*	*41 - 127*				
Client ID:	**B-37-3-110722**					
Laboratory ID:	11-139-12					
Naphthalene	**ND**	0.10	EPA 8270E/SIM	11-11-22	11-11-22	
Benzo[a]anthracene	**ND**	0.010	EPA 8270E/SIM	11-11-22	11-11-22	
Chrysene	**ND**	0.010	EPA 8270E/SIM	11-11-22	11-11-22	
Benzo[b]fluoranthene	**ND**	0.010	EPA 8270E/SIM	11-11-22	11-11-22	
Benzo(j,k)fluoranthene	**ND**	0.010	EPA 8270E/SIM	11-11-22	11-11-22	
Benzo[a]pyrene	**ND**	0.010	EPA 8270E/SIM	11-11-22	11-11-22	
Indeno(1,2,3-c,d)pyrene	**ND**	0.010	EPA 8270E/SIM	11-11-22	11-11-22	
Dibenz[a,h]anthracene	**ND**	0.010	EPA 8270E/SIM	11-11-22	11-11-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*59*	*20 - 106*				
Pyrene-d10	*70*	*19 - 104*				
Terphenyl-d14	*65*	*41 - 127*				

Date of Report: November 17, 2022
Samples Submitted: November 9, 2022
Laboratory Reference: 2211-139
Project: 397-066

PAHs EPA 8270E/SIM
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1111W1					
Naphthalene	**ND**	0.10	EPA 8270E/SIM	11-11-22	11-11-22	
Benzo[a]anthracene	**ND**	0.010	EPA 8270E/SIM	11-11-22	11-11-22	
Chrysene	**ND**	0.010	EPA 8270E/SIM	11-11-22	11-11-22	
Benzo[b]fluoranthene	**ND**	0.010	EPA 8270E/SIM	11-11-22	11-11-22	
Benzo(j,k)fluoranthene	**ND**	0.010	EPA 8270E/SIM	11-11-22	11-11-22	
Benzo[a]pyrene	**ND**	0.010	EPA 8270E/SIM	11-11-22	11-11-22	
Indeno(1,2,3-c,d)pyrene	**ND**	0.010	EPA 8270E/SIM	11-11-22	11-11-22	
Dibenz[a,h]anthracene	**ND**	0.010	EPA 8270E/SIM	11-11-22	11-11-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*64*	*20 - 106*				
Pyrene-d10	*84*	*19 - 104*				
Terphenyl-d14	*79*	*41 - 127*				

Date of Report: November 17, 2022
Samples Submitted: November 9, 2022
Laboratory Reference: 2211-139
Project: 397-066

PAHs EPA 8270E/SIM
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1111W1 DUP									
	SB	SBD	SB	SBD	SB	SBD				
Naphthalene	**0.291**	**0.339**	0.500	0.500	58	68	25 - 82	15	39	
Acenaphthylene	**0.344**	**0.352**	0.500	0.500	69	70	35 - 107	2	26	
Acenaphthene	**0.341**	**0.341**	0.500	0.500	68	68	33 - 99	0	26	
Fluorene	**0.398**	**0.399**	0.500	0.500	80	80	43 - 95	0	24	
Phenanthrene	**0.406**	**0.429**	0.500	0.500	81	86	49 - 100	6	20	
Anthracene	**0.400**	**0.403**	0.500	0.500	80	81	47 - 101	1	21	
Fluoranthene	**0.439**	**0.418**	0.500	0.500	88	84	51 - 115	5	23	
Pyrene	**0.432**	**0.417**	0.500	0.500	86	83	53 - 117	4	24	
Benzo[a]anthracene	**0.394**	**0.386**	0.500	0.500	79	77	57 - 114	2	21	
Chrysene	**0.450**	**0.432**	0.500	0.500	90	86	55 - 119	4	21	
Benzo[b]fluoranthene	**0.459**	**0.456**	0.500	0.500	92	91	56 - 125	1	26	
Benzo(j,k)fluoranthene	**0.431**	**0.408**	0.500	0.500	86	82	53 - 124	5	22	
Benzo[a]pyrene	**0.399**	**0.390**	0.500	0.500	80	78	54 - 119	2	22	
Indeno(1,2,3-c,d)pyrene	**0.468**	**0.455**	0.500	0.500	94	91	55 - 118	3	23	
Dibenz[a,h]anthracene	**0.392**	**0.387**	0.500	0.500	78	77	56 - 118	1	23	
Benzo[g,h,i]perylene	**0.420**	**0.402**	0.500	0.500	84	80	55 - 117	4	22	
Surrogate:										
2-Fluorobiphenyl					*59*	*68*	*20 - 106*			
Pyrene-d10					*80*	*78*	*19 - 104*			
Terphenyl-d14					*83*	*86*	*41 - 127*			

Date of Report: November 17, 2022
Samples Submitted: November 9, 2022
Laboratory Reference: 2211-139
Project: 397-066

PCBs EPA 8082A

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MWR-3-110822**					
Laboratory ID:	11-139-07					
Aroclor 1016	**ND**	0.019	EPA 8082A	11-10-22	11-10-22	
Aroclor 1221	**ND**	0.019	EPA 8082A	11-10-22	11-10-22	
Aroclor 1232	**ND**	0.019	EPA 8082A	11-10-22	11-10-22	
Aroclor 1242	**ND**	0.019	EPA 8082A	11-10-22	11-10-22	
Aroclor 1248	**ND**	0.019	EPA 8082A	11-10-22	11-10-22	
Aroclor 1254	**ND**	0.019	EPA 8082A	11-10-22	11-10-22	
Aroclor 1260	**ND**	0.019	EPA 8082A	11-10-22	11-10-22	
Aroclor 1262	**ND**	0.019	EPA 8082A	11-10-22	11-10-22	
Aroclor 1268	**ND**	0.019	EPA 8082A	11-10-22	11-10-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*124*	*49-133*				
Client ID:	**PH-3-110822**					
Laboratory ID:	11-139-08					
Aroclor 1016	**ND**	0.019	EPA 8082A	11-10-22	11-10-22	
Aroclor 1221	**ND**	0.019	EPA 8082A	11-10-22	11-10-22	
Aroclor 1232	**ND**	0.019	EPA 8082A	11-10-22	11-10-22	
Aroclor 1242	**ND**	0.019	EPA 8082A	11-10-22	11-10-22	
Aroclor 1248	**ND**	0.019	EPA 8082A	11-10-22	11-10-22	
Aroclor 1254	**ND**	0.019	EPA 8082A	11-10-22	11-10-22	
Aroclor 1260	**ND**	0.019	EPA 8082A	11-10-22	11-10-22	
Aroclor 1262	**ND**	0.019	EPA 8082A	11-10-22	11-10-22	
Aroclor 1268	**ND**	0.019	EPA 8082A	11-10-22	11-10-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*121*	*49-133*				
Client ID:	**B-37-3-110722**					
Laboratory ID:	11-139-12					
Aroclor 1016	**ND**	0.019	EPA 8082A	11-10-22	11-10-22	
Aroclor 1221	**ND**	0.019	EPA 8082A	11-10-22	11-10-22	
Aroclor 1232	**ND**	0.019	EPA 8082A	11-10-22	11-10-22	
Aroclor 1242	**ND**	0.019	EPA 8082A	11-10-22	11-10-22	
Aroclor 1248	**ND**	0.019	EPA 8082A	11-10-22	11-10-22	
Aroclor 1254	**ND**	0.019	EPA 8082A	11-10-22	11-10-22	
Aroclor 1260	**ND**	0.019	EPA 8082A	11-10-22	11-10-22	
Aroclor 1262	**ND**	0.019	EPA 8082A	11-10-22	11-10-22	
Aroclor 1268	**ND**	0.019	EPA 8082A	11-10-22	11-10-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*116*	*49-133*				

Date of Report: November 17, 2022
Samples Submitted: November 9, 2022
Laboratory Reference: 2211-139
Project: 397-066

PCBs EPA 8082A
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1110W1					
Aroclor 1016	**ND**	0.020	EPA 8082A	11-10-22	11-10-22	
Aroclor 1221	**ND**	0.020	EPA 8082A	11-10-22	11-10-22	
Aroclor 1232	**ND**	0.020	EPA 8082A	11-10-22	11-10-22	
Aroclor 1242	**ND**	0.020	EPA 8082A	11-10-22	11-10-22	
Aroclor 1248	**ND**	0.020	EPA 8082A	11-10-22	11-10-22	
Aroclor 1254	**ND**	0.020	EPA 8082A	11-10-22	11-10-22	
Aroclor 1260	**ND**	0.020	EPA 8082A	11-10-22	11-10-22	
Aroclor 1262	**ND**	0.020	EPA 8082A	11-10-22	11-10-22	
Aroclor 1268	**ND**	0.020	EPA 8082A	11-10-22	11-10-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*117*	*49-133*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB1110W1										
	SB	SBD	SB	SBD		SB	SBD				
Aroclor 1260	**0.470**	**0.506**	0.500	0.500	N/A	**94**	**101**	67-120	7	15	
Surrogate:											
DCB						*113*	*123*	*49-133*			

Date of Report: November 17, 2022
Samples Submitted: November 9, 2022
Laboratory Reference: 2211-139
Project: 397-066

TOTAL METALS
EPA 200.8

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FMW-139-110822**					
Laboratory ID:	11-139-01					
Arsenic	**ND**	3.0	EPA 200.8	11-15-22	11-15-22	
Barium	**72**	28	EPA 200.8	11-15-22	11-15-22	
Chromium	**ND**	10	EPA 200.8	11-15-22	11-15-22	
Lead	**ND**	1.1	EPA 200.8	11-15-22	11-15-22	
Client ID:	**B-37-9-110822**					
Laboratory ID:	11-139-02					
Arsenic	**16**	3.0	EPA 200.8	11-15-22	11-15-22	
Barium	**130**	28	EPA 200.8	11-15-22	11-15-22	
Chromium	**ND**	10	EPA 200.8	11-15-22	11-15-22	
Lead	**ND**	1.1	EPA 200.8	11-15-22	11-15-22	
Client ID:	**MW-54-110822**					
Laboratory ID:	11-139-03					
Arsenic	**ND**	3.0	EPA 200.8	11-15-22	11-15-22	
Barium	**74**	28	EPA 200.8	11-15-22	11-15-22	
Chromium	**ND**	10	EPA 200.8	11-15-22	11-15-22	
Lead	**ND**	1.1	EPA 200.8	11-15-22	11-15-22	
Client ID:	**MWR-6-110822**					
Laboratory ID:	11-139-04					
Arsenic	**4.6**	3.0	EPA 200.8	11-15-22	11-15-22	
Barium	**160**	28	EPA 200.8	11-15-22	11-15-22	
Chromium	**ND**	10	EPA 200.8	11-15-22	11-15-22	
Lead	**ND**	1.1	EPA 200.8	11-15-22	11-15-22	
Client ID:	**MW-45-110822**					
Laboratory ID:	11-139-05					
Arsenic	**ND**	3.0	EPA 200.8	11-15-22	11-15-22	
Barium	**69**	28	EPA 200.8	11-15-22	11-15-22	
Chromium	**ND**	10	EPA 200.8	11-15-22	11-15-22	
Lead	**ND**	1.1	EPA 200.8	11-15-22	11-15-22	

Date of Report: November 17, 2022
Samples Submitted: November 9, 2022
Laboratory Reference: 2211-139
Project: 397-066

TOTAL METALS
EPA 200.8

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FMW-131-110822**					
Laboratory ID:	11-139-06					
Arsenic	**84**	3.0	EPA 200.8	11-15-22	11-15-22	
Barium	**ND**	28	EPA 200.8	11-15-22	11-15-22	
Chromium	**ND**	10	EPA 200.8	11-15-22	11-15-22	
Lead	**1.2**	1.1	EPA 200.8	11-15-22	11-15-22	
Client ID:	**MWR-3-110822**					
Laboratory ID:	11-139-07					
Arsenic	**5.2**	3.0	EPA 200.8	11-15-22	11-15-22	
Barium	**57**	28	EPA 200.8	11-15-22	11-15-22	
Chromium	**ND**	10	EPA 200.8	11-15-22	11-15-22	
Lead	**ND**	1.1	EPA 200.8	11-15-22	11-15-22	
Client ID:	**PH-3-110822**					
Laboratory ID:	11-139-08					
Arsenic	**7.0**	3.0	EPA 200.8	11-15-22	11-15-22	
Barium	**110**	28	EPA 200.8	11-15-22	11-15-22	
Chromium	**ND**	10	EPA 200.8	11-15-22	11-15-22	
Lead	**ND**	1.1	EPA 200.8	11-15-22	11-15-22	
Client ID:	**B-37-5-110722**					
Laboratory ID:	11-139-09					
Arsenic	**12**	3.0	EPA 200.8	11-15-22	11-15-22	
Barium	**72**	28	EPA 200.8	11-15-22	11-15-22	
Chromium	**ND**	10	EPA 200.8	11-15-22	11-15-22	
Lead	**1.3**	1.1	EPA 200.8	11-15-22	11-15-22	
Client ID:	**B-37-6-110722**					
Laboratory ID:	11-139-10					
Arsenic	**ND**	3.0	EPA 200.8	11-15-22	11-15-22	
Barium	**86**	28	EPA 200.8	11-15-22	11-15-22	
Chromium	**ND**	10	EPA 200.8	11-15-22	11-15-22	
Lead	**ND**	1.1	EPA 200.8	11-15-22	11-15-22	

Date of Report: November 17, 2022
Samples Submitted: November 9, 2022
Laboratory Reference: 2211-139
Project: 397-066

TOTAL METALS
EPA 200.8

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**B-37-4-110722**					
Laboratory ID:	11-139-11					
Arsenic	**ND**	3.0	EPA 200.8	11-15-22	11-15-22	
Barium	**120**	28	EPA 200.8	11-15-22	11-15-22	
Chromium	**ND**	10	EPA 200.8	11-15-22	11-15-22	
Lead	**ND**	1.1	EPA 200.8	11-15-22	11-15-22	
Client ID:	**B-37-3-110722**					
Laboratory ID:	11-139-12					
Arsenic	**7.5**	3.0	EPA 200.8	11-15-22	11-15-22	
Barium	**110**	28	EPA 200.8	11-15-22	11-15-22	
Chromium	**ND**	10	EPA 200.8	11-15-22	11-15-22	
Lead	**ND**	1.1	EPA 200.8	11-15-22	11-15-22	

Date of Report: November 17, 2022
Samples Submitted: November 9, 2022
Laboratory Reference: 2211-139
Project: 397-066

TOTAL METALS
EPA 200.8
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1115WM1					
Arsenic	**ND**	3.0	EPA 200.8	11-15-22	11-15-22	
Barium	**ND**	28	EPA 200.8	11-15-22	11-15-22	
Chromium	**ND**	10	EPA 200.8	11-15-22	11-15-22	
Lead	**ND**	1.1	EPA 200.8	11-15-22	11-15-22	

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	11-090-02									
	ORIG	DUP								
Arsenic	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Barium	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Chromium	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Lead	**ND**	**ND**	NA	NA		NA	NA	NA	20	
MATRIX SPIKES										
Laboratory ID:	11-090-02									
	MS	MSD	MS	MSD		MS	MSD			
Arsenic	**103**	**104**	111	111	ND	**93**	**94**	75-125	1	20
Barium	**115**	**114**	111	111	13.6	**91**	**90**	75-125	1	20
Chromium	**99.1**	**99.1**	111	111	ND	**89**	**89**	75-125	0	20
Lead	**94.4**	**92.7**	111	111	ND	**85**	**84**	75-125	2	20

Date of Report: November 17, 2022
Samples Submitted: November 9, 2022
Laboratory Reference: 2211-139
Project: 397-066

DISSOLVED METALS
EPA 200.8

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FMW-139-110822**					
Laboratory ID:	11-139-01					
Arsenic	**ND**	3.0	EPA 200.8		11-15-22	
Barium	**69**	25	EPA 200.8		11-15-22	
Chromium	**ND**	10	EPA 200.8		11-15-22	
Lead	**ND**	1.0	EPA 200.8		11-15-22	
Client ID:	**B-37-9-110822**					
Laboratory ID:	11-139-02					
Arsenic	**12**	3.0	EPA 200.8		11-15-22	
Barium	**98**	25	EPA 200.8		11-15-22	
Chromium	**ND**	10	EPA 200.8		11-15-22	
Lead	**ND**	1.0	EPA 200.8		11-15-22	
Client ID:	**MW-54-110822**					
Laboratory ID:	11-139-03					
Arsenic	**ND**	3.0	EPA 200.8		11-15-22	
Barium	**67**	25	EPA 200.8		11-15-22	
Chromium	**ND**	10	EPA 200.8		11-15-22	
Lead	**ND**	1.0	EPA 200.8		11-15-22	
Client ID:	**MWR-6-110822**					
Laboratory ID:	11-139-04					
Arsenic	**3.9**	3.0	EPA 200.8		11-15-22	
Barium	**160**	25	EPA 200.8		11-15-22	
Chromium	**ND**	10	EPA 200.8		11-15-22	
Lead	**ND**	1.0	EPA 200.8		11-15-22	
Client ID:	**MW-45-110822**					
Laboratory ID:	11-139-05					
Arsenic	**ND**	3.0	EPA 200.8		11-15-22	
Barium	**63**	25	EPA 200.8		11-15-22	
Chromium	**ND**	10	EPA 200.8		11-15-22	
Lead	**ND**	1.0	EPA 200.8		11-15-22	

Date of Report: November 17, 2022
Samples Submitted: November 9, 2022
Laboratory Reference: 2211-139
Project: 397-066

DISSOLVED METALS
EPA 200.8

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**FMW-131-110822**					
Laboratory ID:	11-139-06					
Arsenic	**61**	3.0	EPA 200.8		11-15-22	
Barium	**ND**	25	EPA 200.8		11-15-22	
Chromium	**ND**	10	EPA 200.8		11-15-22	
Lead	**ND**	1.0	EPA 200.8		11-15-22	
Client ID:	**MWR-3-110822**					
Laboratory ID:	11-139-07					
Arsenic	**3.4**	3.0	EPA 200.8		11-15-22	
Barium	**43**	25	EPA 200.8		11-15-22	
Chromium	**ND**	10	EPA 200.8		11-15-22	
Lead	**ND**	1.0	EPA 200.8		11-15-22	
Client ID:	**PH-3-110822**					
Laboratory ID:	11-139-08					
Arsenic	**6.2**	3.0	EPA 200.8		11-15-22	
Barium	**96**	25	EPA 200.8		11-15-22	
Chromium	**ND**	10	EPA 200.8		11-15-22	
Lead	**ND**	1.0	EPA 200.8		11-15-22	
Client ID:	**B-37-5-110722**					
Laboratory ID:	11-139-09					
Arsenic	**12**	3.0	EPA 200.8		11-15-22	
Barium	**65**	25	EPA 200.8		11-15-22	
Chromium	**ND**	10	EPA 200.8		11-15-22	
Lead	**ND**	1.0	EPA 200.8		11-15-22	
Client ID:	**B-37-6-110722**					
Laboratory ID:	11-139-10					
Arsenic	**ND**	3.0	EPA 200.8		11-15-22	
Barium	**83**	25	EPA 200.8		11-15-22	
Chromium	**ND**	10	EPA 200.8		11-15-22	
Lead	**ND**	1.0	EPA 200.8		11-15-22	

Date of Report: November 17, 2022
Samples Submitted: November 9, 2022
Laboratory Reference: 2211-139
Project: 397-066

DISSOLVED METALS
EPA 200.8

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**B-37-4-110722**					
Laboratory ID:	11-139-11					
Arsenic	**ND**	3.0	EPA 200.8		11-15-22	
Barium	**110**	25	EPA 200.8		11-15-22	
Chromium	**ND**	10	EPA 200.8		11-15-22	
Lead	**ND**	1.0	EPA 200.8		11-15-22	
Client ID:	**B-37-3-110722**					
Laboratory ID:	11-139-12					
Arsenic	**8.4**	3.0	EPA 200.8		11-15-22	
Barium	**120**	25	EPA 200.8		11-15-22	
Chromium	**ND**	10	EPA 200.8		11-15-22	
Lead	**ND**	1.0	EPA 200.8		11-15-22	

Date of Report: November 17, 2022
Samples Submitted: November 9, 2022
Laboratory Reference: 2211-139
Project: 397-066

DISSOLVED METALS
EPA 200.8
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1115D1					
Arsenic	**ND**	3.0	EPA 200.8		11-15-22	
Barium	**ND**	25	EPA 200.8		11-15-22	
Chromium	**ND**	10	EPA 200.8		11-15-22	
Lead	**ND**	1.0	EPA 200.8		11-15-22	

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	11-139-03									
	ORIG	DUP								
Arsenic	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Barium	**66.8**	**71.0**	NA	NA		NA	NA	6	20	
Chromium	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Lead	**ND**	**ND**	NA	NA		NA	NA	NA	20	
MATRIX SPIKES										
Laboratory ID:	11-139-03									
	MS	MSD	MS	MSD		MS	MSD			
Arsenic	**85.6**	**81.0**	80.0	80.0	ND	**107**	**101**	75-125	6	20
Barium	**155**	**151**	80.0	80.0	66.8	**111**	**105**	75-125	3	20
Chromium	**75.2**	**72.0**	80.0	80.0	ND	**94**	**90**	75-125	4	20
Lead	**69.4**	**66.0**	80.0	80.0	ND	**87**	**83**	75-125	5	20

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

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

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Farallon Consulting
Project Number: 397-066
Project Name: Block 37
Project Manager: Branislav Jurista
Sampled by: Michael Ysaguirre / Angie Osman

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☒ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 11-139

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX 8260	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up) +210-236	Volatiles 8260D	Halogenated Volatiles 8260D	EDB EPA 8011 (Waters Only)	Semivolatiles 8270E/SIM (with low-level PAHs)	PAHs 8270E/SIM (low-level) Carcinogenic+Naphthalene	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270E/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	As, Ba, Cr, Pb Total + Dissolved				% Moisture
1	FMW-139-110822	11/8/22	1150	GW	11		X		X					X									X				
2	B-37-9-110822	"	1040	"	"		X		X					X									X				
3	MW-54-110822	"	1202	"	"		X		X					X									X				
4	MWR-6-110822	"	1015	"	"		X		X					X									X				
5	MW-45-110822	"	1350	"	"		X		X					X									X				
6	FMW-131-110822	"	1408	"	"		X		X					X									X				
7	MWR-3-110822	"	1515	"	13		X		X					X	X								X				
8	PH-3-110822	"	1527	"	1		X		X					X	X								X				
9	B-37-5-[redacted]110722	11/7/22	1557	GW	11		X		X					X									X				
10	B-37-6-[redacted]110722	"	1051	"	1		X		X					X									X				

	Signature	Company	Date	Time
Relinquished	[signature]	FLN	11/8/22	1731
Received	[signature]	Spkn	11/9/22	1200
Relinquished	[signature]	Spkn	11/9/22	1300
Received	[signature]	ONE	11/9/22	1300
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Farallon Consulting
Project Number: 397-066
Project Name: Block 37
Project Manager: Branislav Jurista
Sampled by: Michael Ysaguirre/Angie osman

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☒ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 11-139

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX 8260	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up) + C10 - C36	Volatiles 8260D	Halogenated Volatiles 8260D	EDB EPA 8011 (Waters Only)	Semivolatiles 8270E/SIM (with low-level PAHs)	PAHs 8270E/SIM (low-level) Carcinogenic + Naphthalene	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270E/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	As, Ba, Cr, Pb Total + Dissolved				% Moisture
11	B-37-4-110722	11/7/22	1330	GW	11		X		X					X									X				
12	B-37-3-110722	11/7/22	1426	GW	13		X		X					X	X								X				

	Signature	Company	Date	Time
Relinquished		FLN	11/8/22	1731
Received		Spdy	11/9/22	1200
Relinquished		Spdy	11/9/22	1300
Received		OSE	11/9/22	1350
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

November 17, 2022

Brani Jurista
Farallon Consulting
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 397-066
Laboratory Reference No. 2211-159

Dear Brani:

Enclosed are the analytical results and associated quality control data for samples submitted on November 10, 2022.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

Date of Report: November 17, 2022
Samples Submitted: November 10, 2022
Laboratory Reference: 2211-159
Project: 397-066

Case Narrative

Samples were collected on November 9, 2022 and received by the laboratory on November 10, 2022. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: November 17, 2022
Samples Submitted: November 10, 2022
Laboratory Reference: 2211-159
Project: 397-066

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**B-37-7-110922**					
Laboratory ID:	11-159-01					
Gasoline	**ND**	100	NWTPH-Gx	11-14-22	11-14-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*100*	*65-122*				
Client ID:	**B-37-8-110922**					
Laboratory ID:	11-159-02					
Gasoline	**ND**	100	NWTPH-Gx	11-14-22	11-14-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*102*	*65-122*				
Client ID:	**MW-50-110922**					
Laboratory ID:	11-159-03					
Gasoline	**ND**	100	NWTPH-Gx	11-14-22	11-14-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*102*	*65-122*				
Client ID:	**PH-2-110922**					
Laboratory ID:	11-159-04					
Gasoline	**ND**	100	NWTPH-Gx	11-14-22	11-14-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*102*	*65-122*				
Client ID:	**PH-1-110922**					
Laboratory ID:	11-159-05					
Gasoline	**ND**	100	NWTPH-Gx	11-14-22	11-14-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*102*	*65-122*				
Client ID:	**B-37-1-110922**					
Laboratory ID:	11-159-06					
Gasoline	**ND**	100	NWTPH-Gx	11-14-22	11-14-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*101*	*65-122*				
Client ID:	**B-37-2-110922**					
Laboratory ID:	11-159-07					
Gasoline	**ND**	100	NWTPH-Gx	11-14-22	11-14-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*103*	*65-122*				

Date of Report: November 17, 2022
Samples Submitted: November 10, 2022
Laboratory Reference: 2211-159
Project: 397-066

GASOLINE RANGE ORGANICS
NWTPH-Gx
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1114W1					
Gasoline	**ND**	100	NWTPH-Gx	11-14-22	11-14-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*102*	*65-122*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	11-158-15										
	ORIG	DUP									
Gasoline	**4010**	**3690**	NA	NA		NA		NA	8	30	
Surrogate:											
Fluorobenzene						*114*	*111*	*65-122*			

Date of Report: November 17, 2022
Samples Submitted: November 10, 2022
Laboratory Reference: 2211-159
Project: 397-066

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Water
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**B-37-7-110922**					
Laboratory ID:	11-159-01					
Diesel Range Organics	**0.14**	0.12	NWTPH-Dx	11-14-22	11-16-22	
Lube Oil Range Organics	**ND**	0.20	NWTPH-Dx	11-14-22	11-16-22	
DRO/LRO C10-C36	**ND**	0.25	NWTPH-Dx	11-14-22	11-16-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*103*	*50-150*				
Client ID:	**B-37-8-110922**					
Laboratory ID:	11-159-02					
Diesel Range Organics	**0.14**	0.12	NWTPH-Dx	11-14-22	11-16-22	
Lube Oil Range Organics	**ND**	0.20	NWTPH-Dx	11-14-22	11-16-22	
DRO/LRO C10-C36	**ND**	0.25	NWTPH-Dx	11-14-22	11-16-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*97*	*50-150*				
Client ID:	**MW-50-110922**					
Laboratory ID:	11-159-03					
Diesel Range Organics	**0.44**	0.13	NWTPH-Dx	11-14-22	11-16-22	
Lube Oil Range Organics	**0.40**	0.20	NWTPH-Dx	11-14-22	11-16-22	
DRO/LRO C10-C36	**0.65**	0.25	NWTPH-Dx	11-14-22	11-16-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*103*	*50-150*				
Client ID:	**PH-2-110922**					
Laboratory ID:	11-159-04					
Diesel Range Organics	**0.18**	0.13	NWTPH-Dx	11-14-22	11-16-22	
Lube Oil Range Organics	**0.29**	0.20	NWTPH-Dx	11-14-22	11-16-22	
DRO/LRO C10-C36	**0.34**	0.25	NWTPH-Dx	11-14-22	11-16-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*101*	*50-150*				
Client ID:	**PH-1-110922**					
Laboratory ID:	11-159-05					
Diesel Range Organics	**0.14**	0.13	NWTPH-Dx	11-14-22	11-16-22	
Lube Oil Range Organics	**0.22**	0.20	NWTPH-Dx	11-14-22	11-16-22	
DRO/LRO C10-C36	**0.26**	0.25	NWTPH-Dx	11-14-22	11-16-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*102*	*50-150*				

Date of Report: November 17, 2022
Samples Submitted: November 10, 2022
Laboratory Reference: 2211-159
Project: 397-066

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Water
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**B-37-1-110922**					
Laboratory ID:	11-159-06					
Diesel Range Organics	**0.29**	0.13	NWTPH-Dx	11-14-22	11-16-22	
Lube Oil Range Organics	**0.39**	0.20	NWTPH-Dx	11-14-22	11-16-22	
DRO/LRO C10-C36	**0.50**	0.25	NWTPH-Dx	11-14-22	11-16-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*104*	*50-150*				
Client ID:	**B-37-2-110922**					
Laboratory ID:	11-159-07					
Diesel Range Organics	**0.14**	0.13	NWTPH-Dx	11-14-22	11-16-22	
Lube Oil Range Organics	**0.23**	0.20	NWTPH-Dx	11-14-22	11-16-22	
DRO/LRO C10-C36	**0.27**	0.25	NWTPH-Dx	11-14-22	11-16-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*98*	*50-150*				

Date of Report: November 17, 2022
Samples Submitted: November 10, 2022
Laboratory Reference: 2211-159
Project: 397-066

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx
QUALITY CONTROL

Matrix: Water
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1114W1					
Diesel Range Organics	**ND**	0.10	NWTPH-Dx	11-14-22	11-14-22	
Lube Oil Range Organics	**ND**	0.16	NWTPH-Dx	11-14-22	11-14-22	
DRO/LRO C10-C36	**ND**	0.20	NWTPH-Dx	11-14-22	11-14-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*91*	*50-150*				

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	11-091-01									
	ORIG	DUP								
Diesel Range	**ND**	**ND**	NA	NA		NA	NA	NA	NA	
Lube Oil Range	**ND**	**ND**	NA	NA		NA	NA	NA	NA	
DRO/LRO C10-C36	**ND**	**ND**	NA	NA		NA	NA	NA	NA	
Surrogate:										
o-Terphenyl						*100*	*90*	*50-150*		

Date of Report: November 17, 2022
Samples Submitted: November 10, 2022
Laboratory Reference: 2211-159
Project: 397-066

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**B-37-7-110922**					
Laboratory ID:	11-159-01					
Benzene	ND	0.20	EPA 8260D	11-14-22	11-14-22	
Toluene	ND	1.0	EPA 8260D	11-14-22	11-14-22	
Ethylbenzene	ND	0.20	EPA 8260D	11-14-22	11-14-22	
m,p-Xylene	ND	0.40	EPA 8260D	11-14-22	11-14-22	
o-Xylene	ND	0.20	EPA 8260D	11-14-22	11-14-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*106*	*75-127*				
Toluene-d8	*102*	*80-127*				
4-Bromofluorobenzene	*100*	*78-125*				
Client ID:	**B-37-8-110922**					
Laboratory ID:	11-159-02					
Benzene	ND	0.20	EPA 8260D	11-14-22	11-14-22	
Toluene	ND	1.0	EPA 8260D	11-14-22	11-14-22	
Ethylbenzene	ND	0.20	EPA 8260D	11-14-22	11-14-22	
m,p-Xylene	ND	0.40	EPA 8260D	11-14-22	11-14-22	
o-Xylene	ND	0.20	EPA 8260D	11-14-22	11-14-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*110*	*75-127*				
Toluene-d8	*105*	*80-127*				
4-Bromofluorobenzene	*104*	*78-125*				
Client ID:	**MW-50-110922**					
Laboratory ID:	11-159-03					
Benzene	ND	0.20	EPA 8260D	11-14-22	11-14-22	
Toluene	ND	1.0	EPA 8260D	11-14-22	11-14-22	
Ethylbenzene	ND	0.20	EPA 8260D	11-14-22	11-14-22	
m,p-Xylene	ND	0.40	EPA 8260D	11-14-22	11-14-22	
o-Xylene	ND	0.20	EPA 8260D	11-14-22	11-14-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*106*	*75-127*				
Toluene-d8	*102*	*80-127*				
4-Bromofluorobenzene	*102*	*78-125*				

Date of Report: November 17, 2022
Samples Submitted: November 10, 2022
Laboratory Reference: 2211-159
Project: 397-066

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**PH-2-110922**					
Laboratory ID:	11-159-04					
Benzene	0.43	0.20	EPA 8260D	11-14-22	11-14-22	
Toluene	ND	1.0	EPA 8260D	11-14-22	11-14-22	
Ethylbenzene	ND	0.20	EPA 8260D	11-14-22	11-14-22	
m,p-Xylene	ND	0.40	EPA 8260D	11-14-22	11-14-22	
o-Xylene	ND	0.20	EPA 8260D	11-14-22	11-14-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*103*	*75-127*				
Toluene-d8	*101*	*80-127*				
4-Bromofluorobenzene	*100*	*78-125*				
Client ID:	**PH-1-110922**					
Laboratory ID:	11-159-05					
Benzene	ND	0.20	EPA 8260D	11-14-22	11-14-22	
Toluene	ND	1.0	EPA 8260D	11-14-22	11-14-22	
Ethylbenzene	ND	0.20	EPA 8260D	11-14-22	11-14-22	
m,p-Xylene	ND	0.40	EPA 8260D	11-14-22	11-14-22	
o-Xylene	ND	0.20	EPA 8260D	11-14-22	11-14-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*107*	*75-127*				
Toluene-d8	*103*	*80-127*				
4-Bromofluorobenzene	*102*	*78-125*				
Client ID:	**B-37-1-110922**					
Laboratory ID:	11-159-06					
Benzene	ND	0.20	EPA 8260D	11-14-22	11-14-22	
Toluene	ND	1.0	EPA 8260D	11-14-22	11-14-22	
Ethylbenzene	ND	0.20	EPA 8260D	11-14-22	11-14-22	
m,p-Xylene	ND	0.40	EPA 8260D	11-14-22	11-14-22	
o-Xylene	ND	0.20	EPA 8260D	11-14-22	11-14-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*105*	*75-127*				
Toluene-d8	*102*	*80-127*				
4-Bromofluorobenzene	*101*	*78-125*				

Date of Report: November 17, 2022
Samples Submitted: November 10, 2022
Laboratory Reference: 2211-159
Project: 397-066

VOLATILE ORGANICS EPA 8260D

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**B-37-2-110922**					
Laboratory ID:	11-159-07					
Benzene	2.0	0.20	EPA 8260D	11-14-22	11-14-22	
Toluene	ND	1.0	EPA 8260D	11-14-22	11-14-22	
Ethylbenzene	ND	0.20	EPA 8260D	11-14-22	11-14-22	
m,p-Xylene	ND	0.40	EPA 8260D	11-14-22	11-14-22	
o-Xylene	ND	0.20	EPA 8260D	11-14-22	11-14-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*107*	*75-127*				
Toluene-d8	*103*	*80-127*				
4-Bromofluorobenzene	*101*	*78-125*				

Date of Report: November 17, 2022
Samples Submitted: November 10, 2022
Laboratory Reference: 2211-159
Project: 397-066

VOLATILE ORGANICS EPA 8260D
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1114W1					
Benzene	ND	0.20	EPA 8260D	11-14-22	11-14-22	
Toluene	ND	1.0	EPA 8260D	11-14-22	11-14-22	
Ethylbenzene	ND	0.20	EPA 8260D	11-14-22	11-14-22	
m,p-Xylene	ND	0.40	EPA 8260D	11-14-22	11-14-22	
o-Xylene	ND	0.20	EPA 8260D	11-14-22	11-14-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*107*	*75-127*				
Toluene-d8	*103*	*80-127*				
4-Bromofluorobenzene	*102*	*78-125*				

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1114W1									
	SB	SBD	SB	SBD	SB	SBD				
Benzene	**10.1**	**10.2**	10.0	10.0	101	102	80-121	1	16	
Toluene	**9.72**	**9.78**	10.0	10.0	97	98	80-120	1	18	
Ethylbenzene	**10.3**	**10.2**	10.0	10.0	103	102	80-125	1	18	
m,p-Xylene	**21.1**	**20.8**	20.0	20.0	106	104	80-127	1	18	
o-Xylene	**10.5**	**10.4**	10.0	10.0	105	104	80-126	1	18	
Surrogate:										
Dibromofluoromethane					*104*	*107*	*75-127*			
Toluene-d8					*103*	*104*	*80-127*			
4-Bromofluorobenzene					*105*	*105*	*78-125*			

Date of Report: November 17, 2022
Samples Submitted: November 10, 2022
Laboratory Reference: 2211-159
Project: 397-066

PAHs EPA 8270E/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**B-37-7-110922**					
Laboratory ID:	11-159-01					
Naphthalene	**ND**	0.095	EPA 8270E/SIM	11-11-22	11-11-22	
Benzo[a]anthracene	**ND**	0.0095	EPA 8270E/SIM	11-11-22	11-11-22	
Chrysene	**ND**	0.0095	EPA 8270E/SIM	11-11-22	11-11-22	
Benzo[b]fluoranthene	**ND**	0.0095	EPA 8270E/SIM	11-11-22	11-11-22	
Benzo(j,k)fluoranthene	**ND**	0.0095	EPA 8270E/SIM	11-11-22	11-11-22	
Benzo[a]pyrene	**ND**	0.0095	EPA 8270E/SIM	11-11-22	11-11-22	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0095	EPA 8270E/SIM	11-11-22	11-11-22	
Dibenz[a,h]anthracene	**ND**	0.0095	EPA 8270E/SIM	11-11-22	11-11-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*62*	*20 - 106*				
Pyrene-d10	*74*	*19 - 104*				
Terphenyl-d14	*76*	*41 - 127*				
Client ID:	**B-37-8-110922**					
Laboratory ID:	11-159-02					
Naphthalene	**ND**	0.095	EPA 8270E/SIM	11-11-22	11-11-22	
Benzo[a]anthracene	**ND**	0.0095	EPA 8270E/SIM	11-11-22	11-11-22	
Chrysene	**ND**	0.0095	EPA 8270E/SIM	11-11-22	11-11-22	
Benzo[b]fluoranthene	**ND**	0.0095	EPA 8270E/SIM	11-11-22	11-11-22	
Benzo(j,k)fluoranthene	**ND**	0.0095	EPA 8270E/SIM	11-11-22	11-11-22	
Benzo[a]pyrene	**ND**	0.0095	EPA 8270E/SIM	11-11-22	11-11-22	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0095	EPA 8270E/SIM	11-11-22	11-11-22	
Dibenz[a,h]anthracene	**ND**	0.0095	EPA 8270E/SIM	11-11-22	11-11-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*71*	*20 - 106*				
Pyrene-d10	*79*	*19 - 104*				
Terphenyl-d14	*81*	*41 - 127*				

Date of Report: November 17, 2022
Samples Submitted: November 10, 2022
Laboratory Reference: 2211-159
Project: 397-066

PAHs EPA 8270E/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**MW-50-110922**					
Laboratory ID:	11-159-03					
Naphthalene	**12**	0.48	EPA 8270E/SIM	11-11-22	11-15-22	
Benzo[a]anthracene	**0.014**	0.0096	EPA 8270E/SIM	11-11-22	11-11-22	
Chrysene	**0.016**	0.0096	EPA 8270E/SIM	11-11-22	11-11-22	
Benzo[b]fluoranthene	**ND**	0.0096	EPA 8270E/SIM	11-11-22	11-11-22	
Benzo(j,k)fluoranthene	**ND**	0.0096	EPA 8270E/SIM	11-11-22	11-11-22	
Benzo[a]pyrene	**ND**	0.0096	EPA 8270E/SIM	11-11-22	11-11-22	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0096	EPA 8270E/SIM	11-11-22	11-11-22	
Dibenz[a,h]anthracene	**ND**	0.0096	EPA 8270E/SIM	11-11-22	11-11-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*63*	*20 - 106*				
Pyrene-d10	*76*	*19 - 104*				
Terphenyl-d14	*79*	*41 - 127*				
Client ID:	**PH-2-110922**					
Laboratory ID:	11-159-04					
Naphthalene	**ND**	0.096	EPA 8270E/SIM	11-11-22	11-11-22	
Benzo[a]anthracene	**ND**	0.0096	EPA 8270E/SIM	11-11-22	11-11-22	
Chrysene	**ND**	0.0096	EPA 8270E/SIM	11-11-22	11-11-22	
Benzo[b]fluoranthene	**ND**	0.0096	EPA 8270E/SIM	11-11-22	11-11-22	
Benzo(j,k)fluoranthene	**ND**	0.0096	EPA 8270E/SIM	11-11-22	11-11-22	
Benzo[a]pyrene	**ND**	0.0096	EPA 8270E/SIM	11-11-22	11-11-22	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0096	EPA 8270E/SIM	11-11-22	11-11-22	
Dibenz[a,h]anthracene	**ND**	0.0096	EPA 8270E/SIM	11-11-22	11-11-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*53*	*20 - 106*				
Pyrene-d10	*74*	*19 - 104*				
Terphenyl-d14	*67*	*41 - 127*				

Date of Report: November 17, 2022
Samples Submitted: November 10, 2022
Laboratory Reference: 2211-159
Project: 397-066

PAHs EPA 8270E/SIM

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**PH-1-110922**					
Laboratory ID:	11-159-05					
Naphthalene	**ND**	0.095	EPA 8270E/SIM	11-11-22	11-11-22	
Benzo[a]anthracene	**ND**	0.0095	EPA 8270E/SIM	11-11-22	11-11-22	
Chrysene	**ND**	0.0095	EPA 8270E/SIM	11-11-22	11-11-22	
Benzo[b]fluoranthene	**ND**	0.0095	EPA 8270E/SIM	11-11-22	11-11-22	
Benzo(j,k)fluoranthene	**ND**	0.0095	EPA 8270E/SIM	11-11-22	11-11-22	
Benzo[a]pyrene	**ND**	0.0095	EPA 8270E/SIM	11-11-22	11-11-22	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0095	EPA 8270E/SIM	11-11-22	11-11-22	
Dibenz[a,h]anthracene	**ND**	0.0095	EPA 8270E/SIM	11-11-22	11-11-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*55*	*20 - 106*				
Pyrene-d10	*72*	*19 - 104*				
Terphenyl-d14	*68*	*41 - 127*				
Client ID:	**B-37-1-110922**					
Laboratory ID:	11-159-06					
Naphthalene	**ND**	0.096	EPA 8270E/SIM	11-11-22	11-11-22	
Benzo[a]anthracene	**ND**	0.0096	EPA 8270E/SIM	11-11-22	11-11-22	
Chrysene	**ND**	0.0096	EPA 8270E/SIM	11-11-22	11-11-22	
Benzo[b]fluoranthene	**ND**	0.0096	EPA 8270E/SIM	11-11-22	11-11-22	
Benzo(j,k)fluoranthene	**ND**	0.0096	EPA 8270E/SIM	11-11-22	11-11-22	
Benzo[a]pyrene	**ND**	0.0096	EPA 8270E/SIM	11-11-22	11-11-22	
Indeno(1,2,3-c,d)pyrene	**ND**	0.0096	EPA 8270E/SIM	11-11-22	11-11-22	
Dibenz[a,h]anthracene	**ND**	0.0096	EPA 8270E/SIM	11-11-22	11-11-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*55*	*20 - 106*				
Pyrene-d10	*79*	*19 - 104*				
Terphenyl-d14	*77*	*41 - 127*				
Client ID:	**B-37-2-110922**					
Laboratory ID:	11-159-07					
Naphthalene	**ND**	0.095	EPA 8270E/SIM	11-11-22	11-11-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*53*	*20 - 106*				
Pyrene-d10	*65*	*19 - 104*				
Terphenyl-d14	*62*	*41 - 127*				

Date of Report: November 17, 2022
Samples Submitted: November 10, 2022
Laboratory Reference: 2211-159
Project: 397-066

PAHs EPA 8270E/SIM
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1111W1					
Naphthalene	**ND**	0.10	EPA 8270E/SIM	11-11-22	11-11-22	
Benzo[a]anthracene	**ND**	0.010	EPA 8270E/SIM	11-11-22	11-11-22	
Chrysene	**ND**	0.010	EPA 8270E/SIM	11-11-22	11-11-22	
Benzo[b]fluoranthene	**ND**	0.010	EPA 8270E/SIM	11-11-22	11-11-22	
Benzo(j,k)fluoranthene	**ND**	0.010	EPA 8270E/SIM	11-11-22	11-11-22	
Benzo[a]pyrene	**ND**	0.010	EPA 8270E/SIM	11-11-22	11-11-22	
Indeno(1,2,3-c,d)pyrene	**ND**	0.010	EPA 8270E/SIM	11-11-22	11-11-22	
Dibenz[a,h]anthracene	**ND**	0.010	EPA 8270E/SIM	11-11-22	11-11-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorobiphenyl	*64*	*20 - 106*				
Pyrene-d10	*84*	*19 - 104*				
Terphenyl-d14	*79*	*41 - 127*				

Date of Report: November 17, 2022
Samples Submitted: November 10, 2022
Laboratory Reference: 2211-159
Project: 397-066

PAHs EPA 8270E/SIM
QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1111W1 DUP									
	SB	SBD	SB	SBD	SB	SBD				
Naphthalene	**0.291**	**0.339**	0.500	0.500	58	68	25 - 82	15	39	
Acenaphthylene	**0.344**	**0.352**	0.500	0.500	69	70	35 - 107	2	26	
Acenaphthene	**0.341**	**0.341**	0.500	0.500	68	68	33 - 99	0	26	
Fluorene	**0.398**	**0.399**	0.500	0.500	80	80	43 - 95	0	24	
Phenanthrene	**0.406**	**0.429**	0.500	0.500	81	86	49 - 100	6	20	
Anthracene	**0.400**	**0.403**	0.500	0.500	80	81	47 - 101	1	21	
Fluoranthene	**0.439**	**0.418**	0.500	0.500	88	84	51 - 115	5	23	
Pyrene	**0.432**	**0.417**	0.500	0.500	86	83	53 - 117	4	24	
Benzo[a]anthracene	**0.394**	**0.386**	0.500	0.500	79	77	57 - 114	2	21	
Chrysene	**0.450**	**0.432**	0.500	0.500	90	86	55 - 119	4	21	
Benzo[b]fluoranthene	**0.459**	**0.456**	0.500	0.500	92	91	56 - 125	1	26	
Benzo(j,k)fluoranthene	**0.431**	**0.408**	0.500	0.500	86	82	53 - 124	5	22	
Benzo[a]pyrene	**0.399**	**0.390**	0.500	0.500	80	78	54 - 119	2	22	
Indeno(1,2,3-c,d)pyrene	**0.468**	**0.455**	0.500	0.500	94	91	55 - 118	3	23	
Dibenz[a,h]anthracene	**0.392**	**0.387**	0.500	0.500	78	77	56 - 118	1	23	
Benzo[g,h,i]perylene	**0.420**	**0.402**	0.500	0.500	84	80	55 - 117	4	22	
Surrogate:										
2-Fluorobiphenyl					*59*	*68*	*20 - 106*			
Pyrene-d10					*80*	*78*	*19 - 104*			
Terphenyl-d14					*83*	*86*	*41 - 127*			

Date of Report: November 17, 2022
Samples Submitted: November 10, 2022
Laboratory Reference: 2211-159
Project: 397-066

PCBs EPA 8082A

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**PH-2-110922**					
Laboratory ID:	11-159-04					
Aroclor 1016	**ND**	0.019	EPA 8082A	11-16-22	11-16-22	
Aroclor 1221	**ND**	0.019	EPA 8082A	11-16-22	11-16-22	
Aroclor 1232	**ND**	0.019	EPA 8082A	11-16-22	11-16-22	
Aroclor 1242	**ND**	0.019	EPA 8082A	11-16-22	11-16-22	
Aroclor 1248	**ND**	0.019	EPA 8082A	11-16-22	11-16-22	
Aroclor 1254	**ND**	0.019	EPA 8082A	11-16-22	11-16-22	
Aroclor 1260	**ND**	0.019	EPA 8082A	11-16-22	11-16-22	
Aroclor 1262	**ND**	0.019	EPA 8082A	11-16-22	11-16-22	
Aroclor 1268	**ND**	0.019	EPA 8082A	11-16-22	11-16-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*88*	*49-133*				
Client ID:	**PH-1-110922**					
Laboratory ID:	11-159-05					
Aroclor 1016	**ND**	0.019	EPA 8082A	11-16-22	11-16-22	
Aroclor 1221	**ND**	0.019	EPA 8082A	11-16-22	11-16-22	
Aroclor 1232	**ND**	0.019	EPA 8082A	11-16-22	11-16-22	
Aroclor 1242	**ND**	0.019	EPA 8082A	11-16-22	11-16-22	
Aroclor 1248	**ND**	0.019	EPA 8082A	11-16-22	11-16-22	
Aroclor 1254	**ND**	0.019	EPA 8082A	11-16-22	11-16-22	
Aroclor 1260	**ND**	0.019	EPA 8082A	11-16-22	11-16-22	
Aroclor 1262	**ND**	0.019	EPA 8082A	11-16-22	11-16-22	
Aroclor 1268	**ND**	0.019	EPA 8082A	11-16-22	11-16-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*92*	*49-133*				
Client ID:	**B-37-1-110922**					
Laboratory ID:	11-159-06					
Aroclor 1016	**ND**	0.019	EPA 8082A	11-16-22	11-16-22	
Aroclor 1221	**ND**	0.019	EPA 8082A	11-16-22	11-16-22	
Aroclor 1232	**ND**	0.019	EPA 8082A	11-16-22	11-16-22	
Aroclor 1242	**ND**	0.019	EPA 8082A	11-16-22	11-16-22	
Aroclor 1248	**ND**	0.019	EPA 8082A	11-16-22	11-16-22	
Aroclor 1254	**ND**	0.019	EPA 8082A	11-16-22	11-16-22	
Aroclor 1260	**ND**	0.019	EPA 8082A	11-16-22	11-16-22	
Aroclor 1262	**ND**	0.019	EPA 8082A	11-16-22	11-16-22	
Aroclor 1268	**ND**	0.019	EPA 8082A	11-16-22	11-16-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*88*	*49-133*				

Date of Report: November 17, 2022
Samples Submitted: November 10, 2022
Laboratory Reference: 2211-159
Project: 397-066

PCBs EPA 8082A
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1116W1					
Aroclor 1016	**ND**	0.020	EPA 8082A	11-16-22	11-16-22	
Aroclor 1221	**ND**	0.020	EPA 8082A	11-16-22	11-16-22	
Aroclor 1232	**ND**	0.020	EPA 8082A	11-16-22	11-16-22	
Aroclor 1242	**ND**	0.020	EPA 8082A	11-16-22	11-16-22	
Aroclor 1248	**ND**	0.020	EPA 8082A	11-16-22	11-16-22	
Aroclor 1254	**ND**	0.020	EPA 8082A	11-16-22	11-16-22	
Aroclor 1260	**ND**	0.020	EPA 8082A	11-16-22	11-16-22	
Aroclor 1262	**ND**	0.020	EPA 8082A	11-16-22	11-16-22	
Aroclor 1268	**ND**	0.020	EPA 8082A	11-16-22	11-16-22	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*104*	*49-133*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB1116W1										
	SB	SBD	SB	SBD		SB	SBD				
Aroclor 1260	**0.496**	**0.488**	0.500	0.500	N/A	**99**	**98**	67-120	2	15	
Surrogate:											
DCB						*99*	*100*	*49-133*			

Date of Report: November 17, 2022
Samples Submitted: November 10, 2022
Laboratory Reference: 2211-159
Project: 397-066

TOTAL METALS
EPA 200.8

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**B-37-7-110922**					
Laboratory ID:	11-159-01					
Arsenic	**ND**	3.0	EPA 200.8	11-15-22	11-15-22	
Barium	**130**	28	EPA 200.8	11-15-22	11-15-22	
Chromium	**ND**	10	EPA 200.8	11-15-22	11-15-22	
Lead	**ND**	1.1	EPA 200.8	11-15-22	11-15-22	
Client ID:	**B-37-8-110922**					
Laboratory ID:	11-159-02					
Arsenic	**7.0**	3.0	EPA 200.8	11-15-22	11-15-22	
Barium	**100**	28	EPA 200.8	11-15-22	11-15-22	
Chromium	**ND**	10	EPA 200.8	11-15-22	11-15-22	
Lead	**ND**	1.1	EPA 200.8	11-15-22	11-15-22	
Client ID:	**MW-50-110922**					
Laboratory ID:	11-159-03					
Arsenic	**21**	3.0	EPA 200.8	11-15-22	11-15-22	
Barium	**66**	28	EPA 200.8	11-15-22	11-15-22	
Chromium	**ND**	10	EPA 200.8	11-15-22	11-15-22	
Lead	**ND**	1.1	EPA 200.8	11-15-22	11-15-22	
Client ID:	**PH-2-110922**					
Laboratory ID:	11-159-04					
Arsenic	**12**	3.0	EPA 200.8	11-15-22	11-15-22	
Barium	**100**	28	EPA 200.8	11-15-22	11-15-22	
Chromium	**ND**	10	EPA 200.8	11-15-22	11-15-22	
Lead	**ND**	1.1	EPA 200.8	11-15-22	11-15-22	
Client ID:	**PH-1-110922**					
Laboratory ID:	11-159-05					
Arsenic	**3.9**	3.0	EPA 200.8	11-15-22	11-15-22	
Barium	**150**	28	EPA 200.8	11-15-22	11-15-22	
Chromium	**ND**	10	EPA 200.8	11-15-22	11-15-22	
Lead	**ND**	1.1	EPA 200.8	11-15-22	11-15-22	

Date of Report: November 17, 2022
Samples Submitted: November 10, 2022
Laboratory Reference: 2211-159
Project: 397-066

TOTAL METALS
EPA 200.8

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**B-37-1-110922**					
Laboratory ID:	11-159-06					
Arsenic	**ND**	3.0	EPA 200.8	11-15-22	11-15-22	
Barium	**130**	28	EPA 200.8	11-15-22	11-15-22	
Chromium	**ND**	10	EPA 200.8	11-15-22	11-15-22	
Lead	**ND**	1.1	EPA 200.8	11-15-22	11-15-22	

Date of Report: November 17, 2022
Samples Submitted: November 10, 2022
Laboratory Reference: 2211-159
Project: 397-066

TOTAL METALS
EPA 200.8
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1115WM1					
Arsenic	**ND**	3.0	EPA 200.8	11-15-22	11-15-22	
Barium	**ND**	28	EPA 200.8	11-15-22	11-15-22	
Chromium	**ND**	10	EPA 200.8	11-15-22	11-15-22	
Lead	**ND**	1.1	EPA 200.8	11-15-22	11-15-22	

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	11-090-02									
	ORIG	DUP								
Arsenic	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Barium	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Chromium	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Lead	**ND**	**ND**	NA	NA		NA	NA	NA	20	
MATRIX SPIKES										
Laboratory ID:	11-090-02									
	MS	MSD	MS	MSD		MS	MSD			
Arsenic	**103**	**104**	111	111	ND	**93**	**94**	75-125	1	20
Barium	**115**	**114**	111	111	13.6	**91**	**90**	75-125	1	20
Chromium	**99.1**	**99.1**	111	111	ND	**89**	**89**	75-125	0	20
Lead	**94.4**	**92.7**	111	111	ND	**85**	**84**	75-125	2	20

Date of Report: November 17, 2022
Samples Submitted: November 10, 2022
Laboratory Reference: 2211-159
Project: 397-066

DISSOLVED METALS
EPA 200.8

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**B-37-7-110922**					
Laboratory ID:	11-159-01					
Arsenic	**ND**	3.0	EPA 200.8		11-15-22	
Barium	**140**	25	EPA 200.8		11-15-22	
Chromium	**ND**	10	EPA 200.8		11-15-22	
Lead	**ND**	1.0	EPA 200.8		11-15-22	
Client ID:	**B-37-8-110922**					
Laboratory ID:	11-159-02					
Arsenic	**5.2**	3.0	EPA 200.8		11-15-22	
Barium	**85**	25	EPA 200.8		11-15-22	
Chromium	**ND**	10	EPA 200.8		11-15-22	
Lead	**ND**	1.0	EPA 200.8		11-15-22	
Client ID:	**MW-50-110922**					
Laboratory ID:	11-159-03					
Arsenic	**19**	3.0	EPA 200.8		11-15-22	
Barium	**65**	25	EPA 200.8		11-15-22	
Chromium	**ND**	10	EPA 200.8		11-15-22	
Lead	**ND**	1.0	EPA 200.8		11-15-22	
Client ID:	**PH-2-110922**					
Laboratory ID:	11-159-04					
Arsenic	**8.5**	3.0	EPA 200.8		11-15-22	
Barium	**90**	25	EPA 200.8		11-15-22	
Chromium	**ND**	10	EPA 200.8		11-15-22	
Lead	**ND**	1.0	EPA 200.8		11-15-22	
Client ID:	**PH-1-110922**					
Laboratory ID:	11-159-05					
Arsenic	**3.3**	3.0	EPA 200.8		11-15-22	
Barium	**150**	25	EPA 200.8		11-15-22	
Chromium	**ND**	10	EPA 200.8		11-15-22	
Lead	**ND**	1.0	EPA 200.8		11-15-22	

Date of Report: November 17, 2022
Samples Submitted: November 10, 2022
Laboratory Reference: 2211-159
Project: 397-066

DISSOLVED METALS
EPA 200.8

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**B-37-1-110922**					
Laboratory ID:	11-159-06					
Arsenic	**ND**	3.0	EPA 200.8		11-15-22	
Barium	**120**	25	EPA 200.8		11-15-22	
Chromium	**ND**	10	EPA 200.8		11-15-22	
Lead	**ND**	1.0	EPA 200.8		11-15-22	

Date of Report: November 17, 2022
Samples Submitted: November 10, 2022
Laboratory Reference: 2211-159
Project: 397-066

DISSOLVED METALS
EPA 200.8
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1115D1					
Arsenic	**ND**	3.0	EPA 200.8		11-15-22	
Barium	**ND**	25	EPA 200.8		11-15-22	
Chromium	**ND**	10	EPA 200.8		11-15-22	
Lead	**ND**	1.0	EPA 200.8		11-15-22	

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	11-139-03									
	ORIG	DUP								
Arsenic	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Barium	**66.8**	**71.0**	NA	NA		NA	NA	6	20	
Chromium	**ND**	**ND**	NA	NA		NA	NA	NA	20	
Lead	**ND**	**ND**	NA	NA		NA	NA	NA	20	

MATRIX SPIKES										
Laboratory ID:	11-139-03									
	MS	MSD	MS	MSD		MS	MSD			
Arsenic	**85.6**	**81.0**	80.0	80.0	ND	**107**	**101**	75-125	6	20
Barium	**155**	**151**	80.0	80.0	66.8	**111**	**105**	75-125	3	20
Chromium	**75.2**	**72.0**	80.0	80.0	ND	**94**	**90**	75-125	4	20
Lead	**69.4**	**66.0**	80.0	80.0	ND	**87**	**83**	75-125	5	20

OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

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

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

X2 - Sample extract treated with a silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Y1 - Negative effects of the matrix from this sample on the instrument caused values for this analyte in the bracketing continuing calibration verification standard (CCVs) to be outside of 20% acceptance criteria. Because of this, quantitation limits and sample concentrations should be considered estimates.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

Chain of Custody

OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Company: Farallon Consulting
Project Number: 397-066
Project Name: Block 37
Project Manager: Branislav Jurista
Sampled by: Michael Ysaguirre/Angie Osman

Turnaround Request (in working days)
(Check One)
☐ Same Day ☐ 1 Day
☐ 2 Days ☐ 3 Days
☒ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 11-159

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX (8021☐ 8260☒)	NWTPH-Gx	NWTPH-Dx (Acid / SG Clean-up ☐) + C10-C36	Volatiles 8260	Halogenated Volatiles 8260	EDB EPA 8011 (Waters Only)	Semivolatiles 8270/SIM (with low-level PAHs)	PAHs 8270/SIM (low-level) Carcinogenic + Naphthalene	PCBs 8082	Organochlorine Pesticides 8081	Organophosphorus Pesticides 8270/SIM	Chlorinated Acid Herbicides 8151	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664	As, Ba, Cr, Pb Total + Dissolved	Naphthalene			% Moisture
1	B-37-7-110922	11/9/22	1450	GW	11		X		X					X									X				
2	B-37-8-110922		1310				X		X					X									X				
3	MW-50-110922		1112				X		X					X									X				
4	PH-2-110922		1505		13		X		X					X	X								X				
5	PH-1-110922		1353				X		X					X	X								X				
6	B-37-1-110922		1038				X		X					X	X								X				
7	B-37-2-110922		1700		9		X		X					X		NO								X			

	Signature	Company	Date	Time	Comments/Special Instructions
Relinquished		FCN	11/10/22	0842	
Received	Van	Spdy	11/10/22	1115	
Relinquished	Van	Spdy	11/10/22	1155	
Received	Nicholas Slin	OSE	11/10/22	1155	
Relinquished					
Received					Data Package: Standard ☐ Level III ☐ Level IV ☐
Reviewed/Date		Reviewed/Date			Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐

3600 Fremont Ave. N.
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T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

Atlas Technical Consultants
Elisabeth Silver
6347 Seaview Ave NW
Seattle, WA 98107

RE: P66 AOC 1396 - Westlake
Work Order Number: 2212071

December 19, 2022

Attention Elisabeth Silver:

Fremont Analytical, Inc. received 11 sample(s) on 12/2/2022 for the analyses presented in the following report.

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.
Hydrocarbon Identification by NWTPH-HCID

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Brianna Barnes
Project Manager

Date: *12/19/2022*

CLIENT: Atlas Technical Consultants
Project: P66 AOC 1396 - Westlake
Work Order: 2212071

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
2212071-001	MWR-1	12/01/2022 1:40 PM	12/02/2022 3:29 PM
2212071-002	MWR-3	12/01/2022 12:55 PM	12/02/2022 3:29 PM
2212071-003	MWR-4	12/01/2022 2:30 PM	12/02/2022 3:29 PM
2212071-004	MWR-5	12/01/2022 3:15 PM	12/02/2022 3:29 PM
2212071-005	MW-209	11/30/2022 2:30 PM	12/02/2022 3:29 PM
2212071-006	MW-210	11/30/2022 1:40 PM	12/02/2022 3:29 PM
2212071-007	MW-211	11/30/2022 11:50 AM	12/02/2022 3:29 PM
2212071-008	MW-212	11/30/2022 3:50 PM	12/02/2022 3:29 PM
2212071-009	MW-213	12/01/2022 9:40 AM	12/02/2022 3:29 PM
2212071-010	MW-214	12/01/2022 10:25 AM	12/02/2022 3:29 PM
2212071-011	MW-215	12/01/2022 11:15 AM	12/02/2022 3:29 PM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

Case Narrative

WO#: **2212071**

Date: **12/19/2022**

CLIENT: Atlas Technical Consultants

Project: P66 AOC 1396 - Westlake

I. SAMPLE RECEIPT:
Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:
Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:
Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Revision 1 includes quanitfication of HCID result per client request.

Qualifiers:

* - Flagged value is not within established control limits
B - Analyte detected in the associated Method Blank
D - Dilution was required
E - Value above quantitation range
H - Holding times for preparation or analysis exceeded
I - Analyte with an internal standard that does not meet established acceptance criteria
J - Analyte detected below Reporting Limit
N - Tentatively Identified Compound (TIC)
Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria
S - Spike recovery outside accepted recovery limits
ND - Not detected at the Reporting Limit
R - High relative percent difference observed

Acronyms:

%Rec - Percent Recovery
CCB - Continued Calibration Blank
CCV - Continued Calibration Verification
DF - Dilution Factor
DUP - Sample Duplicate
HEM - Hexane Extractable Material
ICV - Initial Calibration Verification
LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
MCL - Maximum Contaminant Level
MB or MBLANK - Method Blank
MDL - Method Detection Limit
MS/MSD - Matrix Spike / Matrix Spike Duplicate
PDS - Post Digestion Spike
Ref Val - Reference Value
REP - Sample Replicate
RL - Reporting Limit
RPD - Relative Percent Difference
SD - Serial Dilution
SGT - Silica Gel Treatment
SPK - Spike
Surr - Surrogate

Analytical Report

Work Order: **2212071**
Date Reported: **12/19/2022**

Client: Atlas Technical Consultants
Collection Date: 12/1/2022 1:40:00 PM
Project: P66 AOC 1396 - Westlake
Lab ID: 2212071-001
Matrix: Groundwater
Client Sample ID: **MWR-1**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Hydrocarbon Identification by NWTPH-HCID				Batch ID: 38768		Analyst: KJ
Gasoline	ND	243		µg/L	1	12/9/2022 4:27:14 PM
Mineral Spirits	ND	243		µg/L	1	12/9/2022 4:27:14 PM
Kerosene	ND	243		µg/L	1	12/9/2022 4:27:14 PM
Diesel (Fuel Oil)	ND	243		µg/L	1	12/9/2022 4:27:14 PM
Heavy Oil	ND	486		µg/L	1	12/9/2022 4:27:14 PM
Mineral Oil	ND	486		µg/L	1	12/9/2022 4:27:14 PM
Surr: 2-Fluorobiphenyl	94.9	50 - 150		%Rec	1	12/9/2022 4:27:14 PM
Surr: o-Terphenyl	104	50 - 150		%Rec	1	12/9/2022 4:27:14 PM

Analytical Report

Work Order: **2212071**
Date Reported: **12/19/2022**

Client: Atlas Technical Consultants
Collection Date: 12/1/2022 12:55:00 PM
Project: P66 AOC 1396 - Westlake
Lab ID: 2212071-002
Matrix: Groundwater
Client Sample ID: **MWR-3**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Hydrocarbon Identification by NWTPH-HCID				Batch ID: 38768		Analyst: KJ
Gasoline	ND	239		µg/L	1	12/9/2022 4:59:52 PM
Mineral Spirits	ND	239		µg/L	1	12/9/2022 4:59:52 PM
Kerosene	ND	239		µg/L	1	12/9/2022 4:59:52 PM
Diesel (Fuel Oil)	ND	239		µg/L	1	12/9/2022 4:59:52 PM
Heavy Oil	ND	479		µg/L	1	12/9/2022 4:59:52 PM
Mineral Oil	ND	479		µg/L	1	12/9/2022 4:59:52 PM
Surr: 2-Fluorobiphenyl	107	50 - 150		%Rec	1	12/9/2022 4:59:52 PM
Surr: o-Terphenyl	119	50 - 150		%Rec	1	12/9/2022 4:59:52 PM

Analytical Report

Work Order: **2212071**
Date Reported: **12/19/2022**

Client: Atlas Technical Consultants
Collection Date: 12/1/2022 2:30:00 PM
Project: P66 AOC 1396 - Westlake
Lab ID: 2212071-003
Matrix: Groundwater
Client Sample ID: **MWR-4**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Hydrocarbon Identification by NWTPH-HCID				Batch ID: 38768		Analyst: KJ
Gasoline	ND	237		µg/L	1	12/9/2022 6:37:47 PM
Mineral Spirits	ND	237		µg/L	1	12/9/2022 6:37:47 PM
Kerosene	ND	237		µg/L	1	12/9/2022 6:37:47 PM
Diesel (Fuel Oil)	ND	237		µg/L	1	12/9/2022 6:37:47 PM
Heavy Oil	ND	473		µg/L	1	12/9/2022 6:37:47 PM
Mineral Oil	ND	473		µg/L	1	12/9/2022 6:37:47 PM
Surr: 2-Fluorobiphenyl	114	50 - 150		%Rec	1	12/9/2022 6:37:47 PM
Surr: o-Terphenyl	131	50 - 150		%Rec	1	12/9/2022 6:37:47 PM

Analytical Report

Work Order: **2212071**
Date Reported: **12/19/2022**

Client: Atlas Technical Consultants
Collection Date: 12/1/2022 3:15:00 PM
Project: P66 AOC 1396 - Westlake
Lab ID: 2212071-004
Matrix: Groundwater
Client Sample ID: **MWR-5**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.				Batch ID: 38768		Analyst: KJ
Diesel 1/ Kerosene	1,580	94.3		µg/L	1	12/9/2022 6:48:35 PM
Diesel Range Organics	ND	94.3		µg/L	1	12/9/2022 6:48:35 PM
Heavy Oil	ND	94.3		µg/L	1	12/9/2022 6:48:35 PM
Total Petroleum Hydrocarbons	1,580	189		µg/L	1	12/9/2022 6:48:35 PM
Surr: 2-Fluorobiphenyl	161	50 - 150	S	%Rec	1	12/9/2022 6:48:35 PM
Surr: o-Terphenyl	102	50 - 150		%Rec	1	12/9/2022 6:48:35 PM

NOTES:
S - Outlying surrogate recovery attributed to TPH interference.
Chromatographic pattern resembles kerosene

Hydrocarbon Identification by NWTPH-HCID				Batch ID: 38768		Analyst: KJ
Gasoline	ND	236		µg/L	1	12/9/2022 6:48:35 PM
Mineral Spirits	ND	236		µg/L	1	12/9/2022 6:48:35 PM
Kerosene	DETECT	236		µg/L	1	12/9/2022 6:48:35 PM
Diesel (Fuel Oil)	ND	236		µg/L	1	12/9/2022 6:48:35 PM
Heavy Oil	ND	471		µg/L	1	12/9/2022 6:48:35 PM
Mineral Oil	ND	471		µg/L	1	12/9/2022 6:48:35 PM
Surr: 2-Fluorobiphenyl	161	50 - 150	S	%Rec	1	12/9/2022 6:48:35 PM
Surr: o-Terphenyl	102	50 - 150		%Rec	1	12/9/2022 6:48:35 PM

NOTES:
Material observed is tentatively identified as kerosene.
S - Outlying surrogate recovery attributed to TPH interference.

Analytical Report

Work Order: **2212071**
Date Reported: **12/19/2022**

Client: Atlas Technical Consultants
Collection Date: 11/30/2022 2:30:00 PM
Project: P66 AOC 1396 - Westlake
Lab ID: 2212071-005
Matrix: Groundwater
Client Sample ID: **MW-209**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Hydrocarbon Identification by NWTPH-HCID				Batch ID: 38768		Analyst: KJ
Gasoline	ND	239		µg/L	1	12/9/2022 6:59:22 PM
Mineral Spirits	ND	239		µg/L	1	12/9/2022 6:59:22 PM
Kerosene	ND	239		µg/L	1	12/9/2022 6:59:22 PM
Diesel (Fuel Oil)	ND	239		µg/L	1	12/9/2022 6:59:22 PM
Heavy Oil	ND	478		µg/L	1	12/9/2022 6:59:22 PM
Mineral Oil	ND	478		µg/L	1	12/9/2022 6:59:22 PM
Surr: 2-Fluorobiphenyl	59.2	50 - 150		%Rec	1	12/9/2022 6:59:22 PM
Surr: o-Terphenyl	104	50 - 150		%Rec	1	12/9/2022 6:59:22 PM

Analytical Report

Work Order: **2212071**
Date Reported: **12/19/2022**

Client: Atlas Technical Consultants
Collection Date: 11/30/2022 1:40:00 PM
Project: P66 AOC 1396 - Westlake
Lab ID: 2212071-006
Matrix: Groundwater
Client Sample ID: **MW-210**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Hydrocarbon Identification by NWTPH-HCID				Batch ID: 38768		Analyst: KJ
Gasoline	ND	235		µg/L	1	12/9/2022 7:10:10 PM
Mineral Spirits	ND	235		µg/L	1	12/9/2022 7:10:10 PM
Kerosene	ND	235		µg/L	1	12/9/2022 7:10:10 PM
Diesel (Fuel Oil)	ND	235		µg/L	1	12/9/2022 7:10:10 PM
Heavy Oil	ND	470		µg/L	1	12/9/2022 7:10:10 PM
Mineral Oil	ND	470		µg/L	1	12/9/2022 7:10:10 PM
Surr: 2-Fluorobiphenyl	104	50 - 150		%Rec	1	12/9/2022 7:10:10 PM
Surr: o-Terphenyl	115	50 - 150		%Rec	1	12/9/2022 7:10:10 PM

Analytical Report

Work Order: **2212071**
Date Reported: **12/19/2022**

Client: Atlas Technical Consultants
Collection Date: 11/30/2022 11:50:00 AM
Project: P66 AOC 1396 - Westlake
Lab ID: 2212071-007
Matrix: Groundwater
Client Sample ID: **MW-211**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Hydrocarbon Identification by NWTPH-HCID				Batch ID: 38768		Analyst: KJ
Gasoline	ND	241		µg/L	1	12/9/2022 7:20:59 PM
Mineral Spirits	ND	241		µg/L	1	12/9/2022 7:20:59 PM
Kerosene	ND	241		µg/L	1	12/9/2022 7:20:59 PM
Diesel (Fuel Oil)	ND	241		µg/L	1	12/9/2022 7:20:59 PM
Heavy Oil	ND	482		µg/L	1	12/9/2022 7:20:59 PM
Mineral Oil	ND	482		µg/L	1	12/9/2022 7:20:59 PM
Surr: 2-Fluorobiphenyl	110	50 - 150		%Rec	1	12/9/2022 7:20:59 PM
Surr: o-Terphenyl	122	50 - 150		%Rec	1	12/9/2022 7:20:59 PM

Analytical Report

Work Order: **2212071**
Date Reported: **12/19/2022**

Client: Atlas Technical Consultants
Collection Date: 11/30/2022 3:50:00 PM
Project: P66 AOC 1396 - Westlake
Lab ID: 2212071-008
Matrix: Groundwater
Client Sample ID: **MW-212**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Hydrocarbon Identification by NWTPH-HCID				Batch ID: 38768		Analyst: KJ
Gasoline	ND	239		µg/L	1	12/9/2022 7:31:45 PM
Mineral Spirits	ND	239		µg/L	1	12/9/2022 7:31:45 PM
Kerosene	ND	239		µg/L	1	12/9/2022 7:31:45 PM
Diesel (Fuel Oil)	ND	239		µg/L	1	12/9/2022 7:31:45 PM
Heavy Oil	ND	479		µg/L	1	12/9/2022 7:31:45 PM
Mineral Oil	ND	479		µg/L	1	12/9/2022 7:31:45 PM
Surr: 2-Fluorobiphenyl	92.4	50 - 150		%Rec	1	12/9/2022 7:31:45 PM
Surr: o-Terphenyl	110	50 - 150		%Rec	1	12/9/2022 7:31:45 PM

Analytical Report

Work Order: **2212071**
Date Reported: **12/19/2022**

Client: Atlas Technical Consultants
Collection Date: 12/1/2022 9:40:00 AM
Project: P66 AOC 1396 - Westlake
Lab ID: 2212071-009
Matrix: Groundwater
Client Sample ID: **MW-213**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Hydrocarbon Identification by NWTPH-HCID				Batch ID: 38768		Analyst: KJ
Gasoline	ND	233		µg/L	1	12/9/2022 7:42:54 PM
Mineral Spirits	ND	233		µg/L	1	12/9/2022 7:42:54 PM
Kerosene	ND	233		µg/L	1	12/9/2022 7:42:54 PM
Diesel (Fuel Oil)	ND	233		µg/L	1	12/9/2022 7:42:54 PM
Heavy Oil	ND	467		µg/L	1	12/9/2022 7:42:54 PM
Mineral Oil	ND	467		µg/L	1	12/9/2022 7:42:54 PM
Surr: 2-Fluorobiphenyl	111	50 - 150		%Rec	1	12/9/2022 7:42:54 PM
Surr: o-Terphenyl	124	50 - 150		%Rec	1	12/9/2022 7:42:54 PM

Analytical Report

Work Order: **2212071**
Date Reported: **12/19/2022**

Client: Atlas Technical Consultants
Collection Date: 12/1/2022 10:25:00 AM
Project: P66 AOC 1396 - Westlake
Lab ID: 2212071-010
Matrix: Groundwater
Client Sample ID: **MW-214**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Hydrocarbon Identification by NWTPH-HCID				Batch ID: 38768		Analyst: KJ
Gasoline	ND	239		µg/L	1	12/9/2022 7:53:43 PM
Mineral Spirits	ND	239		µg/L	1	12/9/2022 7:53:43 PM
Kerosene	ND	239		µg/L	1	12/9/2022 7:53:43 PM
Diesel (Fuel Oil)	ND	239		µg/L	1	12/9/2022 7:53:43 PM
Heavy Oil	ND	477		µg/L	1	12/9/2022 7:53:43 PM
Mineral Oil	ND	477		µg/L	1	12/9/2022 7:53:43 PM
Surr: 2-Fluorobiphenyl	94.7	50 - 150		%Rec	1	12/9/2022 7:53:43 PM
Surr: o-Terphenyl	112	50 - 150		%Rec	1	12/9/2022 7:53:43 PM

Analytical Report

Work Order: **2212071**
Date Reported: **12/19/2022**

Client: Atlas Technical Consultants
Collection Date: 12/1/2022 11:15:00 AM
Project: P66 AOC 1396 - Westlake
Lab ID: 2212071-011
Matrix: Groundwater
Client Sample ID: **MW-215**

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
Hydrocarbon Identification by NWTPH-HCID				Batch ID: 38768		Analyst: KJ
Gasoline	ND	236		µg/L	1	12/9/2022 8:04:30 PM
Mineral Spirits	ND	236		µg/L	1	12/9/2022 8:04:30 PM
Kerosene	ND	236		µg/L	1	12/9/2022 8:04:30 PM
Diesel (Fuel Oil)	ND	236		µg/L	1	12/9/2022 8:04:30 PM
Heavy Oil	ND	472		µg/L	1	12/9/2022 8:04:30 PM
Mineral Oil	ND	472		µg/L	1	12/9/2022 8:04:30 PM
Surr: 2-Fluorobiphenyl	106	50 - 150		%Rec	1	12/9/2022 8:04:30 PM
Surr: o-Terphenyl	118	50 - 150		%Rec	1	12/9/2022 8:04:30 PM

Work Order: 2212071
CLIENT: Atlas Technical Consultants
Project: P66 AOC 1396 - Westlake

QC SUMMARY REPORT

Diesel and Heavy Oil by NWTPH-Dx/Dx Ext.

Sample ID: **MB-38768** SampType: **MBLK** Units: **µg/L** Prep Date: **12/8/2022** RunNo: **80414**
Client ID: **MBLKW** Batch ID: **38768** Analysis Date: **12/9/2022** SeqNo: **1661584**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	ND	100									
Heavy Oil	ND	100									
Total Petroleum Hydrocarbons	ND	200									
Surr: 2-Fluorobiphenyl	23.4		25.00		93.7	50	150				
Surr: o-Terphenyl	26.7		25.00		107	50	150				

Sample ID: **LCS-38768** SampType: **LCS** Units: **µg/L** Prep Date: **12/8/2022** RunNo: **80414**
Client ID: **LCSW** Batch ID: **38768** Analysis Date: **12/9/2022** SeqNo: **1661585**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Petroleum Hydrocarbons	979	200	1,250	0	78.3	45.7	115				
Surr: 2-Fluorobiphenyl	25.5		25.00		102	50	150				
Surr: o-Terphenyl	31.7		25.00		127	50	150				

Sample ID: **2212071-002ADUP** SampType: **DUP** Units: **µg/L** Prep Date: **12/8/2022** RunNo: **80414**
Client ID: **MWR-3** Batch ID: **38768** Analysis Date: **12/9/2022** SeqNo: **1661596**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics	ND	95.7						0		30	
Heavy Oil	ND	95.7						0		30	
Total Petroleum Hydrocarbons	ND	191						0		30	
Surr: 2-Fluorobiphenyl	24.0		23.93		100	50	150		0		
Surr: o-Terphenyl	26.5		23.93		111	50	150		0		

Work Order: 2212071
CLIENT: Atlas Technical Consultants
Project: P66 AOC 1396 - Westlake

QC SUMMARY REPORT

Hydrocarbon Identification by NWTPH-HCID

Sample ID: **MB-38768** SampType: **MBLK** Units: **µg/L** Prep Date: **12/8/2022** RunNo: **80417**
Client ID: **MBLKW** Batch ID: **38768** Analysis Date: **12/9/2022** SeqNo: **1661698**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline	ND	250									
Mineral Spirits	ND	250									
Kerosene	ND	250									
Diesel (Fuel Oil)	ND	250									
Heavy Oil	ND	500									
Mineral Oil	ND	500									
Surr: 2-Fluorobiphenyl	23.4		25.00		93.7	50	150				
Surr: o-Terphenyl	26.7		25.00		107	50	150				

Sample ID: **LCS-38768** SampType: **LCS** Units: **µg/L** Prep Date: **12/8/2022** RunNo: **80417**
Client ID: **LCSW** Batch ID: **38768** Analysis Date: **12/9/2022** SeqNo: **1661699**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel (Fuel Oil)	979	250	1,250	0	78.3	48.1	108				
Surr: 2-Fluorobiphenyl	25.5		25.00		102	50	150				
Surr: o-Terphenyl	31.7		25.00		127	50	150				

Sample ID: **2212071-002ADUP** SampType: **DUP** Units: **µg/L** Prep Date: **12/8/2022** RunNo: **80417**
Client ID: **MWR-3** Batch ID: **38768** Analysis Date: **12/9/2022** SeqNo: **1661705**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline	ND	239		0	0			0		30	
Mineral Spirits	ND	239		0	0			0		30	
Kerosene	ND	239		0	0			0		30	
Diesel (Fuel Oil)	ND	239		0	0			0		30	
Heavy Oil	ND	479		0	0			0		30	
Mineral Oil	ND	479		0	0			0		30	
Surr: 2-Fluorobiphenyl	24.0		23.93		100	50	150		0		
Surr: o-Terphenyl	26.5		23.93		111	50	150		0		

Sample Log-In Check List

Client Name:	ATLAS	Work Order Number:	2212071
Logged by:	Clare Griggs	Date Received:	12/2/2022 3:29:00 PM

Chain of Custody

1.	Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2.	How was the sample delivered?	Client		

Log In

3.	Coolers are present?	Yes ☑	No ☐	NA ☐
4.	Shipping container/cooler in good condition?	Yes ☑	No ☐	
5.	Custody Seals present on shipping container/cooler? (Refer to comments for Custody Seals not intact)	Yes ☐	No ☐	Not Present ☑
6.	Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
7.	Were all items received at a temperature of >2°C to 6°C *	Yes ☑	No ☐	NA ☐
8.	Sample(s) in proper container(s)?	Yes ☑	No ☐	
9.	Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
10.	Are samples properly preserved?	Yes ☑	No ☐	
11.	Was preservative added to bottles?	Yes ☑	No ☐	NA ☐ HCL
12.	Is there headspace in the VOA vials?	Yes ☐	No ☐	NA ☑
13.	Did all samples containers arrive in good condition(unbroken)?	Yes ☑	No ☐	
14.	Does paperwork match bottle labels?	Yes ☑	No ☐	
15.	Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
16.	Is it clear what analyses were requested?	Yes ☑	No ☐	
17.	Were all holding times able to be met?	Yes ☑	No ☐	

Special Handling (if applicable)

18.	Was client notified of all discrepancies with this order?	Yes ☐	No ☐	NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

19. Additional remarks:

Item Information

Item #	Temp ºC
Sample	3.0

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

Fremont Analytical
3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Chain of Custody Record & Laboratory Services Agreement

Date: 12/1/22 Page: 1 of: 2

Laboratory Project No (internal): 2212071

Project Name: P666 ADC 1396 - Westlake

Special Remarks:
Please test:
- diesel
- heavy oil
- kerosene

Project No: Z0760000 82

Client: Atlas Technical Consultants

Collected by: Isabella Ancona

Address: 6347 Seaview Ave NW

Location: 600 Westlake Ave, Seattle, WA

City, State, Zip: Seattle, WA 98019

Report To (PM): Elisabeth Silver

Sample Disposal: ☐ Return to client ☒ Disposal by lab (after 30 days)

Telephone:

PM Email: elisabeth.silver@oneatlas.com

Fax:

	Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	VOCs (EPA 8260 / 624)	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T)	Dissolved (D)	Anions (IC)***	EDB (8011)	Comments
1	MWR-1	12/1/22	1340	GW	2				X										See special remarks
2	MWR-3	12/1/22	1255	GW	2				X										• diesel
3	MWR-4	12/1/22	1430	GW	2				X										• heavy oil
4	MWR-5	12/1/22	1515	GW	2				X										• kerosene
5	MW-209	11/30/22	1430	GW	2				X										(All samples)
6	MW-210	11/30/22	1340	GW	2				X										
7	MW-211	11/30/22	1150	GW	2				X										
8	MW-212	11/30/22	1550	GW	2				X										
9	MW-213	12/1/22	940	GW	2				X										
10	MW-214	12/1/22	1025	GW	2				X										

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

**Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL *Individual:* Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Ti Tl V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

Turn-around Time:
☒ Standard ☐ Next Day
☐ 3 Day ☐ Same Day
☐ 2 Day ☐ (specify)

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished (Signature)	Print Name	Date/Time	Received (Signature)	Print Name	Date/Time
x	Melody Rybalka	12/2/22	x Clare O'Connor	Clare O'Connor	12/2/22 15:29
Relinquished (Signature)	Print Name	Date/Time	Received (Signature)	Print Name	Date/Time
x			x		

Chain of Custody Record & Laboratory Services Agreement

Fremont Analytical
3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Date: 12/1/22 Page: 2 of: 2

Laboratory Project No (internal): 2212071

Project Name: Plow ADC 13916 - Westlake

Special Remarks: Please test:
- diesel
- heavy oil
- kerosene

Project No: 20TU000082

Client: Atlas Technical Consultants

Collected by: Isabella Ancong

Address: 6347 Seaview Ave NW

Location: 600 Westlake Ave, Seattle, WA

City, State, Zip: Seattle, WA 98119

Report To (PM): Elisabeth Silver

Sample Disposal: ☐ Return to client ☒ Disposal by lab (after 30 days)

Telephone:

PM Email: elisabeth.silver@oneatlas.com

Fax:

	Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	VOCs (EPA 8260 / 624)	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) | Dissolved (D)	Anions (IC)***	EDB (8011)	Comments
1	MW-215	12/1/22	1115	GW	2			X										diesel, kerosene, heavy oil
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

**Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL *Individual:* Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Ti Tl V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

Turn-around Time:
☒ Standard ☐ Next Day
☐ 3 Day ☐ Same Day
☐ 2 Day ☐ _____ (specify)

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Relinquished (Signature)	Print Name	Date/Time	Received (Signature)	Print Name	Date/Time
x	Melody Rybacki	12/2/22	x Clare O'Connor	Clare O'Connor	12/2/22 15:29
Relinquished (Signature)	Print Name	Date/Time	Received (Signature)	Print Name	Date/Time
x			x		

Chain of Custody Record & Laboratory Services Agreement

Fremont Analytical
3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Date: 12/1/22 | Page: 1 of: 2 | Laboratory Project No (internal): 2212071

Project Name: P666 ADC 1396 - Westlake

Project No: Z0760000 82

Collected by: Isabella Ancona

Location: 600 Westlake Ave, Seattle, WA

Report To (PM): Elisabeth Silver

PM Email: elisabeth.silver@oneatlas.com

Special Remarks:
Please test:
- diesel
- heavy oil
- kerosene

Sample Disposal: ☐ Return to client ☒ Disposal by lab (after 30 days)

Client: Atlas Technical Consultants

Address: 6347 Seaview Ave NW

City, State, Zip: Seattle, WA 98019

Telephone:

Fax:

Edits per E.S. 12/12/2022 -BB

	Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DX)	Comments
1	MWR-1	12/1/22	1340	GW	2	X			see special remarks
2	MWR-3	12/1/22	1255	GW	2	X			
3	MWR-4	12/1/22	1430	GW	2	X			
4	MWR-5	12/1/22	1515	GW	2	X			
5	MW-209	11/30/22	1430	GW	2	X			
6	MW-210	11/30/22	1340	GW	2	X			
7	MW-211	11/30/22	1150	GW	2	X			
8	MW-212	11/30/22	1550	GW	2	X			
9	MW-213	12/1/22	940	GW	2	X			
10	MW-214	12/1/22	1025	GW	2	X			

Quant HCID { • diesel • heavy oil • kerosene (All samples)

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

**Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL Individual: Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Ti Tl V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

Turn-around Time:
☒ Standard ☐ Next Day
☐ 3 Day ☐ Same Day
☐ 2 Day ☐ (specify)

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Relinquished (Signature)	Print Name	Date/Time	Received (Signature)	Print Name	Date/Time
x	Melody Rybalka	12/2/22	x Clare O'Connor	Clare O'Connor	12/2/22 15:29
Relinquished (Signature)	Print Name	Date/Time	Received (Signature)	Print Name	Date/Time
x			x		

Chain of Custody Record & Laboratory Services Agreement

Fremont Analytical
3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Date: 12/1/22 Page: 2 of: 2

Laboratory Project No (internal): 2212071

Project Name: Plaid ADC 13916 - Westlake

Special Remarks: Please test:
- diesel
- heavy oil
- kerosene

Project No: 20TV000082

Client: Atlas Technical Consultants

Collected by: Isabella Ancong

Address: 6347 Seaview Ave NW

Location: 600 Westlake Ave, Seattle, WA

City, State, Zip: Seattle, WA 98119

Report To (PM): Elisabeth Silver

Sample Disposal: ☐ Return to client ☒ Disposal by lab (after 30 days)

Telephone:

PM Email: elisabeth.silver@oneatlas.com

Fax:

	Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	# of Cont.	VOCs (EPA 8260 / 624)	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) | Dissolved (D)	Anions (IC)***	EDB (8011)	Comments
1	MW-21S	12/1/22	1115	GW	2			X										diesel, kerosene, heavy oil
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		

*Matrix: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

**Metals (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL *Individual:* Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Ti Tl V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

Turn-around Time:
☒ Standard ☐ Next Day
☐ 3 Day ☐ Same Day
☐ 2 Day ☐ _____ (specify)

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x	Melody Rybacki	12/2/22	x Clare O'Connor	Clare O'Connor	12/2/22 15:29
Relinquished (Signature)	Print Name	Date/Time	Received (Signature)	Print Name	Date/Time
x			x		

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

December 14, 2022

Elisabeth Silver
Atlas
6347 Seaview Ave NW
Seattle, WA 98107

RE: Project: Z076000082 P66 Westlake
Pace Project No.: 10635673

Dear Elisabeth Silver:

Enclosed are the analytical results for sample(s) received by the laboratory on December 03, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jennifer Gross
jennifer.gross@pacelabs.com
(612)607-1700
Project Manager

Enclosures

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

CERTIFICATIONS

Project: Z076000082 P66 Westlake
Pace Project No.: 10635673

Pace Analytical Services, LLC - Minneapolis MN

1700 Elm Street SE, Minneapolis, MN 55414
A2LA Certification #: 2926.01*
1800 Elm Street SE, Minneapolis, MN 55414--Satellite Air Lab
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: 17-009*
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014*
Arkansas DW Certification #: MN00064
Arkansas WW Certification #: 88-0680
California Certification #: 2929
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8 Tribal Water Systems+Wyoming DW Certification #: via MN 027-053-137
Florida Certification #: E87605*
Georgia Certification #: 959
GMP+ Certification #: GMP050884
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: AI-03086*
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064*
Maryland Certification #: 322
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137*
Minnesota Dept of Ag Approval: via MN 027-053-137
Minnesota Petrofund Registration #: 1240*
Mississippi Certification #: MN00064
Missouri Certification #: 10100
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081*
New Jersey Certification #: MN002
New York Certification #: 11647*
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification (A2LA) #: R-036
North Dakota Certification (MN) #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification (1700) #: CL101
Ohio VAP Certification (1800) #: CL110*
Oklahoma Certification #: 9507*
Oregon Primary Certification #: MN300001
Oregon Secondary Certification #: MN200001*
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192*
Utah Certification #: MN00064*
Vermont Certification #: VT-027053137
Virginia Certification #: 460163*
Washington Certification #: C486*
West Virginia DEP Certification #: 382
West Virginia DW Certification #: 9952 C
Wisconsin Certification #: 999407970
Wyoming UST Certification #: via A2LA 2926.01
USDA Permit #: P330-19-00208
*Please Note: Applicable air certifications are denoted with an asterisk (*).

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

SAMPLE SUMMARY

Project: Z076000082 P66 Westlake
Pace Project No.: 10635673

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10635673001	**MWR-1**	Water	12/01/22 13:40	12/03/22 09:15
10635673002	**MWR-3**	Water	12/01/22 12:55	12/03/22 09:15
10635673003	**MWR-4**	Water	12/01/22 14:30	12/03/22 09:15
10635673004	**MWR-5**	Water	12/01/22 15:15	12/03/22 09:15
10635673005	**MW-209**	Water	11/30/22 14:30	12/03/22 09:15
10635673006	**MW-210**	Water	11/30/22 13:40	12/03/22 09:15
10635673007	**MW-211**	Water	11/30/22 11:50	12/03/22 09:15
10635673008	**MW-212**	Water	11/30/22 15:50	12/03/22 09:15
10635673009	**MW-213**	Water	12/01/22 09:40	12/03/22 09:15
10635673010	**MW-214**	Water	12/01/22 10:25	12/03/22 09:15
10635673011	**MW-215**	Water	12/01/22 11:15	12/03/22 09:15
10635673012	**Trip Blank**	Water	11/30/22 00:00	12/03/22 09:15

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

SAMPLE ANALYTE COUNT

Project: Z076000082 P66 Westlake
Pace Project No.: 10635673

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10635673001	**MWR-1**	NWTPH-Gx	TM2	2	PASI-M
		EPA 200.8	MLL	4	PASI-M
		EPA 200.8	MLL	4	PASI-M
		EPA 8260D	TKL	8	PASI-M
10635673002	**MWR-3**	NWTPH-Gx	TM2	2	PASI-M
		EPA 200.8	MLL	4	PASI-M
		EPA 200.8	MLL	4	PASI-M
		EPA 8260D	TKL	8	PASI-M
10635673003	**MWR-4**	NWTPH-Gx	TM2	2	PASI-M
		EPA 200.8	MLL	4	PASI-M
		EPA 200.8	MLL	4	PASI-M
		EPA 8260D	TKL	8	PASI-M
10635673004	**MWR-5**	NWTPH-Gx	TM2	2	PASI-M
		EPA 200.8	MLL	4	PASI-M
		EPA 200.8	MLL	4	PASI-M
		EPA 8260D	TKL	8	PASI-M
10635673005	**MW-209**	NWTPH-Gx	TM2	2	PASI-M
		EPA 200.8	MLL	4	PASI-M
		EPA 200.8	MLL	4	PASI-M
		EPA 8260D	PAB	8	PASI-M
10635673006	**MW-210**	NWTPH-Gx	TM2	2	PASI-M
		EPA 200.8	MLL	4	PASI-M
		EPA 200.8	MLL	4	PASI-M
		EPA 8260D	PAB	8	PASI-M
10635673007	**MW-211**	NWTPH-Gx	TM2	2	PASI-M
		EPA 200.8	MLL	4	PASI-M
		EPA 200.8	MLL	4	PASI-M
		EPA 8260D	PAB	8	PASI-M
10635673008	**MW-212**	NWTPH-Gx	TM2	2	PASI-M
		EPA 200.8	MLL	4	PASI-M
		EPA 200.8	MLL	4	PASI-M
		EPA 8260D	PAB	8	PASI-M
10635673009	**MW-213**	NWTPH-Gx	TM2	2	PASI-M
		EPA 200.8	MLL	4	PASI-M
		EPA 200.8	MLL	4	PASI-M
		EPA 8260D	PAB, TKL	8	PASI-M
10635673010	**MW-214**	NWTPH-Gx	TM2	2	PASI-M

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

SAMPLE ANALYTE COUNT

Project: Z076000082 P66 Westlake
Pace Project No.: 10635673

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 200.8	MLL	4	PASI-M
		EPA 200.8	MLL	4	PASI-M
		EPA 8260D	PAB, TKL	8	PASI-M
10635673011	**MW-215**	NWTPH-Gx	TM2	2	PASI-M
		EPA 200.8	MLL	4	PASI-M
		EPA 200.8	MLL	4	PASI-M
		EPA 8260D	TKL	8	PASI-M
10635673012	**Trip Blank**	NWTPH-Gx	TM2	2	PASI-M
		EPA 8260D	PAB	8	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: Z076000082 P66 Westlake
Pace Project No.: 10635673

Sample: MWR-1 **Lab ID: 10635673001** Collected: 12/01/22 13:40 Received: 12/03/22 09:15 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx Pace Analytical Services - Minneapolis								
TPH as Gas	**<22.6**	ug/L	100	22.6	1		12/06/22 20:19		
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%.	50-150		1		12/06/22 20:19	98-08-8	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Minneapolis								
Arsenic	**4.3**	ug/L	0.50	0.092	1	12/07/22 08:03	12/08/22 14:16	7440-38-2	
Barium	**38.7**	ug/L	0.30	0.092	1	12/07/22 08:03	12/08/22 14:16	7440-39-3	
Chromium	**1.7J**	ug/L	2.0	0.36	1	12/07/22 08:03	12/08/22 14:16	7440-47-3	
Lead	**<0.056**	ug/L	0.50	0.056	1	12/07/22 08:03	12/08/22 14:16	7439-92-1	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Minneapolis								
Arsenic, Dissolved	**4.3**	ug/L	0.50	0.092	1	12/07/22 08:03	12/08/22 16:30	7440-38-2	
Barium, Dissolved	**38.0**	ug/L	0.30	0.092	1	12/07/22 08:03	12/08/22 16:30	7440-39-3	
Chromium, Dissolved	**0.49J**	ug/L	2.0	0.36	1	12/07/22 08:03	12/08/22 16:30	7440-47-3	
Lead, Dissolved	**<0.056**	ug/L	0.50	0.056	1	12/07/22 08:03	12/08/22 16:30	7439-92-1	
8260D MSV UST	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis								
Benzene	**0.21J**	ug/L	1.0	0.10	1		12/07/22 15:51	71-43-2	
Ethylbenzene	**<0.11**	ug/L	1.0	0.11	1		12/07/22 15:51	100-41-4	
Naphthalene	**<0.18**	ug/L	1.0	0.18	1		12/07/22 15:51	91-20-3	
Toluene	**<0.10**	ug/L	1.0	0.10	1		12/07/22 15:51	108-88-3	
Xylene (Total)	**<0.20**	ug/L	3.0	0.20	1		12/07/22 15:51	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	99	%.	75-125		1		12/07/22 15:51	2199-69-1	
4-Bromofluorobenzene (S)	99	%.	75-125		1		12/07/22 15:51	460-00-4	
Toluene-d8 (S)	99	%.	75-125		1		12/07/22 15:51	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: Z076000082 P66 Westlake
Pace Project No.: 10635673

Sample: MWR-3 **Lab ID: 10635673002** Collected: 12/01/22 12:55 Received: 12/03/22 09:15 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx Pace Analytical Services - Minneapolis								
TPH as Gas	**<22.6**	ug/L	100	22.6	1		12/06/22 20:34		
Surrogates									
a,a,a-Trifluorotoluene (S)	99	%.	50-150		1		12/06/22 20:34	98-08-8	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Minneapolis								
Arsenic	**3.5**	ug/L	0.50	0.092	1	12/07/22 08:03	12/08/22 14:45	7440-38-2	
Barium	**49.1**	ug/L	0.30	0.092	1	12/07/22 08:03	12/08/22 14:45	7440-39-3	
Chromium	**<0.36**	ug/L	2.0	0.36	1	12/07/22 08:03	12/08/22 14:45	7440-47-3	
Lead	**0.10J**	ug/L	0.50	0.056	1	12/07/22 08:03	12/08/22 14:45	7439-92-1	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Minneapolis								
Arsenic, Dissolved	**3.2**	ug/L	0.50	0.092	1	12/07/22 08:03	12/08/22 16:59	7440-38-2	
Barium, Dissolved	**47.7**	ug/L	0.30	0.092	1	12/07/22 08:03	12/08/22 16:59	7440-39-3	
Chromium, Dissolved	**<0.36**	ug/L	2.0	0.36	1	12/07/22 08:03	12/08/22 16:59	7440-47-3	
Lead, Dissolved	**<0.056**	ug/L	0.50	0.056	1	12/07/22 08:03	12/08/22 16:59	7439-92-1	
8260D MSV UST	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis								
Benzene	**<0.10**	ug/L	1.0	0.10	1		12/07/22 16:07	71-43-2	
Ethylbenzene	**<0.11**	ug/L	1.0	0.11	1		12/07/22 16:07	100-41-4	
Naphthalene	**<0.18**	ug/L	1.0	0.18	1		12/07/22 16:07	91-20-3	
Toluene	**<0.10**	ug/L	1.0	0.10	1		12/07/22 16:07	108-88-3	
Xylene (Total)	**<0.20**	ug/L	3.0	0.20	1		12/07/22 16:07	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	98	%.	75-125		1		12/07/22 16:07	2199-69-1	
4-Bromofluorobenzene (S)	100	%.	75-125		1		12/07/22 16:07	460-00-4	
Toluene-d8 (S)	100	%.	75-125		1		12/07/22 16:07	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: Z076000082 P66 Westlake
Pace Project No.: 10635673

Sample: MWR-4 **Lab ID: 10635673003** Collected: 12/01/22 14:30 Received: 12/03/22 09:15 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx Pace Analytical Services - Minneapolis								
TPH as Gas	**<22.6**	ug/L	100	22.6	1		12/06/22 20:49		
Surrogates									
a,a,a-Trifluorotoluene (S)	99	%.	50-150		1		12/06/22 20:49	98-08-8	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Minneapolis								
Arsenic	**1.6**	ug/L	0.50	0.092	1	12/07/22 08:03	12/08/22 14:52	7440-38-2	
Barium	**17.3**	ug/L	0.30	0.092	1	12/07/22 08:03	12/08/22 14:52	7440-39-3	
Chromium	**<0.36**	ug/L	2.0	0.36	1	12/07/22 08:03	12/08/22 14:52	7440-47-3	
Lead	**<0.056**	ug/L	0.50	0.056	1	12/07/22 08:03	12/08/22 14:52	7439-92-1	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Minneapolis								
Arsenic, Dissolved	**1.5**	ug/L	0.50	0.092	1	12/07/22 08:03	12/08/22 17:06	7440-38-2	
Barium, Dissolved	**17.4**	ug/L	0.30	0.092	1	12/07/22 08:03	12/08/22 17:06	7440-39-3	
Chromium, Dissolved	**<0.36**	ug/L	2.0	0.36	1	12/07/22 08:03	12/08/22 17:06	7440-47-3	
Lead, Dissolved	**<0.056**	ug/L	0.50	0.056	1	12/07/22 08:03	12/08/22 17:06	7439-92-1	
8260D MSV UST	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis								
Benzene	**<0.10**	ug/L	1.0	0.10	1		12/07/22 16:22	71-43-2	
Ethylbenzene	**<0.11**	ug/L	1.0	0.11	1		12/07/22 16:22	100-41-4	
Naphthalene	**<0.18**	ug/L	1.0	0.18	1		12/07/22 16:22	91-20-3	
Toluene	**<0.10**	ug/L	1.0	0.10	1		12/07/22 16:22	108-88-3	
Xylene (Total)	**<0.20**	ug/L	3.0	0.20	1		12/07/22 16:22	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	98	%.	75-125		1		12/07/22 16:22	2199-69-1	
4-Bromofluorobenzene (S)	99	%.	75-125		1		12/07/22 16:22	460-00-4	
Toluene-d8 (S)	100	%.	75-125		1		12/07/22 16:22	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: Z076000082 P66 Westlake
Pace Project No.: 10635673

Sample: MWR-5 **Lab ID: 10635673004** Collected: 12/01/22 15:15 Received: 12/03/22 09:15 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx Pace Analytical Services - Minneapolis								
TPH as Gas	**1580**	ug/L	100	22.6	1		12/07/22 20:51		
Surrogates									
a,a,a-Trifluorotoluene (S)	99	%.	50-150		1		12/07/22 20:51	98-08-8	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Minneapolis								
Arsenic	**23.4**	ug/L	0.50	0.092	1	12/07/22 08:03	12/08/22 15:00	7440-38-2	
Barium	**29.1**	ug/L	0.30	0.092	1	12/07/22 08:03	12/08/22 15:00	7440-39-3	
Chromium	**2.5**	ug/L	2.0	0.36	1	12/07/22 08:03	12/08/22 15:00	7440-47-3	
Lead	**1.1**	ug/L	0.50	0.056	1	12/07/22 08:03	12/08/22 15:00	7439-92-1	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Minneapolis								
Arsenic, Dissolved	**21.6**	ug/L	0.50	0.092	1	12/07/22 08:03	12/08/22 17:14	7440-38-2	
Barium, Dissolved	**24.3**	ug/L	0.30	0.092	1	12/07/22 08:03	12/08/22 17:14	7440-39-3	
Chromium, Dissolved	**0.67J**	ug/L	2.0	0.36	1	12/07/22 08:03	12/08/22 17:14	7440-47-3	
Lead, Dissolved	**0.16J**	ug/L	0.50	0.056	1	12/07/22 08:03	12/08/22 17:14	7439-92-1	
8260D MSV UST	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis								
Benzene	**3.2**	ug/L	1.0	0.10	1		12/07/22 16:38	71-43-2	
Ethylbenzene	**55.0**	ug/L	1.0	0.11	1		12/07/22 16:38	100-41-4	
Naphthalene	**44.8**	ug/L	1.0	0.18	1		12/07/22 16:38	91-20-3	
Toluene	**0.51J**	ug/L	1.0	0.10	1		12/07/22 16:38	108-88-3	
Xylene (Total)	**6.9**	ug/L	3.0	0.20	1		12/07/22 16:38	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	99	%.	75-125		1		12/07/22 16:38	2199-69-1	
4-Bromofluorobenzene (S)	100	%.	75-125		1		12/07/22 16:38	460-00-4	
Toluene-d8 (S)	99	%.	75-125		1		12/07/22 16:38	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Z076000082 P66 Westlake
Pace Project No.: 10635673

Sample: MW-209 **Lab ID: 10635673005** Collected: 11/30/22 14:30 Received: 12/03/22 09:15 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx Pace Analytical Services - Minneapolis								
TPH as Gas	**<22.6**	ug/L	100	22.6	1		12/06/22 19:05		
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%.	50-150		1		12/06/22 19:05	98-08-8	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Minneapolis								
Arsenic	**2.9**	ug/L	0.50	0.092	1	12/07/22 08:03	12/08/22 15:14	7440-38-2	
Barium	**48.0**	ug/L	0.30	0.092	1	12/07/22 08:03	12/08/22 15:14	7440-39-3	
Chromium	**<0.36**	ug/L	2.0	0.36	1	12/07/22 08:03	12/08/22 15:14	7440-47-3	
Lead	**0.092J**	ug/L	0.50	0.056	1	12/07/22 08:03	12/08/22 15:14	7439-92-1	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Minneapolis								
Arsenic, Dissolved	**3.1**	ug/L	0.50	0.092	1	12/07/22 08:03	12/08/22 17:28	7440-38-2	
Barium, Dissolved	**52.1**	ug/L	0.30	0.092	1	12/07/22 08:03	12/08/22 17:28	7440-39-3	
Chromium, Dissolved	**<0.36**	ug/L	2.0	0.36	1	12/07/22 08:03	12/08/22 17:28	7440-47-3	
Lead, Dissolved	**<0.056**	ug/L	0.50	0.056	1	12/07/22 08:03	12/08/22 17:28	7439-92-1	
8260D MSV UST	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis								
Benzene	**<0.10**	ug/L	1.0	0.10	1		12/06/22 20:12	71-43-2	
Ethylbenzene	**<0.11**	ug/L	1.0	0.11	1		12/06/22 20:12	100-41-4	
Naphthalene	**<0.18**	ug/L	1.0	0.18	1		12/06/22 20:12	91-20-3	
Toluene	**<0.10**	ug/L	1.0	0.10	1		12/06/22 20:12	108-88-3	
Xylene (Total)	**<0.20**	ug/L	3.0	0.20	1		12/06/22 20:12	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	101	%.	75-125		1		12/06/22 20:12	2199-69-1	
4-Bromofluorobenzene (S)	99	%.	75-125		1		12/06/22 20:12	460-00-4	
Toluene-d8 (S)	100	%.	75-125		1		12/06/22 20:12	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Z076000082 P66 Westlake
Pace Project No.: 10635673

Sample: MW-210 **Lab ID: 10635673006** Collected: 11/30/22 13:40 Received: 12/03/22 09:15 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx Pace Analytical Services - Minneapolis								
TPH as Gas	**<22.6**	ug/L	100	22.6	1		12/06/22 19:20		
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%.	50-150		1		12/06/22 19:20	98-08-8	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Minneapolis								
Arsenic	**1.4**	ug/L	0.50	0.092	1	12/07/22 08:03	12/08/22 15:22	7440-38-2	
Barium	**103**	ug/L	0.30	0.092	1	12/07/22 08:03	12/08/22 15:22	7440-39-3	
Chromium	**<0.36**	ug/L	2.0	0.36	1	12/07/22 08:03	12/08/22 15:22	7440-47-3	
Lead	**<0.056**	ug/L	0.50	0.056	1	12/07/22 08:03	12/08/22 15:22	7439-92-1	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Minneapolis								
Arsenic, Dissolved	**0.93**	ug/L	0.50	0.092	1	12/07/22 08:03	12/08/22 17:35	7440-38-2	
Barium, Dissolved	**98.5**	ug/L	0.30	0.092	1	12/07/22 08:03	12/08/22 17:35	7440-39-3	
Chromium, Dissolved	**<0.36**	ug/L	2.0	0.36	1	12/07/22 08:03	12/08/22 17:35	7440-47-3	
Lead, Dissolved	**<0.056**	ug/L	0.50	0.056	1	12/07/22 08:03	12/08/22 17:35	7439-92-1	
8260D MSV UST	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis								
Benzene	**<0.10**	ug/L	1.0	0.10	1		12/06/22 20:28	71-43-2	
Ethylbenzene	**<0.11**	ug/L	1.0	0.11	1		12/06/22 20:28	100-41-4	
Naphthalene	**<0.18**	ug/L	1.0	0.18	1		12/06/22 20:28	91-20-3	
Toluene	**<0.10**	ug/L	1.0	0.10	1		12/06/22 20:28	108-88-3	
Xylene (Total)	**<0.20**	ug/L	3.0	0.20	1		12/06/22 20:28	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	103	%.	75-125		1		12/06/22 20:28	2199-69-1	
4-Bromofluorobenzene (S)	96	%.	75-125		1		12/06/22 20:28	460-00-4	
Toluene-d8 (S)	101	%.	75-125		1		12/06/22 20:28	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Z076000082 P66 Westlake
Pace Project No.: 10635673

Sample: MW-211 **Lab ID: 10635673007** Collected: 11/30/22 11:50 Received: 12/03/22 09:15 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx Pace Analytical Services - Minneapolis								
TPH as Gas	**<22.6**	ug/L	100	22.6	1		12/06/22 19:35		
Surrogates									
a,a,a-Trifluorotoluene (S)	103	%.	50-150		1		12/06/22 19:35	98-08-8	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Minneapolis								
Arsenic	**2.0**	ug/L	0.50	0.092	1	12/07/22 08:03	12/08/22 15:29	7440-38-2	
Barium	**63.9**	ug/L	0.30	0.092	1	12/07/22 08:03	12/08/22 15:29	7440-39-3	
Chromium	**<0.36**	ug/L	2.0	0.36	1	12/07/22 08:03	12/08/22 15:29	7440-47-3	
Lead	**<0.056**	ug/L	0.50	0.056	1	12/07/22 08:03	12/08/22 15:29	7439-92-1	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Minneapolis								
Arsenic, Dissolved	**2.1**	ug/L	0.50	0.092	1	12/07/22 08:03	12/08/22 17:43	7440-38-2	
Barium, Dissolved	**63.4**	ug/L	0.30	0.092	1	12/07/22 08:03	12/08/22 17:43	7440-39-3	
Chromium, Dissolved	**<0.36**	ug/L	2.0	0.36	1	12/07/22 08:03	12/08/22 17:43	7440-47-3	
Lead, Dissolved	**<0.056**	ug/L	0.50	0.056	1	12/07/22 08:03	12/08/22 17:43	7439-92-1	
8260D MSV UST	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis								
Benzene	**<0.10**	ug/L	1.0	0.10	1		12/06/22 20:43	71-43-2	
Ethylbenzene	**<0.11**	ug/L	1.0	0.11	1		12/06/22 20:43	100-41-4	
Naphthalene	**<0.18**	ug/L	1.0	0.18	1		12/06/22 20:43	91-20-3	
Toluene	**<0.10**	ug/L	1.0	0.10	1		12/06/22 20:43	108-88-3	
Xylene (Total)	**<0.20**	ug/L	3.0	0.20	1		12/06/22 20:43	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	95	%.	75-125		1		12/06/22 20:43	2199-69-1	
4-Bromofluorobenzene (S)	97	%.	75-125		1		12/06/22 20:43	460-00-4	
Toluene-d8 (S)	100	%.	75-125		1		12/06/22 20:43	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
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ANALYTICAL RESULTS

Project: Z076000082 P66 Westlake
Pace Project No.: 10635673

Sample: MW-212 **Lab ID: 10635673008** Collected: 11/30/22 15:50 Received: 12/03/22 09:15 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx Pace Analytical Services - Minneapolis								
TPH as Gas	**43.4J**	ug/L	100	22.6	1		12/06/22 19:49		
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%.	50-150		1		12/06/22 19:49	98-08-8	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Minneapolis								
Arsenic	**2.7**	ug/L	0.50	0.092	1	12/07/22 08:03	12/08/22 15:36	7440-38-2	
Barium	**173**	ug/L	0.30	0.092	1	12/07/22 08:03	12/08/22 15:36	7440-39-3	
Chromium	**<0.36**	ug/L	2.0	0.36	1	12/07/22 08:03	12/08/22 15:36	7440-47-3	
Lead	**<0.056**	ug/L	0.50	0.056	1	12/07/22 08:03	12/08/22 15:36	7439-92-1	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Minneapolis								
Arsenic, Dissolved	**1.6**	ug/L	0.50	0.092	1	12/07/22 08:03	12/08/22 17:50	7440-38-2	
Barium, Dissolved	**171**	ug/L	0.30	0.092	1	12/07/22 08:03	12/08/22 17:50	7440-39-3	
Chromium, Dissolved	**<0.36**	ug/L	2.0	0.36	1	12/07/22 08:03	12/08/22 17:50	7440-47-3	
Lead, Dissolved	**<0.056**	ug/L	0.50	0.056	1	12/07/22 08:03	12/08/22 17:50	7439-92-1	
8260D MSV UST	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis								
Benzene	**<0.10**	ug/L	1.0	0.10	1		12/06/22 20:59	71-43-2	
Ethylbenzene	**<0.11**	ug/L	1.0	0.11	1		12/06/22 20:59	100-41-4	
Naphthalene	**<0.18**	ug/L	1.0	0.18	1		12/06/22 20:59	91-20-3	
Toluene	**<0.10**	ug/L	1.0	0.10	1		12/06/22 20:59	108-88-3	
Xylene (Total)	**<0.20**	ug/L	3.0	0.20	1		12/06/22 20:59	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	100	%.	75-125		1		12/06/22 20:59	2199-69-1	
4-Bromofluorobenzene (S)	99	%.	75-125		1		12/06/22 20:59	460-00-4	
Toluene-d8 (S)	98	%.	75-125		1		12/06/22 20:59	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Z076000082 P66 Westlake
Pace Project No.: 10635673

Sample: MW-213 **Lab ID: 10635673009** Collected: 12/01/22 09:40 Received: 12/03/22 09:15 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx Pace Analytical Services - Minneapolis								
TPH as Gas	**<22.6**	ug/L	100	22.6	1		12/06/22 21:34		
Surrogates									
a,a,a-Trifluorotoluene (S)	99	%.	50-150		1		12/06/22 21:34	98-08-8	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Minneapolis								
Arsenic	**2.7**	ug/L	0.50	0.092	1	12/07/22 08:03	12/08/22 15:51	7440-38-2	
Barium	**47.4**	ug/L	0.30	0.092	1	12/07/22 08:03	12/08/22 15:51	7440-39-3	
Chromium	**7.2**	ug/L	2.0	0.36	1	12/07/22 08:03	12/08/22 15:51	7440-47-3	
Lead	**0.72**	ug/L	0.50	0.056	1	12/07/22 08:03	12/08/22 15:51	7439-92-1	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Minneapolis								
Arsenic, Dissolved	**2.4**	ug/L	0.50	0.092	1	12/07/22 08:03	12/08/22 18:04	7440-38-2	
Barium, Dissolved	**45.5**	ug/L	0.30	0.092	1	12/07/22 08:03	12/08/22 18:04	7440-39-3	
Chromium, Dissolved	**6.4**	ug/L	2.0	0.36	1	12/07/22 08:03	12/08/22 18:04	7440-47-3	
Lead, Dissolved	**0.14J**	ug/L	0.50	0.056	1	12/07/22 08:03	12/08/22 18:04	7439-92-1	
8260D MSV UST	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis								
Benzene	**<0.10**	ug/L	1.0	0.10	1		12/07/22 16:53	71-43-2	
Ethylbenzene	**<0.11**	ug/L	1.0	0.11	1		12/07/22 16:53	100-41-4	
Naphthalene	**<0.18**	ug/L	1.0	0.18	1		12/09/22 12:57	91-20-3	
Toluene	**<0.10**	ug/L	1.0	0.10	1		12/07/22 16:53	108-88-3	
Xylene (Total)	**<0.20**	ug/L	3.0	0.20	1		12/07/22 16:53	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	99	%.	75-125		1		12/07/22 16:53	2199-69-1	
4-Bromofluorobenzene (S)	99	%.	75-125		1		12/07/22 16:53	460-00-4	
Toluene-d8 (S)	100	%.	75-125		1		12/07/22 16:53	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Z076000082 P66 Westlake
Pace Project No.: 10635673

Sample: MW-214 **Lab ID: 10635673010** Collected: 12/01/22 10:25 Received: 12/03/22 09:15 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx Pace Analytical Services - Minneapolis								
TPH as Gas	**<22.6**	ug/L	100	22.6	1		12/06/22 22:33		
Surrogates									
a,a,a-Trifluorotoluene (S)	99	%.	50-150		1		12/06/22 22:33	98-08-8	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Minneapolis								
Arsenic	**3.1**	ug/L	0.50	0.092	1	12/07/22 08:03	12/08/22 15:58	7440-38-2	
Barium	**18.4**	ug/L	0.30	0.092	1	12/07/22 08:03	12/08/22 15:58	7440-39-3	
Chromium	**2.5**	ug/L	2.0	0.36	1	12/07/22 08:03	12/08/22 15:58	7440-47-3	
Lead	**0.079J**	ug/L	0.50	0.056	1	12/07/22 08:03	12/08/22 15:58	7439-92-1	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Minneapolis								
Arsenic, Dissolved	**2.9**	ug/L	0.50	0.092	1	12/07/22 08:03	12/08/22 18:12	7440-38-2	
Barium, Dissolved	**18.6**	ug/L	0.30	0.092	1	12/07/22 08:03	12/08/22 18:12	7440-39-3	
Chromium, Dissolved	**2.2**	ug/L	2.0	0.36	1	12/07/22 08:03	12/08/22 18:12	7440-47-3	
Lead, Dissolved	**<0.056**	ug/L	0.50	0.056	1	12/07/22 08:03	12/08/22 18:12	7439-92-1	
8260D MSV UST	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis								
Benzene	**<0.10**	ug/L	1.0	0.10	1		12/07/22 17:08	71-43-2	
Ethylbenzene	**<0.11**	ug/L	1.0	0.11	1		12/07/22 17:08	100-41-4	
Naphthalene	**<0.18**	ug/L	1.0	0.18	1		12/09/22 13:13	91-20-3	
Toluene	**<0.10**	ug/L	1.0	0.10	1		12/07/22 17:08	108-88-3	
Xylene (Total)	**<0.20**	ug/L	3.0	0.20	1		12/07/22 17:08	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	99	%.	75-125		1		12/07/22 17:08	2199-69-1	
4-Bromofluorobenzene (S)	100	%.	75-125		1		12/07/22 17:08	460-00-4	
Toluene-d8 (S)	99	%.	75-125		1		12/07/22 17:08	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: Z076000082 P66 Westlake
Pace Project No.: 10635673

Sample: MW-215 **Lab ID: 10635673011** Collected: 12/01/22 11:15 Received: 12/03/22 09:15 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx Pace Analytical Services - Minneapolis								
TPH as Gas	**<22.6**	ug/L	100	22.6	1		12/06/22 22:48		
Surrogates									
a,a,a-Trifluorotoluene (S)	98	%.	50-150		1		12/06/22 22:48	98-08-8	
200.8 MET ICPMS	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Minneapolis								
Arsenic	**1.8**	ug/L	0.50	0.092	1	12/07/22 08:03	12/08/22 16:05	7440-38-2	
Barium	**14.9**	ug/L	0.30	0.092	1	12/07/22 08:03	12/08/22 16:05	7440-39-3	
Chromium	**<0.36**	ug/L	2.0	0.36	1	12/07/22 08:03	12/08/22 16:05	7440-47-3	
Lead	**0.49J**	ug/L	0.50	0.056	1	12/07/22 08:03	12/08/22 16:05	7439-92-1	
200.8 MET ICPMS, Dissolved	Analytical Method: EPA 200.8 Preparation Method: EPA 200.8 Pace Analytical Services - Minneapolis								
Arsenic, Dissolved	**1.9**	ug/L	0.50	0.092	1	12/07/22 08:03	12/08/22 18:19	7440-38-2	
Barium, Dissolved	**14.8**	ug/L	0.30	0.092	1	12/07/22 08:03	12/08/22 18:19	7440-39-3	
Chromium, Dissolved	**<0.36**	ug/L	2.0	0.36	1	12/07/22 08:03	12/08/22 18:19	7440-47-3	
Lead, Dissolved	**0.47J**	ug/L	0.50	0.056	1	12/07/22 08:03	12/08/22 18:19	7439-92-1	
8260D MSV UST	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis								
Benzene	**<0.10**	ug/L	1.0	0.10	1		12/07/22 17:23	71-43-2	
Ethylbenzene	**<0.11**	ug/L	1.0	0.11	1		12/07/22 17:23	100-41-4	
Naphthalene	**0.24J**	ug/L	1.0	0.18	1		12/07/22 17:23	91-20-3	
Toluene	**<0.10**	ug/L	1.0	0.10	1		12/07/22 17:23	108-88-3	
Xylene (Total)	**<0.20**	ug/L	3.0	0.20	1		12/07/22 17:23	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	99	%.	75-125		1		12/07/22 17:23	2199-69-1	
4-Bromofluorobenzene (S)	98	%.	75-125		1		12/07/22 17:23	460-00-4	
Toluene-d8 (S)	99	%.	75-125		1		12/07/22 17:23	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: Z076000082 P66 Westlake
Pace Project No.: 10635673

Sample: Trip Blank **Lab ID: 10635673012** Collected: 11/30/22 00:00 Received: 12/03/22 09:15 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
NWTPH-Gx GCV	Analytical Method: NWTPH-Gx Pace Analytical Services - Minneapolis								
TPH as Gas	**<22.6**	ug/L	100	22.6	1		12/06/22 20:04		
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%.	50-150		1		12/06/22 20:04	98-08-8	
8260D MSV UST	Analytical Method: EPA 8260D Pace Analytical Services - Minneapolis								
Benzene	**<0.10**	ug/L	1.0	0.10	1		12/06/22 19:26	71-43-2	
Ethylbenzene	**<0.11**	ug/L	1.0	0.11	1		12/06/22 19:26	100-41-4	
Naphthalene	**<0.18**	ug/L	1.0	0.18	1		12/06/22 19:26	91-20-3	
Toluene	**<0.10**	ug/L	1.0	0.10	1		12/06/22 19:26	108-88-3	
Xylene (Total)	**<0.20**	ug/L	3.0	0.20	1		12/06/22 19:26	1330-20-7	
Surrogates									
1,2-Dichlorobenzene-d4 (S)	100	%.	75-125		1		12/06/22 19:26	2199-69-1	
4-Bromofluorobenzene (S)	102	%.	75-125		1		12/06/22 19:26	460-00-4	
Toluene-d8 (S)	99	%.	75-125		1		12/06/22 19:26	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
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QUALITY CONTROL DATA

Project: Z076000082 P66 Westlake
Pace Project No.: 10635673

QC Batch: 857013 | Analysis Method: NWTPH-Gx
QC Batch Method: NWTPH-Gx | Analysis Description: NWTPH-Gx Water
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10635673001, 10635673002, 10635673003, 10635673005, 10635673006, 10635673007, 10635673008, 10635673009, 10635673010, 10635673011, 10635673012

METHOD BLANK: 4528875 Matrix: Water
Associated Lab Samples: 10635673001, 10635673002, 10635673003, 10635673005, 10635673006, 10635673007, 10635673008, 10635673009, 10635673010, 10635673011, 10635673012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
TPH as Gas	ug/L	<22.6	100	22.6	12/06/22 18:50	
a,a,a-Trifluorotoluene (S)	%.	102	50-150		12/06/22 18:50	

METHOD BLANK: 4528876 Matrix: Water
Associated Lab Samples: 10635673001, 10635673002, 10635673003, 10635673005, 10635673006, 10635673007, 10635673008, 10635673009, 10635673010, 10635673011, 10635673012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
TPH as Gas	ug/L	<22.6	100	22.6	12/06/22 22:19	
a,a,a-Trifluorotoluene (S)	%.	100	50-150		12/06/22 22:19	

LABORATORY CONTROL SAMPLE & LCSD: 4528877 4528878

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
TPH as Gas	ug/L	1000	994	904	99	90	75-125	10	20	
a,a,a-Trifluorotoluene (S)	%.				106	101	50-150			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4528881 4528882

Parameter	Units	10635865006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH as Gas	ug/L	186	1000	1000	1050	1050	86	86	65-126	0	30	
a,a,a-Trifluorotoluene (S)	%.						101	101	50-150			

SAMPLE DUPLICATE: 4528879

Parameter	Units	10636092001 Result	Dup Result	RPD	Max RPD	Qualifiers
TPH as Gas	ug/L	1630	1650	1	30	
a,a,a-Trifluorotoluene (S)	%.	100	100			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: Z076000082 P66 Westlake
Pace Project No.: 10635673

SAMPLE DUPLICATE: 4528880

Parameter	Units	10635865006 Result	Dup Result	RPD	Max RPD	Qualifiers
TPH as Gas	ug/L	186	158	16	30	
a,a,a-Trifluorotoluene (S)	%.	99	98			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Z076000082 P66 Westlake
Pace Project No.: 10635673

QC Batch: 857287
QC Batch Method: NWTPH-Gx
Analysis Method: NWTPH-Gx
Analysis Description: NWTPH-Gx Water
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10635673004

METHOD BLANK: 4530264 Matrix: Water
Associated Lab Samples: 10635673004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
TPH as Gas	ug/L	<22.6	100	22.6	12/07/22 16:52	
a,a,a-Trifluorotoluene (S)	%.	106	50-150		12/07/22 16:52	

METHOD BLANK: 4530265 Matrix: Water
Associated Lab Samples: 10635673004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
TPH as Gas	ug/L	<22.6	100	22.6	12/07/22 20:06	
a,a,a-Trifluorotoluene (S)	%.	101	50-150		12/07/22 20:06	

LABORATORY CONTROL SAMPLE & LCSD: 4530266 4530267

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
TPH as Gas	ug/L	1000	886	884	89	88	75-125	0	20	
a,a,a-Trifluorotoluene (S)	%.				107	100	50-150			

SAMPLE DUPLICATE: 4530268

Parameter	Units	10636066006 Result	Dup Result	RPD	Max RPD	Qualifiers
TPH as Gas	ug/L	<22.6	<22.6		30	
a,a,a-Trifluorotoluene (S)	%.	103	103			

SAMPLE DUPLICATE: 4530269

Parameter	Units	10635673004 Result	Dup Result	RPD	Max RPD	Qualifiers
TPH as Gas	ug/L	1580	1590	1	30	
a,a,a-Trifluorotoluene (S)	%.	99	100			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Z076000082 P66 Westlake
Pace Project No.: 10635673

QC Batch: 857103
QC Batch Method: EPA 200.8
Analysis Method: EPA 200.8
Analysis Description: 200.8 MET
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10635673001, 10635673002, 10635673003, 10635673004, 10635673005, 10635673006, 10635673007, 10635673008, 10635673009, 10635673010, 10635673011

METHOD BLANK: 4529477 Matrix: Water
Associated Lab Samples: 10635673001, 10635673002, 10635673003, 10635673004, 10635673005, 10635673006, 10635673007, 10635673008, 10635673009, 10635673010, 10635673011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	ug/L	<0.092	0.50	0.092	12/08/22 14:09	
Barium	ug/L	<0.092	0.30	0.092	12/08/22 14:09	
Chromium	ug/L	<0.36	2.0	0.36	12/08/22 14:09	
Lead	ug/L	<0.056	0.50	0.056	12/08/22 14:09	

LABORATORY CONTROL SAMPLE: 4529478

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	100	105	105	85-115	
Barium	ug/L	100	99.5	100	85-115	
Chromium	ug/L	100	107	107	85-115	
Lead	ug/L	100	103	103	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4529479 4529480

Parameter	Units	10635673001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	ug/L	4.3	100	100	114	114	109	109	70-130	0	20	
Barium	ug/L	38.7	100	100	143	140	105	101	70-130	2	20	
Chromium	ug/L	1.7J	100	100	115	111	113	110	70-130	3	20	
Lead	ug/L	<0.056	100	100	103	101	103	101	70-130	2	20	

MATRIX SPIKE SAMPLE: 4529481

Parameter	Units	10635673011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	1.8	100	107	105	70-130	
Barium	ug/L	14.9	100	115	100	70-130	
Chromium	ug/L	<0.36	100	108	108	70-130	
Lead	ug/L	0.49J	100	101	101	70-130	

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REPORT OF LABORATORY ANALYSIS

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1700 Elm Street
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(612)607-1700

QUALITY CONTROL DATA

Project: Z076000082 P66 Westlake
Pace Project No.: 10635673

QC Batch: 857096
QC Batch Method: EPA 200.8
Analysis Method: EPA 200.8
Analysis Description: 200.8 MET Dissolved
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10635673001, 10635673002, 10635673003, 10635673004, 10635673005, 10635673006, 10635673007, 10635673008, 10635673009, 10635673010, 10635673011

METHOD BLANK: 4529446 Matrix: Water
Associated Lab Samples: 10635673001, 10635673002, 10635673003, 10635673004, 10635673005, 10635673006, 10635673007, 10635673008, 10635673009, 10635673010, 10635673011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic, Dissolved	ug/L	<0.092	0.50	0.092	12/08/22 16:23	
Barium, Dissolved	ug/L	<0.092	0.30	0.092	12/08/22 16:23	
Chromium, Dissolved	ug/L	<0.36	2.0	0.36	12/08/22 16:23	
Lead, Dissolved	ug/L	<0.056	0.50	0.056	12/08/22 16:23	

LABORATORY CONTROL SAMPLE: 4529447

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	100	106	106	85-115	
Barium, Dissolved	ug/L	100	101	101	85-115	
Chromium, Dissolved	ug/L	100	108	108	85-115	
Lead, Dissolved	ug/L	100	105	105	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4529448 4529449

Parameter	Units	10635673001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic, Dissolved	ug/L	4.3	100	100	109	113	105	108	70-130	3	20	
Barium, Dissolved	ug/L	38.0	100	100	139	138	101	100	70-130	1	20	
Chromium, Dissolved	ug/L	0.49J	100	100	109	110	109	110	70-130	1	20	
Lead, Dissolved	ug/L	<0.056	100	100	100	103	100	103	70-130	3	20	

MATRIX SPIKE SAMPLE: 4529450

Parameter	Units	10635673011 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	1.9	100	106	104	70-130	
Barium, Dissolved	ug/L	14.8	100	118	103	70-130	
Chromium, Dissolved	ug/L	<0.36	100	111	110	70-130	
Lead, Dissolved	ug/L	0.47J	100	104	104	70-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: Z076000082 P66 Westlake
Pace Project No.: 10635673

QC Batch: 857032
QC Batch Method: EPA 8260D
Analysis Method: EPA 8260D
Analysis Description: 8260D MSV UST-WATER
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10635673005, 10635673006, 10635673007, 10635673008, 10635673012

METHOD BLANK: 4528982 Matrix: Water
Associated Lab Samples: 10635673005, 10635673006, 10635673007, 10635673008, 10635673012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Benzene	ug/L	<0.10	1.0	0.10	12/06/22 19:10	
Ethylbenzene	ug/L	<0.11	1.0	0.11	12/06/22 19:10	
Naphthalene	ug/L	<0.18	1.0	0.18	12/06/22 19:10	
Toluene	ug/L	<0.10	1.0	0.10	12/06/22 19:10	
Xylene (Total)	ug/L	<0.20	3.0	0.20	12/06/22 19:10	
1,2-Dichlorobenzene-d4 (S)	%.	101	75-125		12/06/22 19:10	
4-Bromofluorobenzene (S)	%.	98	75-125		12/06/22 19:10	
Toluene-d8 (S)	%.	101	75-125		12/06/22 19:10	

LABORATORY CONTROL SAMPLE & LCSD: 4528983 4528984

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Benzene	ug/L	20	20.2	19.1	101	96	73-125	5	20	
Ethylbenzene	ug/L	20	20.2	19.9	101	100	75-125	1	20	
Naphthalene	ug/L	20	20.4	19.5	102	97	66-127	5	20	
Toluene	ug/L	20	20.6	19.5	103	97	74-125	6	20	
Xylene (Total)	ug/L	60	62.6	59.2	104	99	72-125	6	20	
1,2-Dichlorobenzene-d4 (S)	%.				99	102	75-125			
4-Bromofluorobenzene (S)	%.				99	98	75-125			
Toluene-d8 (S)	%.				100	99	75-125			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Z076000082 P66 Westlake
Pace Project No.: 10635673

QC Batch: 857222 | Analysis Method: EPA 8260D
QC Batch Method: EPA 8260D | Analysis Description: 8260D MSV UST-WATER
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10635673001, 10635673002, 10635673003, 10635673004, 10635673009, 10635673010, 10635673011

METHOD BLANK: 4529890 Matrix: Water
Associated Lab Samples: 10635673001, 10635673002, 10635673003, 10635673004, 10635673009, 10635673010, 10635673011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Benzene	ug/L	<0.10	1.0	0.10	12/07/22 13:17	
Ethylbenzene	ug/L	<0.11	1.0	0.11	12/07/22 13:17	
Naphthalene	ug/L	<0.18	1.0	0.18	12/07/22 13:17	
Toluene	ug/L	<0.10	1.0	0.10	12/07/22 13:17	
Xylene (Total)	ug/L	<0.20	3.0	0.20	12/07/22 13:17	
1,2-Dichlorobenzene-d4 (S)	%.	98	75-125		12/07/22 13:17	
4-Bromofluorobenzene (S)	%.	101	75-125		12/07/22 13:17	
Toluene-d8 (S)	%.	99	75-125		12/07/22 13:17	

LABORATORY CONTROL SAMPLE & LCSD: 4529891 4529892

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Benzene	ug/L	20	19.0	19.3	95	97	73-125	2	20	
Ethylbenzene	ug/L	20	20.3	20.4	102	102	75-125	0	20	
Naphthalene	ug/L	20	18.6	18.2	93	91	66-127	2	20	
Toluene	ug/L	20	18.2	18.3	91	92	74-125	1	20	
Xylene (Total)	ug/L	60	60.8	61.6	101	103	72-125	1	20	
1,2-Dichlorobenzene-d4 (S)	%.				97	97	75-125			
4-Bromofluorobenzene (S)	%.				103	103	75-125			
Toluene-d8 (S)	%.				100	101	75-125			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Z076000082 P66 Westlake
Pace Project No.: 10635673

QC Batch: 857706
QC Batch Method: EPA 8260D
Analysis Method: EPA 8260D
Analysis Description: 8260D MSV UST-WATER
Laboratory: Pace Analytical Services - Minneapolis
Associated Lab Samples: 10635673009, 10635673010

METHOD BLANK: 4532632 Matrix: Water
Associated Lab Samples: 10635673009, 10635673010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Naphthalene	ug/L	<0.18	1.0	0.18	12/09/22 11:18	
1,2-Dichlorobenzene-d4 (S)	%.	101	75-125		12/09/22 11:18	
4-Bromofluorobenzene (S)	%.	104	75-125		12/09/22 11:18	
Toluene-d8 (S)	%.	102	75-125		12/09/22 11:18	

LABORATORY CONTROL SAMPLE & LCSD: 4532633 4532634

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Naphthalene	ug/L	20	19.7	19.7	98	98	66-127	0	20	
1,2-Dichlorobenzene-d4 (S)	%.				103	102	75-125			
4-Bromofluorobenzene (S)	%.				100	101	75-125			
Toluene-d8 (S)	%.				98	95	75-125			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1700 Elm Street
Minneapolis, MN 55414
(612)607-1700

QUALIFIERS

Project: Z076000082 P66 Westlake
Pace Project No.: 10635673

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

BATCH QUALIFIERS

Batch: 857032

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: 857222

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: 857287

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: 857706

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Z076000082 P66 Westlake
Pace Project No.: 10635673

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10635673001	**MWR-1**	NWTPH-Gx	857013		
10635673002	**MWR-3**	NWTPH-Gx	857013		
10635673003	**MWR-4**	NWTPH-Gx	857013		
10635673004	**MWR-5**	NWTPH-Gx	857287		
10635673005	**MW-209**	NWTPH-Gx	857013		
10635673006	**MW-210**	NWTPH-Gx	857013		
10635673007	**MW-211**	NWTPH-Gx	857013		
10635673008	**MW-212**	NWTPH-Gx	857013		
10635673009	**MW-213**	NWTPH-Gx	857013		
10635673010	**MW-214**	NWTPH-Gx	857013		
10635673011	**MW-215**	NWTPH-Gx	857013		
10635673012	**Trip Blank**	NWTPH-Gx	857013		
10635673001	**MWR-1**	EPA 200.8	857103	EPA 200.8	857312
10635673002	**MWR-3**	EPA 200.8	857103	EPA 200.8	857312
10635673003	**MWR-4**	EPA 200.8	857103	EPA 200.8	857312
10635673004	**MWR-5**	EPA 200.8	857103	EPA 200.8	857312
10635673005	**MW-209**	EPA 200.8	857103	EPA 200.8	857312
10635673006	**MW-210**	EPA 200.8	857103	EPA 200.8	857312
10635673007	**MW-211**	EPA 200.8	857103	EPA 200.8	857312
10635673008	**MW-212**	EPA 200.8	857103	EPA 200.8	857312
10635673009	**MW-213**	EPA 200.8	857103	EPA 200.8	857312
10635673010	**MW-214**	EPA 200.8	857103	EPA 200.8	857312
10635673011	**MW-215**	EPA 200.8	857103	EPA 200.8	857312
10635673001	**MWR-1**	EPA 200.8	857096	EPA 200.8	857311
10635673002	**MWR-3**	EPA 200.8	857096	EPA 200.8	857311
10635673003	**MWR-4**	EPA 200.8	857096	EPA 200.8	857311
10635673004	**MWR-5**	EPA 200.8	857096	EPA 200.8	857311
10635673005	**MW-209**	EPA 200.8	857096	EPA 200.8	857311
10635673006	**MW-210**	EPA 200.8	857096	EPA 200.8	857311
10635673007	**MW-211**	EPA 200.8	857096	EPA 200.8	857311
10635673008	**MW-212**	EPA 200.8	857096	EPA 200.8	857311
10635673009	**MW-213**	EPA 200.8	857096	EPA 200.8	857311
10635673010	**MW-214**	EPA 200.8	857096	EPA 200.8	857311
10635673011	**MW-215**	EPA 200.8	857096	EPA 200.8	857311
10635673001	**MWR-1**	EPA 8260D	857222		
10635673002	**MWR-3**	EPA 8260D	857222		
10635673003	**MWR-4**	EPA 8260D	857222		
10635673004	**MWR-5**	EPA 8260D	857222		
10635673005	**MW-209**	EPA 8260D	857032		
10635673006	**MW-210**	EPA 8260D	857032		
10635673007	**MW-211**	EPA 8260D	857032		
10635673008	**MW-212**	EPA 8260D	857032		
10635673009	**MW-213**	EPA 8260D	857222		
10635673009	**MW-213**	EPA 8260D	857706		

REPORT OF LABORATORY ANALYSIS

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Minneapolis, MN 55414
(612)607-1700

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Z076000082 P66 Westlake
Pace Project No.: 10635673

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10635673010	**MW-214**	EPA 8260D	857222		
10635673010	**MW-214**	EPA 8260D	857706		
10635673011	**MW-215**	EPA 8260D	857222		
10635673012	**Trip Blank**	EPA 8260D	857032		

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Doc

WO# : 10635673

10635673

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be c

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://info.pacelabs.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Atlas	Report To:	elisabeth.silver@anchorqea.com	Attention:	Accounts Payable
Address:	6347 Seaview Ave NW	Copy To:		Company Name:	Atlas
	Seattle, WA 98107			Address:	
Email:		Purchase Order #:		Pace Quote:	
Phone:	Fax:	Project Name:	P66 Westlake	Pace Project Manager:	jennifer.gross@pacelabs.com,
Requested Due Date:	*Standard*	Project #:	70710000091	Pace Profile #:	*39765 / Line 9*

Regulatory Agency

State / Location: WA / Westlake

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Total As, Ba, Cr, Pb by 200.8	Diss. As, Ba, Cr, Pb by 200.8 (FF)	NWTPH-GX	8260D BTEX/MTBE	cPAH by 8270E SIM*	NW-HCID** (SUB: Fremont)	Residual Chlorine (Y/N)	Please report only Naphthalene for all samples
1	MW R-1	WT	G	12/1/22	1340				10			2	3				Y	X	X	X	X	X			001
2	MW R-3	WT	G	12/1/22	1255				10			2	3					X	X	X	X	X			002
3	MW R-4	WT	G	12/1/22	1430				10			2	3					X	X	X	X	X			003
4	MW R-5	WT	G	12/1/22	1515				10			2	3					X	X	X	X	X			004
5	MW-209	WT	G	11/30/22	1430				10			2	3					X	X	X	X	X			005
6	MW-210	WT	G	11/30/22	1340				10			2	3					X	X	X	X	X			006
7	MW-211	WT	G	11/30/22	1150				10			2	3					X	X	X	X	X			007
8	MW-212	WT	G	11/30/22	1550				10			2	3					X	X	X	X	X			008
9	MW-213	WT	G	12/1/22	940				10			2	3					X	X	X	X	X			009
10	MW-214	WT	G	12/1/22	1025				10			2	3					X	X	X	X	X			010
11	MW-215	WT	G	12/1/22	1115				10			2	3					X	X	X	X	X			011
12																									

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
*cPAH SIM: Benzo(a)Pyrene, Benzo(a)Anthracene, Benzo(b)Fluoranthene, Benzo(j,k)Fluoranthene, Chrysene, Dibenz(a,h)Anthracene, Indeno(1,2,3-cd)Pyrene	Isabella Ancona	12/2/22	1400	ANC Pace	12/3/22	9:15	1.4	X	Y	X
							0.6			
**HCID: diesel, heavy oil, kerosene (SUB to Fremont Analytical)							1.6			

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Isabella Ancona

SIGNATURE of SAMPLER: Isabella Ancona

DATE Signed: 12/1/22

TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

DC#_Title: ENV-FRM-MIN4-0150 v11_Sample Condition Upon Receipt (SCUR)
Effective Date: 11/16/2022

Sample Condition Upon Receipt

Client Name: Atlas

Project #: WO#: 10635673
PM: JMG Due Date: 12/19/22
CLIENT: ATC_WA

Courier: ☑ FedEx ☐ UPS ☐ USPS ☐ Client ☑ Pace ☐ SpeeDee ☐ Commercial

☑ See Exceptions ENV-FRM-MIN4-0142

Tracking Number: _____

Custody Seal on Cooler/Box Present? ☑ Yes ☐ No **Seals Intact?** ☑ Yes ☐ No **Biological Tissue Frozen?** ☐ Yes ☐ No ☑ N/A

Packing Material: ☑ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other **Temp Blank?** ☑ Yes ☐ No

Thermometer: ☐ T1 (0461) ☑ T2 (1336) ☐ T3 (0459) ☐ T4 (0254) ☐ T5 (0178) ☐ T6 (0235) ☐ T7 (0042) ☐ T8 (0775) ☐ T9(0727) ☐ 01339252/1710

Type of Ice: ☑ Wet ☐ Blue ☐ Dry ☐ None ☑ Melted

Did Samples Originate in West Virginia? ☐ Yes ☑ No **Were All Container Temps Taken?** ☐ Yes ☐ No ☑ N/A

Temp should be above freezing to 6 °C **Cooler temp Read w/Temp Blank:** 1.7, 0.5 °C 1.5

Correction Factor: add 0.1 **Cooler Temp Corrected w/temp blank:** 1.4, 0.6, 1.6 °C

Average Corrected Temp (no temp blank only): _____ °C
☐ See Exceptions ENV-FRM-MIN4-0142 ☐ 1 Container

USDA Regulated Soil: ☑ N/A, water sample/other: _____) **Date/Initials of Person Examining Contents:** 12/3/22 AP(3

Did samples originate in a quarantine zone within the United States: AL, AR, AZ CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check maps)? ☐ Yes ☑ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☑ No

If Yes to either question, fill out a Regulated Soil Checklist (ENV-FRM-MIN4-0154) and include with SCUR/COC paperwork.

Location (Check one): ☐ Duluth ☑ Minneapolis ☐ Virginia				**COMMENTS**
Chain of Custody Present and Filled Out?	☑ Yes	☐ No		1.
Chain of Custody Relinquished?	☑ Yes	☐ No		2.
Sampler Name and/or Signature on COC?	☑ Yes	☐ No	☐ N/A	3.
Samples Arrived within Hold Time?	☑ Yes	☐ No		4. If fecal: ☐ <8 hrs ☐ >8 hr, <24 ☐ No
Short Hold Time Analysis (<72 hr)?	☐ Yes	☑ No		5. ☐ Fecal Coliform ☐ HPC ☐ Total Coliform/E.coli ☐ BOD/cBOD ☐ Hex Chrom ☐ Turbidity ☐ Nitrate ☐ Nitrite ☐ Orthophos ☐ Other _____
Rush Turn Around Time Requested?	☐ Yes	☑ No		6.
Sufficient Sample Volume?	☑ Yes	☐ No		7.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	8.
-Pace Containers Used?	☑ Yes	☐ No		
Containers Intact?	☑ Yes	☐ No		9.
Field Filtered Volume Received for Dissolved Tests?	☑ Yes	☐ No	☐ N/A	10. Is sediment visible in the dissolved container? ☐ Yes ☐ No
Is sufficient information available to reconcile the samples to the COC? Matrix: ☑ Water ☐ Soil ☐ Oil ☐ Other	☑ Yes	☐ No		11. **If no, write ID/Date/Time of container below:** ☐ See Exceptions ENV-FRM-MIN4-0142
All containers needing acid/base preservation have been checked?	☑ Yes	☐ No	☐ N/A	12. Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO3, H2SO4, <2pH, NaOH >9 Sulfide, NaOH>10 Cyanide)	☑ Yes	☐ No	☐ N/A	☐ NaOH ☐ HNO3 ☐ H2SO4 ☐ Zinc Acetate
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxins/PFAS (*If adding preservative to a container, it must be added to associated field and equipment blanks--verify with PM first.)	☑ Yes	☐ No	☐ N/A	Positive for Residual Chlorine? ☐ Yes ☐ No ☐ See Exceptions ENV-FRM-MIN4-0142
				pH Paper Lot #
				Residual Chlorine | 0-6 Roll | 0-6 Strip | 0-14 Strip
Headspace in Methyl Mercury Container?	☐ Yes	☐ No	☑ N/A	13.
Extra labels present on soil VOA or WIDRO containers?	☐ Yes	☐ No	☑ N/A	14. ☐ See Exceptions ENV-FRM-MIN4-0142
Headspace in VOA Vials (greater than 6mm)?	☐ Yes	☐ No	☑ N/A	
3 Trip Blanks Present?	☑ Yes	☐ No	☐ N/A	15.
Trip Blank Custody Seals Present?	☑ Yes	☐ No	☐ N/A	Pace Trip Blank Lot # (if purchased): 346635 (6)

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: Elisabeth Silver Date/Time: 12/5/22

Comments/Resolution: Volume not received for 8270. Cancel MTBE, add naphthalene and NW-HCID. NW-HCID canceled 12/13/22.

Project Manager Review: Jenni Gross **Date:** 12/6/22

NOTE: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e., out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled By: KB **Line:** (2)

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-MIN4-0142 v02_Sample Condition Upon Receipt (SCUR) Exception Form
	Effective Date: 09/22/2022

Workorder #: _____

No Temp Blank		
Read Temp	Corrected Temp	Average temp

PM Notified of Out of Temp Cooler? ☐ Yes ☐ No
If yes, indicate who was contacted, date and time. If no, indicate reason why.
_____
Multiple Cooler Project? ☐ Yes ☐ No

If anything is OVER 6.0° C, you MUST document containers in this section HERE

Tracking Number	Temperature
3915 7659 6825	1.4
3915 7659 6814	0.6
3915 7659 6836	1.6

Out of Temp Sample ID	Container Type	# of Containers

pH Adjustment Log for Preserved Samples										
Sample ID	Type Of Preserve	pH Upon Receipt	Date Adjusted	Time Adjusted	Amount Added (mL)	Lot # Added	pH After	In Compliance After Addition?		Initials
								☐ Yes	☐ No	
								☐ Yes	☐ No	
								☐ Yes	☐ No	
								☐ Yes	☐ No	
								☐ Yes	☐ No	
								☐ Yes	☐ No	
								☐ Yes	☐ No	
								☐ Yes	☐ No	

Comments:

_____

_____

_____