



Phase II Environmental Site Assessment Report,  
1021 & 1037 Baseline Street  
Cornelius, OR

Prepared for:

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## Title and Approval Sheet

### Phase II Environmental Site Assessment Report, 1021 & 1037 Baseline St, Cornelius, OR

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## Acronyms and Abbreviations

µg/m <sup>3</sup>	micrograms per cubic meter
ACBM	asbestos-containing building material
Alta	Alta Science & Engineering, Inc.
Applicant	City of Cornelius
ASTM	ASTM International
AUL	Activity and Use Limitation
bgs	below ground surface
BTEX	benzene, toluene, ethylbenzene, and total xylenes
BTEXN	benzene, toluene, ethylbenzene, total xylenes, and naphthalene
COC	constituent of concern
ODEQ	Oregon Department of Environmental Quality
DQO	data quality objective
EDB	ethylene dibromide
EDC	1,2-dichloroethane
EPA	U.S. Environmental Protection Agency
ERG	Eastern Research Group, Inc.
ESA	Environmental Site Assessment
HBMS	Hazardous Building Materials Survey
HID	High Intensity Discharge
Holt	Holt Services, Inc.
K&S	K&S Environmental
LBP	lead-based paint
LCP	lead-containing paint
LCS	laboratory control sample
LCSD	laboratory control sample duplicate
MCL	maximum contaminant level
MDL	method detection limit
mg/L	milligrams per liter
mg/kg	milligrams per kilogram
MS	matrix spike
MSD	matrix spike duplicate
OR	Oregon

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PAH	polycyclic aromatic hydrocarbon
PBS	PBS Engineering and Environmental
PCB	polychlorinated biphenyl
PID	photo-ionization detector
PPA	Prospective Purchased Agreement
ppm	parts per million
PVC	polyvinyl chloride
QAPP	Quality Assurance Project Plan
QAO	Quality Assurance Officer
QA/QC	quality assurance/quality control
RBC	risk-based concentration
RCRA	Resource Conservation and Recovery Act
REC	recognized environmental condition
RL	reporting limit
RPD	relative percent difference
RSL	Regional Screening Level
SIM	select ion monitoring
SL	screening level
TBA	Targeted Brownfields Assessment
TPH-DRO	total petroleum hydrocarbons as diesel range organics
TPH-GRO	total petroleum hydrocarbons as gasoline range organics
USCS	Unified Soil Classification System
VISL	Vapor Intrusion Screening Level
VOC	volatile organic compound

## Executive Summary

The U.S. Environmental Protection Agency (EPA) Region 10 Targeted Brownfields Assessment (TBA) Program engaged Eastern Research Group, Inc. (ERG) to conduct a TBA of the Site located at 1021 and 1037 Baseline Street, Cornelius, Oregon (the “TBA Site”, the “Site” or the “subject property”). ERG partnered with Alta Science & Engineering, Inc. (Alta) to perform the assessment. The TBA included a Phase I Environmental Site Assessment (ESA) in November 2024 to identify the presence of recognized environmental conditions (RECs), followed by a Phase II ESA to acquire information regarding the nature of contamination and risks posed by that contamination to support future cleanup of the Site.

The subject property is located in the central portion of Cornelius, Oregon, and consists of two parcels: Parcel ID R407081 and Parcel ID R407090, totaling 0.53 acres (Figure 1). The TBA Site is currently owned by the City of Cornelius, and is unused and vacant. The subject property currently contains three out-of-use fueling islands and a kiosk underneath a canopy, a bathroom/office building on the southwestern portion of the property, as well five inactive underground storage tanks (USTs) and two decommissioned USTs located on the western portion of the Site. The subject property was first developed by at least 1912 with a rail spur associated with the Southern Pacific Railroad and was used commercially as a fueling station from 1953 until 2007. Since 2007, the Site has been out of use. The Site is accessible via Baseline Street or South 10<sup>th</sup> Avenue.

The Site has seven known USTs on-site (installation dates and current status provided in parenthesis): two 3,000-gallon diesel tanks (1957, decommissioned in-place), one 4,000-gallon gasoline tank (1981, inactive), one 5,000-gallon gasoline tank (1981, inactive), one 8,000-gallon gasoline tank (1983, inactive), one 3,000-gallon diesel tank (1985, inactive), and one 10,000-gallon gasoline tank (1985, inactive). In 2006, a release of petroleum products was identified and investigated in the vicinity of the 5,000-gallon UST. Subsequent sampling events were conducted intermittently from 2007 to 2018 for subsurface soil and groundwater on the western portion of the Site, which identified exceedances of Oregon Department of Environmental Quality (ODEQ) risk-based concentrations (RBCs) for gasoline constituents of concern (COCs). In 2019, two additional Site assessments were conducted to delineate impacts to soil and groundwater and vapor intrusion concerns and summarize all historical environmental sampling data at the Site. Although exceedances for several ODEQ RBCs are identified for historical environmental sampling data, complete exposure pathways for the Site include vapor intrusion into buildings.

Phase II ESA activities included groundwater sampling, soil vapor sampling, subsurface soil grab sampling, subsurface soil composite sampling within the former rail spur location, and a Hazardous Building Materials Survey (HBMS) to quantify asbestos, lead, mercury, and polychlorinated biphenyls (PCBs) in Site building materials.

Based on field observations, available information, and Site-specific data collected, ERG concludes the following:

- **Petroleum Impacts to Soil, Groundwater, and Soil Vapor.** All target petroleum COCs for soil and groundwater were below the ODEQ RBCs for Construction and Excavation Workers and Groundwater in Excavation.

TPH-GRO was detected in vapor wells VP-3 and VP-5 above the ODEQ Residential Soil Vapor RBC. TPH-GRO at VP-5 also exceeded the ODEQ Commercial Soil Vapor RBC indicating that the documented releases at the Site continue to impact Site soil vapor in areas around the USTs .

Due to the presence of the same COCs detected in groundwater and soil vapor, the groundwater to vapor intrusion pathway is considered complete.

Activity Use Limitations (AULs) designating the Site for commercial use would resolve the some of the vapor intrusion concerns, except for the soil vapor exceedances in VP-5, which would require mitigation.

- **Metals in Surface Soil and Groundwater.** Arsenic was detected in four soil boring locations and lead was detected in one soil boring location within the footprint of the former rail spur at concentrations exceeding ODEQ RBCS for Residential and/or Occupational Soil. However, both the arsenic and lead concentrations identified in soil appear to fall within the expected range of natural background variation for arsenic and lead in the Portland Basin.

In addition, thallium was detected in all soil boring locations within the former rail spur at concentrations exceeding the EPA RSL for Resident Soil. No ODEQ RBCs have been established for thallium. However, all thallium concentrations were below the 95% upper prediction limit for background concentrations for the Portland Basin.

- **Presence of Hazardous Building Materials.** The HBMS identified ACBM in samples along the seams of the main canopy's metal roof panels. Additionally, white caulking was observed on the main canopy roof and is presumed to contain asbestos. Mercury-containing HID light bulbs and suspect PCB-containing ballasts were also observed during the HBMS. These hazardous building materials may pose a risk to current and future Site users and the environment.

Based on the findings and conclusions summarized above, ERG recommends that an Analysis of Brownfields Cleanup Alternatives (ABCA) be developed to evaluate cleanup alternatives and/or AULs related to vapor intrusion, , hazardous building materials and closure of the inactive USTs.

## 1.0 Introduction

### 1.1 Purpose and Involved Parties

Eastern Research Group, Inc. (ERG) was contracted by the U.S. Environmental Protection Agency (EPA) on behalf of the City of Cornelius (the Applicant) to conduct a Targeted Brownfields Assessment (TBA) of the property located at 1021 Baseline Street (the “Site” or the “property”) in Cornelius, Oregon (OR) (Figure 1). EPA’s TBA program helps states, tribes, municipalities, and other eligible entities minimize the uncertainties of contamination often associated with brownfields Sites. This program supplements other efforts under the Brownfields Program to promote the cleanup and redevelopment of brownfields Sites. As part of the TBA, ERG completed a Phase II Environmental Site Assessment (ESA) in February 2025 in conformance with ASTM International’s (ASTM’s) E1903-19: *Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process* (ASTM 2019).

ERG was contracted to complete this work under EPA Contract No. 68HERH19D0017, Task Order 16. ERG subcontracted with Alta Science & Engineering, Inc. (Alta) to provide additional technical and field support in conducting the Phase II ESA and with PBS Engineering and Environmental (PBS) to conduct a Hazardous Building Materials Survey (HBMS).

The purpose of the Phase II ESA was to confirm the presence or absence of recognized environmental conditions (RECs) and/or areas of concern identified in previous investigations, and to acquire information regarding the nature of contamination (if present) and risks posed by that contamination in order to support future clean-up and reuse of the Site.

### 1.2 Background

The subject property is located in the central portion of Cornelius, Oregon, and consists of two parcels: Parcel ID R407081 and Parcel ID R407090, totaling 0.53 acres (Figure 1). The TBA Site is currently owned by the City of Cornelius. The vacant subject property currently contains three out-of-use fueling islands and a kiosk underneath a canopy, a bathroom/office building on the southwestern portion of the property, as well five inactive underground storage tanks (USTs) and two decommissioned USTs located on the western portion of the Site. The subject property was first developed by at least 1912 with a rail spur associated with the Southern Pacific Railroad and was used commercially as a fueling station from 1953 until 2007. Since 2007, the Site has been out of use. The Site is accessible via Baseline Street or South 10<sup>th</sup> Avenue. Figure 1 identifies the Site layout.

Previous environmental assessments conducted and additional information at the Site are briefly summarized below.

#### 1.2.1 1996 Letter from ODEQ

The May 1996 letter from ODEQ states gasoline contamination was discovered during station upgrades at the Site and 24 tons of soil was subsequently removed and disposed of at the Hillsboro Landfill (ODEQ 1996). No remaining contamination or signs of groundwater were reportedly encountered in the excavated areas. The extent of excavation is unknown, and the letter indicates that the cleanup

activities were poorly documented. ODEQ issued an NFA determination in the letter with regards to the contamination and the associated cleanup.

### **1.2.2 2006 Site Assessment Report**

The August 2006 Site Assessment report documents subsurface investigations completed by K&S Environmental (K&S) in July 2006. The report indicates five underground storage tanks ranging from 3,000 to 10,000 gallons are present on-site. K&S was contacted on request of the owner, Mr. Estby, to investigate subsurface conditions in the vicinity of the 5,000-gallon UST. Four borings (B-1 through B-4) were advanced to depths ranging from 8-12 feet. B-1, B-2, and B-4 were centered around the 5,000-gallon tank, and B-3 was advanced under the pump canopy next to a dispenser. Laboratory hydrocarbon identification testing (HCID) indicated gasoline-range organics (GRO) were present in samples collected between 8-11 feet depth below ground surface (bgs) at borings B-1, B-2, and B-4 (indicated within the report as: Positive, Positive, and Positive, respectively). Soil samples were analyzed for total petroleum hydrocarbons (TPH) by method NWTPH-Gx and gasoline constituents benzene, toluene, ethylbenzene, total xylenes, and naphthalene (BTEXN) by EPA Method 8021B. TPH-GRO were detected in boring locations B-1, B-2, and B-4 (108 parts per million [ppm], 659 ppm, and 107 ppm, respectively). Benzene was detected in borings B-1, B-2, and B-3 (1.32 ppm, 13.2 ppm, and 0.785 ppm, respectively). K&S recommended additional investigation.

### **1.2.3 2007 Subsurface Investigation Report**

The October 2007 Subsurface Investigation report completed by K&S documented the collection of soil and groundwater samples to further characterize the Site and collect information associated with decommissioning-in-place two USTs. The 2007 report identifies two 3,000-gallon USTs were decommissioned and filled with pea gravel. During this visit, K&S advanced six supplemental borings to a depth of 15 feet bgs. The borings were completed as temporary groundwater monitoring wells. Three borings (TW1, TW2 and TW3) were centered around the two decommissioned USTs on the western portion of the site. Soil samples from these borings were collected at a depth of 10 feet bgs. Groundwater samples were collected from borings B-5, B-6 and B-7 installed along the northern, southern, and eastern boundaries of the USTs installed at the site. TPH-GRO was detected in groundwater and soil samples at elevated concentrations. BTEXN and other gasoline constituents were also detected in soil and groundwater. K&S concluded that groundwater impacts were greatest in the vicinity of the USTs and likely extended off-site. K&S recommended the installation of permanent groundwater monitoring wells and additional investigation.

### **1.2.4 2008 - 2009 Subsurface Investigations and Routine Monitoring Reports Report**

In March 2008, K&S conducted a supplemental groundwater investigation including the advancement of borings completed as temporary monitoring wells. In July 2008, K&S installed and sampled four groundwater monitoring wells, located near the northern, southern and eastern boundaries of the UST area on the western portion of the property. An additional well was installed adjacent to the two decommissioned USTs. These wells were subsequently sampled in October 2008 and October 2009. The results detected the presence of TPH-Diesel Range Organics (DRO), TPH-GRO, BTEXN, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, isopropylbenzene, n-propyl-benzene and/or certain polycyclic aromatic hydrocarbons (PAHs) in groundwater during both of the sampling events. Sampling results indicated increasing concentrations of certain constituents over time Monitoring well MW-1 (located at the southwestern property boundary) contained the highest concentrations of petroleum COCs.

The report indicated that the UST system had been temporarily out of service since early 2009, but it was not clear if the increasing groundwater concentrations detected were the result of a historical or more recent release.

### **1.2.5 2010 and 2011 ODEQ Notice of Violation Letters and 2012 Final Order**

On August 19, 2010 and February 8, 2011, ODEQ issued initial and follow-up notice of violation (NOV) letters to the property owner, M&G. The letters identified the following NOV's related to a UST release at the Site:

- A failure to complete investigations for the magnitude and extent of contamination at the Site. Four quarterly monitoring events were required to be completed following the installation of groundwater wells in July 2008. Three non-consecutive sampling events were performed in July 2008, October 2008 and August 2009. The letter indicated that groundwater monitoring results for TPH-GRO and other constituents in MW-1 exceeded RBC standards for one or more exposure pathways.
- Failure to submit the results from a November 2009 investigation of the railroad right-of-way located south of the site.

On January 17, 2012, ODEQ issued a Final Order which assessed a civil penalty of \$28,961 for failure to comply. The Final Order includes the following violations:

- Failure to initiate and complete a sufficient investigation to determine the full nature, magnitude and extent of soil and groundwater contamination at the property including an insufficient quantity and frequency of groundwater sampling events and an insufficient number of soil samples collected.
- Failure to obtain the appropriate permit registration prior to resuming operation of a temporarily closed UST system. ODEQ issued a General Permit Registration Temporary Closure Certificate for the UST system at the Site on March 10, 2009, which expired on March 10, 2010.
- Failure to maintain a valid financial responsibility mechanism for the UST system.
- Failure to submit a modification application within 60 days after a change in ownership of the UST certification.
- Failure to submit reports and data related to a release from a UST.

### **1.2.6 2017 Groundwater Sampling Results**

The January 2017 Groundwater Sampling report prepared by Alpha Environmental for Greene & Markley, P.C., summarizes groundwater sampling activities completed in December 2012 and February, August, September, and December of 2016. Samples were tested for TPH-GRO, DRO and Residual Range Organics (RRO), benzene, toluene, ethylbenzene, and total xylenes (BTEX), Risk-Based Decision Making (RBDM) volatile organic compounds (VOCs) and PAHs. A 2018 Work Plan from Evren Northwest, Inc. (ENW) summarized the same dataset and noted that TPH-GRO concentrations in groundwater appear to correlate to the depth to groundwater, where higher concentrations are encountered when the depth to groundwater was greater. ENW suggested that this may be indicative of partitioning of contamination from groundwater to soil as the groundwater elevation increases.

### **1.2.7 2018 Groundwater Monitoring Report**

During December of 2018, ENW sampled MW-2, MW-3, and MW-4. The report notes that MW-1 appeared to be partially filled and could not be sampled. TPH-GRO results from the wells ranged from 200 to 8,700 ug/L (MW-2 being the highest).

### **1.2.8 2019 Focused Site Investigation**

The May 2019 Focused Site Investigation report, prepared by ENW for Islam El Masry, presents soil gas, soil and groundwater data collected in February and April 2019 to further delineate petroleum impacts at the Site. ENW advanced seven soil borings (EB01 through EB08) at depths ranging from 5.5 to 8.5 feet bgs and six soil gas borings (SG01 through SG06) at depths ranging from 4 to 5 feet bgs and collected groundwater from each of the seven soil borings using a temporary well screen at depths ranging from 2 to 9.5 feet bgs. Concentrations of soil, soil gas, and groundwater samples collected during the event were below ODEQ's screening level (SL) RBCs.

The Focused Site Investigation concluded that construction worker direct contact to soil and groundwater was the only exposure pathway and could be managed with a Contaminated Media Management Plan. ENW recommended decommissioning all onsite USTs, pump islands, and monitoring wells.

### **1.2.9 2019 Second Round Soil Gas Assessment**

In July of 2019 supplemental soil gas sampling was performed by ENW for Islam El Masry at the request of ODEQ due to anomalies identified in the February 2019 soil gas sampling. Samples collected in July during the dry season supplemented the samples collected during the wet season in February. Six samples were collected at 5 feet bgs immediately adjacent to the locations of the February 2019 sampling event. An additional sample was taken near MW-2. The results were consistent with the 2019 Focused Site Investigation report with detections all under ODEQ SL RBCs.

Following the 2019 supplemental event, ODEQ published revised RBCs for vapor intrusion in March 2024 (ODEQ 2024). The March 2024 vapor intrusion RBC for TPH-GRO in soil vapor for commercial land use is 40,000 ug/m<sup>3</sup>. The July 2019 soil gas result for TPH-GRO collected at SG-06, just west of the center pump island at the Site, was 50,398.2 ug/m<sup>3</sup>, which exceeds the 2024 RBC.

### **1.2.10 2024 Phase I Environmental Site Assessment**

ERG conducted a Phase I ESA in November 2024, which identified RECs associated with known releases from the on-site USTs, the on-site USTs without proper closure documentation, and historic site operations. The Phase I ESA identified a historical REC associated with a known release from the USTs with regulatory closure. In addition, the Phase I ESA identified the potential presence of hazardous building materials in the kiosk structure as an area of concern.

The Phase I ESA recommended 1) groundwater and soil vapor sampling in the western portion of the property to evaluate whether exceedances of ODEQ's RBCs remain at the Site and 2) soil sampling to evaluate current impacts to surface and subsurface soil due to the potential for continued release from Site USTs without closure documentation and metals contamination from the historic on-site rail spur. ERG also recommended abandonment of the onsite monitoring wells, proper closure of the five remaining USTs that have not been decommissioned in accordance with State and local requirements, development of a contaminated media management plan to ensure proper handling and management

of petroleum-impacted subsurface soils and groundwater, and completion of a hazardous building materials survey (ERG 2024).

### 1.3 Scope of the Assessment

ERG completed the following tasks during the 2025 Phase II ESA of the Site:

- A Site visit was conducted by Brady Brantley of Alta and Sedrek Kovar of ERG on January 27 through February 1, 2025 to complete the Phase II ESA field sampling activities. Photographs were taken during the Site visit and are presented in Appendix A.
- The field work consisted of the following samples:
  - 30 subsurface soil samples collected from 18 borehole locations co-located with permanent groundwater monitoring wells to evaluate constituent of concern (COC) concentrations,
  - 5 groundwater samples collected from 2 newly installed and 3 existing permanent groundwater monitoring wells co-located with borehole locations, and
  - 5 soil vapor samples collected from 5 newly installed soil vapor wells to evaluate COC concentrations in Site surface soil gas.
- Selected activities conducted during the Phase II ESA, such as soil gas sampling, groundwater sampling, and soil sampling, were performed to satisfy requirements outlined in the Prospective Purchaser Agreement (PPA) Scope of Work between ODEQ and the City of Cornelius, recorded with Washington County on January 13, 2025.
- ERG's subcontractor, PBS, conducted an HBMS of two Site structures during January 2025. The HBMS included an inspection of all accessible areas for ACBM, lead-based paint (LBP), polychlorinated biphenyl (PCB)-containing light ballasts and sealants, and mercury-containing fluorescent lamps.
- Phase II ESA sampling was conducted in accordance with the Quality Assurance Project Plan (QAPP) approved by EPA and ODEQ on January 22, 2025. Any deviations from the approved QAPP are described in Section 3.1.

### 1.4 Reliance and Limitations

This Phase II ESA has been prepared solely for the use and benefit of EPA and the Applicant. Any use of this document or information provided herein by persons or entities other than EPA and the Applicant without expressed written consent of ERG will be at the sole risk and liability of said person or entity.

The conclusions presented in this report represent ERG's best professional judgment based upon the information available and conditions existing as of the date of this report. In performing this work, ERG relies upon publicly available information, information provided by EPA and the Applicant, and information provided by third parties. Accordingly, the conclusions in this report are valid only to the extent that the information provided to ERG was accurate and complete. This review is not intended as legal advice, nor is it an exhaustive review of Site conditions. ERG makes no representations or warranties, expressed or implied, about the conditions of the Site.

## 2.0 Site Setting

The subject property is located within the City of Cornelius in northwest Oregon (see Figure 1). Cornelius, Oregon, is located 20 miles west of Portland, Oregon, and 40 miles north of Salem, Oregon. The subject property's general central point is located at 45.51986 degrees North Latitude and - 123.0592 degrees West Longitude within the northeastern quarter of Section 4 of Township 1 South, Range 3 West, Willamette Principal Meridian.

The subject property totals 0.53 acres and consists of two parcels owned by the Applicant. The subject property is accessible from South 11<sup>th</sup> Street, which defines the eastern border of the property. East Baseline Street defines the property's northern border, while South 10<sup>th</sup> Avenue defines the property's western border (Figure 2). The southern boundary of the property is defined by a railroad easement that separates the property from a residential neighborhood. Based on a 2018 City of Cornelius zoning map provided by the Washington County Building Department, the area near the subject property is mixed zoning, consisting of commercial, general employment, civic, single-family and multi-family uses. According to the December 2024 City of Cornelius zoning map, the subject property is designated as part of the multi-unit residential zone.

## 3.0 Phase II ESA Field Activities

Phase II ESA field activities included an HBMS and the collection of subsurface soil, soil vapor, and groundwater samples, as well as the delivery of samples to the selected laboratory for analysis. The goal of the Phase II ESA was to build on previous assessments to identify, characterize, and delineate the extent of potential hazards associated with the RECs and areas of concern identified within prior reports. Sampling data at the Site will help inform the City of potential environmental challenges that may need to be addressed prior to redevelopment activities.

### 3.1 QAPP Deviations

Sampling procedures followed the *Quality Assurance Project Plan for Phase II Site Assessment – 1021 and 1037 Baseline Street, Cornelius, OR* (ERG 2025) except for the following deviations:

- The existing MW-4 monitoring well was located during Site activities and was determined to be a suitable substitution for the proposed MW-7 monitoring well.
- The proposed boring location west of the 10,000-gallon UST was repositioned based on recommendations from the utility locator. The locator identified a high concentration of underground utilities in the area and indicated that the 10,000-gallon UST may extend beneath the adjacent sidewalk, potentially preventing the boring from reaching the target depth.

### 3.2 Geology and Hydrology

Silty clay dominates the Site lithology. In general, poorly graded sand with gravel are present within shallow soils from the surface to about 2 feet bgs, with very poorly graded silty clays increasing with depths to approximately 15 feet bgs. Appendix B includes boring and well logs, which provide a detailed description of lithology for each borehole.

During drilling, the ERG field crew encountered groundwater at approximately 10-13 feet bgs (6-7 feet bgs after permanent groundwater monitoring well completion). The ERG field crew measured depth to water in each permanent groundwater monitoring well prior to groundwater sampling activities. The ERG field crew performed a top of casing well survey on January 29, 2025, using a Topcon rotating laser,

level sensor, and staff gauge. Wellhead elevations were measured to the nearest 0.01 foot relative to an arbitrary onsite utility access box with a given height of 100.00 above mean sea level.

Groundwater elevations were calculated by subtracting the depth-to-water measurements from the top-of-casing elevations. Groundwater elevations, tabulated below, ranged from 91.95 feet at MW-3 to 92.79 feet at MW-5. Based on the permanent groundwater monitoring well network, the apparent primary groundwater flow direction is to the north under a low gradient of approximately 0.0026 feet per foot (Figure 2). Although groundwater flow can exhibit variability at such low gradients, the groundwater elevation data also suggest the presence of a shallow groundwater trough centered near MW-3, with inferred converging flow directions from the north and southeast. Appendix C includes the wellhead elevation survey.

**Table 1. Groundwater Elevations**

Temporary Groundwater Monitoring Well	Relative Top of Casing Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)
MW-2	99.21	7.12	92.09
MW-3	99.24	7.29	91.95
MW-4	98.32	5.95	92.37
MW-5	99.40	6.61	92.79
MW-6	98.96	6.35	92.61

### 3.3 Soil Sampling

ERG contacted the Oregon Utility Notification Center to identify potential underground utilities within the area and subcontracted with a private utility locator, Advanced Underground Utility Locating LLC, to locate underground utilities using ground penetrating radar prior to boring advancement.

The ERG field crew collected soil samples into the sampling containers while wearing clean nitrile gloves described in the QAPP (ERG 2025) and placed all soil samples in a refrigerated cooler containing ice immediately after collection. Samples were held under chain of custody until shipment to Pace Analytical for analysis.

Subsurface soil grab samples from all boring locations were analyzed for:

- TPH-GRO analyzed using the NWTPH-Gx Method (Ecology 1997),
- TPH- DRO analyzed using the NWTPH-Dx Method (Ecology 1997),
- VOCs including BTEXN, and iso-propylbenzene, n-propylbenzene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, methyl tert-butyl ether, 1,2-dichloroethane (EDC), and ethylene dibromide (EDB) analyzed using EPA Method 8260D (EPA 2018a), and
- PAHs including acenaphthene, acenaphthylene, anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo[1,2,3-c,d]pyrene, chrysene, dibenz[a,h]anthracene, fluoranthene, fluorene, indeno[1,2,3-c,d]pyrene, naphthalene, phenanthrene, and pyrene by EPA Method 8270C-select ion monitoring (SIM) (EPA 2018b).

Surface and near surface soil grab samples from select boring locations (located within the former rail spur area) were analyzed for:

- Priority pollutant metals including arsenic, cadmium, total chromium, lead, selenium, silver, beryllium, copper, nickel, thallium, antimony, and zinc, by EPA Method 6010D (EPA 2018c), and
- Mercury by EPA Method 7471B (EPA 2007).

Appendix A includes photographs taken during the sampling activities. Appendix D summarizes the soil analytical results (expressed in milligrams per kilogram [mg/kg]). Appendix E includes complete laboratory data sheets and chain-of-custody documentation.

### **3.3.1 Soil Sampling**

On January 27, 28, and 29, 2025, the ERG field crew collected soil grab samples from depth (Figure 3). Holt Services, Inc. (Holt) advanced soil borings using a track mounted Geoprobe 7822DT Combo Rig equipped with an automatic drop hammer to drive a dual tube Geoprobe® 2.5-inch diameter 5-foot length macro-core barrel in 5-foot intervals (0-5 feet, 5-10 feet, 10-15 feet, etc.). Borings were advanced to target depths of either 5 feet bgs or 15 feet bgs, depending on the specific data objectives for each boring location.

The ERG field crew used a disposable TerraCore soil sampler to collect one 5-gram sample directly from the soil core or hand tool after screening the boring core with an Ion Tiger XTL® photo-ionization detector (PID) to screen for the presence of VOCs and to help determine sample depth. Samples were taken from the zone(s) with the highest PID readings and/or based on field observations.

The ERG field crew logged borehole soils according to the Unified Soil Classification System (USCS); the boring and well logs are included in Appendix B. The ERG field crew screened all soil samples in the field using a PID to check for the presence of VOCs and recorded the measurements on the boring logs.

The ERG field crew collected a total of 30 soil samples (plus 2 duplicate samples) from 18 soil boring locations at the Site (BH1 through BH16, MW-5, and MW-6, Figure 3). From the 30 samples, 18 samples from 12 soil borings were analyzed for TPHs (TPH-GRO and TPH-DRO), VOCs, and PAHs. Additionally, 12 samples from 12 soil borings were analyzed for priority pollutant metals. Samples for TPHs, VOCs and PAHs were collected from depths based on field observations and PID readings. Samples for priority pollutant metals were composite samples collected from surface and near surface intervals (*surface* [0 - 1.5 feet bgs] and *near surface* [ 1.5 – 3.0 feet bgs]). ERG collected the samples for VOC analysis in accordance with EPA Sampling Method 5035 for VOCs (EPA 1996a). Appendix D includes all soil sampling results (Tables 1 through 4).

## **3.4 Groundwater Sampling**

On January 29, 2025, the ERG field crew oversaw the installation of two permanent groundwater monitoring wells. Both wells were advanced to 15 feet bgs and completed with pre-pack, 2-inch schedule 40 polyvinyl chloride (PVC) casing with 10 feet of 0.010-inch slots. The groundwater monitoring wells were constructed using a PVC screen, PVC riser, and additional filter pack as needed, and a well seal was set. Holt used bentonite chips, hydrated during well construction, as the annular sealant material and placed the flush-mount monitoring well monument (Morris Industries, Inc) in cement from slightly above the ground surface (approximately ¼-inch) to approximately 2 feet bgs. Holt placed cement in the void surrounding the monument skirt and ensured the cement sloped away from the monument in all directions so that any potential stormwater would drain away from the lid. The ERG

field crew developed the groundwater monitoring wells by agitating groundwater with a peristaltic pump and tubing while purging at a rate that did not exceed the recharge rate of the temporary groundwater monitoring well.

The ERG field crew collected a total of five groundwater samples (plus one duplicate sample) from the two newly installed groundwater monitoring wells (MW-5 and MW-6) and three existing groundwater monitoring wells (MW-2, MW-3, and MW-4) at the Site (Figure 4). All groundwater samples were analyzed for TPHs by NWTPH-Gx and NWTPH-Dx Method (Ecology 1997), VOCs by EPA Method 8260D (EPA 2018a), PAHs by EPA Method 8270C-SIM (EPA 2018b), and priority pollutant metals (including mercury) by EPA Method 6010D and 7471B (EPA 2018c and EPA 2007, respectively).

Appendix D includes all groundwater sampling results (Tables 5 through 8).

### 3.5 Soil Vapor Sampling

The ERG field crew installed five soil vapor wells on January 27 and 28, 2025, using ASTM D7648/D7648M-18: *Standard Practice for Active Soil Gas Sampling for Direct Push or Manual-Driven Hand-Sampling Equipment* (ASTM 2018), and sampled the soil vapor wells on January 29, 2025.

Holt advanced five soil borings to 5 feet bgs. The ERG field crew then placed a thin layer of 10/20 Colorado Silica sand at the bottom of each borehole, upon which a Soil Gas Implant Stainless Steel Screen (1/4-inch barb, 6-inch length) was set. Before setting, the vapor screens were attached to Teflon®-lined tubing (1/4-inch outside diameter x 1/16-inch inside diameter). This tubing exceeded the length of the boreholes and was terminated above the ground surface.

The ERG field crew placed 0.5 feet of sand around the screens, filling the voids. 3/8-inch diameter bentonite chips were dry poured and hydrated from 4.5-1 feet bgs to create the annular seal within each vapor well and around the Teflon®-lined tubing. Vapor well monuments were set into concrete atop the bentonite layer (approximately 1-foot bgs). The concrete was poured around the lengths of Teflon®-lined tubing extending above the ground surface.

Following successful helium leak testing for the five soil vapor wells as written in the QAPP (ERG 2025), the ERG field crew collected a total of five soil vapor samples (plus one replicate sample) from the vapor well locations at the Site (VP-1 through VP-5, Figure 5). All soil vapor samples were analyzed for TPH-GRO and BTEXN by EPA Method TO-15 SIM (EPA 2019).

Appendix D includes soil vapor sampling results (Table 9).

### 3.6 Hazardous Building Materials Survey

On January 28 and 30, 2025, PBS performed an HBMS of the Site, which included a fuel island canopy, a kiosk/attendant structure underneath the fuel island canopy, a fuel pump, and a bathroom/office building. All accessible areas of the structure were inspected; however, additional suspect material may be present in inaccessible areas (e.g., confined spaces, interstitial spaces, etc.). Appendix F includes the complete HBMS report prepared by PBS.

#### 3.6.1 Asbestos-Containing Materials

An Asbestos Hazard Emergency Response Act Certified Building Inspector inspected all accessible areas of the Site structures and collected 13 samples from suspected accessible friable and non-friable ACBMs from the Site structures.

Asbestos samples were held under chain-of-custody protocols until submittal to Eurofins Built Environment Testing West, LLC. for analysis by EPA Method 600R-93/116 using Polarized Light Microscopy (EPA 1993).

### **3.6.2 Lead-Containing Paint (LCP)**

PBS collected seven 2-inch square paint samples from interior/exterior painted building components. Paint samples were held under chain of custody until submittal to RJ Lee Group, Inc. for lead analysis by EPA Method 3050B/6010C-Paint (EPA 1996b and 2000).

### **3.6.3 Mercury-Containing Components**

PBS inspected representative light fixtures to identify and quantify mercury-containing vapor light tubes and investigated thermostats for mercury switches. Consistent with the QAPP (ERG 2025), no samples were collected for mercury.

### **3.6.4 PCB-Containing Components**

PBS inspected and/or disassembled representative light fixtures to identify and quantify suspect PCB-containing ballasts. Consistent with the QAPP (ERG 2025), no samples were collected for PCBs.

### **3.6.5 Resource Conservation and Recovery Act (RCRA) 8 Metals TCLP**

PBS did not encounter masonry mortar consistent with the QAPP (ERG 2025), no samples were collected for RCRA 8 regulated metals.

## **3.7 Investigation Derived Waste (IDW)**

IDW consisted of three 55-gallon drums of soil cuttings and one 55-gallon drum of purge water. The drums were transported and hauled by a certified waste hauler and disposed of at a permitted facility. Appendix G includes the waste manifest documentation.

## **4.0 Phase II ESA Data Quality Assurance Evaluation**

Section 2.5 of the QAPP outlines the data quality objectives (DQOs) and criteria (ERG 2025). Alta's Quality Assurance Officer (QAO) conducted a Stage 2A data validation for the soil, groundwater, and soil vapor sampling data. Consistent with the QAPP, data validation was not conducted for the HBMS samples. The QAO reviewed field documentation, results of field and laboratory quality assurance/quality control (QA/QC) samples, and data reported by the laboratories (Pace National Analytical Laboratory, Inc. and Eurofins Air Toxics) to ensure that the data had been recorded, transmitted, and processed correctly, and to determine that DQOs were met. Appendix H includes the Site-specific QA/QC Memorandum that summarizes the data validation performed by Alta and the resulting data quality.

### **4.1 General Data Review**

Alta's QAO qualified the following data based on sample handling, tracking, and reporting. Data meet the DQOs for representativeness and comparability, with the exceptions discussed below.

- Composite soil samples with detections of mercury above the method detection limit (MDL) are qualified as estimates, biased low (J-) and samples where mercury was not detected above the

MDL are qualified as estimated non-detect (UJ) due to the samples being received at the laboratory at temperatures greater than 10°C.

## 4.2 Data Sensitivity

Alta's QAO noted the following, which may affect the sensitivity of the results:

- To assess the sensitivity of the sample results, Alta compared the sample-specific reporting limits (RLs) and MDLs to the lowest applicable regulatory standard (i.e., screening level (SL)) as presented in Appendix A of the QAPP. Most MDLs and RLs are less than the lowest SL except the following:
  - In groundwater samples where naphthalene (analyzed by EPA Method 8260D) was not detected above the MDL, it is possible for naphthalene to be present at a concentration less than the MDL and greater than the EPA RSL for Resident Tapwater.
  - In composite soil samples, the MDLs and RLs for arsenic exceed the EPA RSL for Resident Soil. In samples where arsenic was not detected above the MDL, it is possible for arsenic to be present above the MDL and below the RSL for Resident Soil.
  - In soil vapor samples, due to dilution, the MDL and RL for EDC exceed the ODEQ RBCs for Residential and Commercial Soil Vapor as well as the EPA Soil Vapor Residential and Commercial Vapor Intrusion Screening Levels (VISLs) in one sample. In the soil vapor sample location, where EDC was not detected, it is possible for EDC to be present below the MDL but above its ODEQ RBCs or EPA VISLs.
- Certain groundwater sample results for TPH-GRO, TPH-DRO, anthracene, acenaphthene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene, fluorene, fluoranthene, indeno(1,2,3-cd)pyrene, and pyrene were qualified due to method blank detections. Concentrations of these analytes less than the RL are reported at the RL and qualified as non-detect (U) and concentrations greater than the RL but less than 10 times the blank detection are qualified as estimated (J). Concentrations less than the MDL or greater than 10 times the blank detection are not qualified.
- Certain groundwater sample results for benzo(a)anthracene are qualified as estimated, biased high (J+) due to method blank detections.
- Groundwater sample results for TPH-GRO collected on 1/31/2025 were qualified due to a rinsate blank detection. Concentrations of these analytes less than the RL are reported at the RL and qualified as non-detect (U), while concentrations greater than the RL but less than the blank detection are reported at the sample result and qualified as non-detect (U). Concentrations greater than the RL but less than 10 times the blank detection are qualified as estimated, biased high (J+). Concentrations less than the MDL or greater than 10 times the blank detection are not qualified.
- Groundwater sample results for copper were qualified due to rinsate blank detections. Concentrations less than the RL are reported at the RL and qualified as non-detect (U). Concentrations greater than the RL but less than 10 times the blank detection are reported at the blank result and qualified as estimated, biased high (J+). Concentrations less than the MDL or greater than 10 times the blank detection are not qualified.
- Groundwater sample results for zinc were qualified due to rinsate blank detections. Concentrations less than the RL are reported at the RL and qualified as non-detect (U). Concentrations greater than the RL but less than 10 times the blank detection are qualified as estimated, biased high (J+). Concentrations less than the MDL or greater than 10 times the blank detection are not qualified.

- Certain grab soil sample results for TPH-GRO were qualified due to method blank detections. Concentrations of these analytes less than the RL are reported at the RL and qualified as non-detect (U) and concentrations greater than the RL but less than 10 times the blank detection are qualified as estimated (J). Concentrations less than the MDL or greater than 10 times the blank detection are not qualified.
- Composite soil sample results for silver were qualified due to a method blank detection. Concentrations less than the RL are reported at the RL and qualified as non-detect (U). Concentrations greater than the RL but less than 10 times the blank detection are qualified as estimated, biased high (J+). Concentrations less than the MDL or greater than 10 times the blank detection are not qualified.
- Due to a failed serial dilution test, which indicates matrix interference, the detected results for chromium and zinc in one soil composite sample were qualified as estimated (J).
- Results for ethylbenzene in certain soil vapor sample are qualified as estimated, biased high (J+) due to method blank detections.
- The concentration of m,p-xylene in certain soil vapor samples was raised to the RL and qualified as non-detect (U) due to method blank detections.

### 4.3 Data Accuracy and Precision

Accuracy and precision are also considered acceptable, with the exceptions discussed below.

#### 4.3.1 Accuracy

Alta's QAO qualified the following data based on accuracy results (surrogate/DMC, laboratory control sample (LCS), or matrix spike (MS) %Rs):

- In certain groundwater samples, concentrations of naphthalene that are greater than the MDL are qualified as estimates, biased low (J-), while concentrations less than the MDL are qualified as non-detect estimates (UJ) due to a low surrogate %R.
- The detection of TPH-GRO in one groundwater sample is qualified as estimated, biased high (J+) due to high surrogate %R.
- The detected concentrations of naphthalene in certain groundwater samples were qualified as estimates (J) due to a CCS responding low. Field samples where naphthalene was not detected were qualified as estimated non-detect (UJ).
- The detection of TPH-GRO in one soil grab sample is qualified as estimated, biased high (J+) due to a high surrogate %R.
- Detections of naphthalene (analyzed by 8270C-SIM) in the certain soil grab samples are qualified as estimated, biased low (J-), while results where naphthalene was not detected are qualified as non-detect estimated (UJ) due to low surrogate %R.
- Concentrations of naphthalene were qualified in certain soil grab samples due to low LCS %R and low CCS. Associated samples with concentrations of naphthalene less than the MDL are qualified as non-detect estimated (UJ), while results that were detected above the MDL were qualified as estimated (J).
- The detected concentration of TPH-GRO was qualified in one soil grab sample as estimated (J) due to high %R in the matrix spike duplicate (MDS) sample.
- The concentration of antimony in one composite soil sample was qualified as estimated (J) due to a %R above laboratory limits in the MS analysis.

### 4.3.2 Precision

Alta's QAO qualified the following data based on precision results (MSD, laboratory control sample duplicate (LCSD), and field duplicate/replicate relative percent differences [RPDs]).

- Results of arsenic, beryllium, cadmium, chromium, nickel, mercury, copper, lead, and zinc are qualified in the parent and duplicate composite soil sample due to field duplicate precision. Results where these analytes were less than the MDL will be qualified as non-detect estimated (UJ) and results where these analytes were greater than the MDL will be qualified as estimated (J).

## 4.4 Data Usability

The Alta QAO did not reject any sample results. Therefore, according to the QAPP (ERG 2025), the completeness for this sampling event is calculated at 100%.

## 5.0 Phase II ESA Sampling Results

This section summarizes the soil, groundwater, soil vapor, and building material analytical results for the Site assessment activities completed between January 27 and February 1, 2025. An overall summary of regulatory exceedances is provided in Tables 2 and 3 below, while the data tables in Appendix D summarize all soil, groundwater, and soil vapor analytical results and Appendix F includes all HBMS analytical results.

ERG compared all target analyte concentration for soil and groundwater to ODEQ RBCs for Individual Chemicals (ODEQ 2023) and EPA Regional Screening Levels (RSLs; EPA 2024a) (Appendix D). Soil vapor results were compared to ODEQ Vapor Intrusion RBCs (ODEQ 2024) and EPA Vapor Intrusion Screening Levels (VISL; EPA 2024b (Appendix D). Soil sampling results for PPMs were also compared to their respective background concentrations, where applicable (ODEQ 2018) (Appendix D). However, for all target analytes that have an established RBC, the primary method for evaluating risk is to compare the target analytes to the RBCs and the subsequent results of that comparison is used to drive decisions regarding protectiveness, cleanup, and potential future use limitations. EPA RSLs and VISLs are screening levels and not cleanup levels as compared to ODEQ RBCs.

The results and discussion sections below, along with the imbedded Tables 2 and 3, show or discuss target analyte concentrations as compared to ODEQ RBCs only. Tables attached within Appendix D show the target analyte concentrations compared to EPA RSLs and VISLs and ODEQ RBCs.

When comparing sampling results to screening and/or cleanup levels, it is important to consider how users can be exposed to COCs at the Site (e.g., the relevant exposure scenarios and pathways).

A exposure pathway is considered complete, when a Site user comes into contact with a contaminant in the environment (soil, air, and/or water) through ingestion, inhalation, or dermal exposure. A complete exposure pathway consists of four necessary elements: 1) a source and mechanism of chemical release to the environment, 2) an environmental transport medium for a released chemical, 3) a point of potential contact with the impacted medium (referred to as the exposure point), and 4) an exposure route (e.g., groundwater ingestion, vapor intrusion) at the exposure point.

Based on current and future Site uses, the following exposure scenarios have been identified:

- Current and Future Adult and Child Site Visitor, Trespasser, or Recreational User Scenarios

- Future Adult Occupational Worker Scenario
- Future Adult Excavation and Construction Worker Scenarios
- Future Adult and Child Residential Scenarios

Depending on the exposure scenarios, Site users may come into contact with COCs in Site soil vapor on the western portion of the property, COCs in surface and near surface soils and subsurface soils, groundwater during construction, or hazardous building materials in Site structures.

The exposure pathways of concern are:

- Incidental ingestion and inhalation of, and dermal contact with COCs in surface or near surface soils for all exposure scenarios described above and for subsurface soils for Excavation and Construction Worker scenarios only.
- Incidental ingestion and inhalation of, and dermal contact with HBMS within Site buildings for the Site Visitor/Trespasser/Recreational User scenarios, the Occupational Worker scenario, and the Excavation and Construction Worker scenarios.
- Incidental inhalation of COCs found in Site soil vapor in areas around the USTs for all exposure scenarios described above.

Based on these exposure scenarios and pathways of concern, the following comparison are made in the following sections:

- Soil concentrations for surface and near surface soils (0-3 feet bgs) are compared to ODEQ RBCs for Residential, Occupational, Construction Worker, and Excavation Worker soil.
- Soil concentrations for subsurface soils (0-15 feet bgs) are compared to ODEQ RBCs for Construction Worker and Excavation Worker soil only. The potential risk associated with the soil leaching to groundwater pathway was not evaluated because groundwater samples were collected to assess this migration route.
- Groundwater concentrations are compared ODEQ RBCs for Groundwater in Excavations only. The potential risk associated with the vapor intrusion from groundwater was not evaluated because soil vapor samples were collected to assess this migration route. Comparisons were not made to ODEQ RBCs for Ingestion and Inhalation from Tapwater because municipal water services are supplied to the Site and this exposure pathway is considered to be incomplete.
- Soil vapor concentrations are compared to ODEQ RBCs for Residential and Occupational soil vapor because of the risk of vapor intrusion to Site structures.

## 5.1 Soil Sampling Results

Tables 1 through 4 in Appendix D summarize the soil sample analytical results (expressed in mg/kg). Figure 3 shows soil sample locations.

### 5.1.1 Subsurface Soil Grab Sample Results

No target COCs were detected in subsurface soils (0-15 feet bgs) at concentrations above the Construction and Excavation Worker ODEQ RBCs in any sample.

Tables 1 through 4 in Appendix D summarize the subsurface soil sample analytical results (expressed in mg/kg). Figure 3 shows soil sample locations.

### **5.1.2 Surface and Near Surface Soil Composite Sample Results**

ERG collected 12 soil composite samples (plus 1 duplicate sample) at two depth intervals (*surface* [0 - 1.5 feet bgs] and *near surface* [ 1.5 – 3.0 feet bgs]) from 6 boring locations (BH1 through BH3, BH5, BH6 and BH15).

Arsenic was detected in soil at boring locations BH3 (3.2 mg/kg at 1.5 - 3.0 feet bgs), BH5 (9.45 mg/kg at 0 - 1.5 feet bgs and 3.44 mg/kg at 1.5 - 3 feet bgs), BH6 (3.58 mg/kg at 0 - 1.5 feet bgs and 1.98 mg/kg at 1.5 - 3.0 feet bgs), and BH15 (12.6 mg/kg at 0 - 1.5 feet bgs and 3.21 mg/kg at 1.5 - 3.0 feet bgs) at concentrations above the ODEQ RBCs for Residential and Occupational soil (0.43 mg/kg and 1.9 mg/kg, respectively). However, arsenic concentrations in all samples were below ODEQ RBCs for Construction and Excavation Worker soil (15 mg/kg and 420 mg/kg, respectively). In addition, 10 of the 12 samples had arsenic concentration below the 95% upper prediction limit for background arsenic concentrations for the Portland Basin (8.8 mg/kg).

Lead was detected in soil at boring location BH3 (130 mg/kg at 1.5 – 3.0 feet bgs) above the ODEQ RBCs for Residential soil (100 mg/kg). All remaining samples had lead concentrations below the 95% upper prediction limit for background lead concentrations for the Portland Basin (79 mg/kg).

Thallium was detected in soil at boring locations BH1 (1.71 J mg/kg at 0 – 1.5 feet bgs and 1.08 J at 1.5 - 3.0 feet bgs), BH2 (1.94 J mg/kg at 0 – 1.5 feet bgs and 1.12 J at 1.5 - 3.0 feet bgs), BH3 (1.47 J mg/kg at 0 – 1.5 feet bgs and 1.96 J at 1.5 - 3.0 feet bgs), BH5 (0.858 J mg/kg at 0 – 1.5 feet bgs and 1.09 at 1.5 - 3.0 feet bgs), BH6 (1.01 J mg/kg at 0 – 1.5 feet bgs and 1.38 J at 1.5 - 3.0 feet bgs), and BH15 (1.18 J mg/kg at 0 – 1.5 feet bgs and 0.985 J at 1.5 - 3.0 feet bgs). ODEQ does not have RBCs for thallium in soil; however, all thallium concentrations are below the 95% upper prediction limit for background thallium concentrations for the Portland Basin (5.2 mg/kg).

No other COCs were detected in surface or near surface soil composites at concentrations above Residential or Occupational RBCs for soil and no target COCs were detected in surface or near surface soils at concentrations above the Construction and Excavation Worker ODEQ RBCs.

Table 2 in Appendix D summarizes the composite soil sample analytical results (expressed in mg/kg). Figure 3 shows soil sample locations.

**Table 2. Phase II ESA Summary of Regulatory Exceedances for Soil**

Analyte	Sample Media	Sample ID	Sample Result	ODEQ Regulatory Limit	ODEQ Background Values for Portland Basin
Lead	Surface and Near Surface Soil Composite	BLS-BH3-C-1.5'-3'*	130 J mg/kg	100 mg/kg <sup>1</sup> 530 mg/kg <sup>2</sup> 270 mg/kg <sup>3</sup> 740 mg/kg <sup>4</sup>	79 mg/kg
Arsenic	Surface and Near Surface Soil Composite	BLS-BH3-C-1.5'-3'*	3.2 J mg/kg	0.43 mg/kg <sup>1</sup> 1.9 mg/kg <sup>2</sup> 15 mg/kg <sup>3</sup> 420 mg/kg <sup>4</sup>	8.8 mg/kg
		BLS-BH5-C-0'-1.5'	9.45 mg/kg		
		BLS-BH5-C-1.5'-3'	3.44 mg/kg		
		BLS-BH6-C-0'-1.5'	3.58 mg/kg		
		BLS-BH6-C-1.5'-3'	1.98 J mg/kg		
		BLS-BH15-C-0'-1.5'	12.6 mg/kg		
		BLS-BH15-C-1.5'-3'	3.21 mg/kg		

<sup>1</sup> Oregon Department of Environmental Quality (ODEQ) risk-based concentrations (RBCs) for the Soil Ingestion, Dermal Contact, and Inhalation exposure pathway (RBC<sub>ss</sub>) for the Residential receptor scenario (ODEQ 2023).

<sup>2</sup> ODEQ RBC<sub>ss</sub> for the Occupational receptor scenario (ODEQ 2023).

<sup>3</sup> ODEQ RBC<sub>ss</sub> for the Construction Worker receptor scenario (ODEQ 2023).

<sup>4</sup> ODEQ RBC<sub>ss</sub> for the Excavation Worker receptor scenario (ODEQ 2023).

ft bgs = feet below ground surface

\* = location of duplicate sample, higher concentration shown

mg/kg = milligrams per kilogram

## 5.2 Groundwater Sampling Results

The ERG field crew collected water quality field parameter data during the groundwater purging process immediately prior to sample collection. Field parameters include temperature, pH, specific conductance, dissolved oxygen, oxidation/reduction potential, and turbidity. These parameters provide information on the water chemistry and stabilization criteria to indicate that the well sufficiently purged and that the extracted (sampled) groundwater is representative of the groundwater from the aquifer (see Appendix B).

The ERG field crew collected five groundwater samples (plus one duplicate sample) from groundwater monitoring well locations (MW-2 through MW-6) on January 31 and February 1, 2025.

No target COCs were detected in groundwater at concentrations above the ODEQ RBCs for Groundwater in Excavations.

Tables 5 through 8 in Appendix D summarize the groundwater sample analytical results (expressed in mg/L). Figure 4 shows groundwater sample locations.

### 5.3 Soil Vapor Sampling Results

Following successful helium leak testing per the QAPP (ERG 2025), the ERG field crew collected five soil vapor samples (plus one replicate sample) from the five newly installed soil vapor wells.

TPH-GRO was detected in soil vapor at well locations VP-3 (11,000 µg/m<sup>3</sup>) and VP-5 (650,000 µg/m<sup>3</sup>) at concentrations above the ODEQ Residential Soil Vapor RBC (10,000 µg/m<sup>3</sup>).

Additionally, TPH-GRO was detected in soil vapor at well location VP-5 (650,000 µg/m<sup>3</sup>) at a concentration above the ODEQ Commercial Soil Vapor RBC (40,000 µg/m<sup>3</sup>).

No other target COC concentrations in soil vapor exceeded ODEQ RBCs for soil vapor (ODEQ 2024).

Table 9 in Appendix D summarizes the soil vapor sample analytical results (expressed in micrograms per cubic meter [µg/m<sup>3</sup>]). Figure 5 shows sample locations.

**Table 3. Phase II ESA Summary of Regulatory Exceedances for Soil Vapor**

Analyte	Sample Media	Sample ID	Sample Result	ODEQ Regulatory Limit
TPH-GRO	Soil Vapor	BLS-VP-3	11,000 µg/m <sup>3</sup>	10,000 µg/m <sup>3</sup> <sup>(1)</sup>
		BLS-VP-5	650,000 µg/m <sup>3</sup>	40,000 µg/m <sup>3</sup> <sup>(2)</sup>

<sup>1</sup> ODEQ Vapor Intrusion RBCs (RBC<sub>sv</sub>) for a Residential receptor scenario (ODEQ 2024). Values shown represent the chronic screening values.

<sup>2</sup> ODEQ Vapor Intrusion RBCs (RBC<sub>sv</sub>) for a Commercial receptor scenario (ODEQ 2024). Values shown represent the chronic screening values.

µg/m<sup>3</sup>= micrograms per cubic meter

### 5.4 Hazardous Building Material Survey Findings

#### 5.4.1 Asbestos-Containing Materials Findings

PBS collected 13 samples of suspect ACBMs from the Site warehouse building. Regulated ACBM is defined as containing greater than 1% asbestos content. The HBMS identified black sealant containing greater than 1% asbestos on top of the attendant’s station, underneath the main canopy. The material is along the seams of the structure’s metal roof panels. Additionally, white caulking was observed on the main canopy roof and is presumed to contain asbestos. The material exists around the base of six structural steel posts. Details of the sample locations, results, approximate quantities, and photographs are included in the HBMS reports in Appendix F.

#### **5.4.2 Lead Paint Findings**

PBS collected a total of 7 representative paint samples from building components, including the attendant's structure, restroom structure, under the canopy, and the side of the canopy. For reference, paint is considered LCP at 500 ppm and classified as LBP at 5,000 ppm. All 7 samples were found to contain lead at trace levels, with concentrations ranging from <12.1 ppm to 26.9 ppm. Results indicate that none of the test samples qualify as LCP or LBP. Details of the sample locations, results, approximate quantities, and photographs are included in the HBMS reports in Appendix F.

#### **5.4.3 Mercury-Containing Components Findings**

Based on visual inspection, PBS identified 29 High Intensity Discharge (HID) light bulbs under and on top of the main canopy. All 29 HID light bulbs are presumed to contain mercury. This assessment was based solely on visual observations, and no sampling was conducted.

No mercury-containing electrical switches were observed within wall-mounted thermostats and gauges in any of the Site structures.

#### **5.4.4 PCB-Containing Components Findings**

PBS conducted a visual inspection for potential PCB-containing lamp ballasts. A damaged light fixture was observed inside the attendant's structure, but no bulbs were present. The fixture had been damaged by fire, and while no fluorescent bulb debris was found, a damaged light ballast remained with its labeling destroyed. Without identifying information, this ballast should be presumed to contain PCBs, and the fixture itself should be considered PCB-contaminated. This assessment was based solely on visual observations, and no sampling was conducted.

### **5.5 Discussion**

#### *Petroleum Contamination at the Site*

All target petroleum COCs for soil and groundwater were below their respective ODEQ RBCs (Construction Worker, Excavation Worker, or Groundwater in Excavation).

VOCs were identified in soil vapor. TPH-GRO was detected in vapor wells VP-3 and VP-5 above the ODEQ Residential Soil Vapor RBC and TPH-GRO at VP-5 also exceeded the ODEQ Commercial Soil Vapor RBC (ODEQ 2024) indicating that the documented releases at the Site continue to impact Site soil vapor in areas around the USTs.

Furthermore, although naphthalene, EDB, and EDC were not detected in soil vapor sample VP-5, the reporting limits (300  $\mu\text{g}/\text{m}^3$ , 110  $\mu\text{g}/\text{m}^3$ , and 58  $\mu\text{g}/\text{m}^3$ , respectively) for these COCs are greater than the ODEQ Residential RBCs (2.8  $\mu\text{g}/\text{m}^3$ , 0.16  $\mu\text{g}/\text{m}^3$ , 3.6  $\mu\text{g}/\text{m}^3$ , respectively) and Commercial Soil Vapor RBCs (12  $\mu\text{g}/\text{m}^3$ , 0.68  $\mu\text{g}/\text{m}^3$ , 16  $\mu\text{g}/\text{m}^3$  respectively) so it is possible that naphthalene, EDB, and EDC are present in soil vapor at concentrations that exceed these RBCs in this area.

Due to the presence of the same COCs detected in groundwater and soil vapor, the groundwater to vapor intrusion pathway is considered complete.

#### *Metals Contamination at the Site*

Arsenic was detected in four soil boring locations and lead was detected in one boring within the former railroad spur at concentrations above ODEQ RBCs for Residential and Occupational Soil (ODEQ 2023) (Figure 3). The presence of arsenic and lead contamination within the former railroad spur aligns with known historical sources of arsenic and lead in railroad environments. The presence of elevated arsenic

concentrations in soil samples suggests that past activities at the Site may have contributed to arsenic levels in these areas.

However, when evaluating arsenic concentrations at the Site, regional background levels should be considered. The background arsenic concentration for the Portland Basin is 8.8 mg/kg (ODEQ 2018), which represents the 95% upper prediction limit. This is a statistical threshold set at the 95<sup>th</sup> percentile of naturally occurring arsenic levels in the Portland Basin. This means that 95% of all soil samples collected to establish the Portland Basin background concentration fall at or below 8.8 mg/kg, while the remaining 5% are likely to exceed this threshold due to natural variability. Soil samples from BH5 and BH15 (with an RPD of 7.12% and 37.04% when compared to the 95% upper prediction limit background value, respectively) are believed to exhibit arsenic concentrations within this upper 5%, suggesting that while they are slightly above the upper prediction limit and that are within the expected range of natural background variation.

Similarly, lead has a regional background concentration for the Portland Basin region of 79 mg/kg. Soil samples from BH3 had a lead concentration of 130 mg/kg with an RPD of 49% when compared to the 95% upper prediction limit background value and may represent natural variability as all remaining lead soil samples are below background concentrations.

Thallium was detected in all soil boring locations within the former railroad spur at concentrations exceeding the EPA RSL for Residential Soil (EPA 2024) (Figure 3). However, all sample concentrations were below the background thallium concentration for the Portland Basin, which is 5.2 mg/kg (ODEQ 2018). Additionally, ODEQ has not established RBCs for thallium.

#### *Assessment of Hazardous Building Materials in Site Structures*

Hazardous building materials were identified or suspected on the main canopy and attendants' structure at the Site. ACM was detected in samples along the seams of the main canopy's metal roof panels. Additionally, white caulking was observed on the main canopy roof and is presumed to contain asbestos. The material exists around the base of six structural steel posts. Twenty-nine (29) HID light bulbs under and on top of the main canopy are presumed to contain mercury. A damaged light fixture was observed inside the attendant's structure, but no bulbs were present. The fixture had been damaged by fire, and while no fluorescent bulb debris was found, a damaged light ballast remained with its labeling destroyed. Without identifying information, this ballast should be presumed to contain PCBs, and the fixture itself should be considered PCB-contaminated. No LBP was found to be present on any of the Site structures.

## **6.0 Phase II ESA Conclusions and Recommendations**

The analytical results for soil, groundwater, and soil vapor samples indicate COCs are present at the Site above the respective ODEQ RBCs (ODEQ 2023, 2024). The HBMS confirmed the presence of hazardous building materials on and within the Site structures. The following sections summarize ERG's conclusions and recommendations.

### **6.1 Conclusions**

Based on field observations, available information, and Site-specific data collected, ERG concludes the following:

- **Petroleum Impacts to Soil, Groundwater, and Soil Vapor.** All target petroleum COCs for soil and groundwater were below the ODEQ RBCs for Construction and Excavation Workers and Groundwater in Excavation.

TPH-GRO was detected in vapor wells VP-3 and VP-5 above the ODEQ Residential Soil Vapor RBC. TPH-GRO at VP-5 also exceeded the ODEQ Commercial Soil Vapor RBC indicating that the documented releases at the Site continue to impact Site soil vapor in areas around the USTs.

Due to the presence of the same COCs detected in groundwater and soil vapor the groundwater to vapor intrusion pathway is considered complete.

Activity Use Limitations (AULs) designating the Site for commercial use would resolve the soil, groundwater, and vapor intrusion concerns, except for the soil vapor exceedances in VP-5, which would require mitigation.

- **Metals in Surface Soil and Groundwater.** Arsenic was detected in four soil boring locations and lead was detected in one soil boring location within the footprint of the former rail spur at concentrations exceeding ODEQ RBCs for Residential and/or Occupational Soil. However, both the arsenic and lead concentrations identified in soil appear to fall within the expected range of natural background variation for arsenic and lead in the Portland Basin.

In addition, thallium was detected in all soil boring locations within the former rail spur at concentrations exceeding the EPA RSL for Resident Soil. No ODEQ RBCs have been established for thallium. However all thallium concentrations were below the 95% upper prediction limit for background concentrations for the Portland Basin.

- **Presence of Hazardous Building Materials.** The HBMS identified ACBM in samples along the seams of the main canopy's metal roof panels. Additionally, white caulking was observed on the main canopy roof and is presumed to contain asbestos. Mercury-containing HID light bulbs and suspect PCB-containing ballasts were also observed during the HBMS. These hazardous building materials may pose a risk to current and future Site users and the environment.

## 6.2 Recommendations

Based on the findings and conclusions summarized above, ERG recommends that an Analysis of Brownfields Cleanup Alternatives (ABCA) be developed to evaluate cleanup alternatives and/or AULs related to vapor intrusion, hazardous building materials and closure of the inactive USTs.

## 7.0 References

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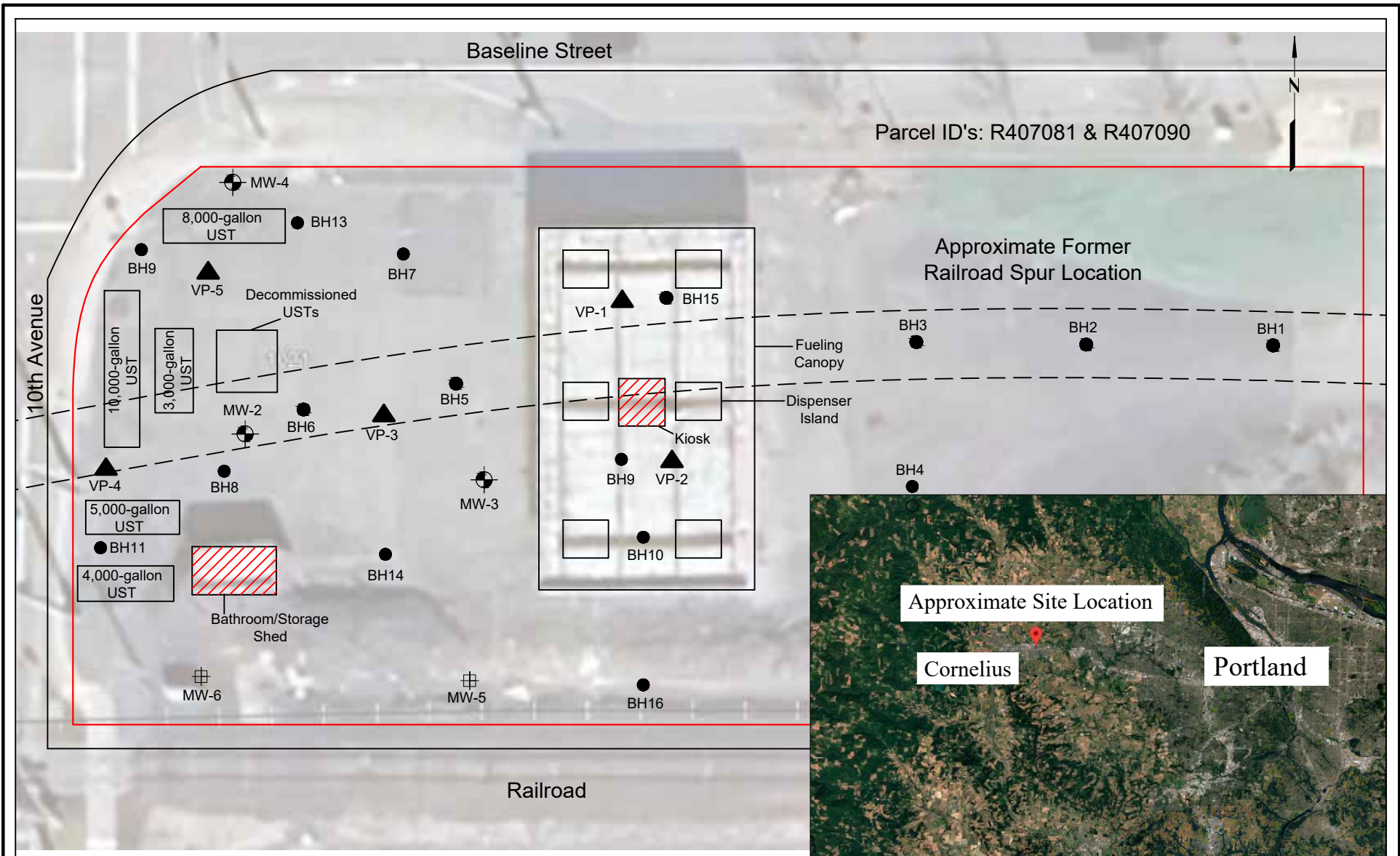
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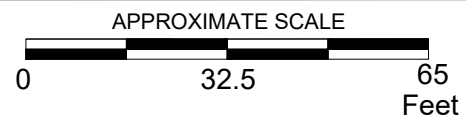


EXPLANATION:

- — Railroad Spur
- Site Boundary
- HBMS Survey Location
- M

 MW-3 Existing Groundwater Monitoring Well
- G

 MW-5 New Groundwater Monitoring Well



PRINT DATE:  
March 13, 2025

PROJECT NUMBER:  
22136 - Task 10

PROJECTION:  
UTM NAD 83, Zone 11N

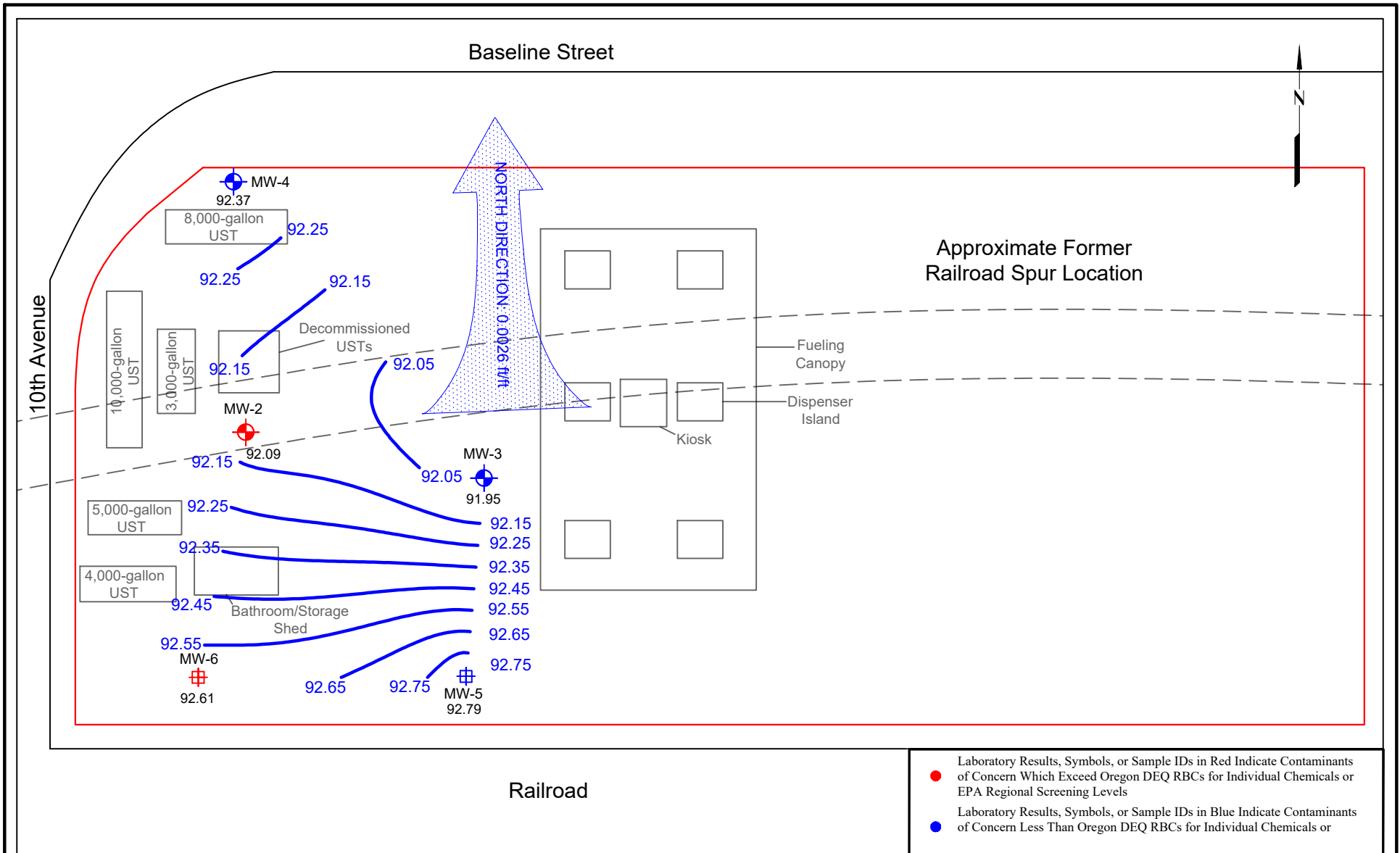
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B. McLees

CARTOGRAPHER:  
B. Brantley

PROJECT NAME:  
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FIGURE 1:  
Site Location Map

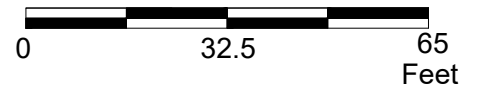
This map was produced using information obtained from several different sources that have not been independently verified. These sources have also not provided information on the precision and accuracy of the data. Information on this map is not a substitute for survey data.



**EXPLANATION:**

- Railroad Spur
- Site Boundary
- MW-5 New Groundwater Monitoring Well
- MW-3 Existing Groundwater Monitoring Well
- Groundwater Contour

**APPROXIMATE SCALE**



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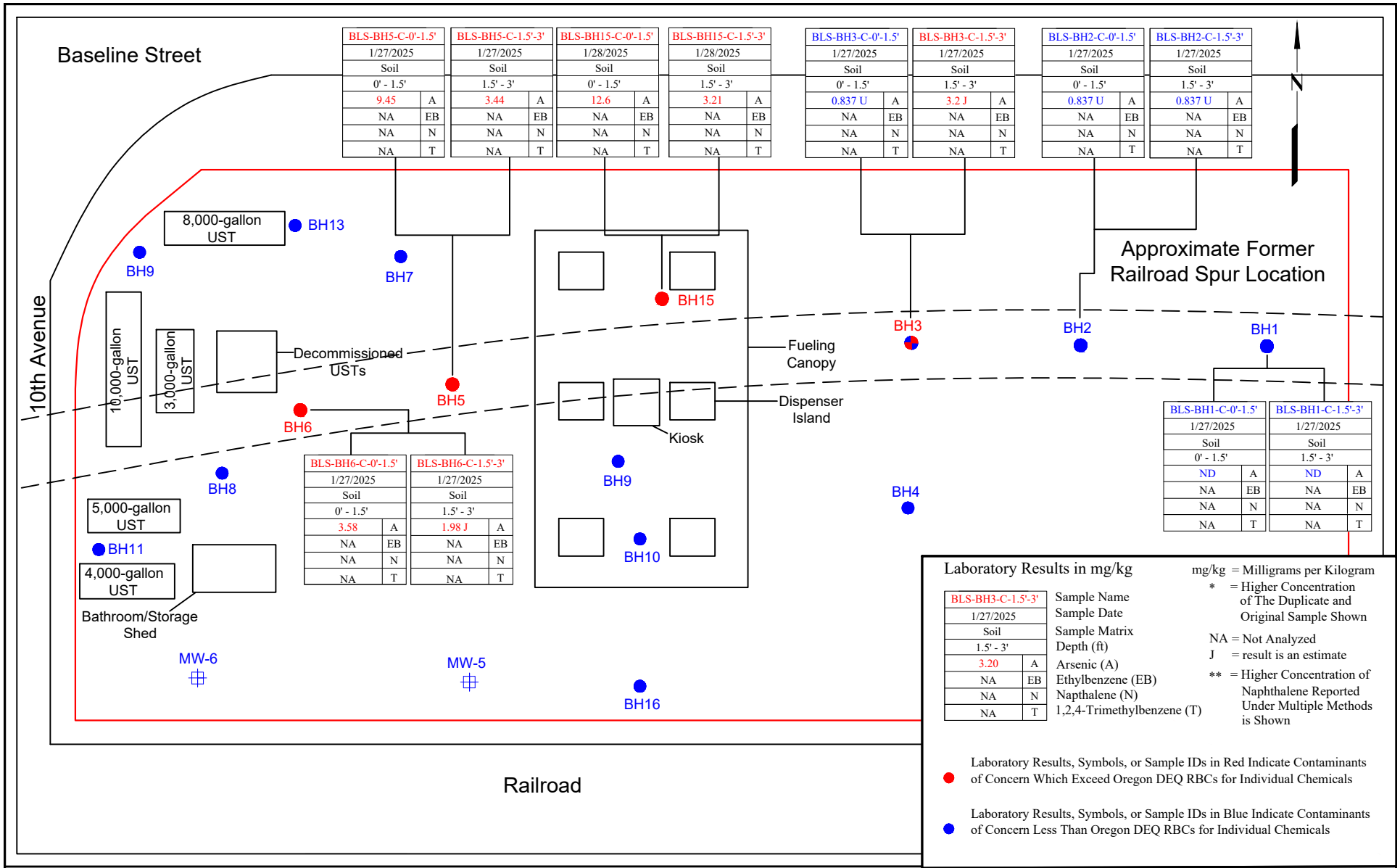
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CARTOGRAPHER:  
B. Brantley

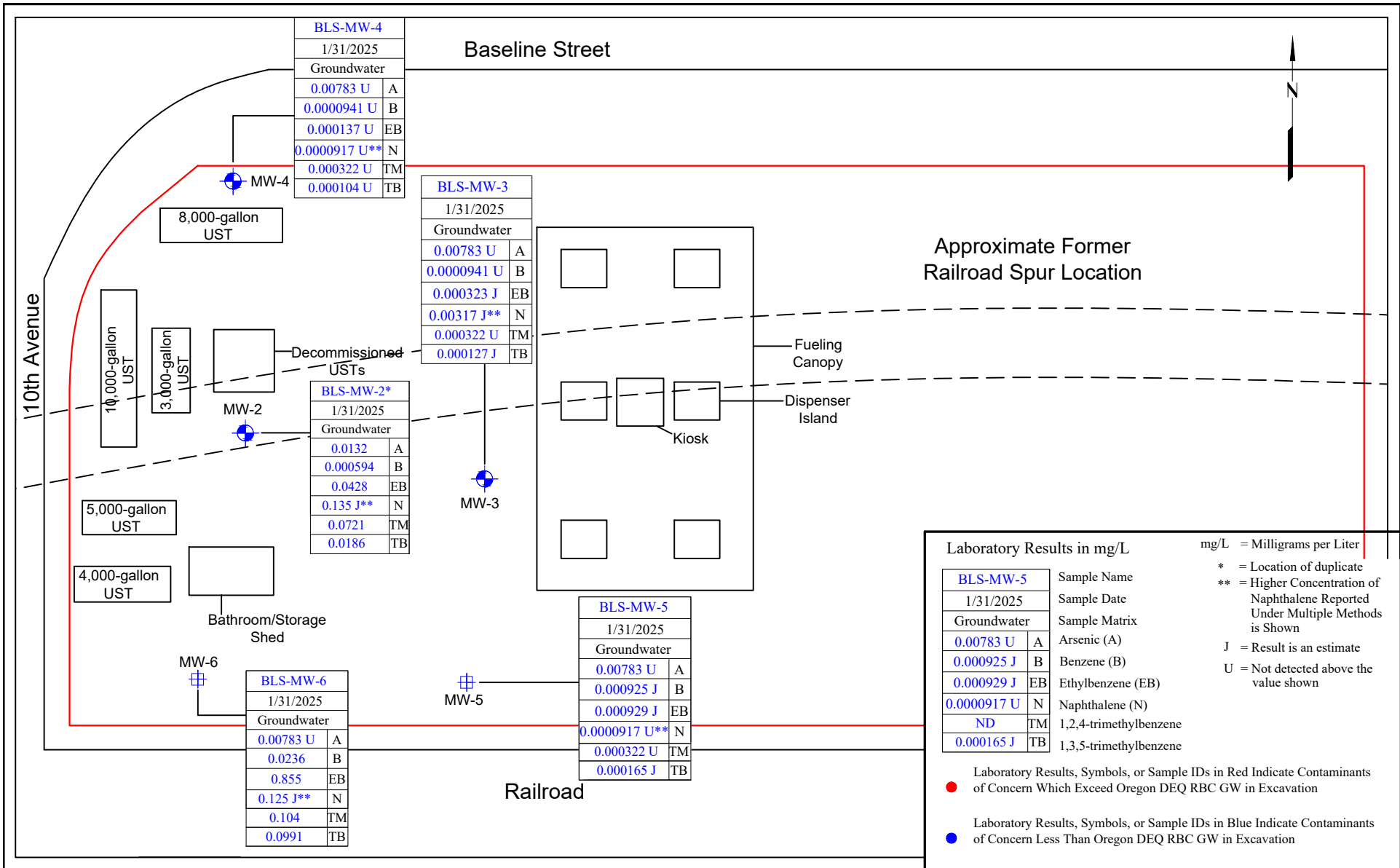
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FIGURE 2:  
**Groundwater Elevation Contour Map**

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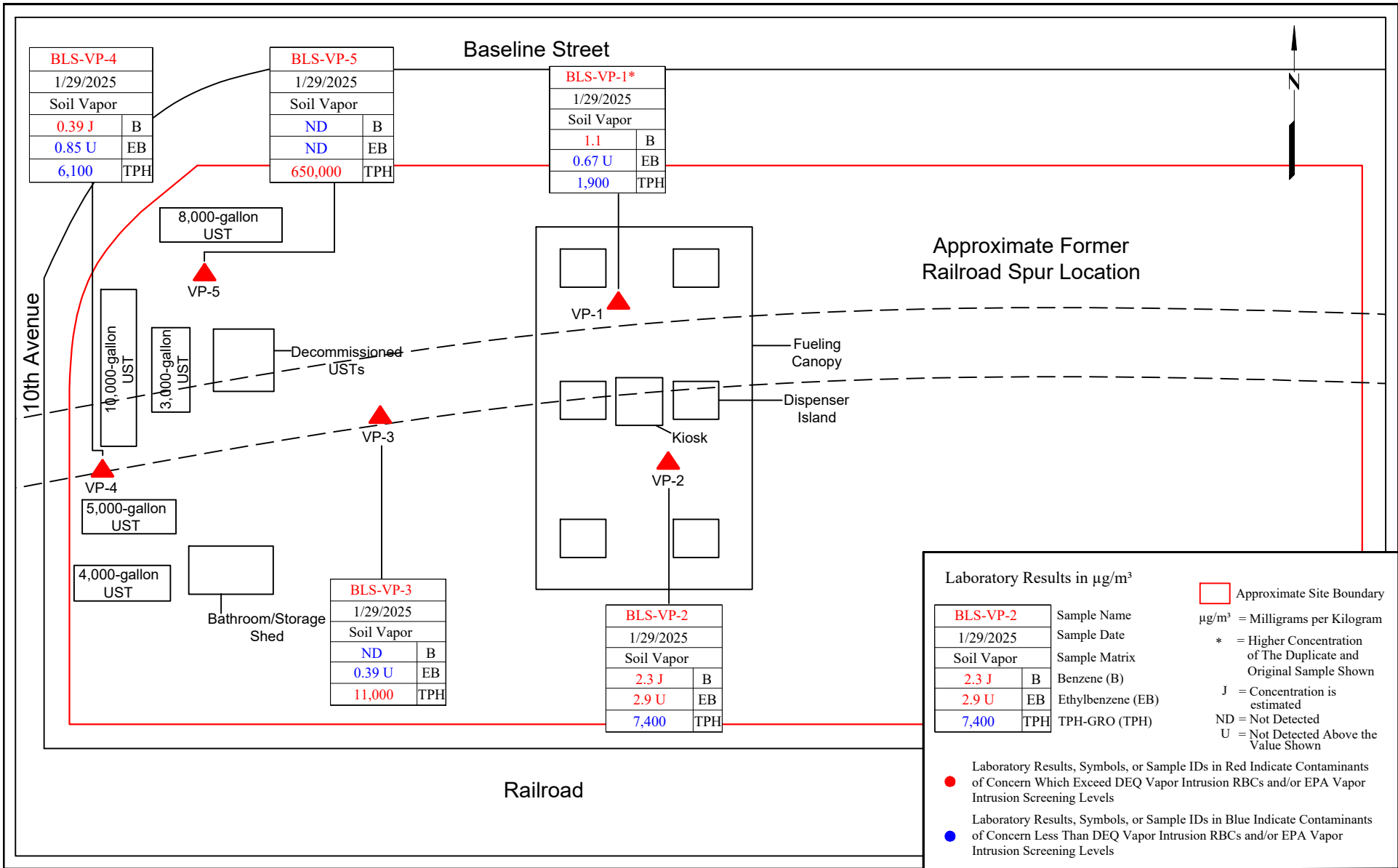
	PRINT DATE: April 11, 2025	PROJECTION: UTM NAD 83, Zone 11N	PROJECT NAME: 1021 & 1037 Baseline Street Cornelius, Oregon 97113	<b>FIGURE 3:</b>  <b>Soil Sampling Analysis Map</b>	This map was produced using information obtained from several different sources that have not been independently verified. These sources have also not provided information on the precision and accuracy of the data. Information on this map is not a substitute for survey data.
	PROJECT NUMBER: 22136 - Task 10	PROJECT MANAGER: B. McLees	CARTOGRAPHER: B. Brantley		



**EXPLANATION:**

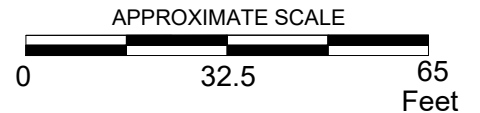


	PRINT DATE: April 11, 2025	PROJECTION: UTM NAD 83, Zone 11N	PROJECT NAME: 1021 & 1037 Baseline Street Cornelius, Oregon 97113	<b>FIGURE 4:</b>  <b>Groundwater Sampling Analysis Map</b>	This map was produced using information obtained from several different sources that have not been independently verified. These sources have also not provided information on the precision and accuracy of the data. Information on this map is not a substitute for survey data.
	PROJECT NUMBER: 22136 - Task 10	PROJECT MANAGER: B. McLees	CARTOGRAPHER: B. Brantley		



**EXPLANATION:**

- Site Boundary
- Soil Vapor Well
- Railroad Spur



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CARTOGRAPHER:  
B. Brantley

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FIGURE 5

**Soil Vapor Analysis Map**

This map was produced using information obtained from several different sources that have not been independently verified. These sources have also not provided information on the precision and accuracy of the data. Information on this map is not a substitute for survey data.

## **Appendix A – Photo Log**

Photo 1



Locates along western portion of the site (facing north).

Photo 2



Locates along western portion of the site (facing east).

Photo 3



Locates along western portion of the site (facing east).

Photo 4



Locates along western portion of the site (facing east).



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APPENDIX A, PHOTO LOG

Phase II ESA

Photo 5



Locates in front of Bathroom/Storage Shed (facing south).

Photo 6



Located product lines extending to canopy/dispenser island (facing east).

Photo 7



Locates beneath the southern portion of the canopy (facing east).

Photo 8



Locates beneath northern portion of the canopy.



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Photo 9



Holt setting up to drill on eastern portion of the site (facing northeast).

Photo 10



Alta/ERG field crew characterizing soil cores (facing north).

Photo 11



Sampling/characterizing set up on the east side of the site (facing east).

Photo 12



Concrete coring set up on the drill rig (facing northeast).



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Photo 13



Vacuum excavation truck (Holt) on site to begin clearing boring locations close to utilities/underground disturbances (facing northwest).

Photo 14



Vacuum excavation truck crew clearing borings under southern portion of canopy (facing south).

Photo 15



Drilling crew continuing drilling on western portion of the site (facing north).

Photo 16



Alta/ERG field crew banking samples (facing south).



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Phase II ESA

Photo 17



Setting vapor well VP-3.

Photo 18



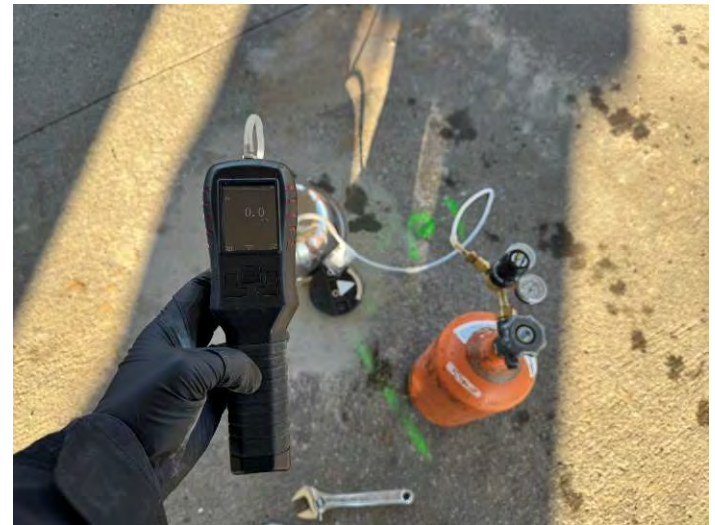
VP-3 after monument set.

Photo 19



Helium vapor kit set up at vapor well VP-1.

Photo 20



Successful bump test at VP-1.



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APPENDIX A PHOTO LOG

Phase II ESA

Photo 21



Successful bump test at VP-2.

Photo 22



Successful bump test at VP-3.

Photo 23



Successful bump test at VP-4.

Photo 24



Successful bump test at VP-5.



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APPENDIX A, PHOTO LOG

Phase II ESA

Photo 25



Soil vapor sampling at VP-1 (includes replicate).

Photo 26



Soil vapor sampling at VP-2.

Photo 27



Soil vapor sampling at VP-3.

Photo 28



Soil vapor sampling at VP-4.



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Photo 29



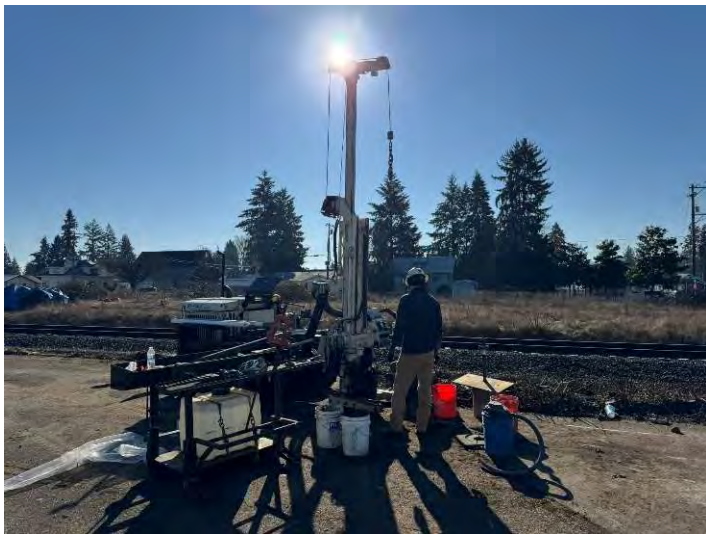
Soil vapor sampling at VP-5.

Photo 30



Drilling crew installing MW-6 (facing west).

Photo 31



Drilling crew installing MW-5 (facing south).

Photo 32



View of cores from BH9.



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Phase II ESA

Photo 33



Developing MW-5 (facing south).

Photo 34



Taking turbidity readings for MW-5 (beneath 20 NTU).

Photo 35



One of the turbidity readings for MW-6 (beneath 20 NTU).

Photo 36



MW-5 completed monitoring well.



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Phase II ESA

Photo 37



MW-6 completed monitoring well.

Photo 38



Existing well MW-4.

Photo 39



Existing well MW-3.

Photo 40



Existing well MW-2.



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Phase II ESA

Photo 37



Setting up for sampling at MW-6.

Photo 38



Sampling out of MW-6.

Photo 39



Alta/ERG field crew low-flow active sampling.

Photo 40



Investigative derived waste (IDW) at the site.



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Phase II ESA

**Appendix B –  
Boring and Well Logs and Groundwater Sampling  
Sheets**









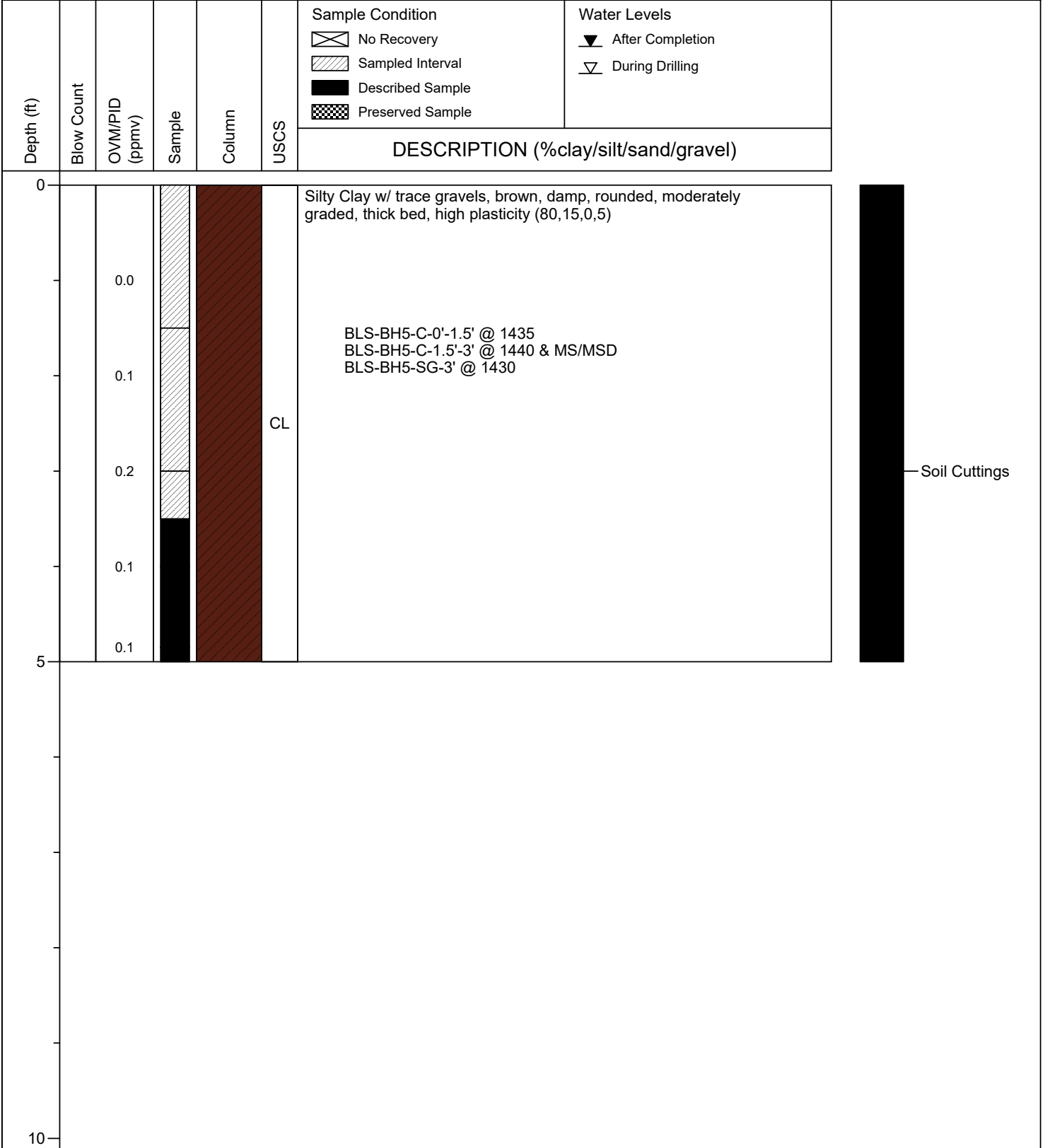


# BORING LOG BH5

(Page 1 of 1)

Date Drilled: : 1/27/25  
 Drilling Co.: : Holt  
 Drilling Method: : Direct Push  
 Sampling Method: : Continuous Core  
 Borehole Diameter: : 2"  
 Casing Diameter: : 2"  
 Total Depth: : 5'  
 First GW Depth: :  
 IDWR Well ID: : N/A

Project No.: : 22136.091  
 Site: : 1021 Baseline St, Cornelius, OR  
 Logged By: : Brady Brantley  
 Reviewed By: :  
 Signature: : \_\_\_\_\_



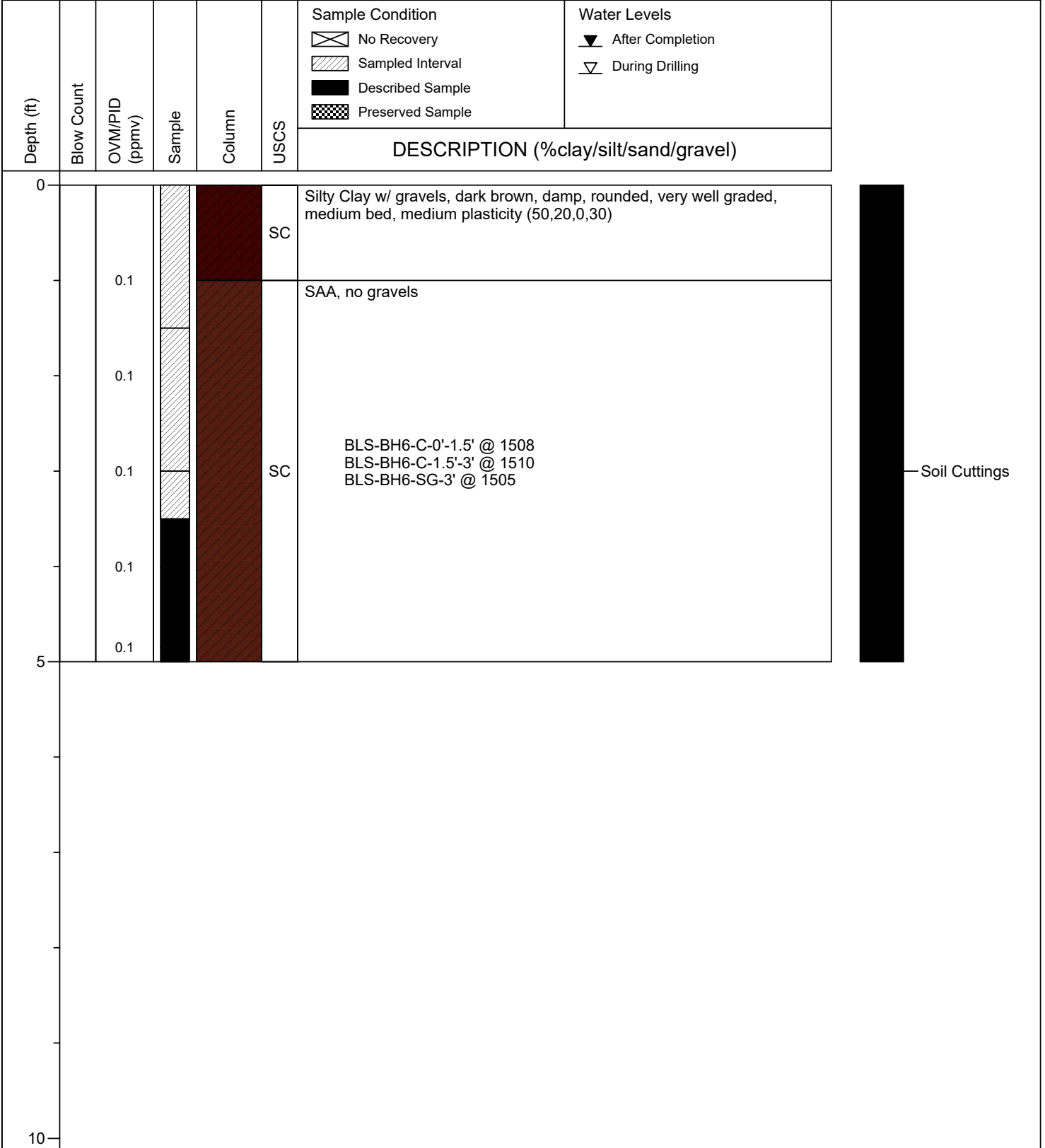


# BORING LOG BH6

(Page 1 of 1)

Date Drilled: : 1/27/25  
 Drilling Co.: : Holt  
 Drilling Method: : Direct Push  
 Sampling Method: : Continuous Core  
 Borehole Diameter: : 2"  
 Casing Diameter: : 2"  
 Total Depth: : 5'  
 First GW Depth: :  
 IDWR Well ID: : N/A

Project No.: : 22136.091  
 Site: : 1021 Baseline St, Cornelius, OR  
 Logged By: : Brady Brantley  
 Reviewed By: :  
 Signature: : \_\_\_\_\_





# BORING LOG BH7

(Page 1 of 1)

Date Drilled: : 1/27/25  
 Drilling Co.: : Holt  
 Drilling Method: : Direct Push  
 Sampling Method: : Continuous Core  
 Borehole Diameter: : 2"  
 Casing Diameter: : 2"  
 Total Depth: : 15'  
 First GW Depth: : 10'  
 IDWR Well ID: : N/A

Project No.: : 22136.091  
 Site: : 1021 Baseline St, Cornelius, OR  
 Logged By: : Brady Brantley  
 Reviewed By: :  
 Signature: : \_\_\_\_\_

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	DESCRIPTION (%clay/silt/sand/gravel)
						No Recovery Sampled Interval Described Sample Preserved Sample	After Completion During Drilling	
0					FB	Asphalt/Fill Materials		
0.0					CL	Silty Clay, brown, damp, rounded, very poorly graded, high plasticity (90,10,0,0) 100% recovery		Soil Cuttings
0.0								
0.0								
0.0								
0.0								
5								
2.1								
2.8								
3.4								
4.8								
12.1								
10						Silty Clay, grey, moist, rounded, very poorly graded, high plasticity (90,10,0,0) 100% Recovery		
40.8						Saturated @ 10', petroleum odor above interface		
2.7						BLS-BH7-SG-12' & MS/MSD @ 1530		
512.1					CL			
10.6								
3.8								
15								

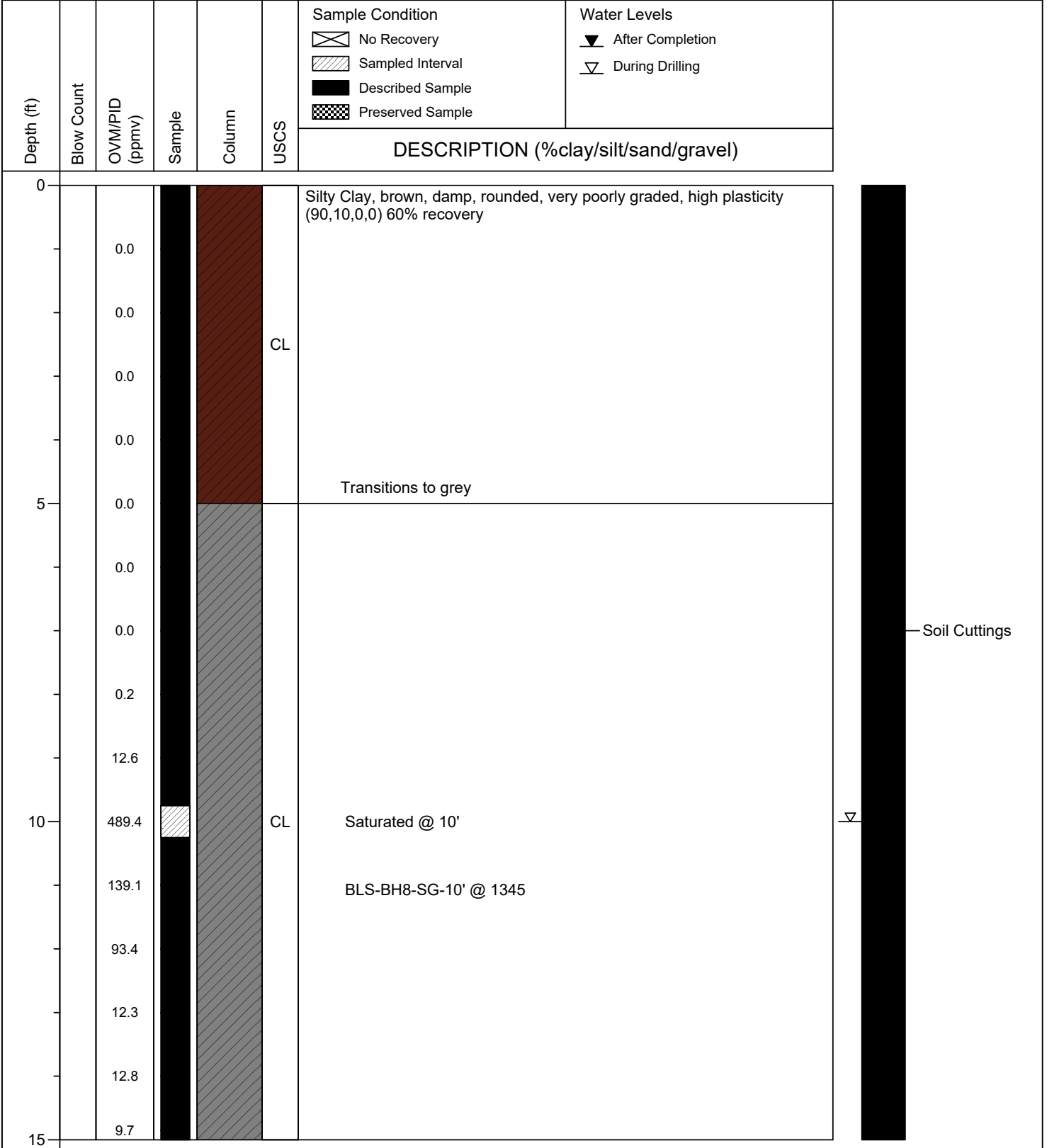


# BORING LOG BH8

(Page 1 of 1)

Date Drilled: : 1/28/25  
 Drilling Co.: : Holt  
 Drilling Method: : Direct Push  
 Sampling Method: : Continuous Core  
 Borehole Diameter: : 2"  
 Casing Diameter: : 2"  
 Total Depth: : 15'  
 First GW Depth: : 10'  
 IDWR Well ID: : N/A

Project No.: : 22136.091  
 Site: : 1021 Baseline St, Cornelius, OR  
 Logged By: : Brady Brantley  
 Reviewed By: :  
 Signature: : \_\_\_\_\_







# BORING LOG BH10

(Page 1 of 1)

Date Drilled: : 1/28/25  
 Drilling Co.: : Holt  
 Drilling Method: : Direct Push  
 Sampling Method: : Continuous Core  
 Borehole Diameter: : 2"  
 Casing Diameter: : 2"  
 Total Depth: : 15'  
 First GW Depth: : 13'  
 IDWR Well ID: : N/A

Project No.: : 22136.091  
 Site: : 1021 Baseline St, Cornelius, OR  
 Logged By: : Brady Brantley  
 Reviewed By: :  
 Signature: : \_\_\_\_\_

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	DESCRIPTION (%clay/silt/sand/gravel)
						No Recovery Sampled Interval Described Sample Preserved Sample	After Completion During Drilling	
0								Silt w/ Gravel, brown, damp, subrounded, very well graded, low plasticity (0,50,0,50)
		0.0			GM			No recovery 1' - 5' due to large basalt rock  Vac Truck Location
5		0.0						Silty Clay, brown, damp, rounded, very poorly graded, thick bed, high plasticity (70,30,0,0) 100% recovery
		0.0						
		0.0						
		0.0						
		0.0						
		0.0			CL			
		0.0						
		0.0						
		14.2						Saturated @ 13', Grey 6" section starting @ 13'
		0.5						BLS-BH10-SG-13' @ 1315
15		0.0						



Soil Cuttings





# BORING LOG BH11

(Page 1 of 1)

Date Drilled: : 1/28/25  
 Drilling Co.: : Holt  
 Drilling Method: : Direct Push  
 Sampling Method: : Continuous Core  
 Borehole Diameter: : 2"  
 Casing Diameter: : 2"  
 Total Depth: : 15'  
 First GW Depth: : 13'  
 IDWR Well ID: : N/A

Project No.: : 22136.091  
 Site: : 1021 Baseline St, Cornelius, OR  
 Logged By: : Brady Brantley  
 Reviewed By: :  
 Signature: : \_\_\_\_\_

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	DESCRIPTION (%clay/silt/sand/gravel)
						No Recovery Sampled Interval Described Sample Preserved Sample	After Completion During Drilling	
0								Silt w/ Gravel, brown, damp, subrounded, very well graded (0,50,0,50)
0.2								Transitions to no gravels (0,100,0,0)
0.3					GM			Clay present (30,70,0,0,)
3.1								Slight Petroleum Odor
3.2								Vac Truck Location
5								SAA, transitions to grey (80,20,0,0)
9.1								
8.6								
6.1								
91.9								
10					CL			
97.8								
3.4								
64.6								
14.3								Saturated @ 13'
9.3								BLS-BH11-SG-10' @ 1400
15								





# BORING LOG BH12

(Page 1 of 1)

Date Drilled: : 1/28/25  
 Drilling Co.: : Holt  
 Drilling Method: : Direct Push  
 Sampling Method: : Continuous Core  
 Borehole Diameter: : 2"  
 Casing Diameter: : 2"  
 Total Depth: : 15'  
 First GW Depth: : 12'  
 IDWR Well ID: : N/A

Project No.: : 22136.091  
 Site: : 1021 Baseline St, Cornelius, OR  
 Logged By: : Brady Brantley  
 Reviewed By: :  
 Signature: : \_\_\_\_\_

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	DESCRIPTION (%clay/silt/sand/gravel)
						No Recovery Sampled Interval Described Sample Preserved Sample	After Completion During Drilling	
0								Silty Clay, brown/grey, damp, rounded, very well graded, (80,20,0,0) Slight Petroleum Odor
0.2								
0.4								Vac Truck Location
0.3					CL			
0.3								
5								SAA, transitions to grey
0.2								
0.0								
0.0								
0.0								
0.0								
0.1								
10								Strong Petroleum Odor @ 10'
0.0					CL			
0.0								
0.0								Saturated @ 12'
0.0								
0.0								BLS-BH12-SG-10' @ 1415
0.0								
0.0								
15								



Soil Cuttings





# BORING LOG BH13

(Page 1 of 1)

Date Drilled: : 1/28/25  
 Drilling Co.: : Holt  
 Drilling Method: : Direct Push  
 Sampling Method: : Continuous Core  
 Borehole Diameter: : 2"  
 Casing Diameter: : 2"  
 Total Depth: : 15'  
 First GW Depth: : 13'  
 IDWR Well ID: : N/A

Project No.: : 22136.091  
 Site: : 1021 Baseline St, Cornelius, OR  
 Logged By: : Brady Brantley  
 Reviewed By: :  
 Signature: : \_\_\_\_\_

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	DESCRIPTION (%clay/silt/sand/gravel)
						No Recovery Sampled Interval Described Sample Preserved Sample	After Completion During Drilling	
0								Silty Clay, dark brown, damp, rounded, very well graded, (80,20,0,0)
0.0								
0.1								
0.1					CL			
0.2								
5								
0.3								SAA, transitions to grey
0.7								
3.0								Slight Petroleum Odor @ 9'
3.2								
4.8								
10					CL			
17.1								Saturated @ 13', dark grey lens
4.0								
5.1								
76.2								BLS-BH13-SG-13' @ 1430
14.0								
15								



Soil Cuttings





# BORING LOG BH14

(Page 1 of 1)

Date Drilled: : 1/28/25  
 Drilling Co.: : Holt  
 Drilling Method: : Direct Push  
 Sampling Method: : Continuous Core  
 Borehole Diameter: : 2"  
 Casing Diameter: : 2"  
 Total Depth: : 15'  
 First GW Depth: : 12'  
 IDWR Well ID: : N/A

Project No.: : 22136.091  
 Site: : 1021 Baseline St, Cornelius, OR  
 Logged By: : Brady Brantley  
 Reviewed By: :  
 Signature: : \_\_\_\_\_

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	DESCRIPTION (%clay/silt/sand/gravel)
						No Recovery Sampled Interval Described Sample Preserved Sample	After Completion During Drilling	
0								Silty Clay, dark brown, damp, rounded, very well graded, high plasticity (80,20,0,0) 60% recovery
0.0								Small gravel lens @ 1'
0.0								
0.0								
0.0								
0.0					CL			
0.0								
0.0								
0.0								
0.0								
0.8								Transtions to grey
0.8								
60.1								
192.3					CL			Saturated @ 12', thin bed of dark grey soil @ 12'
21.8								BLS-BH14-SG-12' @ 1330
45.6								
15.2								



Soil Cuttings



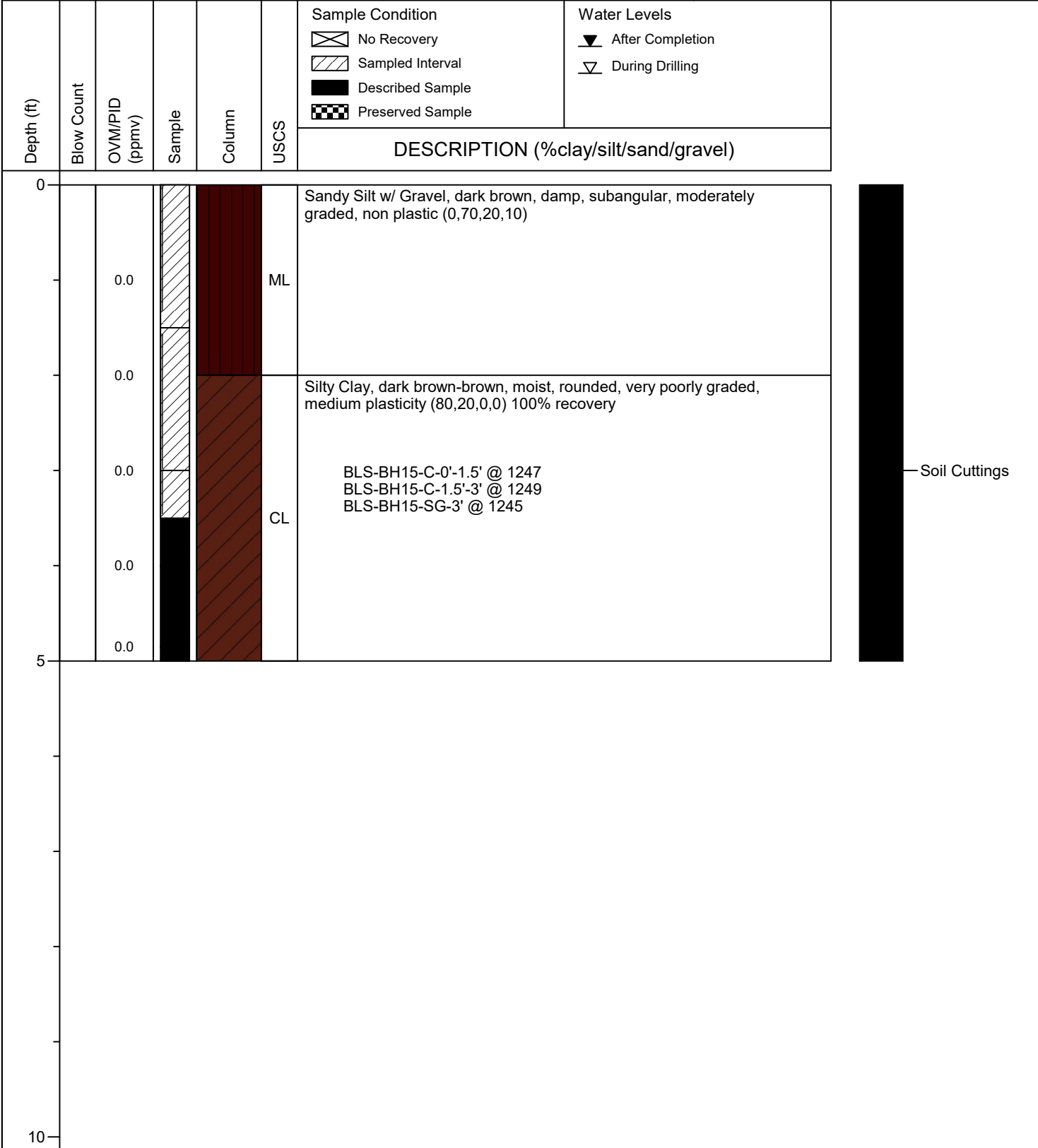


# BORING LOG BH15

(Page 1 of 1)

Date Drilled: : 1/28/25  
 Drilling Co.: : Holt  
 Drilling Method: : Direct Push  
 Sampling Method: : Continuous Core  
 Borehole Diameter: : 2"  
 Casing Diameter: : 2"  
 Total Depth: : 5'  
 First GW Depth: :  
 IDWR Well ID: : N/A

Project No.: : 22136.091  
 Site: : 1021 Baseline St, Cornelius, OR  
 Logged By: : Brady Brantley  
 Reviewed By: :  
 Signature: : \_\_\_\_\_





# BORING LOG BH16

(Page 1 of 1)

Date Drilled: : 1/29/25  
 Drilling Co.: : Holt  
 Drilling Method: : Direct Push  
 Sampling Method: : Continuous Core  
 Borehole Diameter: : 2"  
 Casing Diameter: : 2"  
 Total Depth: : 15'  
 First GW Depth: : 13'  
 IDWR Well ID: : N/A

Project No.: : 22136.091  
 Site: : 1021 Baseline St, Cornelius, OR  
 Logged By: : Brady Brantley  
 Reviewed By: :  
 Signature: : \_\_\_\_\_

Depth (ft)	Blow Count	OVM/PID (ppmv)	Sample	Column	USCS	Sample Condition	Water Levels	DESCRIPTION (%clay/silt/sand/gravel)
						No Recovery Sampled Interval Described Sample Preserved Sample	After Completion During Drilling	
0								Silty Clay w/ Gravel, dark brown, damp, subrounded, well graded, low plasticity (50,20,5,25) 60% recovery
0.0					CL			
0.0								Silty Clay, brown, damp, rounded, very poorly graded, high plasticity (80,20,0,0)
0.0								
0.0								
5								
0.0								
0.0								
0.0								
0.0					CL			
0.6								
10								
0.4								
0.0								
0.0								
0.0								
0.0								Saturated @ 13'
0.6								Small grey soil lens @ 14'
0.0								BLS-BH16-SG-14' @ 1020
15								



Soil Cuttings



04-11-2025 R:\Projects\Region 10 TBA - 22136\Task 10.0 1021 & 1037 Baseline Street\Bore Logs\BH16.bor



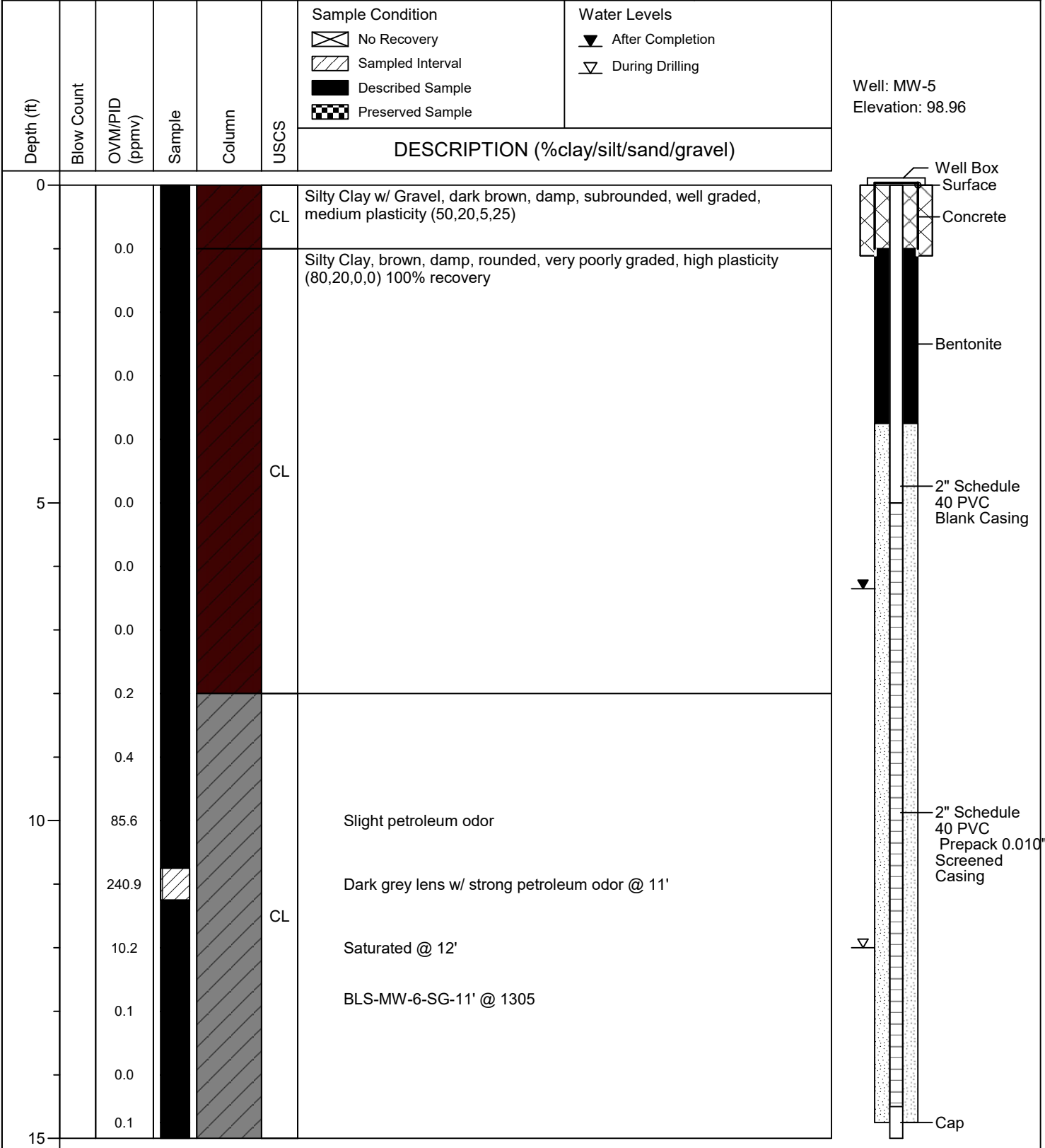


# BORING LOG MW-6

(Page 1 of 1)

Date Drilled: : 1/29/2024  
 Drilling Co.: : Holt  
 Drilling Method: : Direct Push  
 Sampling Method: : Continuous Core  
 Borehole Diameter: : 4"  
 Casing Diameter: : 2"  
 Total Depth: : 15' bgs  
 First GW Depth: : 12' bgs  
 IDWR Well ID: :

Project No.: : 22136.091  
 Site: : 1021 Baseline St, Cornelius, OR  
 Logged By: : Brady Brantley  
 Reviewed By: :  
 Signature: : \_\_\_\_\_



04-11-2025 R:\Projects\Region 10 TBA - 22136\Task 10.0 1021 & 1037 Baseline Street\Bore Logs\MW-6.bor

## **Appendix C – Wellhead Elevation Survey Results**

**WELLHEAD ELEVATION SURVEY RESULTS**

**1021 1037 Baseline Street**

1021 Baseline Street,

Cornelius, OR

February 13, 2025

Page 1 of 1

<b>MW-2 Elevation Survey Using Utility Access Box (100.00 feet amsl)</b>				
MW-2 Station	MW-2 Measurement (H1) Feet	Utility Access Box (H2) Feet	$\Delta H$ Feet	$\Delta H +$ Utility Access Box Feet
MW-2 Station 1 Elevation Survey	5.99	5.20	-0.79	99.21
MW-2 Station 2 Elevation Survey	5.75	4.96	-0.79	99.21
MW-2 Station 3 Elevation Survey	5.38	4.60	-0.78	99.22
<b>Station 1 through Station 3 Average Elevation (Calculated MW-2 Elevation):</b>				<b>99.21</b>

<b>MW-3 Elevation Survey Using Utility Access Box (100.00 feet amsl)</b>				
MW-3 Station	MW-3 Measurement (H1) Feet	Utility Access Box (H2) Feet	$\Delta H$ Feet	$\Delta H +$ Utility Access Box Feet
MW-3 Station 1 Elevation Survey	5.96	5.20	-0.76	99.24
MW-3 Station 2 Elevation Survey	5.76	4.96	-0.80	99.20
MW-3 Station 3 Elevation Survey	5.33	4.60	-0.73	99.27
<b>Station 1 through Station 3 Average Elevation (Calculated MW-3 Elevation):</b>				<b>99.24</b>

<b>MW-4 Elevation Survey Using Utility Access Box (100.00 feet amsl)</b>				
MW-4 Station	MW-4 Measurement (H1) Feet	Utility Access Box (H2) Feet	$\Delta H$ Feet	$\Delta H +$ Utility Access Box Feet
MW-4 Station 1 Elevation Survey	6.89	5.20	-1.69	98.31
MW-4 Station 2 Elevation Survey	6.65	4.96	-1.69	98.31
MW-4 Station 3 Elevation Survey	6.27	4.60	-1.67	98.33
<b>Station 1 through Station 3 Average Elevation (Calculated MW-4 Elevation):</b>				<b>98.32</b>

<b>MW-5 Elevation Survey Using Utility Access Box (100.00 feet amsl)</b>				
MW-5 Station	MW-5 Measurement (H1) Feet	Utility Access Box (H2) Feet	$\Delta H$ Feet	$\Delta H +$ Utility Access Box Feet
MW-5 Station 1 Elevation Survey	5.82	5.20	-0.62	99.38
MW-5 Station 2 Elevation Survey	5.56	4.96	-0.60	99.40
MW-5 Station 3 Elevation Survey	5.19	4.60	-0.59	99.41
<b>Station 1 through Station 3 Average Elevation (Calculated MW-5 Elevation):</b>				<b>99.40</b>

<b>MW-6 Elevation Survey Using Utility Access Box (100.00 feet amsl)</b>				
MW-6 Station	MW-6 Measurement (H1) Feet	Utility Access Box (H2) Feet	$\Delta H$ Feet	$\Delta H +$ Utility Access Box Feet
MW-6 Station 1 Elevation Survey	6.18	5.20	-0.98	99.02
MW-6 Station 2 Elevation Survey	6.07	4.96	-1.11	98.89
MW-6 Station 3 Elevation Survey	5.64	4.60	-1.04	98.96
<b>Station 1 through Station 3 Average Elevation (Calculated MW-6 Elevation):</b>				<b>98.96</b>

Final MW-2 Elevation            99.21 feet amsl  
 Final MW-3 Elevation            99.24 feet amsl  
 Final MW-4 Elevation            98.32 feet amsl  
 Final MW-5 Elevation            99.40 feet amsl  
 Final MW-6 Elevation            98.96 feet amsl

## **Appendix D – Sampling Results**

Table 1. Subsurface Soil Grab Sampling Results for TPHs

Sample ID	Sample Depth (feet bgs)	Sample Date	Units	TPH-GRO						TPH-DRO				
				MDL	RDL	Res. Sign	Result	Qualifier	MDL	RDL	Res. Sign	Result	Qualifier	
<b>Analytical Method</b>				NWTPH-Gx						NWTPH-Dx				
<b>DEQ RBC - Residential DC</b>				1,200						1,100				
<b>DEQ RBC - Occupational - DC</b>				20,000						14,000				
<b>DEQ RBC - Construction Worker - DC</b>				9,700						4,600				
<b>DEQ RBC - Excavation Worker - DC</b>				>Max						>Max				
<b>EPA RSL - Residential Soil</b>				-						-				
<b>EPA RSL - Industrial Soil</b>				-						-				
<b>DEQ Background Values for Portland Basin</b>				-						-				
				MDL	RDL	Res. Sign	Result	Qualifier	MDL	RDL	Res. Sign	Result	Qualifier	
BLS-BH1-SG-3	3'	01/27/2025	mg/kg	0.848	2.5	<	0.848	U	1.33	4	<	1.33	U	
BLS-BH2-SG-3	3'	01/27/2025	mg/kg	0.848	2.5	<	0.848	U	1.33	4		6.07		
BLS-BH3-SG-3*	3'	01/27/2025	mg/kg	0.932	2.75	<	0.932	U	1.33	4		2.96	J	
BLS-BH4-SG-10	10'	01/27/2025	mg/kg	0.848	2.5	<	0.848	U	1.33	4	<	1.33	U	
BLS-BH5-SG-3	3'	01/27/2025	mg/kg	0.848	2.5	<	0.848	U	1.33	4	<	1.33	U	
BLS-BH6-SG-3	3'	01/27/2025	mg/kg	0.848	2.5	<	0.848	U	1.33	4		3.26	J	
BLS-BH7-SG-12	12'	01/27/2025	mg/kg	0.848	2.5		6.39	J	1.33	4		8.44		
BLS-BH8-SG-10	10'	01/28/2025	mg/kg	16.9	50		3,690	J+	1.33	4		25.1		
BLS-BH9-SG-10	10'	01/28/2025	mg/kg	0.848	2.5		26.9		1.33	4		2.13	J	
BLS-BH10-SG-13	13'	01/28/2025	mg/kg	3.39	10		129		1.33	4		59.8		
BLS-BH11-SG-10	10'	01/28/2025	mg/kg	8.48	25		251		1.33	4		103		
BLS-BH12-SG-10	10'	01/28/2025	mg/kg	8.48	25		714		1.33	4		1.56	J	
BLS-BH13-SG-13	13'	01/28/2025	mg/kg	8.48	25		1,110		1.33	4		132		
BLS-BH14-SG-12	12'	01/28/2025	mg/kg	8.48	25		627		1.33	4		42.2		
BLS-BH15-SG-3	3'	01/28/2025	mg/kg	0.848	2.5	<	0.848	U	1.33	4	<	1.33	U	
BLS-BH16-SG-14	14'	01/29/2025	mg/kg	0.848	2.5	<	0.848	U	1.33	4	<	1.33	U	
BLS-MW-5-SG-12	12'	01/29/2025	mg/kg	0.848	2.5		60.9		1.33	4		9.72		
BLS-MW-6-SG-11	11'	01/29/2025	mg/kg	16.9	50		1,730		1.33	4		23.2		

Notes:  
 TPHs = total petroleum hydrocarbons. GRO = gasoline range organics. DRO = diesel range organics.  
 Oregon DEQ Risk-Based Concentrations (RBCs) obtained from table of Risk-Based Concentrations for Individual Chemicals (DEQ 2023) for the Soil Ingestion, Dermal Contact, and Inhalation (RBCs) for Residential, Occupational, Construction Worker and Excavation Worker receptor scenarios  
 >Max = The constituent RBC for this pathway is calculated as greater than 1,000,000 mg/kg. Constituent is deemed not to pose risks in this scenario.  
 EPA RSL = EPA Regional Screening Level (EPA 2024) for the Residential Soil and Industrial Soil Pathways. \*\* Represents the Maximum Contaminant Level (MCL)-based Soil Screening Level (SSL).  
 - = not available  
 \* = location of duplicate sample, higher concentration shown  
 Samples taken less than 3 feet below ground surface (bgs) are screened against residential and occupational RBCs  
 Samples taken from 0-15 feet below ground surface (bgs) were screened against construction and excavation worker RBCs.  
 U = not detected above the value shown  
 J = result is an estimate  
 J+ = result is an estimate, biased high

Table 2. Subsurface Soil Composite Sampling Results for Metals

Sample ID	Sample Depth (feet bgs)	Sample Date	Units	Antimony					Arsenic					Beryllium				
<b>Analytical Method</b>				USEPA 6010D					USEPA 6010D					USEPA 6010D				
DEQ RBC - Residential DC				-					<b>0.43</b>					160				
DEQ RBC - Occupational - DC				-					<b>1.9</b>					2,300				
DEQ RBC - Construction Worker - DC				-					15					700				
DEQ RBC - Excavation Worker - DC				-					420					19,000				
EPA RSL - Residential Soil				31					<u>0.68</u>					160				
EPA RSL - Industrial Soil				470					<b>3</b>					2,300				
<b>DEQ Background Values for Portland Basin</b>				0.56					8.8					2				
				MDL	RDL	Res. Sig	Result	Qualifier	MDL	RDL	Res. Sig	Result	Qualifier	MDL	RDL	Res. Sig	Result	Qualifier
BLS-BH1-C-0'-1.5'	0' - 1.5'	01/27/2025	mg/kg	0.691	2		2.55		0.837	2	<	0.837	U	0.0477	0.2	<	0.0477	U
BLS-BH1-C-1.5'-3'	1.5' - 3'	01/27/2025	mg/kg	0.691	2		2.04		0.837	2	<	0.837	U	0.0477	0.2	<	0.0477	U
BLS-BH2-C-0'-1.5'	0' - 1.5'	01/27/2025	mg/kg	0.691	2		2.1		0.837	2	<	0.837	U	0.0477	0.2		0.155	J
BLS-BH2-C-1.5'-3'	1.5' - 3'	01/27/2025	mg/kg	0.691	2		1.6	J	0.837	2	<	0.837	U	0.0477	0.2	<	0.0477	U
BLS-BH3-C-0'-1.5'	0' - 1.5'	01/27/2025	mg/kg	0.691	2		1.95	J	0.837	2	<	0.837	U	0.0477	0.2	<	0.0477	U
BLS-BH3-C-1.5'-3'	1.5' - 3'	01/27/2025	mg/kg	0.691	2		3.65		0.837	2		<b>3.2</b>	J	0.0477	0.2		0.258	J
BLS-BH5-C-0'-1.5'	0' - 1.5'	01/27/2025	mg/kg	0.691	2		1.11	J	0.837	2		<b>9.45</b>		0.0477	0.2		0.311	
BLS-BH5-C-1.5'-3'	1.5' - 3'	01/27/2025	mg/kg	0.691	2		1.37	J	0.837	2		<b>3.44</b>		0.0477	0.2		0.478	
BLS-BH6-C-0'-1.5'	0' - 1.5'	01/27/2025	mg/kg	0.691	2		1.23	J	0.837	2		<b>3.58</b>		0.0477	0.2		0.291	
BLS-BH6-C-1.5'-3'	1.5' - 3'	01/27/2025	mg/kg	0.691	2		1.69	J	0.837	2		<b>1.98</b>	J	0.0477	0.2		0.422	
BLS-BH15-C-0'-1.5'	0' - 1.5'	01/28/2025	mg/kg	0.691	2		1.22	J	0.837	2		<b>12.6</b>		0.0477	0.2		0.222	
BLS-BH15-C-1.5'-3'	1.5' - 3'	01/28/2025	mg/kg	0.691	2		2.07		0.837	2		<b>3.21</b>		0.0477	0.2		0.500	

Notes:

Shaded areas identify constituents where the reporting limit and/or method detection limit exceed the shaded screening level.

**Bolded** values exceed the lowest SL for that analyte

Underlined values exceed the next lowest SL for that analyte

*Italicized* values exceed the next lowest SL for that analyte

Red values exceed the next lowest SL for that analyte

Oregon DEQ Risk-Based Concentrations (RBCs) obtained from table of

Risk-Based Concentrations for Individual Chemicals (DEQ 2023) for

the Soil Ingestion, Dermal Contact, and Inhalation (RBCss) for

Residential, Occupational, Construction Worker and Excavation

Worker receptor scenarios

>Max = The constituent RBC for this pathway is calculated as greater than 1,000,000 mg/kg. Constituent is deemed not to pose risks in this scenario.

EPA RSL = EPA Regional Screening Level (EPA 2024) for the Residential Soil and Industrial Soil Pathways. \*\* Represents the Maximum Contaminant Level (MCL)-based Soil Screening Level (SSL).

- = not available

Oregon DEQ background values for Portland Basin (DEQ 2018).

\* = location of duplicate sample, higher concentration shown

U = not detected above the value shown

UJ = estimated non-detect

J = result is an estimate

Table 2. Subsurface Soil Composite Sampling Results for Metals

Sample ID	Sample Depth (feet bgs)	Sample Date	Units	Cadmium					Chromium					Copper					Lead				
Analytical Method				USEPA 6010D					USEPA 6010D					USEPA 6010D					USEPA 6010D				
DEQ RBC - Residential DC				78					120,000					3,100					<b>100</b>				
DEQ RBC - Occupational - DC				1,100					> Max					47,000					530				
DEQ RBC - Construction Worker - DC				350					530,000					14,000					270				
DEQ RBC - Excavation Worker - DC				9,700					-					390,000					740				
EPA RSL - Residential Soil				7.1					180,000**					3,100					200				
EPA RSL - Industrial Soil				100					-					47,000					800				
DEQ Background Values for Portland Basin				0.63					76					34					79				
				MDL	RDL	Res. Sig	Result	Qualifier	MDL	RDL	Res. Sig	Result	Qualifier	MDL	RDL	Res. Sig	Result	Qualifier	MDL	RDL	Res. Sig	Result	Qualifier
BLS-BH1-C-0'-1.5'	0' - 1.5'	01/27/2025	mg/kg	0.0653	0.5	<	0.0653	U	0.214	1		2.65		0.357	2		4.30		0.326	0.5		11.9	
BLS-BH1-C-1.5'-3'	1.5' - 3'	01/27/2025	mg/kg	0.0653	0.5	<	0.0653	U	0.214	1		3.23		0.357	2		7.07		0.326	0.5		9.27	
BLS-BH2-C-0'-1.5'	0' - 1.5'	01/27/2025	mg/kg	0.0653	0.5	<	0.0653	U	0.214	1		3.48		0.357	2		4.22		0.326	0.5		14.1	
BLS-BH2-C-1.5'-3'	1.5' - 3'	01/27/2025	mg/kg	0.0653	0.5		0.0805	J	0.214	1		3.84		0.357	2		11.4		0.326	0.5		33.5	
BLS-BH3-C-0'-1.5'	0' - 1.5'	01/27/2025	mg/kg	0.0653	0.5	<	0.0653	U	0.214	1		3.1		0.357	2		5.33		0.326	0.5		11.5	
BLS-BH3-C-1.5'-3'*	1.5' - 3'	01/27/2025	mg/kg	0.0653	0.5		1.00	J	0.214	1		16.4	J	0.357	2		77.5	J	0.326	0.5		<b>130</b>	J
BLS-BH5-C-0'-1.5'	0' - 1.5'	01/27/2025	mg/kg	0.0653	0.5		0.11	J	0.214	1		9.81		0.357	2		25.3		0.326	0.5		18.0	
BLS-BH5-C-1.5'-3'	1.5' - 3'	01/27/2025	mg/kg	0.0653	0.5		0.0692	J	0.214	1		19.1	J	0.357	2		12.9		0.326	0.5		14.8	
BLS-BH6-C-0'-1.5'	0' - 1.5'	01/27/2025	mg/kg	0.0653	0.5		0.252	J	0.214	1		15.4		0.357	2		28.1		0.326	0.5		27.7	
BLS-BH6-C-1.5'-3'	1.5' - 3'	01/27/2025	mg/kg	0.0653	0.5		0.255	J	0.214	1		17.8		0.357	2		17.7		0.326	0.5		41.3	
BLS-BH15-C-0'-1.5'	0' - 1.5'	01/28/2025	mg/kg	0.0653	0.5		0.14	J	0.214	1		11.4		0.357	2		16.8		0.326	0.5		25.8	
BLS-BH15-C-1.5'-3'	1.5' - 3'	01/28/2025	mg/kg	0.0653	0.5	<	0.0653	U	0.214	1		19.5		0.357	2		13.2		0.326	0.5		14.3	

Notes:

Shaded areas identify constituents where the reporting limit and/or method detection limit exceed the shaded screening level.

**Bolded** values exceed the lowest SL for that analyte

Underlined values exceed the next lowest SL for that analyte

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Oregon DEQ Risk-Based Concentrations (RBCs) obtained from table of

Risk-Based Concentrations for Individual Chemicals (DEQ 2023) for

the Soil Ingestion, Dermal Contact, and Inhalation (RBCs) for

Residential, Occupational, Construction Worker and Excavation

Worker receptor scenarios

>Max = The constituent RBC for this pathway is calculated as greater than 1,000,000 mg/kg. Constituent is deemed not to pose risks in this scenario.

EPA RSL = EPA Regional Screening Level (EPA 2024) for the Residential Soil and Industrial Soil Pathways. \*\* Represents the Maximum Contaminant Level (MCL)-based Soil Screening Level (SSL).

- = not available

Oregon DEQ background values for Portland Basin (DEQ 2018).

\* = location of duplicate sample, higher concentration shown

U = not detected above the value shown

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Table 2. Subsurface Soil Composite Sampling Results for Metals

Sample ID	Sample Depth (feet bgs)	Sample Date	Units	Zinc					Mercury				
<b>Analytical Method</b>				USEPA 6010D					USEPA 7471B				
DEQ RBC - Residential DC				-					23				
DEQ RBC - Occupational - DC				-					350				
DEQ RBC - Construction Worker - DC				-					110				
DEQ RBC - Excavation Worker - DC				-					2,900				
EPA RSL - Residential Soil				23,000					7.1				
EPA RSL - Industrial Soil				350,000					30				
<b>DEQ Background Values for Portland Basin</b>				180					0.23				
				MDL	RDL	Res. Sig	Result	Qualifier	MDL	RDL	Res. Sig	Result	Qualifier
BLS-BH1-C-0'-1.5'	0' - 1.5'	01/27/2025	mg/kg	0.974	5		45.8		0.0206	0.04	<	0.0206	UJ
BLS-BH1-C-1.5'-3'	1.5' - 3'	01/27/2025	mg/kg	0.974	5		37.7		0.0206	0.04	<	0.0206	UJ
BLS-BH2-C-0'-1.5'	0' - 1.5'	01/27/2025	mg/kg	0.974	5		52.7		0.0206	0.04	<	0.0206	UJ
BLS-BH2-C-1.5'-3'	1.5' - 3'	01/27/2025	mg/kg	0.974	5		52.9		0.0206	0.04	<	0.0206	UJ
BLS-BH3-C-0'-1.5'	0' - 1.5'	01/27/2025	mg/kg	0.974	5		45.4		0.0206	0.04	<	0.0206	UJ
BLS-BH3-C-1.5'-3'	1.5' - 3'	01/27/2025	mg/kg	0.974	5		885	J	0.0206	0.04	<	0.293	J
BLS-BH5-C-0'-1.5'	0' - 1.5'	01/27/2025	mg/kg	0.974	5		105		0.0206	0.04	<	0.0206	UJ
BLS-BH5-C-1.5'-3'	1.5' - 3'	01/27/2025	mg/kg	0.974	5		70.3	J	0.0206	0.04	<	0.0206	UJ
BLS-BH6-C-0'-1.5'	0' - 1.5'	01/27/2025	mg/kg	0.974	5		108		0.0206	0.04	<	0.0206	UJ
BLS-BH6-C-1.5'-3'	1.5' - 3'	01/27/2025	mg/kg	0.974	5		140		0.0206	0.04	<	0.0206	UJ
BLS-BH15-C-0'-1.5'	0' - 1.5'	01/28/2025	mg/kg	0.974	5		111		0.0206	0.04	<	0.0206	UJ
BLS-BH15-C-1.5'-3'	1.5' - 3'	01/28/2025	mg/kg	0.974	5		51.9		0.0206	0.04	<	0.0206	UJ

Notes:

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Red values exceed the next lowest SL for that analyte

Oregon DEQ Risk-Based Concentrations (RBCs) obtained from table of

Risk-Based Concentrations for Individual Chemicals (DEQ 2023) for

the Soil Ingestion, Dermal Contact, and Inhalation (RBCs) for

Residential, Occupational, Construction Worker and Excavation

Worker receptor scenarios

>Max = The constituent RBC for this pathway is calculated as greater than 1,000,000 mg/kg. Constituent is deemed not to pose risks in this scenario.

EPA RSL = EPA Regional Screening Level (EPA 2024) for the Residential Soil and Industrial Soil Pathways. \*\* Represents the Maximum Contaminant Level (MCL)-based Soil Screening Level (SSL).

- = not available

Oregon DEQ background values for Portland Basin (DEQ 2018).

\* = location of duplicate sample, higher concentration shown

U = not detected above the value shown

UJ = estimated non-detect

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Table 3. Subsurface Soil Grab Sampling Results for VOCs

Sample ID	Sample Depth (feet bgs)	Sample Date	Units	benzene				toluene				ethylbenzene						
				MDL	RDL	Res. Sign	Result	Qualifier	MDL	RDL	Res. Sign	Result	Qualifier	MDL	RDL	Res. Sign	Result	Qualifier
<b>Analytical Method</b>				USEPA 8260D				USEPA 8260D				USEPA 8260D						
DEQ RBC - Residential DC				8.2				5,800				34						
DEQ RBC - Occupational - DC				37				88,000				150						
DEQ RBC - Construction Worker - DC				380				28,000				1,700						
DEQ RBC - Excavation Worker - DC				11,000				770,000				49,000						
EPA RSL - Residential Soil				1.2				4,900				5.8						
EPA RSL - Industrial Soil				5.1				47,000				25						
BLS-BH1-SG-3	3'	01/27/2025	mg/kg	0.000467	0.001	<	0.000467	U	0.0013	0.005	<	0.0016	J	0.000737	0.0025	<	0.000737	U
BLS-BH2-SG-3	3'	01/27/2025	mg/kg	0.000467	0.001	<	0.000467	U	0.0013	0.005	<	0.0013	U	0.000737	0.0025	<	0.000737	U
BLS-BH3-SG-3*	3'	01/27/2025	mg/kg	0.000514	0.0011	<	0.000514	U	0.00143	0.0055	<	0.00143	U	0.000811	0.00275	<	0.000811	U
BLS-BH4-SG-10	10'	01/27/2025	mg/kg	0.000467	0.001	<	0.000467	U	0.0013	0.005	<	0.0013	U	0.000737	0.0025	<	0.000737	U
BLS-BH5-SG-3	3'	01/27/2025	mg/kg	0.000467	0.001	<	0.000467	U	0.0013	0.005	<	0.0013	U	0.000737	0.0025	<	0.000737	U
BLS-BH6-SG-3	3'	01/27/2025	mg/kg	0.000467	0.001	<	0.000467	U	0.0013	0.005	<	0.0013	U	0.000737	0.0025	<	0.000737	U
BLS-BH7-SG-12	12'	01/27/2025	mg/kg	0.000467	0.001	<	0.000467	U	0.0013	0.005	<	0.0013	U	0.000737	0.0025	<	0.000892	J
BLS-BH8-SG-10	10'	01/28/2025	mg/kg	0.0187	0.04	<	0.0187	U	0.052	0.2	<	0.052	U	0.0295	0.1	<	37.8	
BLS-BH9-SG-10	10'	01/28/2025	mg/kg	0.000467	0.001	<	0.000467	U	0.0013	0.005	<	0.0013	U	0.000737	0.0025	<	0.000737	U
BLS-BH10-SG-13	13'	01/28/2025	mg/kg	0.000467	0.001	<	0.000467	U	0.0013	0.005	<	0.0013	U	0.000737	0.0025	<	0.000737	U
BLS-BH11-SG-10	10'	01/28/2025	mg/kg	0.000467	0.001	<	0.0542		0.0013	0.005	<	0.00448	J	0.000737	0.0025	<	0.769	
BLS-BH12-SG-10	10'	01/28/2025	mg/kg	0.00374	0.008	<	0.00374	U	0.0104	0.04	<	0.0104	U	0.0059	0.02	<	0.953	
BLS-BH13-SG-13	13'	01/28/2025	mg/kg	0.00934	0.02	<	0.0861		0.026	0.1	<	1.13		0.0147	0.05	<	28	
BLS-BH14-SG-12	12'	01/28/2025	mg/kg	0.00374	0.008	<	0.00374	U	0.0104	0.04	<	0.0104	U	0.0059	0.02	<	0.739	
BLS-BH15-SG-3	3'	01/28/2025	mg/kg	0.000467	0.001	<	0.000467	U	0.0013	0.005	<	0.0013	U	0.000737	0.0025	<	0.000737	U
BLS-BH16-SG-14	14'	01/29/2025	mg/kg	0.000467	0.001	<	0.000467	U	0.0013	0.005	<	0.0013	U	0.000737	0.0025	<	0.000737	U
BLS-MW-5-SG-12	12'	01/29/2025	mg/kg	0.000467	0.001	<	0.000467	U	0.0013	0.005	<	0.0013	U	0.000737	0.0025	<	0.00152	J
BLS-MW-6-SG-11	11'	01/29/2025	mg/kg	0.00467	0.01	<	0.00756	J	0.013	0.05	<	0.013	U	0.00737	0.025	<	16	

Notes:  
 Shaded areas identify constituents where the reporting limit and/or method detection limit exceed the shaded screening level.  
**Bolded** values exceed the lowest SL for that analyte  
Underlined values exceed the next lowest SL for that analyte  
 VOC = volatile organic compound  
 Oregon DEQ Risk-Based Concentrations (RBCs) obtained from table of Risk-Based Concentrations for Individual Chemicals (DEQ 2023) for the Soil Ingestion, Dermal Contact, and Inhalation (RBCs) for Residential, Occupational, Construction Worker and Excavation Worker receptor scenarios  
 EPA RSL = EPA Regional Screening Level (EPA 2024) for the Residential Soil and Industrial Soil Pathways. \*\* Represents the Maximum Contaminant Level (MCL)-based Soil Screening Level (SSL).  
 - = not available  
 \* = location of duplicate sample, higher concentration shown  
 Samples taken less than 3 feet below ground surface (bgs) are screened against residential and occupational RBCs  
 Samples taken from 0-15 feet below ground surface (bgs) were screened against construction and excavation worker RBCs.  
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 UJ = estimated non-detect  
 J = result is an estimate

Table 3. Subsurface Soil Grab Sampling Results for VOCs

Sample ID	Sample Depth (feet bgs)	Sample Date	Units	total xylenes				naphthalene				iso-propylbenzene						
Analytical Method				USEPA 8260D				USEPA 8260D				USEPA 8260D						
DEQ RBC - Residential DC				1,400				5.3				3,500						
DEQ RBC - Occupational - DC				25,000				23				57,000						
DEQ RBC - Construction Worker - DC				20,000				580				27,000						
DEQ RBC - Excavation Worker - DC				560,000				16,000				750,000						
EPA RSL - Residential Soil				580				2				1,900						
EPA RSL - Industrial Soil				2,500				8.6				9,900						
				MDL	RDL	Res. Sign	Result	Qualifier	MDL	RDL	Res. Sign	Result	Qualifier	MDL	RDL	Res. Sign	Result	Qualifier
BLS-BH1-SG-3	3'	01/27/2025	mg/kg	0.00088	0.0065		0.00363	J	0.00488	0.0125	<	0.00488	UJ	0.000425	0.0025	<	0.000425	U
BLS-BH2-SG-3	3'	01/27/2025	mg/kg	0.00088	0.0065	<	0.00088	U	0.00488	0.0125	<	0.00488	UJ	0.000425	0.0025	<	0.000425	U
BLS-BH3-SG-3*	3'	01/27/2025	mg/kg	0.000968	0.00715	<	0.000968	U	0.00537	0.0138	<	0.00537	UJ	0.000468	0.00275	<	0.000468	U
BLS-BH4-SG-10	10'	01/27/2025	mg/kg	0.00088	0.0065	<	0.00088	U	0.00488	0.0125	<	0.00488	UJ	0.000425	0.0025	<	0.000425	U
BLS-BH5-SG-3	3'	01/27/2025	mg/kg	0.00088	0.0065	<	0.00088	U	0.00488	0.0125	<	0.00488	UJ	0.000425	0.0025	<	0.000425	U
BLS-BH6-SG-3	3'	01/27/2025	mg/kg	0.00088	0.0065	<	0.00088	U	0.00488	0.0125	<	0.00488	UJ	0.000425	0.0025	<	0.000425	U
BLS-BH7-SG-12	12'	01/27/2025	mg/kg	0.00088	0.0065	<	0.00088	U	0.00488	0.0125	<	0.00488	UJ	0.000425	0.0025	<	0.00964	
BLS-BH8-SG-10	10'	01/28/2025	mg/kg	0.0352	0.26		1.82		0.195	0.5		27.3	J	0.017	0.1		11.4	
BLS-BH9-SG-10	10'	01/28/2025	mg/kg	0.00088	0.0065	<	0.00088	U	0.00488	0.0125	<	0.00488	UJ	0.000425	0.0025	<	0.000425	U
BLS-BH10-SG-13	13'	01/28/2025	mg/kg	0.00088	0.0065	<	0.00088	U	0.00488	0.0125	<	0.00488	UJ	0.000425	0.0025	<	0.000425	U
BLS-BH11-SG-10	10'	01/28/2025	mg/kg	0.00088	0.0065		0.00203	J	0.00488	0.0125		0.603	J	0.000425	0.0025		0.268	
BLS-BH12-SG-10	10'	01/28/2025	mg/kg	0.00704	0.052		0.0255	J	0.039	0.1		0.243		0.0034	0.02		3.23	
BLS-BH13-SG-13	13'	01/28/2025	mg/kg	0.0176	0.13		84.8		0.0976	0.25		9.06	J	0.0085	0.05		3.11	
BLS-BH14-SG-12	12'	01/28/2025	mg/kg	0.00704	0.052		0.186		0.039	0.1		0.21		0.0034	0.02		0.465	
BLS-BH15-SG-3	3'	01/28/2025	mg/kg	0.00088	0.0065		0.00119	J	0.00488	0.0125	<	0.00488	U	0.000425	0.0025	<	0.000425	U
BLS-BH16-SG-14	14'	01/29/2025	mg/kg	0.00088	0.0065	<	0.00088	U	0.00488	0.0125	<	0.00488	UJ	0.000425	0.0025	<	0.000425	U
BLS-MW-5-SG-12	12'	01/29/2025	mg/kg	0.00088	0.0065		0.00096	J	0.00488	0.0125	<	0.00488	UJ	0.000425	0.0025		0.009	
BLS-MW-6-SG-11	11'	01/29/2025	mg/kg	0.0088	0.065		6.00		0.0488	0.125		3.46		0.00425	0.025		1.21	

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 UJ = estimated non-detect  
 J = result is an estimate

Table 3. Subsurface Soil Grab Sampling Results for VOCs

Sample ID	Sample Depth (feet bgs)	Sample Date	Units	n-propylbenzene				1,2,4-trimethylbenzene				1,3,5-trimethylbenzene						
Analytical Method				USEPA 8260D				USEPA 8260D				USEPA 8260D						
DEQ RBC - Residential DC				-				430				430						
DEQ RBC - Occupational - DC				-				6,900				6,900						
DEQ RBC - Construction Worker - DC				-				2,900				2,900						
DEQ RBC - Excavation Worker - DC				-				81,000				81,000						
EPA RSL - Residential Soil				3,800				300				270						
EPA RSL - Industrial Soil				24,000				1,800				1,500						
				MDL	RDL	Res. Sign	Result	Qualifier	MDL	RDL	Res. Sign	Result	Qualifier	MDL	RDL	Res. Sign	Result	Qualifier
BLS-BH1-SG-3	3'	01/27/2025	mg/kg	0.00095	0.005	<	0.00095	U	0.00158	0.005	<	0.00158	U	0.002	0.005	<	0.002	U
BLS-BH2-SG-3	3'	01/27/2025	mg/kg	0.00095	0.005	<	0.00095	U	0.00158	0.005	<	0.00158	U	0.002	0.005	<	0.002	U
BLS-BH3-SG-3*	3'	01/27/2025	mg/kg	0.00105	0.0055	<	0.00105	U	0.00174	0.0055	<	0.00174	U	0.0022	0.0055	<	0.0022	U
BLS-BH4-SG-10	10'	01/27/2025	mg/kg	0.00095	0.005	<	0.00095	U	0.00158	0.005	<	0.00158	U	0.002	0.005	<	0.002	U
BLS-BH5-SG-3	3'	01/27/2025	mg/kg	0.00095	0.005	<	0.00095	U	0.00158	0.005	<	0.00158	U	0.002	0.005	<	0.002	U
BLS-BH6-SG-3	3'	01/27/2025	mg/kg	0.00095	0.005	<	0.00095	U	0.00158	0.005	<	0.00158	U	0.002	0.005	<	0.002	U
BLS-BH7-SG-12	12'	01/27/2025	mg/kg	0.00095	0.005		0.0192		0.00158	0.005	<	0.00158	U	0.002	0.005	<	0.002	U
BLS-BH8-SG-10	10'	01/28/2025	mg/kg	0.038	0.2		47.1		0.0632	0.2		3.92		0.08	0.2		11.6	
BLS-BH9-SG-10	10'	01/28/2025	mg/kg	0.00095	0.005	<	0.00095	U	0.00158	0.005	<	0.00158	U	0.002	0.005	<	0.002	U
BLS-BH10-SG-13	13'	01/28/2025	mg/kg	0.00095	0.005	<	0.00095	U	0.00158	0.005	<	0.00158	U	0.002	0.005	<	0.002	U
BLS-BH11-SG-10	10'	01/28/2025	mg/kg	0.00095	0.005		1.61		0.00158	0.005	<	0.0167		0.002	0.005		0.0287	
BLS-BH12-SG-10	10'	01/28/2025	mg/kg	0.0076	0.04		12.2		0.0126	0.04	<	0.0126	U	0.016	0.04		0.0259	J
BLS-BH13-SG-13	13'	01/28/2025	mg/kg	0.019	0.1		10.5		0.632	2		306		0.04	0.1		16.7	
BLS-BH14-SG-12	12'	01/28/2025	mg/kg	0.0076	0.04		1.71		0.0126	0.04		0.133		0.016	0.04		0.0946	
BLS-BH15-SG-3	3'	01/28/2025	mg/kg	0.00095	0.005		0.000968	J	0.00158	0.005		0.00166	J	0.002	0.005	<	0.002	U
BLS-BH16-SG-14	14'	01/29/2025	mg/kg	0.00095	0.005	<	0.00095	U	0.00158	0.005	<	0.00158	U	0.002	0.005	<	0.002	U
BLS-MW-5-SG-12	12'	01/29/2025	mg/kg	0.00095	0.005		0.0173		0.00158	0.005	<	0.00158	U	0.002	0.005	<	0.002	U
BLS-MW-6-SG-11	11'	01/29/2025	mg/kg	0.0095	0.05		4.96		0.0632	0.2		17.7		0.02	0.05		3.38	

Notes:  
 Shaded areas identify constituents where the reporting limit and/or method detection limit exceed the shaded screening level.  
**Bolded** values exceed the lowest SL for that analyte  
Underlined values exceed the next lowest SL for that analyte  
 VOC = volatile organic compound  
 Oregon DEQ Risk-Based Concentrations (RBCs) obtained from table of Risk-Based Concentrations for Individual Chemicals (DEQ 2023) for the Soil Ingestion, Dermal Contact, and Inhalation (RBCs) for Residential, Occupational, Construction Worker and Excavation Worker receptor scenarios  
 EPA RSL = EPA Regional Screening Level (EPA 2024) for the Residential Soil and Industrial Soil Pathways. \*\* Represents the Maximum Contaminant Level (MCL)-based Soil Screening Level (SSL).  
 - = not available  
 \* = location of duplicate sample, higher concentration shown  
 Samples taken less than 3 feet below ground surface (bgs) are screened against residential and occupational RBCs  
 Samples taken from 0-15 feet below ground surface (bgs) were screened against construction and excavation worker RBCs.  
 U = not detected above the value shown  
 UJ = estimated non-detect  
 J = result is an estimate

Table 3. Subsurface Soil Grab Sampling Results for VOCs

Sample ID	Sample Depth (feet bgs)	Sample Date	Units	MTBE (methyl tert-butyl ether)				EDC (1,2-dichloroethane)				EDB (ethylene dibromide)						
				MDL	RDL	Res. Sign	Result	Qualifier	MDL	RDL	Res. Sign	Result	Qualifier	MDL	RDL	Res. Sign	Result	Qualifier
<b>Analytical Method</b>				USEPA 8260D				USEPA 8260D				USEPA 8260D						
DEQ RBC - Residential DC				250				3.6				0.16						
DEQ RBC - Occupational - DC				1100				16				0.73						
DEQ RBC - Construction Worker - DC				12000				200				9						
DEQ RBC - Excavation Worker - DC				320000				5,600				250						
EPA RSL - Residential Soil				47				0.46				0.036						
EPA RSL - Industrial Soil				210				2				0.16						
BLS-BH1-SG-3	3'	01/27/2025	mg/kg	0.00035	0.001	<	0.00035	U	0.000649	0.0025	<	0.000649	U	0.000648	0.0025	<	0.000648	U
BLS-BH2-SG-3	3'	01/27/2025	mg/kg	0.00035	0.001	<	0.00035	U	0.000649	0.0025	<	0.000649	U	0.000648	0.0025	<	0.000648	U
BLS-BH3-SG-3*	3'	01/27/2025	mg/kg	0.000385	0.0011	<	0.000385	U	0.000714	0.00275	<	0.000714	U	0.000713	0.00275	<	0.000713	U
BLS-BH4-SG-10	10'	01/27/2025	mg/kg	0.00035	0.001	<	0.00035	U	0.000649	0.0025	<	0.000649	U	0.000648	0.0025	<	0.000648	U
BLS-BH5-SG-3	3'	01/27/2025	mg/kg	0.00035	0.001	<	0.00035	U	0.000649	0.0025	<	0.000649	U	0.000648	0.0025	<	0.000648	U
BLS-BH6-SG-3	3'	01/27/2025	mg/kg	0.00035	0.001	<	0.00035	U	0.000649	0.0025	<	0.000649	U	0.000648	0.0025	<	0.000648	U
BLS-BH7-SG-12	12'	01/27/2025	mg/kg	0.00035	0.001	<	0.00035	U	0.000649	0.0025	<	0.000649	U	0.000648	0.0025	<	0.000648	U
BLS-BH8-SG-10	10'	01/28/2025	mg/kg	0.014	0.04	<	0.014	U	0.026	0.1	<	0.026	U	0.0259	0.1	<	0.0259	U
BLS-BH9-SG-10	10'	01/28/2025	mg/kg	0.00035	0.001	<	0.00035	U	0.000649	0.0025	<	0.000649	U	0.000648	0.0025	<	0.000648	U
BLS-BH10-SG-13	13'	01/28/2025	mg/kg	0.00035	0.001	<	0.00035	U	0.000649	0.0025	<	0.000649	U	0.000648	0.0025	<	0.000648	U
BLS-BH11-SG-10	10'	01/28/2025	mg/kg	0.00035	0.001	<	0.00035	U	0.000649	0.0025	<	0.000649	U	0.000648	0.0025	<	0.000648	U
BLS-BH12-SG-10	10'	01/28/2025	mg/kg	0.0028	0.008	<	0.0028	U	0.00519	0.02	<	0.00519	U	0.00518	0.02	<	0.00518	U
BLS-BH13-SG-13	13'	01/28/2025	mg/kg	0.007	0.02	<	0.007	U	0.013	0.05	<	0.013	U	0.013	0.05	<	0.013	U
BLS-BH14-SG-12	12'	01/28/2025	mg/kg	0.0028	0.008	<	0.0028	U	0.00519	0.02	<	0.00519	U	0.00518	0.02	<	0.00518	U
BLS-BH15-SG-3	3'	01/28/2025	mg/kg	0.00035	0.001	<	0.00035	U	0.000649	0.0025	<	0.000649	U	0.000648	0.0025	<	0.000648	U
BLS-BH16-SG-14	14'	01/29/2025	mg/kg	0.00035	0.001	<	0.00035	U	0.000649	0.0025	<	0.000649	U	0.000648	0.0025	<	0.000648	U
BLS-MW-5-SG-12	12'	01/29/2025	mg/kg	0.00035	0.001	<	0.00035	U	0.000649	0.0025	<	0.000649	U	0.000648	0.0025	<	0.000648	U
BLS-MW-6-SG-11	11'	01/29/2025	mg/kg	0.0035	0.01	<	0.0035	U	0.00649	0.025	<	0.00649	U	0.00648	0.025	<	0.00648	U

Notes:  
 Shaded areas identify constituents where the reporting limit and/or method detection limit exceed the shaded screening level.  
**Bolded** values exceed the lowest SL for that analyte  
Underlined values exceed the next lowest SL for that analyte  
 VOC = volatile organic compound  
 Oregon DEQ Risk-Based Concentrations (RBCs) obtained from table of Risk-Based Concentrations for Individual Chemicals (DEQ 2023) for the Soil Ingestion, Dermal Contact, and Inhalation (RBCs) for Residential, Occupational, Construction Worker and Excavation Worker receptor scenarios  
 EPA RSL = EPA Regional Screening Level (EPA 2024) for the Residential Soil and Industrial Soil Pathways. \*\* Represents the Maximum Contaminant Level (MCL)-based Soil Screening Level (SSL).  
 - = not available  
 \* = location of duplicate sample, higher concentration shown  
 Samples taken less than 3 feet below ground surface (bgs) are screened against residential and occupational RBCs  
 Samples taken from 0-15 feet below ground surface (bgs) were screened against construction and excavation worker RBCs.  
 U = not detected above the value shown  
 UJ = estimated non-detect  
 J = result is an estimate

Table 4. Subsurface Soil Grab Sampling Results for PAHs

Sample ID	Sample Depth (feet bgs)	Sample Date	Units	acenaphthene					anthracene				
<b>Analytical Method</b>				USEPA 8270C-SIM					USEPA 8270C-SIM				
<b>DEQ RBC - Residential DC</b>				4,700					23,000				
<b>DEQ RBC - Occupational - DC</b>				70,000					350,000				
<b>DEQ RBC - Construction Worker - DC</b>				21,000					110,000				
<b>DEQ RBC - Excavation Worker - DC</b>				590,000					>Max				
<b>EPA RSL - Residential Soil</b>				3,600					18,000				
<b>EPA RSL - Industrial Soil</b>				45,000					230,000				
				MDL	RDL	Res. Sign	Result	Qualifier	MDL	RDL	Res. Sign	Result	Qualifier
BLS-BH1-SG-3	3'	01/27/2025	mg/kg	0.00209	0.006	<	0.00209	U	0.0023	0.006	<	0.0023	U
BLS-BH2-SG-3	3'	01/27/2025	mg/kg	0.00209	0.006	<	0.00209	U	0.0023	0.006	<	0.0023	U
BLS-BH3-SG-3*	3'	01/27/2025	mg/kg	0.00209	0.006	<	0.00209	U	0.0023	0.006	<	0.0023	U
BLS-BH4-SG-10	10'	01/27/2025	mg/kg	0.00209	0.006	<	0.00209	U	0.0023	0.006	<	0.0023	U
BLS-BH5-SG-3	3'	01/27/2025	mg/kg	0.00209	0.006	<	0.00209	U	0.0023	0.006	<	0.0023	U
BLS-BH6-SG-3	3'	01/27/2025	mg/kg	0.00209	0.006	<	0.00209	U	0.0023	0.006	<	0.0023	U
BLS-BH7-SG-12	12'	01/27/2025	mg/kg	0.00209	0.006		0.00429	J	0.0023	0.006	<	0.0023	U
BLS-BH8-SG-10	10'	01/28/2025	mg/kg	0.00209	0.006		0.00653		0.0023	0.006	<	0.0023	U
BLS-BH9-SG-10	10'	01/28/2025	mg/kg	0.00209	0.006	<	0.00209	U	0.0023	0.006	<	0.0023	U
BLS-BH10-SG-13	13'	01/28/2025	mg/kg	0.00209	0.006	<	0.00209	U	0.0023	0.006	<	0.0023	U
BLS-BH11-SG-10	10'	01/28/2025	mg/kg	0.00209	0.006		0.0130		0.0023	0.006	<	0.0023	U
BLS-BH12-SG-10	10'	01/28/2025	mg/kg	0.00209	0.006	<	0.00209	U	0.0023	0.006	<	0.0023	U
BLS-BH13-SG-13	13'	01/28/2025	mg/kg	0.00209	0.006		0.0133		0.0023	0.006	<	0.0023	U
BLS-BH14-SG-12	12'	01/28/2025	mg/kg	0.00209	0.006		0.0150		0.0023	0.006	<	0.0023	U
BLS-BH15-SG-3	3'	01/28/2025	mg/kg	0.00209	0.006	<	0.00209	U	0.0023	0.006	<	0.0023	U
BLS-BH16-SG-14	14'	01/29/2025	mg/kg	0.00209	0.006	<	0.00209	U	0.0023	0.006	<	0.0023	U
BLS-MW-5-SG-12	12'	01/29/2025	mg/kg	0.00209	0.006	<	0.00209	U	0.0023	0.006	<	0.0023	U
BLS-MW-6-SG-11	11'	01/29/2025	mg/kg	0.00209	0.006	<	0.00209	U	0.0023	0.006	<	0.0023	U

Notes:

**Bolded** values exceed the lowest SL for that analyte

PAH = polycyclic aromatic hydrocarbon

Oregon DEQ Risk-Based Concentrations (RBCs) obtained from table of Risk-Based Concentrations for Individual Chemicals (DEQ 2023) for the Soil Ingestion, Dermal Contact, and Inhalation (RBCss) for Residential, Occupational, Construction Worker and Excavation Worker receptor scenarios

>Max = The constituent RBC for this pathway is calculated as greater than 1,000,000 mg/kg. Constituent is deemed not to pose risks in this scenario.

EPA RSL = EPA Regional Screening Level (EPA 2024) for the Residential Soil and Industrial Soil Pathways. \*\* Represents the Maximum Contaminant Level (MCL)-based Soil Screening Level (SSL).

\* = location of duplicate sample, higher concentration shown

U = not detected above the value shown

J = result is an estimate

J- = result is an estimate, biased low

Table 4. Subsurface Soil Grab Sampling Results for PAHs

Sample ID	Sample Depth (feet bgs)	Sample Date	Units	benzo(a)anthracene					benzo(a)pyrene				
<b>Analytical Method</b>				USEPA 8270C-SIM					USEPA 8270C-SIM				
<b>DEQ RBC - Residential DC</b>				1.1					0.11				
<b>DEQ RBC - Occupational - DC</b>				2.5					2.1				
<b>DEQ RBC - Construction Worker - DC</b>				170					17				
<b>DEQ RBC - Excavation Worker - DC</b>				4,800					490				
<b>EPA RSL - Residential Soil</b>				1.1					0.11				
<b>EPA RSL - Industrial Soil</b>				21					2.1				
				MDL	RDL	Res. Sign	Result	Qualifier	MDL	RDL	Res. Sign	Result	Qualifier
BLS-BH1-SG-3	3'	01/27/2025	mg/kg	0.00173	0.006	<	0.00173	U	0.00179	0.006	<	0.00179	U
BLS-BH2-SG-3	3'	01/27/2025	mg/kg	0.00173	0.006	<	0.00276	J	0.00179	0.006	<	0.00366	J
BLS-BH3-SG-3*	3'	01/27/2025	mg/kg	0.00173	0.006	<	0.00173	U	0.00179	0.006	<	0.00179	U
BLS-BH4-SG-10	10'	01/27/2025	mg/kg	0.00173	0.006	<	0.00173	U	0.00179	0.006	<	0.00179	U
BLS-BH5-SG-3	3'	01/27/2025	mg/kg	0.00173	0.006	<	0.00173	U	0.00179	0.006	<	0.00179	U
BLS-BH6-SG-3	3'	01/27/2025	mg/kg	0.00173	0.006	<	0.00173	U	0.00179	0.006	<	0.00179	U
BLS-BH7-SG-12	12'	01/27/2025	mg/kg	0.00173	0.006	<	0.00173	U	0.00179	0.006	<	0.00179	U
BLS-BH8-SG-10	10'	01/28/2025	mg/kg	0.00173	0.006	<	0.00173	U	0.00179	0.006	<	0.00179	U
BLS-BH9-SG-10	10'	01/28/2025	mg/kg	0.00173	0.006	<	0.00173	U	0.00179	0.006	<	0.00179	U
BLS-BH10-SG-13	13'	01/28/2025	mg/kg	0.00173	0.006	<	0.00173	U	0.00179	0.006	<	0.00179	U
BLS-BH11-SG-10	10'	01/28/2025	mg/kg	0.00173	0.006	<	0.00173	U	0.00179	0.006	<	0.00179	U
BLS-BH12-SG-10	10'	01/28/2025	mg/kg	0.00173	0.006	<	0.00173	U	0.00179	0.006	<	0.00179	U
BLS-BH13-SG-13	13'	01/28/2025	mg/kg	0.00173	0.006		0.00271	J	0.00179	0.006	<	0.00179	U
BLS-BH14-SG-12	12'	01/28/2025	mg/kg	0.00173	0.006		0.0026	J	0.00179	0.006	<	0.00179	U
BLS-BH15-SG-3	3'	01/28/2025	mg/kg	0.00173	0.006	<	0.00173	U	0.00179	0.006	<	0.00179	U
BLS-BH16-SG-14	14'	01/29/2025	mg/kg	0.00173	0.006	<	0.00173	U	0.00179	0.006	<	0.00179	U
BLS-MW-5-SG-12	12'	01/29/2025	mg/kg	0.00173	0.006	<	0.00173	U	0.00179	0.006	<	0.00179	U
BLS-MW-6-SG-11	11'	01/29/2025	mg/kg	0.00173	0.006	<	0.00173	U	0.00179	0.006	<	0.00179	U

Notes:

**Bolded** values exceed the lowest SL for that analyte

PAH = polycyclic aromatic hydrocarbon

Oregon DEQ Risk-Based Concentrations (RBCs) obtained from table of Risk-Based Concentrations for Individual Chemicals (DEQ 2023) for the Soil Ingestion, Dermal Contact, and Inhalation (RBCss) for Residential, Occupational, Construction Worker and Excavation Worker receptor scenarios

>Max = The constituent RBC for this pathway is calculated as greater than 1,000,000 mg/kg. Constituent is deemed not to pose risks in this scenario.

EPA RSL = EPA Regional Screening Level (EPA 2024) for the Residential Soil and Industrial Soil Pathways. \*\* Represents the Maximum Contaminant Level (MCL)-based Soil Screening Level (SSL).

\* = location of duplicate sample, higher concentration shown

U = not detected above the value shown

J = result is an estimate

J- = result is an estimate, biased low

Table 4. Subsurface Soil Grab Sampling Results for PAHs

Sample ID	Sample Depth (feet bgs)	Sample Date	Units	benzo(b)fluoranthene					benzo(k)fluoranthene				
<b>Analytical Method</b>				USEPA 8270C-SIM					USEPA 8270C-SIM				
<b>DEQ RBC - Residential DC</b>				1.1					11				
<b>DEQ RBC - Occupational - DC</b>				21					210				
<b>DEQ RBC - Construction Worker - DC</b>				170					1,700				
<b>DEQ RBC - Excavation Worker - DC</b>				4,900					49,000				
<b>EPA RSL - Residential Soil</b>				1.1					11				
<b>EPA RSL - Industrial Soil</b>				21					210				
				MDL	RDL	Res. Sign	Result	Qualifier	MDL	RDL	Res. Sign	Result	Qualifier
BLS-BH1-SG-3	3'	01/27/2025	mg/kg	0.00153	0.006	<	0.00153	U	0.00215	0.006	<	0.00215	U
BLS-BH2-SG-3	3'	01/27/2025	mg/kg	0.00153	0.006	<	0.00738		0.00215	0.006	<	0.00215	U
BLS-BH3-SG-3*	3'	01/27/2025	mg/kg	0.00153	0.006	<	0.00153	U	0.00215	0.006	<	0.00215	U
BLS-BH4-SG-10	10'	01/27/2025	mg/kg	0.00153	0.006	<	0.00153	U	0.00215	0.006	<	0.00215	U
BLS-BH5-SG-3	3'	01/27/2025	mg/kg	0.00153	0.006	<	0.00153	U	0.00215	0.006	<	0.00215	U
BLS-BH6-SG-3	3'	01/27/2025	mg/kg	0.00153	0.006	<	0.00153	U	0.00215	0.006	<	0.00215	U
BLS-BH7-SG-12	12'	01/27/2025	mg/kg	0.00153	0.006	<	0.00153	U	0.00215	0.006	<	0.00215	U
BLS-BH8-SG-10	10'	01/28/2025	mg/kg	0.00153	0.006	<	0.00153	U	0.00215	0.006	<	0.00215	U
BLS-BH9-SG-10	10'	01/28/2025	mg/kg	0.00153	0.006	<	0.00153	U	0.00215	0.006	<	0.00215	U
BLS-BH10-SG-13	13'	01/28/2025	mg/kg	0.00153	0.006	<	0.00153	U	0.00215	0.006	<	0.00215	U
BLS-BH11-SG-10	10'	01/28/2025	mg/kg	0.00153	0.006	<	0.00153	U	0.00215	0.006	<	0.00215	U
BLS-BH12-SG-10	10'	01/28/2025	mg/kg	0.00153	0.006	<	0.00153	U	0.00215	0.006	<	0.00215	U
BLS-BH13-SG-13	13'	01/28/2025	mg/kg	0.00153	0.006	<	0.00153	U	0.00215	0.006	<	0.00215	U
BLS-BH14-SG-12	12'	01/28/2025	mg/kg	0.00153	0.006	<	0.00153	U	0.00215	0.006	<	0.00215	U
BLS-BH15-SG-3	3'	01/28/2025	mg/kg	0.00153	0.006	<	0.00153	U	0.00215	0.006	<	0.00215	U
BLS-BH16-SG-14	14'	01/29/2025	mg/kg	0.00153	0.006	<	0.00153	U	0.00215	0.006	<	0.00215	U
BLS-MW-5-SG-12	12'	01/29/2025	mg/kg	0.00153	0.006	<	0.00153	U	0.00215	0.006	<	0.00215	U
BLS-MW-6-SG-11	11'	01/29/2025	mg/kg	0.00153	0.006	<	0.00153	U	0.00215	0.006	<	0.00215	U

Notes:

**Bolded** values exceed the lowest SL for that analyte

PAH = polycyclic aromatic hydrocarbon

Oregon DEQ Risk-Based Concentrations (RBCs) obtained from table of Risk-Based Concentrations for Individual Chemicals (DEQ 2023) for the Soil Ingestion, Dermal Contact, and Inhalation (RBCss) for Residential, Occupational, Construction Worker and Excavation Worker receptor scenarios

>Max = The constituent RBC for this pathway is calculated as greater than 1,000,000 mg/kg. Constituent is deemed not to pose risks in this scenario.

EPA RSL = EPA Regional Screening Level (EPA 2024) for the Residential Soil and Industrial Soil Pathways. \*\* Represents the Maximum Contaminant Level (MCL)-based Soil Screening Level (SSL).

\* = location of duplicate sample, higher concentration shown

U = not detected above the value shown

J = result is an estimate

J- = result is an estimate, biased low

Table 4. Subsurface Soil Grab Sampling Results for PAHs

Sample ID	Sample Depth (feet bgs)	Sample Date	Units	chrysene						dibenz(a,h)anthracene				
<b>Analytical Method</b>				USEPA 8270C-SIM						USEPA 8270C-SIM				
<b>DEQ RBC - Residential DC</b>				110						0.11				
<b>DEQ RBC - Occupational - DC</b>				2,100						2.1				
<b>DEQ RBC - Construction Worker - DC</b>				17,000						17				
<b>DEQ RBC - Excavation Worker - DC</b>				490,000						490				
<b>EPA RSL - Residential Soil</b>				110						0.11				
<b>EPA RSL - Industrial Soil</b>				2,100						2.1				
				MDL	RDL	Res. Sign	Result	Qualifier	MDL	RDL	Res. Sign	Result	Qualifier	
BLS-BH1-SG-3	3'	01/27/2025	mg/kg	0.00232	0.006	<	0.00232	U	0.00172	0.006	<	0.00172	U	
BLS-BH2-SG-3	3'	01/27/2025	mg/kg	0.00232	0.006	<	0.00749		0.00172	0.006	<	0.00184	J	
BLS-BH3-SG-3*	3'	01/27/2025	mg/kg	0.00232	0.006	<	0.00232	U	0.00172	0.006	<	0.00172	U	
BLS-BH4-SG-10	10'	01/27/2025	mg/kg	0.00232	0.006	<	0.00232	U	0.00172	0.006	<	0.00172	U	
BLS-BH5-SG-3	3'	01/27/2025	mg/kg	0.00232	0.006	<	0.00232	U	0.00172	0.006	<	0.00172	U	
BLS-BH6-SG-3	3'	01/27/2025	mg/kg	0.00232	0.006	<	0.00232	U	0.00172	0.006	<	0.00172	U	
BLS-BH7-SG-12	12'	01/27/2025	mg/kg	0.00232	0.006	<	0.00232	U	0.00172	0.006	<	0.00172	U	
BLS-BH8-SG-10	10'	01/28/2025	mg/kg	0.00232	0.006	<	0.00232	U	0.00172	0.006	<	0.00172	U	
BLS-BH9-SG-10	10'	01/28/2025	mg/kg	0.00232	0.006	<	0.00232	U	0.00172	0.006	<	0.00172	U	
BLS-BH10-SG-13	13'	01/28/2025	mg/kg	0.00232	0.006	<	0.00232	U	0.00172	0.006	<	0.00172	U	
BLS-BH11-SG-10	10'	01/28/2025	mg/kg	0.00232	0.006	<	0.00232	U	0.00172	0.006	<	0.00172	U	
BLS-BH12-SG-10	10'	01/28/2025	mg/kg	0.00232	0.006	<	0.00232	U	0.00172	0.006	<	0.00172	U	
BLS-BH13-SG-13	13'	01/28/2025	mg/kg	0.00232	0.006	<	0.00232	U	0.00172	0.006	<	0.00172	U	
BLS-BH14-SG-12	12'	01/28/2025	mg/kg	0.00232	0.006	<	0.00232	U	0.00172	0.006	<	0.00172	U	
BLS-BH15-SG-3	3'	01/28/2025	mg/kg	0.00232	0.006	<	0.00232	U	0.00172	0.006	<	0.00172	U	
BLS-BH16-SG-14	14'	01/29/2025	mg/kg	0.00232	0.006	<	0.00232	U	0.00172	0.006	<	0.00172	U	
BLS-MW-5-SG-12	12'	01/29/2025	mg/kg	0.00232	0.006	<	0.00232	U	0.00172	0.006	<	0.00172	U	
BLS-MW-6-SG-11	11'	01/29/2025	mg/kg	0.00232	0.006	<	0.00232	U	0.00172	0.006	<	0.00172	U	

Notes:

**Bolded** values exceed the lowest SL for that analyte

PAH = polycyclic aromatic hydrocarbon

Oregon DEQ Risk-Based Concentrations (RBCs) obtained from table of Risk-Based Concentrations for Individual Chemicals (DEQ 2023) for the Soil Ingestion, Dermal Contact, and Inhalation (RBCss) for Residential, Occupational, Construction Worker and Excavation Worker receptor scenarios

>Max = The constituent RBC for this pathway is calculated as greater than 1,000,000 mg/kg. Constituent is deemed not to pose risks in this scenario.

EPA RSL = EPA Regional Screening Level (EPA 2024) for the Residential Soil and Industrial Soil Pathways. \*\* Represents the Maximum Contaminant Level (MCL)-based Soil Screening Level (SSL).

\* = location of duplicate sample, higher concentration shown

U = not detected above the value shown

J = result is an estimate

J- = result is an estimate, biased low

Table 4. Subsurface Soil Grab Sampling Results for PAHs

Sample ID	Sample Depth (feet bgs)	Sample Date	Units	fluoranthene					fluorene				
<b>Analytical Method</b>				USEPA 8270C-SIM					USEPA 8270C-SIM				
<b>DEQ RBC - Residential DC</b>				2,400					3,100				
<b>DEQ RBC - Occupational - DC</b>				30,000					47,000				
<b>DEQ RBC - Construction Worker - DC</b>				10,000					14,000				
<b>DEQ RBC - Excavation Worker - DC</b>				280,000					390,000				
<b>EPA RSL - Residential Soil</b>				2,400					2,400				
<b>EPA RSL - Industrial Soil</b>				30,000					30,000				
				MDL	RDL	Res. Sign	Result	Qualifier	MDL	RDL	Res. Sign	Result	Qualifier
BLS-BH1-SG-3	3'	01/27/2025	mg/kg	0.00227	0.006	<	0.00227	U	0.00205	0.006	<	0.00205	U
BLS-BH2-SG-3	3'	01/27/2025	mg/kg	0.00227	0.006	<	0.00282	J	0.00205	0.006	<	0.00205	U
BLS-BH3-SG-3*	3'	01/27/2025	mg/kg	0.00227	0.006	<	0.00227	U	0.00205	0.006	<	0.00205	U
BLS-BH4-SG-10	10'	01/27/2025	mg/kg	0.00227	0.006	<	0.00227	U	0.00205	0.006	<	0.00205	U
BLS-BH5-SG-3	3'	01/27/2025	mg/kg	0.00227	0.006	<	0.00227	U	0.00205	0.006	<	0.00205	U
BLS-BH6-SG-3	3'	01/27/2025	mg/kg	0.00227	0.006	<	0.00227	U	0.00205	0.006	<	0.00205	U
BLS-BH7-SG-12	12'	01/27/2025	mg/kg	0.00227	0.006	<	0.00227	U	0.00205	0.006	<	0.00214	J
BLS-BH8-SG-10	10'	01/28/2025	mg/kg	0.00227	0.006	<	0.00227	U	0.00205	0.006	<	0.00399	J
BLS-BH9-SG-10	10'	01/28/2025	mg/kg	0.00227	0.006	<	0.00227	U	0.00205	0.006	<	0.00205	U
BLS-BH10-SG-13	13'	01/28/2025	mg/kg	0.00227	0.006	<	0.00227	U	0.00205	0.006	<	0.00205	U
BLS-BH11-SG-10	10'	01/28/2025	mg/kg	0.00227	0.006	<	0.00388	J	0.00205	0.006	<	0.00992	J
BLS-BH12-SG-10	10'	01/28/2025	mg/kg	0.00227	0.006	<	0.00227	U	0.00205	0.006	<	0.00205	U
BLS-BH13-SG-13	13'	01/28/2025	mg/kg	0.00227	0.006	<	0.00310	J	0.00205	0.006	<	0.00672	J
BLS-BH14-SG-12	12'	01/28/2025	mg/kg	0.00227	0.006	<	0.00379	J	0.00205	0.006	<	0.00906	J
BLS-BH15-SG-3	3'	01/28/2025	mg/kg	0.00227	0.006	<	0.00227	U	0.00205	0.006	<	0.00205	U
BLS-BH16-SG-14	14'	01/29/2025	mg/kg	0.00227	0.006	<	0.00227	U	0.00205	0.006	<	0.00205	U
BLS-MW-5-SG-12	12'	01/29/2025	mg/kg	0.00227	0.006	<	0.00227	U	0.00205	0.006	<	0.00205	U
BLS-MW-6-SG-11	11'	01/29/2025	mg/kg	0.00227	0.006	<	0.00227	U	0.00205	0.006	<	0.00205	U

Notes:

**Bolded** values exceed the lowest SL for that analyte

PAH = polycyclic aromatic hydrocarbon

Oregon DEQ Risk-Based Concentrations (RBCs) obtained from table of Risk-Based Concentrations for Individual Chemicals (DEQ 2023) for the Soil Ingestion, Dermal Contact, and Inhalation (RBCss) for Residential, Occupational, Construction Worker and Excavation Worker receptor scenarios

>Max = The constituent RBC for this pathway is calculated as greater than 1,000,000 mg/kg. Constituent is deemed not to pose risks in this scenario.

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\* = location of duplicate sample, higher concentration shown

U = not detected above the value shown

J = result is an estimate

J- = result is an estimate, biased low

Table 4. Subsurface Soil Grab Sampling Results for PAHs

Sample ID	Sample Depth (feet bgs)	Sample Date	Units	indeno(1,2,3-cd)pyrene					naphthalene				
Analytical Method				USEPA 8270C-SIM					USEPA 8270C-SIM				
DEQ RBC - Residential DC				1.1					5.3				
DEQ RBC - Occupational - DC				21					23				
DEQ RBC - Construction Worker - DC				170					580				
DEQ RBC - Excavation Worker - DC				4,900					16,000				
EPA RSL - Residential Soil				1.1					2				
EPA RSL - Industrial Soil				21					8.6				
				MDL	RDL	Res. Sign	Result	Qualifier	MDL	RDL	Res. Sign	Result	Qualifier
BLS-BH1-SG-3	3'	01/27/2025	mg/kg	0.00181	0.006	<	0.00181	U	0.00408	0.02	<	0.00408	U
BLS-BH2-SG-3	3'	01/27/2025	mg/kg	0.00181	0.006	<	0.00356	J	0.00408	0.02	<	0.00408	U
BLS-BH3-SG-3*	3'	01/27/2025	mg/kg	0.00181	0.006	<	0.00181	U	0.00408	0.02	<	0.00408	U
BLS-BH4-SG-10	10'	01/27/2025	mg/kg	0.00181	0.006	<	0.00181	U	0.00408	0.02	<	0.00408	U
BLS-BH5-SG-3	3'	01/27/2025	mg/kg	0.00181	0.006	<	0.00181	U	0.00408	0.02	<	0.00408	U
BLS-BH6-SG-3	3'	01/27/2025	mg/kg	0.00181	0.006	<	0.00181	U	0.00408	0.02	<	0.00408	U
BLS-BH7-SG-12	12'	01/27/2025	mg/kg	0.00181	0.006	<	0.00181	U	0.00408	0.02	<	0.00408	U
BLS-BH8-SG-10	10'	01/28/2025	mg/kg	0.00181	0.006	<	0.00181	U	0.00408	0.02	<	0.279	
BLS-BH9-SG-10	10'	01/28/2025	mg/kg	0.00181	0.006	<	0.00181	U	0.00408	0.02	<	0.00408	U
BLS-BH10-SG-13	13'	01/28/2025	mg/kg	0.00181	0.006	<	0.00181	U	0.00408	0.02	<	0.00408	U
BLS-BH11-SG-10	10'	01/28/2025	mg/kg	0.00181	0.006	<	0.00181	U	0.00408	0.02	<	1.12	J-
BLS-BH12-SG-10	10'	01/28/2025	mg/kg	0.00181	0.006	<	0.00181	U	0.00408	0.02	<	0.00408	U
BLS-BH13-SG-13	13'	01/28/2025	mg/kg	0.00181	0.006	<	0.00181	U	0.00408	0.02	<	<b>3.44</b>	J-
BLS-BH14-SG-12	12'	01/28/2025	mg/kg	0.00181	0.006	<	0.00181	U	0.00408	0.02	<	0.225	J-
BLS-BH15-SG-3	3'	01/28/2025	mg/kg	0.00181	0.006	<	0.00181	U	0.00408	0.02	<	0.00408	U
BLS-BH16-SG-14	14'	01/29/2025	mg/kg	0.00181	0.006	<	0.00181	U	0.00408	0.02	<	0.00408	U
BLS-MW-5-SG-12	12'	01/29/2025	mg/kg	0.00181	0.006	<	0.00181	U	0.00408	0.02	<	0.00408	U
BLS-MW-6-SG-11	11'	01/29/2025	mg/kg	0.00181	0.006	<	0.00181	U	0.00408	0.02	<	0.637	

Notes:

**Bolded** values exceed the lowest SL for that analyte

PAH = polycyclic aromatic hydrocarbon

Oregon DEQ Risk-Based Concentrations (RBCs) obtained from table of Risk-Based Concentrations for Individual Chemicals (DEQ 2023) for the Soil Ingestion, Dermal Contact, and Inhalation (RBCss) for Residential, Occupational, Construction Worker and Excavation Worker receptor scenarios

>Max = The constituent RBC for this pathway is calculated as greater than 1,000,000 mg/kg. Constituent is deemed not to pose risks in this scenario.

EPA RSL = EPA Regional Screening Level (EPA 2024) for the Residential Soil and Industrial Soil Pathways. \*\* Represents the Maximum Contaminant Level (MCL)-based Soil Screening Level (SSL).

\* = location of duplicate sample, higher concentration shown

U = not detected above the value shown

J = result is an estimate

J- = result is an estimate, biased low

Table 4. Subsurface Soil Grab Sampling Results for PAHs

Sample ID	Sample Depth (feet bgs)	Sample Date	Units	pyrene				
<b>Analytical Method</b>				USEPA 8270C-SIM				
<b>DEQ RBC - Residential DC</b>				1,800				
<b>DEQ RBC - Occupational - DC</b>				23,000				
<b>DEQ RBC - Construction Worker - DC</b>				7,500				
<b>DEQ RBC - Excavation Worker - DC</b>				210,000				
<b>EPA RSL - Residential Soil</b>				1,800				
<b>EPA RSL - Industrial Soil</b>				23,000				
				MDL	RDL	Res. Sign	Result	Qualifier
BLS-BH1-SG-3	3'	01/27/2025	mg/kg	0.002	0.006	<	0.002	U
BLS-BH2-SG-3	3'	01/27/2025	mg/kg	0.002	0.006	<	0.00483	J
BLS-BH3-SG-3*	3'	01/27/2025	mg/kg	0.002	0.006	<	0.002	U
BLS-BH4-SG-10	10'	01/27/2025	mg/kg	0.002	0.006	<	0.002	U
BLS-BH5-SG-3	3'	01/27/2025	mg/kg	0.002	0.006	<	0.002	U
BLS-BH6-SG-3	3'	01/27/2025	mg/kg	0.002	0.006	<	0.002	U
BLS-BH7-SG-12	12'	01/27/2025	mg/kg	0.002	0.006	<	0.002	U
BLS-BH8-SG-10	10'	01/28/2025	mg/kg	0.002	0.006	<	0.002	U
BLS-BH9-SG-10	10'	01/28/2025	mg/kg	0.002	0.006	<	0.002	U
BLS-BH10-SG-13	13'	01/28/2025	mg/kg	0.002	0.006	<	0.002	U
BLS-BH11-SG-10	10'	01/28/2025	mg/kg	0.002	0.006	<	0.00363	J
BLS-BH12-SG-10	10'	01/28/2025	mg/kg	0.002	0.006	<	0.002	U
BLS-BH13-SG-13	13'	01/28/2025	mg/kg	0.002	0.006	<	0.00304	J
BLS-BH14-SG-12	12'	01/28/2025	mg/kg	0.002	0.006	<	0.00357	J
BLS-BH15-SG-3	3'	01/28/2025	mg/kg	0.002	0.006	<	0.002	U
BLS-BH16-SG-14	14'	01/29/2025	mg/kg	0.002	0.006	<	0.002	U
BLS-MW-5-SG-12	12'	01/29/2025	mg/kg	0.002	0.006	<	0.002	U
BLS-MW-6-SG-11	11'	01/29/2025	mg/kg	0.002	0.006	<	0.002	U

Notes:

**Bolded** values exceed the lowest SL for that analyte

PAH = polycyclic aromatic hydrocarbon

Oregon DEQ Risk-Based Concentrations (RBCs) obtained from table of Risk-Based Concentrations for Individual Chemicals (DEQ 2023) for the Soil Ingestion, Dermal Contact, and Inhalation (RBCss) for Residential, Occupational, Construction Worker and Excavation Worker receptor scenarios

>Max = The constituent RBC for this pathway is calculated as greater than 1,000,000 mg/kg. Constituent is deemed not to pose risks in this scenario.

EPA RSL = EPA Regional Screening Level (EPA 2024) for the Residential Soil and Industrial Soil Pathways. \*\* Represents the Maximum Contaminant Level (MCL)-based Soil Screening Level (SSL).

\* = location of duplicate sample, higher concentration shown

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J = result is an estimate

J- = result is an estimate, biased low

Table 5. Groundwater Sampling Results for TPHs

Sample ID	Sample Date	Units	TPH-GRO					TPH-DRO				
<b>Analytical Method</b>			NWTPH-Gx					NWTPH-Dx				
<b>DEQ RBC - Water to indoor air (RBCwi)</b>			0.12					0.4				
<b>DEQ RBC - GW in Excavation</b>			14					>S				
<b>EPA MCL or RSL</b>			-					-				
			MDL	RDL	Res. Sign	Result	Qualifier	MDL	RDL	Res. Sign	Result	Qualifier
BLS-MW-2*	01/31/2025		0.0316	0.1		5.39		0.0678	0.1		1.83	
BLS-MW-3	01/31/2025	mg/L	0.0316	0.1		0.771	J+	0.0678	0.1		0.1	U
BLS-MW-4	01/31/2025	mg/L	0.0316	0.1		0.100	U	0.0678	0.1		0.1	U
BLS-MW-5	02/01/2025	mg/L	0.0316	0.1		3.34		0.0678	0.1		0.909	
BLS-MW-6	02/01/2025	mg/L	0.0316	0.1		9.87	J+	0.0678	0.1		2	

Notes:

TPHs = total petroleum hydrocarbons. GRO = gasoline range organics. DRO = diesel range organics.  
 Oregon DEQ Risk-Based Concentrations (RBCs) obtained from table of Risk-Based Concentrations for Individual Chemicals (DEQ 2023) for the Soil Ingestion, Dermal Contact, and Inhalation (RBCss) for Residential, Occupational, Construction Worker and Excavation Worker receptor scenarios  
 >S = This groundwater RBC exceeds the solubility limit.  
 EPA RSL = EPA Regional Screening Level (EPA 2024) for the Residential Soil and Industrial Soil Pathways. \*\* Represents the Maximum Contaminant Level (MCL)-based Soil Screening Level (SSL).  
 \* = location of duplicate sample, higher concentration shown  
 - = not available  
 U = not detected above the value shown  
 J+ = result is an estimate, biased high

Table 6. Groundwater Sampling Results for Metals

Sample ID	Sample Date	Units	Antimony					Arsenic				
<b>Analytical Method</b>			USEPA 6010D					USEPA 6010D				
<b>DEQ RBC - GW in Excavation</b>			-					6.3				
<b>EPA MCL or RSL</b>			0.006					0.01				
			MDL	RDL	Res. Sign	Result	Qualifier	MDL	RDL	Res. Sign	Result	Qualifier
BLS-MW-2*	01/31/2025	mg/L	0.00506	0.01	<	0.00506	U	0.00783	0.01	<	<b>0.0132</b>	
BLS-MW-3	01/31/2025	mg/L	0.00506	0.01	<	0.00506	U	0.00783	0.01	<	0.00783	U
BLS-MW-4	01/31/2025	mg/L	0.00506	0.01	<	0.00506	U	0.00783	0.01	<	0.00783	U
BLS-MW-5	02/01/2025	mg/L	0.00506	0.01	<	0.00506	U	0.00783	0.01	<	0.00783	U
BLS-MW-6	02/01/2025	mg/L	0.00506	0.01	<	0.00506	U	0.00783	0.01	<	0.00783	U

Notes:

Shaded areas identify constituents where the reporting limit and/or method detection limit exceed the shaded screening level.

**Bolded** values exceed the lowest SL for that analyte

Oregon DEQ Risk-Based Concentrations (RBCs) obtained from table of Risk-Based Concentrations for Individual Chemicals (DEQ 2023) for the Groundwater in Excavation (RBC<sub>we</sub>), Construction & Excavation Worker receptor scenario.

>S = This groundwater RBC exceeds the solubility limit. Groundwater concentrations in excess of S indicate that free product may be present.

EPA MCL or RSL = EPA Maximum Contaminant Level (MCL) or Regional Screening Level (RSL) (EPA 2024). MCLs are provided if available; otherwise, the tap water EPA RSL is provided.

\* = location of duplicate sample, higher concentration shown

U = not detected above the value shown

J = result is an estimate

J+ = result is an estimate, biased high

Table 6. Groundwater Sampling Results for Metals

Sample ID	Sample Date	Units	Beryllium					Cadmium				
<b>Analytical Method</b>			USEPA 6010D					USEPA 6010D				
<b>DEQ RBC - GW in Excavation</b>			270					130				
<b>EPA MCL or RSL</b>			0.004					0.005				
			MDL	RDL	Res. Sign	Result	Qualifier	MDL	RDL	Res. Sign	Result	Qualifier
BLS-MW-2*	01/31/2025	mg/L	0.000501	0.002	<	0.000501	U	0.000538	0.002	<	0.000538	U
BLS-MW-3	01/31/2025	mg/L	0.000501	0.002	<	0.000501	U	0.000538	0.002	<	0.000538	U
BLS-MW-4	01/31/2025	mg/L	0.000501	0.002	<	0.000501	U	0.000538	0.002	<	0.000538	U
BLS-MW-5	02/01/2025	mg/L	0.000501	0.002	<	0.000501	U	0.000538	0.002	<	0.000538	U
BLS-MW-6	02/01/2025	mg/L	0.000501	0.002	<	0.000501	U	0.000538	0.002	<	0.000538	U

Notes:

Shaded areas identify constituents where the reporting limit and/or method detection limit exceed the shaded screening level.

**Bolded** values exceed the lowest SL for that analyte

Oregon DEQ Risk-Based Concentrations (RBCs) obtained from table of Risk-Based Concentrations for Individual Chemicals (DEQ 2023) for the Groundwater in Excavation (RBC<sub>we</sub>), Construction & Excavation Worker receptor scenario.

>S = This groundwater RBC exceeds the solubility limit. Groundwater concentrations in excess of S indicate that free product may be present.

EPA MCL or RSL = EPA Maximum Contaminant Level (MCL) or Regional Screening Level (RSL) (EPA 2024). MCLs are provided if available; otherwise, the tap water EPA RSL is provided.

\* = location of duplicate sample, higher concentration shown

U = not detected above the value shown

J = result is an estimate

J+ = result is an estimate, biased high

Table 6. Groundwater Sampling Results for Metals

Sample ID	Sample Date	Units	Chromium					Copper				
<b>Analytical Method</b>			USEPA 6010D					USEPA 6010D				
<b>DEQ RBC - GW in Excavation</b>			>S					5400				
<b>EPA MCL or RSL</b>			0.1					1.3				
			MDL	RDL	Res. Sign	Result	Qualifier	MDL	RDL	Res. Sign	Result	Qualifier
BLS-MW-2*	01/31/2025	mg/L	0.00151	0.01	<	0.00151	U	0.00226	0.01	<	0.00226	U
BLS-MW-3	01/31/2025	mg/L	0.00151	0.01	<	0.00151	U	0.00226	0.01	<	0.00226	U
BLS-MW-4	01/31/2025	mg/L	0.00151	0.01		0.00331	J	0.00226	0.01		0.0115	J+
BLS-MW-5	02/01/2025	mg/L	0.00151	0.01	<	0.00151	U	0.00226	0.01	<	0.00226	U
BLS-MW-6	02/01/2025	mg/L	0.00151	0.01		0.00156	J	0.00226	0.01	<	0.00226	U

Notes:

Shaded areas identify constituents where the reporting limit and/or method detection limit exceed the shaded screening level.

**Bolded** values exceed the lowest SL for that analyte

Oregon DEQ Risk-Based Concentrations (RBCs) obtained from table of Risk-Based Concentrations for Individual Chemicals (DEQ 2023) for the Groundwater in Excavation (RBC<sub>we</sub>), Construction & Excavation Worker receptor scenario.

>S = This groundwater RBC exceeds the solubility limit. Groundwater concentrations in excess of S indicate that free product may be present.

EPA MCL or RSL = EPA Maximum Contaminant Level (MCL) or Regional Screening Level (RSL) (EPA 2024). MCLs are provided if available; otherwise, the tap water EPA RSL is provided.

\* = location of duplicate sample, higher concentration shown

U = not detected above the value shown

J = result is an estimate

J+ = result is an estimate, biased high

Table 6. Groundwater Sampling Results for Metals

Sample ID	Sample Date	Units	Lead					Nickel				
<b>Analytical Method</b>			USEPA 6010D					USEPA 6010D				
<b>DEQ RBC - GW in Excavation</b>			>S					>S				
<b>EPA MCL or RSL</b>			0.015					0.39				
			MDL	RDL	Res. Sign	Result	Qualifier	MDL	RDL	Res. Sign	Result	Qualifier
BLS-MW-2*	01/31/2025	mg/L	0.00243	0.006		0.00496	J	0.00196	0.01		0.00196	U
BLS-MW-3	01/31/2025	mg/L	0.00243	0.006		0.00295	J	0.00196	0.01		0.00219	J
BLS-MW-4	01/31/2025	mg/L	0.00243	0.006		0.00311	J	0.00196	0.01		0.00346	J
BLS-MW-5	02/01/2025	mg/L	0.00243	0.006	<	0.00243	U	0.00196	0.01		0.00678	J
BLS-MW-6	02/01/2025	mg/L	0.00243	0.006	<	0.00243	U	0.00196	0.01		0.00489	J

Notes:

Shaded areas identify constituents where the reporting limit and/or method detection limit exceed the shaded screening level.

**Bolded** values exceed the lowest SL for that analyte

Oregon DEQ Risk-Based Concentrations (RBCs) obtained from table of Risk-Based Concentrations for Individual Chemicals (DEQ 2023) for the Groundwater in Excavation (RBC<sub>we</sub>), Construction & Excavation Worker receptor scenario.

>S = This groundwater RBC exceeds the solubility limit. Groundwater concentrations in excess of S indicate that free product may be present.

EPA MCL or RSL = EPA Maximum Contaminant Level (MCL) or Regional Screening Level (RSL) (EPA 2024). MCLs are provided if available; otherwise, the tap water EPA RSL is provided.

\* = location of duplicate sample, higher concentration shown

U = not detected above the value shown

J = result is an estimate

J+ = result is an estimate, biased high

Table 6. Groundwater Sampling Results for Metals

Sample ID	Sample Date	Units	Selenium					Silver				
<b>Analytical Method</b>			USEPA 6010D					USEPA 6010D				
<b>DEQ RBC - GW in Excavation</b>			-					1100				
<b>EPA MCL or RSL</b>			0.05					0.094				
			MDL	RDL	Res. Sign	Result	Qualifier	MDL	RDL	Res. Sign	Result	Qualifier
BLS-MW-2*	01/31/2025	mg/L	0.00616	0.01		0.00695	J	0.00289	0.005	<	0.00289	U
BLS-MW-3	01/31/2025	mg/L	0.00616	0.01	<	0.00616	U	0.00289	0.005	<	0.00289	U
BLS-MW-4	01/31/2025	mg/L	0.00616	0.01	<	0.00616	U	0.00289	0.005	<	0.00289	U
BLS-MW-5	02/01/2025	mg/L	0.00616	0.01	<	0.00616	U	0.00289	0.005	<	0.00289	U
BLS-MW-6	02/01/2025	mg/L	0.00616	0.01	<	0.00616	U	0.00289	0.005	<	0.00289	U

Notes:

Shaded areas identify constituents where the reporting limit and/or method detection limit exceed the shaded screening level.

**Bolded** values exceed the lowest SL for that analyte

Oregon DEQ Risk-Based Concentrations (RBCs) obtained from table of Risk-Based Concentrations for Individual Chemicals (DEQ 2023) for the Groundwater in Excavation (RBC<sub>we</sub>), Construction & Excavation Worker receptor scenario.

>S = This groundwater RBC exceeds the solubility limit. Groundwater concentrations in excess of S indicate that free product may be present.

EPA MCL or RSL = EPA Maximum Contaminant Level (MCL) or Regional Screening Level (RSL) (EPA 2024). MCLs are provided if available; otherwise, the tap water EPA RSL is provided.

\* = location of duplicate sample, higher concentration shown

U = not detected above the value shown

J = result is an estimate

J+ = result is an estimate, biased high

Table 6. Groundwater Sampling Results for Metals

Sample ID	Sample Date	Units	Thallium					Zinc				
<b>Analytical Method</b>			USEPA 6010D					USEPA 6010D				
<b>DEQ RBC - GW in Excavation</b>			-					-				
<b>EPA MCL or RSL</b>			0.002					6				
			MDL	RDL	Res. Sign	Result	Qualifier	MDL	RDL	Res. Sign	Result	Qualifier
BLS-MW-2*	01/31/2025	mg/L	0.00663	0.01	<	0.00663	U	0.00467	0.05		0.0500	U
BLS-MW-3	01/31/2025	mg/L	0.00663	0.01	<	0.00663	U	0.00467	0.05		0.0500	U
BLS-MW-4	01/31/2025	mg/L	0.00663	0.01	<	0.00663	U	0.00467	0.05		0.239	
BLS-MW-5	02/01/2025	mg/L	0.00663	0.01	<	0.00663	U	0.00467	0.05		0.0500	U
BLS-MW-6	02/01/2025	mg/L	0.00663	0.01	<	0.00663	U	0.00467	0.05		0.0500	U

Notes:

Shaded areas identify constituents where the reporting limit and/or method detection limit exceed the shaded screening level.

**Bolded** values exceed the lowest SL for that analyte

Oregon DEQ Risk-Based Concentrations (RBCs) obtained from table of Risk-Based Concentrations for Individual Chemicals (DEQ 2023) for the Groundwater in Excavation (RBC<sub>we</sub>), Construction & Excavation Worker receptor scenario.

>S = This groundwater RBC exceeds the solubility limit. Groundwater concentrations in excess of S indicate that free product may be present.

EPA MCL or RSL = EPA Maximum Contaminant Level (MCL) or Regional Screening Level (RSL) (EPA 2024). MCLs are provided if available; otherwise, the tap water EPA RSL is provided.

\* = location of duplicate sample, higher concentration shown

U = not detected above the value shown

J = result is an estimate

J+ = result is an estimate, biased high

Table 6. Groundwater Sampling Results for Metals

Sample ID	Sample Date	Units	Mercury				
<b>Analytical Method</b>			USEPA 7470A				
<b>DEQ RBC - GW in Excavation</b>			>S				
<b>EPA MCL or RSL</b>			0.002				
			MDL	RDL	Res. Sign	Result	Qualifier
BLS-MW-2*	01/31/2025	mg/L	0.00007	0.0002	<	0.00007	U
BLS-MW-3	01/31/2025	mg/L	0.00007	0.0002	<	0.00007	U
BLS-MW-4	01/31/2025	mg/L	0.00007	0.0002	<	0.00007	U
BLS-MW-5	02/01/2025	mg/L	0.00007	0.0002	<	0.00007	U
BLS-MW-6	02/01/2025	mg/L	0.00007	0.0002	<	0.00007	U

Notes:

Shaded areas identify constituents where the reporting limit and/or method detection limit exceed the shaded screening level.

**Bolded** values exceed the lowest SL for that analyte

Oregon DEQ Risk-Based Concentrations (RBCs) obtained from table of Risk-Based Concentrations for Individual Chemicals (DEQ 2023) for the Groundwater in Excavation (RBC<sub>we</sub>), Construction & Excavation Worker receptor scenario.

>S = This groundwater RBC exceeds the solubility limit. Groundwater concentrations in excess of S indicate that free product may be present.

EPA MCL or RSL = EPA Maximum Contaminant Level (MCL) or Regional Screening Level (RSL) (EPA 2024). MCLs are provided if available; otherwise, the tap water EPA RSL is provided.

\* = location of duplicate sample, higher concentration shown

U = not detected above the value shown

J = result is an estimate

J+ = result is an estimate, biased high

Table 7. Groundwater Sampling Results for VOCs

Sample ID	Sample Date	Units	benzene					toluene				
<b>Analytical Method</b>			USEPA 8260D					USEPA 8260D				
<b>DEQ RBC - Water to Indoor Air (RBCwi)</b>			0.0028					36				
<b>DEQ RBC - GW in Excavation</b>			1.8					220				
<b>EPA MCL or RSL</b>			<b>0.005</b>					<b>1</b>				
			MDL	RDL	Res. Sign	Result	Qualifier	MDL	RDL	Res. Sign	Result	Qualifier
BLS-MW-2*	01/31/2025	mg/L	0.0000941	0.001		0.000594	J	0.000278	0.001		0.00419	
BLS-MW-3	01/31/2025	mg/L	0.0000941	0.001	<	0.0000941	U	0.000278	0.001	<	0.000278	U
BLS-MW-4	01/31/2025	mg/L	0.0000941	0.001	<	0.0000941	U	0.000278	0.001	<	0.000278	U
BLS-MW-5	02/01/2025	mg/L	0.0000941	0.001		0.000925	J	0.000278	0.001	<	0.000278	U
BLS-MW-6	02/01/2025	mg/L	0.0000941	0.001		<b>0.0236</b>		0.000278	0.001		0.00397	

Notes:

Shaded areas identify constituents where the reporting limit and/or method detection limit exceed the shaded screening level.

**Bolded** values exceed the lowest SL for that analyte

VOC = volatile organic compound

Screening levels for vapor intrusion from groundwater to indoor air (RBCwi) were obtained using the Oregon DEQ's Vapor Intrusion RBCs (March 2024) based on EPA's Vapor Intrusion Screening Level (VISL) calculator.

Oregon DEQ Risk-Based Concentrations (RBCs) obtained from table of Risk-Based Concentrations for Individual Chemicals (DEQ 2023) for the Groundwater in Excavation (RBC<sub>we</sub>), Construction & Excavation Worker receptor scenario.

- = not available

EPA MCL or RSL = EPA Maximum Contaminant Level (MCL) or Regional Screening Level (RSL) (EPA 2024). MCLs are provided if available; otherwise, the tap water EPA RSL is provided.

\* = location of duplicate sample, higher concentration shown

U = not detected above the value shown

UJ = estimated non-detect

J = result is an estimate

Table 7. Groundwater Sampling Results for VOCs

Sample ID	Sample Date	Units	ethylbenzene					total xylenes				
			MDL	RDL	Res. Sign	Result	Qualifier	MDL	RDL	Res. Sign	Result	Qualifier
<b>Analytical Method</b>			USEPA 8260D					USEPA 8260D				
<b>DEQ RBC - Water to Indoor Air (RBCwi)</b>			0.0071					0.78				
<b>DEQ RBC - GW in Excavation</b>			4.5					23				
<b>EPA MCL or RSL</b>			0.7					10				
BLS-MW-2*	01/31/2025	mg/L	0.00274	0.02		0.428		0.000174	0.003		0.0888	
BLS-MW-3	01/31/2025	mg/L	0.000137	0.001		0.000323	J	0.000174	0.003		0.000237	J
BLS-MW-4	01/31/2025	mg/L	0.000137	0.001	<	0.000137	U	0.000174	0.003	<	0.000174	U
BLS-MW-5	02/01/2025	mg/L	0.000137	0.001		0.000929	J	0.000174	0.003	<	0.000174	U
BLS-MW-6	02/01/2025	mg/L	0.00343	0.025		<b>0.855</b>		0.000174	0.003		0.376	

Notes:

Shaded areas identify constituents where the reporting limit and/or method detection limit exceed the shaded screening level.

**Bolded** values exceed the lowest SL for that analyte

VOC = volatile organic compound

Screening levels for vapor intrusion from groundwater to indoor air (RBCwi) were obtained using the Oregon DEQ's Vapor Intrusion RBCs (March 2024) based on EPA's Vapor Intrusion Screening Level (VISL) calculator.

Oregon DEQ Risk-Based Concentrations (RBCs) obtained from table of Risk-Based Concentrations for Individual Chemicals (DEQ 2023) for the Groundwater in Excavation (RBC<sub>we</sub>), Construction & Excavation Worker receptor scenario.

- = not available

EPA MCL or RSL = EPA Maximum Contaminant Level (MCL) or Regional Screening Level (RSL) (EPA 2024). MCLs are provided if available; otherwise, the tap water EPA RSL is provided.

\* = location of duplicate sample, higher concentration shown

U = not detected above the value shown

UU = estimated non-detect

J = result is an estimate

Table 7. Groundwater Sampling Results for VOCs

Sample ID	Sample Date	Units	naphthalene					iso-propylbenzene				
			MDL	RDL	Res. Sign	Result	Qualifier	MDL	RDL	Res. Sign	Result	Qualifier
<b>Analytical Method</b>			USEPA 8260D					USEPA 8260D				
<b>DEQ RBC - Water to Indoor Air (RBCwi)</b>			0.011					2.2				
<b>DEQ RBC - GW in Excavation</b>			0.5					51				
<b>EPA MCL or RSL</b>			<b>0.00012</b>					<b>0.45</b>				
BLS-MW-2*	01/31/2025	mg/L	0.001	0.005		<b>0.135</b>	J	0.000105	0.001		0.0507	
BLS-MW-3	01/31/2025	mg/L	0.001	0.005		<b>0.00317</b>	J	0.000105	0.001		0.00515	
BLS-MW-4	01/31/2025	mg/L	0.001	0.005	<	0.001	UJ	0.000105	0.001	<	0.000105	U
BLS-MW-5	02/01/2025	mg/L	0.001	0.005	<	0.001	UJ	0.000105	0.001		0.00672	
BLS-MW-6	02/01/2025	mg/L	0.025	0.125		<b>0.125</b>	J	0.000105	0.001		0.0643	

Notes:

Shaded areas identify constituents where the reporting limit and/or method detection limit exceed the shaded screening level.

**Bolded** values exceed the lowest SL for that analyte

VOC = volatile organic compound

Screening levels for vapor intrusion from groundwater to indoor air (RBCwi) were obtained using the Oregon DEQ's Vapor Intrusion RBCs (March 2024) based on EPA's Vapor Intrusion Screening Level (VISL) calculator.

Oregon DEQ Risk-Based Concentrations (RBCs) obtained from table of Risk-Based Concentrations for Individual Chemicals (DEQ 2023) for the Groundwater in Excavation (RBC<sub>we</sub>), Construction & Excavation Worker receptor scenario.

- = not available

EPA MCL or RSL = EPA Maximum Contaminant Level (MCL) or Regional Screening Level (RSL) (EPA 2024). MCLs are provided if available; otherwise, the tap water EPA RSL is provided.

\* = location of duplicate sample, higher concentration shown

U = not detected above the value shown

UJ = estimated non-detect

J = result is an estimate

Table 7. Groundwater Sampling Results for VOCs

Sample ID	Sample Date	Units	n-propylbenzene					1,2,4-trimethylbenzene				
<b>Analytical Method</b>			USEPA 8260D					USEPA 8260D				
<b>DEQ RBC - Water to Indoor Air (RBCwi)</b>			5.3					0.56				
<b>DEQ RBC - GW in Excavation</b>			-					6.3				
<b>EPA MCL or RSL</b>			0.66					<b>0.056</b>				
			MDL	RDL	Res. Sign	Result	Qualifier	MDL	RDL	Res. Sign	Result	Qualifier
BLS-MW-2*	01/31/2025	mg/L	0.0000993	0.001		0.18		0.000322	0.001		<b>0.0721</b>	
BLS-MW-3	01/31/2025	mg/L	0.0000993	0.001		0.0137		0.000322	0.001	<	0.000322	U
BLS-MW-4	01/31/2025	mg/L	0.0000993	0.001	<	0.0000993	U	0.000322	0.001	<	0.000322	U
BLS-MW-5	02/01/2025	mg/L	0.0000993	0.001		0.00472		0.000322	0.001	<	0.000322	U
BLS-MW-6	02/01/2025	mg/L	0.0000993	0.001		0.19		0.000322	0.001		<b>0.104</b>	

Notes:

Shaded areas identify constituents where the reporting limit and/or method detection limit exceed the shaded screening level.

**Bolded** values exceed the lowest SL for that analyte

VOC = volatile organic compound

Screening levels for vapor intrusion from groundwater to indoor air (RBCwi) were obtained using the Oregon DEQ's Vapor Intrusion RBCs (March 2024) based on EPA's Vapor Intrusion Screening Level (VISL) calculator.

Oregon DEQ Risk-Based Concentrations (RBCs) obtained from table of Risk-Based Concentrations for Individual Chemicals (DEQ 2023) for the Groundwater in Excavation (RBC<sub>we</sub>), Construction & Excavation Worker receptor scenario.

- = not available

EPA MCL or RSL = EPA Maximum Contaminant Level (MCL) or Regional Screening Level (RSL) (EPA 2024). MCLs are provided if available; otherwise, the tap water EPA RSL is provided.

\* = location of duplicate sample, higher concentration shown

U = not detected above the value shown

UJ = estimated non-detect

J = result is an estimate

Table 7. Groundwater Sampling Results for VOCs

Sample ID	Sample Date	Units	1,3,5-trimethylbenzene					MTBE (methyl tert-butyl ether)				
			MDL	RDL	Res. Sign	Result	Qualifier	MDL	RDL	Res. Sign	Result	Qualifier
<b>Analytical Method</b>			USEPA 8260D					USEPA 8260D				
<b>DEQ RBC - Water to Indoor Air (RBCwi)</b>			0.4					0.74				
<b>DEQ RBC - GW in Excavation</b>			7.5					63				
<b>EPA MCL or RSL</b>			<b>0.06</b>					<b>0.014</b>				
BLS-MW-2*	01/31/2025	mg/L	0.000104	0.001		0.0186		0.000101	0.001	<	0.000101	U
BLS-MW-3	01/31/2025	mg/L	0.000104	0.001		0.000127	J	0.000101	0.001	<	0.000101	U
BLS-MW-4	01/31/2025	mg/L	0.000104	0.001	<	0.000104	U	0.000101	0.001	<	0.000101	U
BLS-MW-5	02/01/2025	mg/L	0.000104	0.001		0.000165	J	0.000101	0.001	<	0.000101	U
BLS-MW-6	02/01/2025	mg/L	0.000104	0.001		<b>0.0991</b>		0.000101	0.001	<	0.000101	U

Notes:

Shaded areas identify constituents where the reporting limit and/or method detection limit exceed the shaded screening level.

**Bolded** values exceed the lowest SL for that analyte

VOC = volatile organic compound

Screening levels for vapor intrusion from groundwater to indoor air (RBCwi) were obtained using the Oregon DEQ's Vapor Intrusion RBCs (March 2024) based on EPA's Vapor Intrusion Screening Level (VISL) calculator.

Oregon DEQ Risk-Based Concentrations (RBCs) obtained from table of Risk-Based Concentrations for Individual Chemicals (DEQ 2023) for the Groundwater in Excavation (RBC<sub>we</sub>), Construction & Excavation Worker receptor scenario.

- = not available

EPA MCL or RSL = EPA Maximum Contaminant Level (MCL) or Regional Screening Level (RSL) (EPA 2024). MCLs are provided if available; otherwise, the tap water EPA RSL is provided.

\* = location of duplicate sample, higher concentration shown

U = not detected above the value shown

UU = estimated non-detect

J = result is an estimate

Table 7. Groundwater Sampling Results for VOCs

Sample ID	Sample Date	Units	EDC (1,2-dichloroethane)					EDB (ethylene dibromide)				
			MDL	RDL	Res. Sign	Result	Qualifier	MDL	RDL	Res. Sign	Result	Qualifier
<b>Analytical Method</b>			USEPA 8260D					USEPA 8260D				
<b>DEQ RBC - Water to Indoor Air (RBCwi)</b>			0.004					0.00034				
<b>DEQ RBC - GW in Excavation</b>			0.63					0.027				
<b>EPA MCL or RSL</b>			0.005					0.00005				
BLS-MW-2*	01/31/2025	mg/L	0.0000819	0.001	<	0.0000819	U	0.000126	0.001	<	0.000126	U
BLS-MW-3	01/31/2025	mg/L	0.0000819	0.001	<	0.0000819	U	0.000126	0.001	<	0.000126	U
BLS-MW-4	01/31/2025	mg/L	0.0000819	0.001	<	0.0000819	U	0.000126	0.001	<	0.000126	U
BLS-MW-5	02/01/2025	mg/L	0.0000819	0.001	<	0.0000819	U	0.000126	0.001	<	0.000126	U
BLS-MW-6	02/01/2025	mg/L	0.0000819	0.001	<	0.0000819	U	0.000126	0.001	<	0.000126	U

Notes:

Shaded areas identify constituents where the reporting limit and/or method detection limit exceed the shaded screening level.

**Bolded** values exceed the lowest SL for that analyte

VOC = volatile organic compound

Screening levels for vapor intrusion from groundwater to indoor air (RBCwi) were obtained using the Oregon DEQ's Vapor Intrusion RBCs (March 2024) based on EPA's Vapor Intrusion Screening Level (VISL) calculator.

Oregon DEQ Risk-Based Concentrations (RBCs) obtained from table of Risk-Based Concentrations for Individual Chemicals (DEQ 2023) for the Groundwater in Excavation (RBC<sub>we</sub>), Construction & Excavation Worker receptor scenario.

- = not available

EPA MCL or RSL = EPA Maximum Contaminant Level (MCL) or Regional Screening Level (RSL) (EPA 2024). MCLs are provided if available; otherwise, the tap water EPA RSL is provided.

\* = location of duplicate sample, higher concentration shown

U = not detected above the value shown

UU = estimated non-detect

J = result is an estimate

Table 8. Groundwater Sampling Results for PAHs

Sample ID	Sample Date	Units	acenaphthene					anthracene				
			MDL	RDL	Res. Sign	Result	Qualifier	MDL	RDL	Res. Sign	Result	Qualifier
<b>Analytical Method</b>			USEPA 8270C-SIM					USEPA 8270C-SIM				
<b>DEQ RBC - GW in Excavation</b>			>S					>S				
<b>EPA MCL or RSL</b>			0.53					1.8				
BLS-MW-2*	01/31/2025	mg/L	0.000019	0.00005		0.000809		0.000019	0.00005		0.0000956	J
BLS-MW-3	01/31/2025	mg/L	0.000019	0.00005		0.000163		0.000019	0.00005	<	0.000019	U
BLS-MW-4	01/31/2025	mg/L	0.000019	0.00005	<	0.000019	U	0.000019	0.00005	<	0.000019	U
BLS-MW-5	02/01/2025	mg/L	0.000019	0.00005		0.000536		0.000019	0.00005	<	0.000019	U
BLS-MW-6	02/01/2025	mg/L	0.000019	0.00005		0.000353		0.000019	0.00005		0.000050	U

Notes:

Shaded areas identify constituents where the reporting limit and/or method detection limit exceed the shaded screening level.

**Bolded** values exceed the lowest SL for that analyte  
Oregon DEQ Risk-Based Concentrations (RBCs) obtained from table of Risk-Based Concentrations for Individual Chemicals (DEQ 2023) for the Groundwater in Excavation (RBC<sub>we</sub>), Construction & Excavation Worker receptor scenario.

>S = This groundwater RBC exceeds the solubility limit. Groundwater concentrations in excess of S indicate that free product may be present.

EPA MCL or RSL = EPA Maximum Contaminant Level (MCL) or Regional Screening Level (RSL) (EPA 2024). MCLs are provided if available; otherwise, the tap water EPA RSL is provided.

\* = location of duplicate sample, higher concentration shown

PAH = polycyclic aromatic hydrocarbon

U = not detected above the value shown

UJ = estimated non-detect

J = result is an estimate

J+ = result is an estimate, biased high

J- = result is an estimate, biased low

Table 8. Groundwater Sampling Results for PAHs

Sample ID	Sample Date	Units	benzo(a)anthracene					benzo(a)pyrene				
			MDL	RDL	Res. Sign	Result	Qualifier	MDL	RDL	Res. Sign	Result	Qualifier
<b>Analytical Method</b>			USEPA 8270C-SIM					USEPA 8270C-SIM				
<b>DEQ RBC - GW in Excavation</b>			>S					>S				
<b>EPA MCL or RSL</b>			0.00003					0.0002				
BLS-MW-2*	01/31/2025	mg/L	0.0000203	0.00005		0.0000277	U	0.0000184	0.00005	<	0.0000184	U
BLS-MW-3	01/31/2025	mg/L	0.0000203	0.00005		0.0000239	J+	0.0000184	0.00005	<	0.0000184	U
BLS-MW-4	01/31/2025	mg/L	0.0000203	0.00005		0.0000213	J+	0.0000184	0.00005	<	0.0000184	U
BLS-MW-5	02/01/2025	mg/L	0.0000203	0.00005	<	0.0000203	U	0.0000184	0.00005	<	0.0000184	U
BLS-MW-6	02/01/2025	mg/L	0.0000203	0.00005		0.0000227	J+	0.0000184	0.00005	<	0.0000184	U

Notes:

Shaded areas identify constituents where the reporting limit and/or method detection limit exceed the shaded screening level.

**Bolded** values exceed the lowest SL for that analyte  
Oregon DEQ Risk-Based Concentrations (RBCs) obtained from table of Risk-Based Concentrations for Individual Chemicals (DEQ 2023) for the Groundwater in Excavation (RBC<sub>we</sub>), Construction & Excavation Worker receptor scenario.

>S = This groundwater RBC exceeds the solubility limit. Groundwater concentrations in excess of S indicate that free product may be present.

EPA MCL or RSL = EPA Maximum Contaminant Level (MCL) or Regional Screening Level (RSL) (EPA 2024). MCLs are provided if available; otherwise, the tap water EPA RSL is provided.

\* = location of duplicate sample, higher concentration shown

PAH = polycyclic aromatic hydrocarbon

U = not detected above the value shown

UJ = estimated non-detect

J = result is an estimate

J+ = result is an estimate, biased high

J- = result is an estimate, biased low

Table 8. Groundwater Sampling Results for PAHs

Sample ID	Sample Date	Units	benzo(b)fluoranthene					benzo(k)fluoranthene				
			MDL	RDL	Res. Sign	Result	Qualifier	MDL	RDL	Res. Sign	Result	Qualifier
<b>Analytical Method</b>			USEPA 8270C-SIM					USEPA 8270C-SIM				
<b>DEQ RBC - GW in Excavation</b>			>S					>S				
<b>EPA MCL or RSL</b>			0.00025					0.0025				
BLS-MW-2*	01/31/2025	mg/L	0.0000168	0.00005	<	0.0000500	U	0.0000202	0.00005	<	0.0000202	U
BLS-MW-3	01/31/2025	mg/L	0.0000168	0.00005	<	0.0000168	U	0.0000202	0.00005	<	0.0000202	U
BLS-MW-4	01/31/2025	mg/L	0.0000168	0.00005	<	0.0000168	U	0.0000202	0.00005	<	0.0000202	U
BLS-MW-5	02/01/2025	mg/L	0.0000168	0.00005	<	0.0000168	U	0.0000202	0.00005	<	0.0000202	U
BLS-MW-6	02/01/2025	mg/L	0.0000168	0.00005	<	0.0000168	U	0.0000202	0.00005	<	0.0000202	U

Notes:

Shaded areas identify constituents where the reporting limit and/or method detection limit exceed the shaded screening level.

**Bolded** values exceed the lowest SL for that analyte  
 Oregon DEQ Risk-Based Concentrations (RBCs) obtained from table of Risk-Based Concentrations for Individual Chemicals (DEQ 2023) for the Groundwater in Excavation (RBC<sub>we</sub>), Construction & Excavation Worker receptor scenario.

>S = This groundwater RBC exceeds the solubility limit. Groundwater concentrations in excess of S indicate that free product may be present.

EPA MCL or RSL = EPA Maximum Contaminant Level (MCL) or Regional Screening Level (RSL) (EPA 2024). MCLs are provided if available; otherwise, the tap water EPA RSL is provided.

\* = location of duplicate sample, higher concentration shown

PAH = polycyclic aromatic hydrocarbon

U = not detected above the value shown

UJ = estimated non-detect

J = result is an estimate

J+ = result is an estimate, biased high

J- = result is an estimate, biased low

Table 8. Groundwater Sampling Results for PAHs

Sample ID	Sample Date	Units	chrysene					dibenz(a,h)anthracene				
			MDL	RDL	Res. Sign	Result	Qualifier	MDL	RDL	Res. Sign	Result	Qualifier
<b>Analytical Method</b>			USEPA 8270C-SIM					USEPA 8270C-SIM				
<b>DEQ RBC - GW in Excavation</b>			>S					>S				
<b>EPA MCL or RSL</b>			0.025					0.000025				
BLS-MW-2*	01/31/2025	mg/L	0.0000179	0.00005		0.00005	U	0.000016	0.00005		0.000050	U
BLS-MW-3	01/31/2025	mg/L	0.0000179	0.00005		0.00005	U	0.000016	0.00005	<	0.000016	U
BLS-MW-4	01/31/2025	mg/L	0.0000179	0.00005		0.00005	U	0.000016	0.00005	<	0.000016	U
BLS-MW-5	02/01/2025	mg/L	0.0000179	0.00005		0.00005	U	0.000016	0.00005	<	0.000016	U
BLS-MW-6	02/01/2025	mg/L	0.0000179	0.00005		0.00005	U	0.000016	0.00005	<	0.000016	U

Notes:

Shaded areas identify constituents where the reporting limit and/or method detection limit exceed the shaded screening level.

**Bolded** values exceed the lowest SL for that analyte  
Oregon DEQ Risk-Based Concentrations (RBCs) obtained from table of Risk-Based Concentrations for Individual Chemicals (DEQ 2023) for the Groundwater in Excavation (RBC<sub>we</sub>), Construction & Excavation Worker receptor scenario.

>S = This groundwater RBC exceeds the solubility limit. Groundwater concentrations in excess of S indicate that free product may be present.

EPA MCL or RSL = EPA Maximum Contaminant Level (MCL) or Regional Screening Level (RSL) (EPA 2024). MCLs are provided if available; otherwise, the tap water EPA RSL is provided.

\* = location of duplicate sample, higher concentration shown

PAH = polycyclic aromatic hydrocarbon

U = not detected above the value shown

UJ = estimated non-detect

J = result is an estimate

J+ = result is an estimate, biased high

J- = result is an estimate, biased low

Table 8. Groundwater Sampling Results for PAHs

Sample ID	Sample Date	Units	fluoranthene					fluorene				
			MDL	RDL	Res. Sign	Result	Qualifier	MDL	RDL	Res. Sign	Result	Qualifier
<b>Analytical Method</b>			USEPA 8270C-SIM					USEPA 8270C-SIM				
<b>DEQ RBC - GW in Excavation</b>			>S					>S				
<b>EPA MCL or RSL</b>			0.8					0.29				
BLS-MW-2*	01/31/2025	mg/L	0.000027	0.0001		0.000100	U	0.0000169	0.00005		0.000434	
BLS-MW-3	01/31/2025	mg/L	0.000027	0.0001	<	0.000027	U	0.0000169	0.00005		0.000143	
BLS-MW-4	01/31/2025	mg/L	0.000027	0.0001	<	0.000027	U	0.0000169	0.00005	<	0.0000169	U
BLS-MW-5	02/01/2025	mg/L	0.000027	0.0001	<	0.000027	U	0.0000169	0.00005	<	0.0000169	U
BLS-MW-6	02/01/2025	mg/L	0.000027	0.0001	<	0.000027	U	0.0000169	0.00005		0.000207	

Notes:

Shaded areas identify constituents where the reporting limit and/or method detection limit exceed the shaded screening level.

**Bolded** values exceed the lowest SL for that analyte  
 Oregon DEQ Risk-Based Concentrations (RBCs) obtained from table of Risk-Based Concentrations for Individual Chemicals (DEQ 2023) for the Groundwater in Excavation (RBC<sub>we</sub>), Construction & Excavation Worker receptor scenario.

>S = This groundwater RBC exceeds the solubility limit. Groundwater concentrations in excess of S indicate that free product may be present.

EPA MCL or RSL = EPA Maximum Contaminant Level (MCL) or Regional Screening Level (RSL) (EPA 2024). MCLs are provided if available; otherwise, the tap water EPA RSL is provided.

\* = location of duplicate sample, higher concentration shown

PAH = polycyclic aromatic hydrocarbon

U = not detected above the value shown

UJ = estimated non-detect

J = result is an estimate

J+ = result is an estimate, biased high

J- = result is an estimate, biased low

Table 8. Groundwater Sampling Results for PAHs

Sample ID	Sample Date	Units	indeno(1,2,3-cd)pyrene					naphthalene				
			MDL	RDL	Res. Sign	Result	Qualifier	MDL	RDL	Res. Sign	Result	Qualifier
<b>Analytical Method</b>			USEPA 8270C-SIM					USEPA 8270C-SIM				
<b>DEQ RBC - GW in Excavation</b>			>S					0.5				
<b>EPA MCL or RSL</b>			0.00025					<b>0.00012</b>				
BLS-MW-2*	01/31/2025	mg/L	0.0000158	0.00005		0.00005	U	0.000917	0.0025		<b>0.122</b>	J-
BLS-MW-3	01/31/2025	mg/L	0.0000158	0.00005		0.00005	U	0.0000917	0.00025	<	0.0000917	UJ
BLS-MW-4	01/31/2025	mg/L	0.0000158	0.00005		0.00005	U	0.0000917	0.00025	<	0.0000917	UJ
BLS-MW-5	02/01/2025	mg/L	0.0000158	0.00005	<	0.0000158	U	0.0000917	0.00025	<	0.0000917	UJ
BLS-MW-6	02/01/2025	mg/L	0.0000158	0.00005	<	0.0000158	U	0.000917	0.0025		<b>0.106</b>	J-

Notes:

Shaded areas identify constituents where the reporting limit and/or method detection limit exceed the shaded screening level.

**Bolded** values exceed the lowest SL for that analyte  
Oregon DEQ Risk-Based Concentrations (RBCs) obtained from table of Risk-Based Concentrations for Individual Chemicals (DEQ 2023) for the Groundwater in Excavation (RBC<sub>we</sub>), Construction & Excavation Worker receptor scenario.

>S = This groundwater RBC exceeds the solubility limit. Groundwater concentrations in excess of S indicate that free product may be present.

EPA MCL or RSL = EPA Maximum Contaminant Level (MCL) or Regional Screening Level (RSL) (EPA 2024). MCLs are provided if available; otherwise, the tap water EPA RSL is provided.

\* = location of duplicate sample, higher concentration shown

PAH = polycyclic aromatic hydrocarbon

U = not detected above the value shown

UJ = estimated non-detect

J = result is an estimate

J+ = result is an estimate, biased high

J- = result is an estimate, biased low

Table 8. Groundwater Sampling Results for PAHs

Sample ID	Sample Date	Units	pyrene				
<b>Analytical Method</b>			USEPA 8270C-SIM				
<b>DEQ RBC - GW in Excavation</b>			>S				
<b>EPA MCL or RSL</b>			0.12				
			MDL	RDL	Res. Sign	Result	Qualifier
BLS-MW-2*	01/31/2025	mg/L	0.0000169	0.00005		0.00005	U
BLS-MW-3	01/31/2025	mg/L	0.0000169	0.00005		0.00005	U
BLS-MW-4	01/31/2025	mg/L	0.0000169	0.00005		0.00005	U
BLS-MW-5	02/01/2025	mg/L	0.0000169	0.00005		0.00005	U
BLS-MW-6	02/01/2025	mg/L	0.0000169	0.00005		0.00005	U

Notes:

Shaded areas identify constituents where the reporting limit and/or method detection limit exceed the shaded screening level.

**Bolded** values exceed the lowest SL for that analyte  
 Oregon DEQ Risk-Based Concentrations (RBCs) obtained from table of Risk-Based Concentrations for Individual Chemicals (DEQ 2023) for the Groundwater in Excavation (RBC<sub>we</sub>), Construction & Excavation Worker receptor scenario.

>S = This groundwater RBC exceeds the solubility limit. Groundwater concentrations in excess of S indicate that free product may be present.

EPA MCL or RSL = EPA Maximum Contaminant Level (MCL) or Regional Screening Level (RSL) (EPA 2024). MCLs are provided if available; otherwise, the tap water EPA RSL is provided.

\* = location of duplicate sample, higher concentration shown

PAH = polycyclic aromatic hydrocarbon

U = not detected above the value shown

UJ = estimated non-detect

J = result is an estimate

J+ = result is an estimate, biased high

J- = result is an estimate, biased low

Table 9. Soil Vapor Sample Results for VOCs

Sample ID	Sample Date	Units	TPH-GRO			BENZENE		
			MDL	RL	Result	MDL	RL	Result
<b>DEQ Residential Soil Vapor RBC</b>			<b>10,000</b>			12.0		
<b>DEQ Commercial Soil Vapor RBC</b>			<b>40,000</b>			52.0		
<b>EPA Soil Vapor Residential VISL</b>			-			<b>0.36</b>		
<b>EPA Soil Vapor Commercial VISL</b>			-			<b>1.57</b>		
			MDL	RL	Result	MDL	RL	Result
BLS-VP-1*	1/29/2025	µg/m <sup>3</sup>	NA	240	1,900	0.13	0.73	<b>1.1</b>
BLS-VP-2	1/29/2025	µg/m <sup>3</sup>	NA	810	7,400	0.45	2.5	<b>2.30</b> J
BLS-VP-3	1/29/2025	µg/m <sup>3</sup>	NA	470	<b>11,000</b>	0.26	1.5	0.26 U
BLS-VP-4	1/29/2025	µg/m <sup>3</sup>	NA	280	6,100	0.16	0.88	<b>0.39</b> J
BLS-VP-5	1/29/2025	µg/m <sup>3</sup>	NA	5,800	<b>650,000</b>	4.5	46.0	4.50 U

Notes:

µg/m<sup>3</sup> = micrograms per cubic meter

VOCs = volatile organic compounds

DEQ RBC = Oregon DEQ Risk-Based Concentration for Residential and Commercial Vapor Intrusion (RBC<sub>sv</sub>) (DEQ 2024).

US Environmental Protection Agency (EPA) Residential & Commercial Vapor Intrusion Screening Level (VISL) (TR=1E-06, HQ=1) (EPA 2024b). Carcinogenic SL used for benzene, ethylbenzene, EDB, EDC, MTBE, and naphthalene. Carcinogenic SL is not calculated for toluene, total xylenes, isopropylbenzene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene; therefore, noncarcinogenic SL is used.

Shaded areas identify constituents where the reporting limit and/or method detection limit exceed the shaded screening level.

MDL values are instrument specific and may vary slightly at the time of analysis.

NA = not applicable. An MDL is not maintained for Total Xylenes because it is calculated by summing the individual concentrations of m,p-xylene and o-xylene.

\* = location of replicate sample; higher concentration shown

U = not detected above the value shown

J = concentration is estimated

J+ = concentration is estimated, biased high

Table 9. Soil Vapor Sample Results for VOCs

Sample ID	Sample Date	Units	TOLUENE				ETHYLBENZENE				XYLENES, TOTAL			
<b>DEQ Residential Soil Vapor RBC</b>			170,000				37				3,500			
<b>DEQ Commercial Soil Vapor RBC</b>			730,000				160				15,000			
<b>EPA Soil Vapor Residential VISL</b>			5,210				1.1				104			
<b>EPA Soil Vapor Commercial VISL</b>			21,900				4.91				438			
			MDL	RL	Result		MDL	RL	Result		MDL	RL	Result	
BLS-VP-1*	1/29/2025	µg/m <sup>3</sup>	0.48	4.3	3.3	J	0.028	1.0	0.67	J+	NA	7.5	7.5	U
BLS-VP-2	1/29/2025	µg/m <sup>3</sup>	1.60	15.0	19		0.096	3.4	2.9	J+	NA	26.0	26.0	U
BLS-VP-3	1/29/2025	µg/m <sup>3</sup>	0.95	8.7	1.5	J	0.056	2.0	0.39	J+	NA	15.0	15.0	U
BLS-VP-4	1/29/2025	µg/m <sup>3</sup>	0.57	5.2	2.7	J	0.033	1.2	0.85	J+	NA	9.0	9.0	U
BLS-VP-5	1/29/2025	µg/m <sup>3</sup>	7.3	54.0	12	J	8.0	62.0	8.0	U	NA	120	120	U

Notes:

µg/m<sup>3</sup> = micrograms per cubic meter

VOCs = volatile organic compounds

DEQ RBC = Oregon DEQ Risk-Based Concentration for Residential and Commercial Vapor Intrusion (RBC<sub>sv</sub>) (DEQ 2024).

US Environmental Protection Agency (EPA) Residential & Commercial Vapor Intrusion Screening Level (VISL) (TR=1E-06, HQ=1) (EPA 2024b). Carcinogenic SL used for benzene, ethylbenzene, EDB, EDC, MTBE, and naphthalene. Carcinogenic SL is not calculated for toluene, total xylenes, isopropylbenzene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene; therefore, noncarcinogenic SL is used.

Shaded areas identify constituents where the reporting limit and/or method detection limit exceed the shaded screening level.

MDL values are instrument specific and may vary slightly at the time of analysis.

NA = not applicable. An MDL is not maintained for Total Xylenes because it is calculated by summing the individual concentrations of m,p-xylene and o-xylene.

\* = location of replicate sample; higher concentration shown

U = not detected above the value shown

J = concentration is estimated

J+ = concentration is estimated, biased high

Table 9. Soil Vapor Sample Results for VOCs

Sample ID	Sample Date	Units	NAPHTHALENE				1,2-DIBROMOETHANE (EDB)				1,2-DICHLOROETHANE (EDC)			
			MDL	RL	Result	U	MDL	RL	Result	U	MDL	RL	Result	U
<b>DEQ Residential Soil Vapor RBC</b>			2.8				0.16				3.6			
<b>DEQ Commercial Soil Vapor RBC</b>			12				0.68				16			
<b>EPA Soil Vapor Residential VISL</b>			0.1				0.00468				0.1			
<b>EPA Soil Vapor Commercial VISL</b>			0.3610				0.0204				0.472			
			MDL	RL	Result	U	MDL	RL	Result	U	MDL	RL	Result	U
BLS-VP-1*	1/29/2025	µg/m <sup>3</sup>	0.073	1.2	0.073	U	0.011	0.18	0.011	U	0.012	0.46	0.075	J
BLS-VP-2	1/29/2025	µg/m <sup>3</sup>	0.25	4.1	0.25	U	0.038	0.61	0.038	U	0.042	1.6	0.042	U
BLS-VP-3	1/29/2025	µg/m <sup>3</sup>	0.14	2.4	0.14	U	0.022	0.35	0.022	U	0.024	0.93	0.024	U
BLS-VP-4	1/29/2025	µg/m <sup>3</sup>	0.088	1.4	0.088	U	0.013	0.21	0.013	U	0.015	0.56	0.015	U
BLS-VP-5	1/29/2025	µg/m <sup>3</sup>	18.0	300	18	U	18.0	110	18	U	17.0	58	17	U

Notes:

µg/m<sup>3</sup> = micrograms per cubic meter

VOCs = volatile organic compounds

DEQ RBC = Oregon DEQ Risk-Based Concentration for Residential and Commercial Vapor Intrusion (RBC<sub>sv</sub>) (DEQ 2024).

US Environmental Protection Agency (EPA) Residential & Commercial Vapor Intrusion Screening Level (VISL) (TR=1E-06, HQ=1) (EPA 2024b). Carcinogenic SL used for benzene, ethylbenzene, EDB, EDC, MTBE, and naphthalene. Carcinogenic SL is not calculated for toluene, total xylenes, isopropylbenzene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene; therefore, noncarcinogenic SL is used.

Shaded areas identify constituents where the reporting limit and/or method detection limit exceed the shaded screening level.

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\* = location of replicate sample; higher concentration shown

U = not detected above the value shown

J = concentration is estimated

J+ = concentration is estimated, biased high

Table 9. Soil Vapor Sample Results for VOCs

Sample ID	Sample Date	Units	ISO-PROPYLBENZENE (CUMENE)				1,2,4-TRIMETHYLBENZENE				1,3,5-TRIMETHYLBENZENE			
			MDL	RL	Result	U	MDL	RL	Result	U	MDL	RL	Result	U
<b>DEQ Residential Soil Vapor RBC</b>			14,000				2,100				2,100			
<b>DEQ Commercial Soil Vapor RBC</b>			58,000				8,800				8,800			
<b>EPA Soil Vapor Residential VISL</b>			417				62.6				62.6			
<b>EPA Soil Vapor Commercial VISL</b>			1,750				263				263			
			MDL	RL	Result	U	MDL	RL	Result	U	MDL	RL	Result	U
BLS-VP-1*	1/29/2025	µg/m <sup>3</sup>	1.2	2.8	1.2	U	1.4	2.8	1.4	U	1.2	2.8	1.2	U
BLS-VP-2	1/29/2025	µg/m <sup>3</sup>	4.3	9.7	4.3	U	4.8	9.7	4.8	U	4.1	9.7	4.1	U
BLS-VP-3	1/29/2025	µg/m <sup>3</sup>	2.5	5.6	2.5	U	2.8	5.6	2.8	U	2.4	5.6	2.4	U
BLS-VP-4	1/29/2025	µg/m <sup>3</sup>	1.5	3.4	1.5	U	1.7	3.4	1.7	U	1.4	3.4	1.4	U
BLS-VP-5	1/29/2025	µg/m <sup>3</sup>	4.0	70	20	J	8.3	70	8.3	U	11.0	70	11.0	U

Notes:

µg/m<sup>3</sup> = micrograms per cubic meter

VOCs = volatile organic compounds

DEQ RBC = Oregon DEQ Risk-Based Concentration for Residential and Commercial Vapor Intrusion (RBC<sub>sv</sub>) (DEQ 2024).

US Environmental Protection Agency (EPA) Residential & Commercial Vapor Intrusion Screening Level (VISL) (TR=1E-06, HQ=1) (EPA 2024b). Carcinogenic SL used for benzene, ethylbenzene, EDB, EDC, MTBE, and naphthalene. Carcinogenic SL is not calculated for toluene, total xylenes, isopropylbenzene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene; therefore, noncarcinogenic SL is used.

Shaded areas identify constituents where the reporting limit and/or method detection limit exceed the shaded screening level.

MDL values are instrument specific and may vary slightly at the time of analysis.

NA = not applicable. An MDL is not maintained for Total Xylenes because it is calculated by summing the individual concentrations of m,p-xylene and o-xylene.

\* = location of replicate sample; higher concentration shown

U = not detected above the value shown

J = concentration is estimated

J+ = concentration is estimated, biased high

Table 9. Soil Vapor Sample Results for VOCs

Sample ID	Sample Date	Units	METHYL TERT-BUTYL ETHER (MTBE)			
			MDL	RL	Result	
<b>DEQ Residential Soil Vapor RBC</b>			360			
<b>DEQ Commercial Soil Vapor RBC</b>			1,600			
<b>EPA Soil Vapor Residential VISL</b>			10.8			
<b>EPA Soil Vapor Commercial VISL</b>			47.2			
			MDL	RL	Result	
BLS-VP-1*	1/29/2025	µg/m <sup>3</sup>	1.2	8.3	1.2	U
BLS-VP-2	1/29/2025	µg/m <sup>3</sup>	4.1	28	4.1	U
BLS-VP-3	1/29/2025	µg/m <sup>3</sup>	2.4	16	2.4	U
BLS-VP-4	1/29/2025	µg/m <sup>3</sup>	1.4	10	1.4	U
BLS-VP-5	1/29/2025	µg/m <sup>3</sup>	9.9	52	9.9	U

Notes:

µg/m<sup>3</sup> = micrograms per cubic meter

VOCs = volatile organic compounds

DEQ RBC = Oregon DEQ Risk-Based Concentration for Residential and Commercial Vapor Intrusion (RBC<sub>sv</sub>) (DEQ 2024).

US Environmental Protection Agency (EPA) Residential & Commercial Vapor Intrusion Screening Level (VISL) (TR=1E-06, HQ=1) (EPA 2024b). Carcinogenic SL used for benzene, ethylbenzene, EDB, EDC, MTBE, and naphthalene. Carcinogenic SL is not calculated for toluene, total xylenes, isopropylbenzene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene; therefore, noncarcinogenic SL is used.

Shaded areas identify constituents where the reporting limit and/or method detection limit exceed the shaded screening level.

MDL values are instrument specific and may vary slightly at the time of analysis.

NA = not applicable. An MDL is not maintained for Total Xylenes because it is calculated by summing the individual concentrations of m,p-xylene and o-xylene.

\* = location of replicate sample; higher concentration shown

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J = concentration is estimated

J+ = concentration is estimated, biased high

## **Appendix E – Lab Reports**

## **Appendix F – Hazardous Building Materials Survey Report**

# Comprehensive Pre-Demolition Hazardous Materials Survey Report

Abandoned Gas Station  
1021 & 1037 Baseline Street  
Cornelius, OR 97113

Prepared for:

Eastern Research Group

General Information	1.1
Inspection Summary	1.2
Sample Inventories	2.1
Laboratory Data	Not Numbered
AHERA Certificates	Not Numbered



**February 2025**

**Project No.: 24012934**

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## GENERAL INFORMATION

### BUILDING DATA

Abandoned Gas Station  
1021 & 1037 Baseline Street  
Cornelius, OR 97113

### CLIENT DATA

Eastern Research Group  
561 Virginia Road Suite 300, Bldg 4  
Concord, MA 01742

## BACKGROUND INFORMATION

### SURVEY SCOPE

PBS Engineering and Environmental LLC (PBS) has performed a general asbestos survey of accessible property areas in accordance with OSHA in 29 CFR 1910.1001 and compiled a report with the following information:

- The type, location, and approximate quantity of suspect asbestos-containing materials
- Bulk sampling of selected suspect building materials
- Lead paint sampling
- Suspect polychlorinated biphenyl (PCB) light ballast inspection
- Inspection summary
- Laboratory analytical data of bulk material sampled

With regard to asbestos, PBS endeavored to locate all the suspect asbestos-containing materials on the property; however, suspect asbestos-containing materials may be present and concealed within wall, ceiling, or floor spaces. If suspect materials are uncovered during demolition activities that are not identified in this report, testing should be performed prior to impact.

PBS has conducted a physical inspection of structures on the property, compiled this report consistent with the survey scope, and certifies that the information is correct and accurate within the standards of professional quality and contractual obligations.

Carson Linklater  
Project Manager  
Accreditation #: IN-219622B

Sean Grabiner  
Prime Inspector  
Accreditation #: IRO-22-4508B

 2/11/25

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Signature

Date

---

Signature

Date

**INSPECTION SUMMARY**

<b>DATES</b>	<b>SURVEYED BY</b>	<b>ACTIVITY</b>
1/28/2025	Sean Grabiner	Begin Survey
1/30/2025	Sean Grabiner	End Survey

PBS has investigated accessible areas inside of the building(s) to locate suspect asbestos-containing building materials (ACBM). Suspect materials may be present in concealed areas (e.g., behind walls and under carpet). The findings are listed below.

**ASBESTOS MATERIALS**

The following materials either tested positive, or, based on the experience of PBS field personnel, were not tested and should be considered asbestos-containing. Materials that had mixed results are considered positive. Materials not sampled may contain asbestos and should be tested to verify asbestos content prior to impact through demolition, renovation, etc.  
 (+) Tested Positive, (M) Mixed Results, (P) Presumed Positive, (T) Previously Tested Positive.

See sample inventory for specific results.

<b>Results</b>	<b>Material Description</b>	<b>Location</b>	<b>Details</b>
(+) 3%	Black Sealant on Metal Roof Panels	Attendant's Structure; Roof	20 LF  Friable Good Response Action: Abate prior to demolition.
(P) N/A	White Caulking on Structural Steel Posts	Main Canopy; Roof	30 LF  Friable Good Response Action: Abate prior to demolition.

## INSPECTION SUMMARY

### MATERIALS THAT TESTED NEGATIVE FOR ASBESTOS

The following materials tested negative based on ASHARA sampling minimums and testing by NVLAP participating laboratories. Although no asbestos was detected, it is possible that further sampling could indicate asbestos content. It may be prudent to test prior to impact through demolition, renovation, etc.

<u>Material (type)</u>	<u>Location</u>
Black Duct Insulation	Attendant's Structure; Interior
Gray/White Cementitious Material on Electrical Outlet	Attendant's Structure; Interior
Pink Cementitious Material	Exterior of Restroom Structure
Yellow Batt Insulation and Associated Paper Backing	Restroom Structure; Interior
White, Flexible Perimeter Door Caulking	Restroom Structure; Entrance to Office/Storage
Thick Multicolored Paint on Metal Wall Panel	Exterior of Attendant's Structure
Thick Multicolored Paint on Metal Wall Panel	Exterior of Restroom Structure
Tan, Crumbly Caulk on HVAC Unit	Attendant's Structure; Roof
White, Flexible Caulking on Conduit Penetration	Restroom Structure; Roof
White Rubbery Sealant on Pipe Thread	Under Canopy; Inside Gas Pump Housing
Black, Flexible Gasket Material	Under Canopy; Inside Gas Pump Housing

## INSPECTION SUMMARY

### BACKGROUND

Between January 28 and 30, 2025, PBS Engineering and Environmental LLC (PBS) performed a pre-demolition hazardous materials survey of several structures on a property located at 1021 and 1037 Baseline Street in Cornelius, Oregon. The survey was requested by Eastern Research Group in anticipation of demolition.

The purpose of the survey was to locate, identify, and quantify accessible friable and non-friable hazardous building materials for removal prior to demolition.

The survey is also intended to satisfy Occupational Safety and Health Administration (OSHA) hazard communication requirements as well as requirements by the Department of Environmental Quality (DEQ) to perform an asbestos inspection prior to renovation or demolition activities under Oregon Administrative Rule (OAR) 340-248-0270.

### ASBESTOS SUMMARY

The property was inspected by a PBS Asbestos Hazard Emergency Response Act (AHERA) accredited inspector to determine the presence, location, and approximate quantity of asbestos-containing materials (ACM). Thirteen bulk samples of building materials, suspected of containing asbestos, were collected and submitted under chain of custody to Lab/Cor Portland Inc. of Portland, Oregon, for polarized light microscopy (PLM) analysis. The following materials were found to contain asbestos:

- Asbestos-containing black sealant exists on top of the attendant's station, underneath the main canopy. The material is along the seams of the structure's metal roof panels.
- White caulking was observed on the main canopy roof. PBS was unable to safely access the material to sample, it is presumed to contain asbestos. The material exists around the base of structural steel posts. Six such posts were observed.

At the time of this survey, all asbestos-containing building materials were observed to be in good condition.

Please refer to the asbestos bulk sample inventory for more sample details.

### Asbestos Regulations

DEQ, Environmental Protection Agency (EPA), and OSHA regulations require proper removal and handling of ACM by licensed and trained asbestos abatement contractors prior to building renovations or demolition.

EPA, DEQ, and OSHA all define ACM as any material containing more than 1% asbestos. Although materials equal to or less than 1% are not considered by regulatory agencies to be an ACM, they still have some asbestos content, and Oregon OSHA has specific requirements for situations in which workers may encounter, disturb, or remove materials containing any level of asbestos. For the sake of hazard communication, these materials are included in the asbestos-containing materials section of this report.

In 1995, Oregon OSHA adopted 29 Code of Federal Regulations (CFR) Part 1926.1101 governing asbestos under OAR 437-003-1926.1101. The regulation has made significant changes in work procedures and how asbestos materials are managed. OSHA believes that the single biggest risk of asbestos exposure is to workers who

## **INSPECTION SUMMARY**

unknowingly or improperly disturb ACM. Hazard communication, training, personal protection, work practices, exposure monitoring, and recordkeeping are all major components of the regulation.

DEQ's OAR 340, Division 248 also covers asbestos abatement requirements, removal notifications, licensing, and certifications for contractors.

For more information regarding the removal of asbestos-containing materials, please refer to the following:

1. Oregon Occupational Safety and Health Administration, OAR 437-003-1926.1101
2. Department of Environmental Quality, OAR-340, Division 248

## **INSPECTION SUMMARY**

### **LEAD-BASED PAINT**

#### **LEAD SUMMARY**

Paint was sampled for lead content for the sake of hazard identification and communication.

Seven paint chip samples were collected from representative building components from various locations and submitted under chain of custody to RJ Lee Group of Monroeville, Pennsylvania, for analysis of lead content via flame atomic absorption (FLAA). The concentration of lead in the samples ranges from <12.1 parts per million (ppm) to 26.9 ppm.

See the lead sample inventory section for representative building components and corresponding results.

Paint testing for this survey was limited in scope. The report information and testing results are not to be construed as an exhaustive investigation of lead-containing paint on all building surfaces. All paint on painted surfaces not identified in this report should be presumed to contain lead.

#### **Lead-Containing Paint Regulations**

The Consumer Product Safety Commission limit for lead in consumer paint products is 0.009% or 90 parts per million (ppm) or greater. The Department of Housing and Urban Development (HUD) and the EPA define lead-based paint as that which contains 0.5% or 5,000 ppm. Under OSHA, any lead concentration in paint that may become airborne during construction operations triggers requirements in the OSHA Lead in Construction Standard 29 CFR 1926.62 to protect employees impacting the paint.

In 1993, Oregon OSHA adopted the federal OSHA Lead Standard for the Construction Industry Title 29 CFR 1926.62 under Oregon Administrative Rule 437 Division 3 1926.62. This standard outlines worker exposure limits, personal protection requirements, and employer responsibility for exposure assessment, training, housekeeping, and recordkeeping. OSHA's lead standard applies to all work where employees may be exposed to lead in construction, alteration, or repair activities. This includes demolition or renovation of structures where lead-containing materials are present.

#### ***Disposal***

According to DEQ's *Hazardous Waste/Toxics Reduction Policy Clarification*, disposal of building demolition waste coated with lead-based paint generally will not require a hazardous waste determination (i.e., Toxicity Characteristic Leaching Procedures [TCLP] testing) if demolition debris is disposed of at a DEQ-permitted solid waste landfill that meets the current design standards for municipal solid waste disposal facilities of 40 CFR Part 258.

Refer to the DEQ hazardous waste reduction policy and follow all requirements under the DEQ, Management of Building Demolition Waste, 97-002A for proper disposal of lead-based painted demolition waste.

## **INSPECTION SUMMARY**

### **PCB/MERCURY VAPOR TUBES**

#### **Polychlorinated Biphenyls (PCBs)/Mercury Investigation**

PBS conducted a visual inspection of the property for suspect PCB lamp ballasts, mercury-containing fluorescent lamp tubes, and mercury-containing thermostat switches. PBS observed four 4-foot fluorescent light tubes, all four of which were in the restroom structure. A light fixture was noted inside of the attendant's structure, but no bulbs were present. The fixture had been damaged in a fire, but no debris related to fluorescent bulbs was observed. Additionally, a damaged light ballast remained in the fixture, but all labelling had been destroyed. Without additional information, this ballast should be considered PCB containing, and the fixture itself should be considered PCB-contaminated. PBS also observed twenty-nine High Intensity Discharge (HID) light bulbs presumed to contain mercury under and on top of the main canopy. This investigation was a visual assessment only; no samples were collected.

#### **Mercury-Containing Compact Fluorescent Light Tubes/Switches Regulatory Issues**

All mercury-containing compact fluorescent light bulbs and switches should be carefully handled, packaged, and recycled or disposed of in the appropriate manner.

Please refer to the following documents for requirements for removal and disposal of mercury-containing waste:

- US Environmental Protection Agency Toxic Substance Control Act (Code of Federal Regulations Title 40, Part 761).
- Resource Conservation and Recovery Act, 40 CFR Part 2761, Subpart D., 40 CFR 273.

This report is not suitable as a bid document or an asbestos abatement design. The purpose of this report is risk hazard communication only.

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>
24012934-0001	Insulation	Attendant's structure; inside duct; black insulation		Eurofins LabCor PDX
		<b>Layer:</b> Layer 1	<b>Description:</b> Black Insulation	<b>Analysis:</b> No Asbestos Detected
24012934-0002	Hard Material	Attendant's structure; on electrical outlet; gray/white hard material		Eurofins LabCor PDX
		<b>Layer:</b> Layer 1	<b>Description:</b> Silver Non-Fibrous Material	<b>Analysis:</b> No Asbestos Detected
24012934-0003	Material Debris	Exterior of restroom structure; red cementitious debris		Eurofins LabCor PDX
		<b>Layer:</b> Layer 1	<b>Description:</b> Pink Cementitious Material	<b>Analysis:</b> No Asbestos Detected
24012934-0004	Insulation	Restroom structure; behind wall panels; yellow batt insulation with backing paper		Eurofins LabCor PDX
		<b>Layer:</b> Layer 1	<b>Description:</b> Brown Tape	<b>Analysis:</b> No Asbestos Detected
		<b>Layer:</b> Layer 2	<b>Description:</b> Yellow Insulation	<b>Analysis:</b> No Asbestos Detected
24012934-0005	Caulk	Restroom structure; exterior; white, flexible perimeter door caulk		Eurofins LabCor PDX
		<b>Layer:</b> Layer 1	<b>Description:</b> White Caulk with Paint	<b>Analysis:</b> No Asbestos Detected
24012934-0006	Paint	Attendant's structure; exterior; thick paint on metal wall panel		Eurofins LabCor PDX
		<b>Layer:</b> Layer 1	<b>Description:</b> Multicolored Paint	<b>Analysis:</b> No Asbestos Detected
24012934-0007	Paint	Restroom structure; exterior; thick paint on metal wall panel		Eurofins LabCor PDX
		<b>Layer:</b> Layer 1	<b>Description:</b> Multicolored Paint	<b>Analysis:</b> No Asbestos Detected
24012934-0008	Caulk	Attendant's structure; roof; tan, crumbly caulk on HVAC unit		Eurofins LabCor PDX
		<b>Layer:</b> Layer 1	<b>Description:</b> Tan Window Glazing	<b>Analysis:</b> No Asbestos Detected

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>
24012934-0009	Sealant	Attendant's structure; roof; black sealant on metal roof panels		Eurofins LabCor PDX
		<b>Layer:</b> Layer 1	<b>Description:</b> Black Tar	<b>Analysis:</b> 3% Chrysotile
24012934-0010	Caulk	Restroom structure; roof; white, flexible caulking on conduit penetration		Eurofins LabCor PDX
		<b>Layer:</b> Layer 1	<b>Description:</b> Gray/White Caulk	<b>Analysis:</b> No Asbestos Detected
24012934-0011	Pipe Putty	Gas pump; interior; white rubbery sealant on pipe thread		Eurofins LabCor PDX
		<b>Layer:</b> Layer 1	<b>Description:</b> Off-White Sealant	<b>Analysis:</b> No Asbestos Detected
24012934-0012	Gasket	Gas pump; interior; black, flexible gasket material		Eurofins LabCor PDX
		<b>Layer:</b> Layer 1	<b>Description:</b> Brown/Black Non-Fibrous Material	<b>Analysis:</b> No Asbestos Detected
24012934-0013	Gasket	Gas pump; interior; black, flexible gasket material		Eurofins LabCor PDX
		<b>Layer:</b> Layer 1	<b>Description:</b> Brown/Black Non-Fibrous Material	<b>Analysis:</b> No Asbestos Detected

<b><u>Code</u></b>	<b><u>Material</u></b>	<b><u>Analysis</u></b>	<b><u>Location</u></b>	<b><u>Lab</u></b>
<b>PAINT</b>				
LB24012934-1001	Paint	<12.3 ppm	Attendant's structure; exterior; wall, metal, maroon, deteriorated	R.J. Lee Group
LB24012934-1002	Paint	<12.4 ppm	Attendant's structure; interior; doorframe, metal, black, deteriorated	R.J. Lee Group
LB24012934-1003	Paint	<12.1 ppm	Attendant's structure; interior; door, metal, blue/gray, deteriorated	R.J. Lee Group
LB24012934-1004	Paint	<12.5 ppm	Restroom structure; exterior; wall, metal, red, deteriorated	R.J. Lee Group
LB24012934-1005	Paint	26.9 ppm	Restroom structure; interior; shelf, wood, gray, intact	R.J. Lee Group
LB24012934-1006	Paint	<12.3 ppm	Under canopy; pump base, concrete, purple, deteriorated	R.J. Lee Group
LB24012934-0007	Paint	<12.3 ppm	Side of canopy; wall, metal, purple, deteriorated	R.J. Lee Group

Report for:

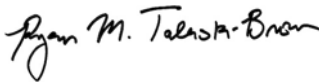
**John Yuly**  
**PBS Engineering and Environmental: Portland**  
4412 S Corbett Ave.  
Portland, OR 97239

---

Regarding: Eurofins Built Environment Testing West, LLC  
Project: 24012934 Phase 0001  
EML ID: 3927564

Approved by:

Dates of Analysis:  
Asbestos PLM: 02-03-2025



Technical Manager  
Ryan Talaski-Brown

Service SOPs: Asbestos PLM (EPA 40CFR App E to Sub E of Part 763 & EPA METHOD 600/R-93-116, SOP EM-AS-S-1267)  
NVLAP Lab Code 200741-0

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All samples were received in acceptable condition unless noted in the Report Comments portion in the body of the report. The results relate only to the samples as received and tested. The results include an inherent uncertainty of measurement associated with estimating percentages by polarized light microscopy. Measurement uncertainty data for sample results with >1% asbestos concentration can be provided when requested.

Eurofins Built Environment Testing West, LLC ("the Company"), a member of the Eurofins Built Environment Testing group of companies, shall have no liability to the client or the client's customer with respect to decisions or recommendations made, actions taken or courses of conduct implemented by either the client or the client's customer as a result of or based upon the Test Results. In no event shall the Company be liable to the client with respect to the Test Results except for the Company's own willful misconduct or gross negligence nor shall the Company be liable for incidental or consequential damages or lost profits or revenues to the fullest extent such liability may be disclaimed by law, even if the Company has been advised of the possibility of such damages, lost profits or lost revenues. In no event shall the Company's liability with respect to the Test Results exceed the amount paid to the Company by the client therefor.

Client: PBS Engineering and Environmental: Portland  
 C/O: John Yuly  
 Re: 24012934 Phase 0001

Date of Submittal: 01-28-2025  
 Date of Receipt: 01-28-2025  
 Date of Report: 02-04-2025

**ASBESTOS PLM REPORT**

<b>Total Samples Submitted:</b>	7
<b>Total Samples Analyzed:</b>	7
<b>Total Samples with Layer Asbestos Content &gt; 1%:</b>	0

**Location: 24012934-0001**

Lab ID-Version‡: 19487040-1

Sample Layers	Asbestos Content
Black Insulation	ND
<b>Composite Non-Asbestos Content:</b>	95% Glass Fibers
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 24012934-0002**

Lab ID-Version‡: 19487041-1

Sample Layers	Asbestos Content
Silver Non-Fibrous Material	ND
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 24012934-0003**

Lab ID-Version‡: 19487042-1

Sample Layers	Asbestos Content
Pink Cementitious Material	ND
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 24012934-0004**

Lab ID-Version‡: 19487043-1

Sample Layers	Asbestos Content
Brown Tape	ND
Yellow Insulation	ND
<b>Composite Non-Asbestos Content:</b>	70% Glass Fibers 10% Cellulose
<b>Sample Composite Homogeneity:</b>	Poor

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All components not quantified as asbestos content and non-asbestos content are considered to be non-fibrous matrix components. Matrix components may include, but are not limited to, gypsum, paint, silicate minerals, vinyl, binder, calcium carbonate, tar, and foam.

Inhomogeneous samples are separated into homogeneous subsamples and analyzed individually. ND means no fibers were detected. When detected, the minimum detection and reporting limit is less than 1% unless point counting is performed. Floor tile samples may contain large amounts of interference material and it is recommended that the sample be analyzed by gravimetric point count analysis to lower the detection limit and to aid in asbestos identification.

‡ A "Version" indicated by "-x" after the Lab ID# with a value greater than 1 indicates a sample with amended data. The revision number is reflected by the value of "x".

Client: PBS Engineering and Environmental: Portland  
 C/O: John Yuly  
 Re: 24012934 Phase 0001

Date of Submittal: 01-28-2025  
 Date of Receipt: 01-28-2025  
 Date of Report: 02-04-2025

**ASBESTOS PLM REPORT**

**Location: 24012934-0005**

Lab ID-Version‡: 19487044-1

Sample Layers	Asbestos Content
White Caulk with Paint	ND
<b>Sample Composite Homogeneity:</b> Poor	

**Location: 24012934-0006**

Lab ID-Version‡: 19487045-1

Sample Layers	Asbestos Content
Multicolored Paint	ND
<b>Sample Composite Homogeneity:</b> Poor	

**Location: 24012934-0007**

Lab ID-Version‡: 19487046-1

Sample Layers	Asbestos Content
Multicolored Paint	ND
<b>Sample Composite Homogeneity:</b> Poor	

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**Eurofins Built Environment Testing West, LLC**  
4321 S. Corbett Ave. Suite A, Portland, OR 97239  
(833) 465-5857 www.eurofinsus.com/Built

Client: PBS Engineering and Environmental: Portland  
C/O: John Yuly  
Re: 24012934 Phase 0001

Date of Submittal: 01-28-2025  
Date of Receipt: 01-28-2025  
Date of Report: 02-04-2025

**ASBESTOS PLM REPORT**

**PROJECT ANALYST AND SIGNATORY REPORT**

---

**Project Analyst**



**Analyst:** Kyle DeBow

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Report for:

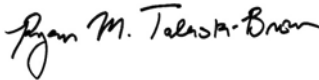
**John Yuly**  
**PBS Engineering and Environmental: Portland**  
4412 S Corbett Ave.  
Portland, OR 97239

---

Regarding: Eurofins Built Environment Testing West, LLC  
Project: 24012934 Phase 0001  
EML ID: 3930408

Approved by:

Dates of Analysis:  
Asbestos PLM: 02-05-2025



Technical Manager  
Ryan Talaski-Brown

Service SOPs: Asbestos PLM (EPA 40CFR App E to Sub E of Part 763 & EPA METHOD 600/R-93-116, SOP EM-AS-S-1267)  
NVLAP Lab Code 200741-0

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Client: PBS Engineering and Environmental: Portland  
 C/O: John Yuly  
 Re: 24012934 Phase 0001

Date of Submittal: 01-30-2025  
 Date of Receipt: 01-31-2025  
 Date of Report: 02-06-2025

**ASBESTOS PLM REPORT**

<b>Total Samples Submitted:</b>	6
<b>Total Samples Analyzed:</b>	6
<b>Total Samples with Layer Asbestos Content &gt; 1%:</b>	1

**Location: 24012934-0008**

Lab ID-Version‡: 19506458-1

Sample Layers	Asbestos Content
Tan Window Glazing	ND
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 24012934-0009**

Lab ID-Version‡: 19506459-1

Sample Layers	Asbestos Content
Black Tar	3% Chrysotile
<b>Sample Composite Homogeneity:</b>	Poor

**Location: 24012934-0010**

Lab ID-Version‡: 19506460-1

Sample Layers	Asbestos Content
Gray/White Caulk	ND
<b>Sample Composite Homogeneity:</b>	Moderate

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Client: PBS Engineering and Environmental: Portland  
 C/O: John Yuly  
 Re: 24012934 Phase 0001

Date of Submittal: 01-30-2025  
 Date of Receipt: 01-31-2025  
 Date of Report: 02-06-2025

**ASBESTOS PLM REPORT**

**Location: 24012934-0011**

Lab ID-Version‡: 19506461-1

Sample Layers	Asbestos Content
Off-White Sealant	ND
<b>Sample Composite Homogeneity:</b> Poor	

**Location: 24012934-0012**

Lab ID-Version‡: 19506462-1

Sample Layers	Asbestos Content
Brown/Black Non-Fibrous Material	ND
<b>Sample Composite Homogeneity:</b> Poor	

**Location: 24012934-0013**

Lab ID-Version‡: 19506463-1

Sample Layers	Asbestos Content
Brown/Black Non-Fibrous Material	ND
<b>Sample Composite Homogeneity:</b> Poor	

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4321 S. Corbett Ave. Suite A, Portland, OR 97239  
(833) 465-5857 www.eurofinsus.com/Built

Client: PBS Engineering and Environmental: Portland  
C/O: John Yuly  
Re: 24012934 Phase 0001

Date of Submittal: 01-30-2025  
Date of Receipt: 01-31-2025  
Date of Report: 02-06-2025

**ASBESTOS PLM REPORT**

**PROJECT ANALYST AND SIGNATORY REPORT**

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**Project Analyst**



**Analyst:** Kyle DeBow

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## LABORATORY REPORT

PBS Engineering & Environmental  
4412 South Corbett Ave  
Portland, OR 97239

Attn: John Yuly  
Phone: 503-248-1939

Email: john.yuly@pbsusa.com

RJ Lee Group Job No.: PA290120250028  
Samples Received: January 29, 2025  
Report Date: February 5, 2025  
Client Project: 24012934 Phase 0001  
Purchase Order No.: N/A  
Matrix: Solid  
Prep/Analysis: EPA 3050B / EPA 6010C-Paint

Client Sample ID	RJ Lee Group ID	Sampling Date	Analyte	Sample Concentration		Minimum Reporting Limit		Analysis Date	Q
				Weight Percent (%)	Parts per Million (PPM) - mg/kg	Weight Percent (%)	Parts per Million (PPM) - mg/kg		
LB24012934-1001	PA290120250028-001	NP	Lead	< 0.00123	< 12.3	0.00123	12.3	01/31/2025	A
LB24012934-1002	PA290120250028-002	NP	Lead	< 0.00124	< 12.4	0.00124	12.4	01/31/2025	A
LB24012934-1003	PA290120250028-003	NP	Lead	< 0.00121	< 12.1	0.00121	12.1	01/31/2025	A
LB24012934-1004	PA290120250028-004	NP	Lead	< 0.00125	< 12.5	0.00125	12.5	01/31/2025	A
LB24012934-1005	PA290120250028-005	NP	Lead	0.00269	26.9	0.00125	12.5	01/31/2025	A
LB24012934-1006	PA290120250028-006	NP	Lead	< 0.00123	< 12.3	0.00123	12.3	01/31/2025	A

Comments:

Report Qualifiers (Q):

**P** : PA-DEP Accredited (PA DEP Lab ID 02-00396, NELAP)  
**N** : NY ELAP Accredited (NY ELAP Lab Code 10884)

**A** : AIHA LAP, LLC Accredited (Lab ID 100364)

— : Test (analyte-matrix-preparation-analysis) is performed under RJLG's General Quality System requirements and is not part to any of the above scopes of accreditations

*E* = Value above highest calibration standard

*J* = Value below lowest calibration standard but above MDL (Method Detection Limit)

*L* = LCS (Laboratory Control Standard)/SRM (Standard Reference Material) recovery outside accepted recovery limits

*H* = Holding times for preparation or analysis exceeded

*B* = Analyte detected in the associated Method Blank

*S* = Spike Recovery outside accepted limits

*R* = RPD (relative percent difference) outside accepted limits

*D* = RL (reporting limit verification) outside accepted limits

*NP* = Not Provided

These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, RJ Lee Group will store the samples for a period of thirty (30) days before discarding. A shipping and handling fee will be assessed for the return of any samples.

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Unless otherwise noted (either in the comments section of the report and/or with the appropriate qualifiers under the report qualifiers (Q) column) the following apply: (a) Samples were received in good condition, (b) All QC samples are within acceptable established limits, (c) All samples designated as NELAP meet the requirements of the NELAC standard; if not applicable qualifiers will be used to designate the non-compliance and (d) Results have not been blank corrected. Quality Control data is available upon request.



Philip Grindle  
Laboratory Manager Inorganic Chemistry

## LABORATORY REPORT

PBS Engineering & Environmental  
 4412 South Corbett Ave  
 Portland, OR 97239

Attn: John Yuly  
 Phone: 503-248-1939

Email: john.yuly@pbsusa.com

RJ Lee Group Job No.: PA310120250016  
 Samples Received: January 31, 2025  
 Report Date: February 7, 2025  
 Client Project: 24012934 Phase 0001  
 Purchase Order No.: N/A  
 Matrix: Solid  
 Prep/Analysis: EPA 3050B / EPA 6010C-Paint

Client Sample ID	RJ Lee Group ID	Sampling Date	Analyte	Sample Concentration		Minimum Reporting Limit		Analysis Date	Q
				Weight Percent (%)	Parts per Million (PPM) - mg/kg	Weight Percent (%)	Parts per Million (PPM) - mg/kg		
LB24012934-0007	PA310120250016-001	NP	Lead	< 0.00123	< 12.3	0.00123	12.3	02/03/2025	A

Comments:

**Report Qualifiers (Q):**

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*E* = Value above highest calibration standard  
*J* = Value below lowest calibration standard but above MDL (Method Detection Limit)  
*L* = LCS (Laboratory Control Standard)/SRM (Standard Reference Material) recovery outside accepted recovery limits  
*H* = Holding times for preparation or analysis exceeded

*B* = Analyte detected in the associated Method Blank  
*S* = Spike Recovery outside accepted limits  
*R* = RPD (relative percent difference) outside accepted limits  
*D* = RL (reporting limit verification) outside accepted limits  
*NP* = Not Provided

These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, RJ Lee Group will store the samples for a period of thirty (30) days before discarding. A shipping and handling fee will be assessed for the return of any samples.

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Philip Grindle  
 Laboratory Manager Inorganic Chemistry

THIS IS TO CERTIFY THAT

**SEAN GRABINER**

**HAS SUCCESSFULLY COMPLETED THE TRAINING COURSE**

for

**ONLINE AHERA ASBESTOS INSPECTOR REFRESHER**

In accordance with TSCA Title II, Part 763, Subpart E, Appendix C of 40 CFR

Course Date: 01/03/2025

Course Location: Online

Certificate: IRO-25-4508B



**CCB #SRA0615 4-Hr Training**

4-Hour Online AHERA Inspector Refresher Training; AHERA is the Asbestos Hazard Emergency Response Act enacting Title II of Toxic Substance Control Act (TSCA)

**Expiration Date:** 01/03/2026

For verification of the authenticity of this certificate contact:  
PBS Engineering and Environmental Inc.  
4412 S Corbett Avenue  
Portland, OR 97239  
503.248.1939

A handwritten signature in black ink that reads "Andy Fridley".

Andy Fridley, Instructor

## **Appendix G – IDW Waste Manifest**

## **Appendix H – QA/QC Memorandum**

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## INTERNAL MEMORANDUM

**To:** Sarah Weppner, Program Manager  
**From:** Allison Marshall, Quality Assurance Officer  
**Date:** March 13, 2025  
**Contract No./Title:** Regional 10 Targeted Brownfields Assessment  
**Alta Project No.:** 22136.091  
**Subject:** **QA/QC Review of the January/February 2025 Phase II Site Assessment – 1021 and 1037 Baseline Street, Cornelius, OR**

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### 1 Introduction

This internal memorandum provides a summary of the data validation performed and the resulting data quality for the soil, groundwater, and soil vapor results from the sampling efforts that occurred in January and February 2025 at 1021 and 1037 Baseline Street located in Cornelius, OR. These sampling efforts included:

- Soil grab sampling from soil borings: January 27-29, 2025.
- Soil composite sampling from select soil borings: January 27-28, 2025.
- Soil vapor sampling: January 29, 2025.
- Groundwater sampling: January 31-February 1, 2025.

Alta Science & Engineering's (Alta's) quality assurance/quality control (QA/QC) review followed guidelines set forth in the following documents:

- *Quality Assurance Project Plan for Phase II Site Assessment – 1021 and 1037 Baseline Street, Cornelius, OR* (ERG 2025), hereinafter referred to as the QAPP.
- *National Functional Guidelines for Inorganic Superfund Methods Data Review* (Environmental Protection Agency [EPA] 2020a), hereinafter referred to as the NFG-Inorganics.
- *National Functional Guidelines for Organic Superfund Methods Data Review* (EPA 2020b), hereinafter referred to as the NFG-Organics.
- *Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use* (EPA 2009).
- *Guidance on Environmental Data Verification and Data Validation* (EPA 2002).

This memorandum discusses the data validation and quality review performed for each laboratory's Sample Delivery Groups (SDGs) listed in Table 1. Data qualifiers used in this review are defined by the U.S. Environmental Protection Agency (EPA 2020a and 2020b). The final qualified data for any affected samples are included in Attachment A.

**Table 1. SDG Stage 2A<sup>a</sup> Data Validation Summary Conducted by Alta**

Laboratory <sup>b</sup>	SDG	Matrix	COCs <sup>c</sup>	NFG Guidance <sup>d</sup>
Pace	L1822849	Groundwater	PPMs	Inorganic: AES
			VOCs	Organic: Volatiles
			PAHs	Organic: Semivolatiles
			TPHs	Organic: Volatiles and Semivolatiles
Pace	L1822303	Grab subsurface soil	VOCs	Organic: Volatiles
			PAHs	Organic: Semivolatiles
			TPHs	Organic: Volatiles and Semivolatiles
Pace	L1822399	Composite soil	PPMs	Inorganic: AES
Eurofins	2502087	Soil Vapor	VOCs	NFG Organic: Volatiles

Footnotes:

<sup>a</sup> Data validation level based on EPA 2009.

<sup>b</sup> Pace = Pace National Analytical Laboratory, Inc. in Mt. Juliet, TN.

Eurofins = Eurofins Air Toxics, LLC in Folsom, CA.

<sup>c</sup> Constituents of concern (COCs) included:

- Priority pollutant metals (PPMs) in groundwater and soil include arsenic, cadmium, total chromium, lead, selenium, silver, beryllium, copper, nickel, thallium, antimony, and zinc, by EPA Method 6010D (EPA 2018c) with mercury in groundwater by EPA Method 7470A and mercury in soils by EPA Method 7471B (EPA 2007).
- Volatile Organic Compounds (VOCs) in groundwater and soil samples include benzene, toluene, ethylbenzene, total xylenes, naphthalene (BTEXN), 1,2-dibromoethane (EDB), 1,2-dichloroethane (EDC), methyl tert-butyl ether (MTBE), 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, isopropylbenzene, and n-propylbenzene by EPA Method 8260D (EPA 2018a). VOCs in soil vapor include BTEXN, EDB, EDC, isopropylbenzene (aka cumene), 1,2,4-trimethylbenzene; 1,3,5-trimethylbenzene; MTBE, and TPH-GRO analyzed using EPA Method TO-15 SIM (EPA 2019).
- Polycyclic Aromatic Hydrocarbons (PAHs) in soil and groundwater include anthracene, acenaphthene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene, fluoranthene, fluorene, indeno(1,2,3-cd)pyrene, naphthalene, and pyrene by EPA Method 8270C-selected ion monitoring (SIM) (EPA 2018c).
- Total Petroleum Hydrocarbons (TPHs) in soil and groundwater include TPH as gasoline range organics (GRO) by NWTPH Method GX (Ecology 1997), and TPH as diesel range organics (DRO) by NWTPH Method DX-SGT (Ecology 1997).

<sup>d</sup> Data qualifications applied per National Functional Guidelines (NFGs) for Superfund Methods Inorganic or Organic Data Review (EPA 2020a and 2020b).

## 2 Data Validation and Quality Summary of Groundwater Results

Alta’s Stage 2A validation of the analytical data and review of the groundwater field data are summarized in Table 2. Procedures/checks that require further discussion are explained below the table, as necessary. The final qualified data for any affected samples are included in Attachment A.

**Table 2. Data Quality Review Summary for Groundwater**

Data Validation Procedure or Check	Acceptable Frequency? <sup>a</sup>	Acceptable Performance? <sup>b</sup>	Data Qualified?	Discussion Item Number
<b>General Data Review</b>				
Sample condition upon receipt at laboratory	--	Y	N	
Preservation (temperature and in-field preservative, if applicable)	--	Y	N	
Laboratory followed specified analytical methods, preparation methods, and shows analysis dates	--	Y	N	
Holding times	--	Y	N	
Requested target analyte results are reported with lab qualifiers and units	--	Y	N	
<b>Sensitivity Assessment</b>				
Requested reporting limits are present	--	N	N	1
Field parameter stabilization	Y	N	N	2
Method Blanks	Y	N	Y	3
Trip Blanks	Y	N	N	4
Rinsate Blanks	Y	N	Y	5
<b>Accuracy Assessment</b>				
Surrogate %Rs / Deuterated Monitoring Compounds %Rs	Y	N	Y	6
Laboratory Control Sample (LCS) %Rs	Y	Y	N	
Continuing Calibration Standard	Y	N	Y	7
Matrix Spike (MS) %Rs	Y	N	Y	8
<b>Precision Assessment</b>				
Laboratory Control Sample Duplicate (LCSD) RPDs	N	Y	N	9
Site-specific Matrix Spike Duplicate (MSD) RPDs <sup>c</sup>	Y	N	N	8
Field Duplicate (Table 3) RPDs	Y	Y	N	10

<sup>a</sup> Frequencies as defined in the QAPP (ERG 2025).

<sup>b</sup> As defined in the QAPP (ERG 2025) or based on professional judgment of the data validator.

<sup>c</sup> The laboratory analyzed both Site-specific MS/MSD pairs and non-Site-specific MS/MSD pairs; however, this memorandum only addresses Site-specific MS/MSD results.

-- = not applicable

%R = %Recovery

RPD = relative percent difference

## Groundwater Discussion Item Number

1. **Requested reporting limits are present:** To assess the sensitivity of the sample results, Alta compared the sample-specific reporting limits (RLs) and method detection limits (MDLs) to the screening levels (SLs) as presented in Appendix A of the QAPP. The sample-specific MDLs are less than the applicable SLs and therefore, sensitivity is not a concern except for the following instances:
  - a. 1,2-dibromoethane (EDB) and thallium: the MDLs and/or RLs exceed the respective EPA Regional Screening Level (RSL) or Maximum Contaminant Level (MCL) in certain samples. EDB and thallium were not detected in any groundwater samples; therefore, there is no indication that these analytes are present in groundwater at the site.
  - b. Naphthalene: the MDL and RL exceed the EPA RSL for Resident Tapwater in certain samples. In two samples where naphthalene was not detected above the MDL, it is possible for naphthalene to be present at a concentration less than the MDL and greater than the EPA RSL for Resident Tapwater.
2. **Field Parameters Stabilized:** The Alta field crew collected water quality parameter data at approximately 5-minute intervals to assess groundwater stabilization. All parameters were within the QAPP stabilization criteria except the following:
  - a. At BLS-MW-4, the difference between the last three conductivity readings was 5% in comparison to the QAPP stabilization value of 3%. All other parameter readings met the stabilization criteria. Considering that all other groundwater parameters stabilized, the conductivity criteria does not indicate an issue with groundwater representativeness. No qualification is necessary.
3. **Method blanks:** The laboratory analyzed at least one method blank for each analytical method, which meets QAPP guidelines. Certain analytes were detected in the method blanks as summarized below:
  - a. Total petroleum hydrocarbons (TPH) as gasoline range organics (GRO), TPH as diesel range organics (DRO), anthracene, acenaphthene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene, fluorene, fluoranthene, indeno(1,2,3-cd)pyrene, and pyrene were detected in certain method blanks at concentrations above the MDLs but below the RLs. Associated field samples are those samples that were analyzed in the same batch. Based on the NFG-Organics: Volatiles and Semivolatiles and professional judgment, the Alta Quality Assurance Officer (QAO) applied the following actions to these analytes in the associated field samples:
    - i. Concentrations less than the MDL are not qualified.
    - ii. Concentrations less than the RL are reported at the RL and qualified as non-detect (U).
    - iii. Concentrations greater than the RL but less than 10 times the blank detection are qualified as estimated (J).
    - iv. Concentrations greater than the RL and greater than 10 times the blank detection are not qualified.
  - b. Benzo(a)anthracene was detected in both method blanks at concentrations above the MDL but below the RL. For associated field samples where benzo(a)anthracene was not detected, no qualifications are necessary. Benzo(a)anthracene was detected in certain associated field samples at concentrations above the MDL but below the RL. In these samples, the RL exceeds the EPA Tap Water; therefore, raising the concentrations to the RL

would not allow for comparison to applicable screening levels. Therefore, based on professional judgement, results for benzo(a)anthracene in these samples are reported at the detected concentration and qualified as estimated, biased high (J+).

4. **Trip blanks:** The field crew submitted two trip blank samples in the two coolers submitted to the laboratory, which meets QAPP guidelines. No analytes were detected except the following:
  - a. TPH-GRO was detected in both trip blanks. In Trip Blank 1, TPH-GRO was detected at a concentration slightly above the RL. In Trip Blank 2, TPH-GRO was detected above the MDL but below the RL. As noted in Groundwater Discussion Item Number 3, TPH-GRO was detected in the laboratory method blank. Subsequently, for Trip Blank 1, the concentration of TPH-GRO was qualified as estimated (J) and, for Trip Blank 2, was raised to the RL and qualified as non-detect (U). Based on professional judgement, the detections of TPH-GRO do not appear to indicate deficiencies with sample handling or transportation; therefore, no field samples were qualified based on the trip blank results.
5. **Rinsate blanks:** The field crew submitted two rinsate blank samples to the laboratory, which meets QAPP guidelines of one rinsate blank per day of groundwater sampling. No analytes were detected except the following:
  - a. TPH-GRO was detected in both rinsate blanks. In Rinsate Blank 1, TPH-GRO was detected at a concentration above the RL. Rinsate Blank 1 was collected on 1/31/25. Associated field samples are those samples that were collected on the same day and were qualified as follows:
    - i. Concentrations less than the MDL are not qualified.
    - ii. Concentrations less than the RL are reported at the RL and qualified as non-detect (U).
    - iii. Concentrations greater than the RL but less than the blank detection are reported at the sample result and qualified as non-detect (U).
    - iv. Concentrations detected above the RL and above than the blank detection but less than ten times the blank detection are qualified as estimated, biased high (J+).
    - v. Concentrations detected above the RL and above than the blank detection but greater than ten times the blank detection are not qualified.

In Rinsate Blank 2, TPH-GRO was detected at a concentration above the MDL but below the RL. As noted in Groundwater Discussion Item Number 3, TPH-GRO was detected in the laboratory method blank. Subsequently, for Rinsate Blank 1, the concentration of TPH-GRO was qualified as estimated (J) and for Rinsate Blank 2, the concentration was raised to the RL and qualified as non-detect (U). No field samples were qualified based on the TPH-GRO detection in Rinsate Blank 2.

- b. TPH-DRO was detected in both rinsate blanks at concentrations slightly above the RL. As noted in Groundwater Discussion Item Number 3, TPH-DRO was detected in the method blanks. Subsequently, the concentrations of TPH-DRO in both rinsate blank samples were qualified as estimated (J). Based on professional judgement, the detections of TPH-DRO in the rinsate blank do not appear to indicate deficiencies with field decontamination

procedures. Therefore, no field samples were qualified based on the rinsate blank results.

- c. Copper was detected in both rinsate blanks at concentrations slightly above the RL. Based on NFG-Inorganic: ICP-AES, the Alta QAO qualified the associated field samples as follows:
  - i. Concentrations less than the MDL are not qualified.
  - ii. Concentrations less than the RL are reported at the RL and qualified as non-detect (U).
  - iii. Concentrations greater than the RL but less than 10 times the blank detection are reported at the blank result and qualified as estimated, biased high (J+).
  - iv. Concentrations greater than the RL and greater than 10 times the blank detection are not qualified.
- d. Zinc was detected in both rinsate blanks at concentrations above the MDL but below the RL, which affects all field samples. Based on the NFG-Inorganic: ICP-AES, associated field samples were qualified as follows:
  - i. Concentrations less than the MDL are not qualified.
  - ii. Concentrations less than the RL are reported at the RL and qualified as non-detect (U).
  - iii. Concentrations greater than the RL but less than 10 times the blank detection are qualified as estimated, biased high (J+).
  - iv. Concentrations greater than the RL and greater than 10 times the blank detection are not qualified.
- e. Certain PAHs were detected in both rinsate blanks at concentrations above the MDL but below the RL. However, as noted in Groundwater Discussion Item Number 3, these analytes were detected in the laboratory method blanks. Subsequently, the concentrations of these PAHs were raised to the RL and qualified as non-detect (U). Based on professional judgement, the detections of certain PAHs in the rinsate blank samples do not appear to indicate deficiencies with field decontamination procedures. Therefore, no PAH results were qualified based on the rinsate blank results.

**6. Surrogate %Recoveries (%Rs) / Deuterated Monitoring Compounds (DMCs)**

**%Rs:** The laboratory analyzed surrogates or DMCs for all volatile and semivolatile analytes, which meets QAPP requirements. Most %Rs were within acceptable ranges except for the following instances:

- a. For EPA Method 8270C-SIM, the %R for the DMC nitrobenzene-d5 was below laboratory recovery limits in multiple samples. Nitrobenzene-d5 is considered a reasonable surrogate for the target analyte naphthalene. Detections of naphthalene (analyzed by 8270C-SIM) in the associated field samples will be qualified as estimated, biased low (J-). For those associated field samples in which naphthalene was not detected, naphthalene will be qualified as non-detect estimated (UJ).
- b. For EPA Method 8260D, the %R for the DMC 1,2-dichloroethane-d4 was above laboratory recovery limits in one sample (MW-2-DUP). 1,2-Dichloroethane-d4 is considered a reasonable surrogate for target analytes EDB and 1,2-dichloroethane (EDC). These analytes were not detected in the associated field sample or any field samples and, therefore, are not qualified.

- c. For Method NWTPH-Gx, the %R for the surrogate a,a,a-trifluorotoluene (FID) was above laboratory recovery limits in one sample (MW-6). The detection of TPH-GRO in the associated field sample will be qualified as estimated, biased high (J+).
7. **Continuing Calibration Standard (CCS):** The laboratory qualified the naphthalene results (analyzed by EPA Method 8260D) with “C3” in certain samples, indicating that a CCS responded low. Based on the NFG-Organics: Volatiles and professional judgment, the Alta QAO qualified the detected concentrations of naphthalene as estimates (J) in the associated field samples. For field samples where naphthalene was not detected above the MDL, naphthalene was qualified as estimated non-detect (UJ).
8. **Site-specific Matrix Spike (MS)/Matrix Spike Duplicate (MSD) Pairs:**
  - a. **Frequency Assessment:** The Field Team collected one Site-specific MS/MSD sample pair for groundwater, which meets the QAPP guidelines of 1 MS/MSD sample per 20 field samples.
  - b. **%Rs (Accuracy Assessment):** Most %Rs were within acceptable laboratory limits except for the following analytical methods:
    - i. For Method NWTPH-Dx, the %R was acceptable in the MS sample but low in the MSD sample. However, as noted in Groundwater Discussion Item Number 3, the concentration of TPH-DRO was raised to the RL and qualified as non-detect (U) due to a method blank detection. No additional qualifiers were applied based on the MSD %R.
  - c. **Relative Percent Differences (RPDs) (Precision Assessment):** Most RPDs were within acceptable laboratory limits except for Method NWTPH-Dx, which had an RPD above the laboratory limit. However, as noted in Groundwater Discussion Item Numbers 3 and 8b, the associated sample was already qualified and no additional qualifications were made based on the MSD RPD.
9. **Laboratory Control Sample (LCS)/Laboratory Control Sample Duplicate (LCSD) Pairs:**
  - a. **Frequency Assessment:** The laboratory did not analyze LCS/LCSD pairs for all methods; however, the QAPP states that an LCSD or MSD can be used to evaluate precision. All groundwater analytical methods listed in Table 1 had a Site-specific MS/MSD pair; therefore, no qualifications are necessary based on LCS/LCSD frequency.
  - b. **%Rs (Accuracy Assessment):** All LCS %Rs were within acceptable laboratory limits.
  - c. **RPDs (Precision Assessment):** All LCSD RPDs were within acceptable ranges.
10. **Field Duplicates:** From 5 groundwater field samples, the Field Team collected 1 field duplicate sample, which meets the QAPP requirement of 1 duplicate sample for every 20 field samples. Table 3 shows the calculated RPD for the constituents of concern (COCs) listed in Table 1 where one or both samples had COC detections greater than 5 times the RL as guided in the NFGs for Inorganics and Organics. The QAPP identified a field duplicate RPD goal of 30% for groundwater. For analytes with concentrations less than 5 times the RL, precision was assessed by comparing the absolute difference between the original and duplicate concentrations to the RL. Precision (RPDs) was acceptable for all analytes.

**Table 3. Field Duplicate Sample Analysis - Groundwater Samples**

Sample Date	Analyte	Original Concentration (mg/L)		Duplicate Concentration (mg/L)		RPD
		Sample ID	BLS-MW-2	BLS-MW-2-DUP		
1/31/2025	PPMS by EPA Method 6010D					
	ANTIMONY		0.00506 U	0.00506 U		NC
	ARSENIC		0.0132	0.0121		NC
	BERYLLIUM		0.000501 U	0.000501 U		NC
	CADMIUM		0.000538 U	0.000538 U		NC
	CHROMIUM		0.00151 U	0.00151 U		NC
	COPPER		0.00226 U	0.00226 U		NC
	LEAD		0.00496 J	0.00243 U		NC
	NICKEL		0.00196 U	0.00196 U		NC
	SELENIUM		0.00616 U	0.00695 J		NC
	SILVER		0.00289 U	0.00289 U		NC
	THALLIUM		0.00663 U	0.00663 U		NC
	ZINC		0.0500 U	0.00467 U		NC
	Mercury by EPA Method 7470A					
	MERCURY		0.0000700 U	0.0000700 U		NC
	VOCs by EPA Method 8260D					
	BENZENE		0.0000941 U	0.000594 J		NC
	1,2-DIBROMOETHANE		0.000126 U	0.000126 U		NC
	1,2-DICHLOROETHANE		0.0000819 U	0.0000819 U		NC
	ETHYLBENZENE		0.362	0.428		17%
	ISOPROPYLBENZENE		0.0492	0.0507		3%
	METHYL TERT-BUTYL ETHER		0.000101 U	0.000101 U		NC
	NAPHTHALENE		0.104 J	0.135 J		26%
	N-PROPYLBENZENE		0.137	0.180		27%
	TOLUENE		0.00419	0.00339		NC
	1,2,4-TRIMETHYLBENZENE		0.0598	0.0721		19%
	1,3,5-TRIMETHYLBENZENE		0.0143	0.0186		26%
	XYLENES, TOTAL		0.0852	0.0888		4%
	PAHs by EPA Method 8270C-SIM					
	ANTHRACENE		0.0000798 J	0.0000956 J		NC
	ACENAPHTHENE		0.000676	0.000809		18%
	BENZO(A)ANTHRACENE		0.00005 U	0.00005 U		NC
	BENZO(A)PYRENE		0.0000184 U	0.0000184 U		NC
	BENZO(B)FLUORANTHENE		0.0000168 U	0.0000500 U		NC
	BENZO(K)FLUORANTHENE		0.0000202 U	0.0000202 U		NC
	CHRYSENE		0.0000500 U	0.0000500 U		NC
	DIBENZ(A,H)ANTHRACENE		0.0000160 U	0.0000500 U		NC
	FLUORANTHENE		0.000100 U	0.0000570 J		NC
	FLUORENE		0.000347	0.000434		22%
	INDENO(1,2,3-CD)PYRENE		0.0000500 U	0.0000158 U		NC
	NAPHTHALENE		0.114 J-	0.122 J-		7%
	PYRENE		0.0000500 U	0.0000500 U		NC
	TPH-GRO by NWTPHGX					
	TPHG C6 - C12		5.07	5.39		6%
	TPH-DRO by NWTPHDX-NO-SGT					
	DIESEL RANGE ORGANICS		1.70	1.83		7%

Notes:

Relative Percent Difference (RPD) =  $|X1-X2|/((X1+X2)/2)*100$

Where: X1 = Original Concentration and X2 = Duplicate Concentration

NC = Non-calculable; either one of both results are not detected, or the original or duplicate concentrations were less than 5x analyte-specific reporting limits (EPA 2020). Precision is acceptable because the absolute difference between the original and duplicate concentrations is less than the reporting limit.

mg/L = milligrams per liter

U = not detected above the value shown

J = concentration is an estimate

J- = concentration is an estimate, biased low

### 3 Data Validation and Quality Summary of Grab Soil Results

Alta's Stage 2A validation of the analytical data and review of the grab soil field data are summarized in Table 4. Procedures/checks that require further discussion are explained below the tables, as necessary. The final qualified data for any affected samples are included in Attachment A.

**Table 4. Data Quality Review Summary for Grab Soil Results**

Data Validation Procedure or Check	Acceptable Frequency <sup>a</sup>	Acceptable Performance <sup>b</sup>	Data Qualified	Discussion Item Number
<b>General Data Review</b>				
Sample condition upon receipt at laboratory	--	Y	N	
Preservation (temperature and in-field preservative, if applicable)	--	Y	N	
Holding times	--	Y	N	
Laboratories followed specified analytical methods, preparatory methods, and shows analysis dates	--	Y	N	
Requested target analyte results are reported with lab qualifiers and units	--	Y	N	
<b>Sensitivity Assessment</b>				
Requested reporting limits are present	--	Y	N	
Method blanks	Y	N	Y	1
Trip Blank	Y	Y	N	
<b>Accuracy Assessment</b>				
Surrogate %Rs/Deuterated Monitoring Compounds %Rs	Y	N	Y	2
Laboratory Control Sample (LCS) %Rs	Y	N	Y	3
Site-specific Matrix Spike (MS) %Rs <sup>c</sup>	Y	N	Y	4
<b>Precision Assessment</b>				
Laboratory Control Sample Duplicate (LCSDs) RPDs	N	Y	N	3
Site-specific Matrix Spike Duplicate (MSD) RPD <sup>c</sup>	Y	N	N	4
Field Duplicate (Table 5) RPDs	Y	Y	N	6

<sup>a</sup> Frequencies as defined in the QAPP (ERG 2025).

<sup>b</sup> As defined in the QAPP (ERG 2025), or based on professional judgment of the data validator.

<sup>c</sup> The laboratory analyzed both Site-specific MS/MSD pairs and non-Site-specific MS/MSD pairs; however, this memorandum only addresses Site-specific MS/MSD results.

-- = not applicable    %R = %Recovery    RPD = relative percent difference

**Grab Soil Discussion Item Number:**

1. **Method blanks:** The laboratory analyzed at least one method blank for each analytical method, which meets QAPP guidelines. Certain analytes were detected in the method blanks as summarized below:
  - a. TPH-GRO was detected at concentrations above the MDL but below the RL in three method blanks. Associated field samples are those samples that were analyzed in the same batch as the method blanks. Based on NFG-Organic: Volatiles, the associated samples are qualified as follows:
    - i. Concentrations less than the MDL are not qualified.
    - ii. Concentrations less than the RL are reported at the RL and qualified as non-detect (U).
    - iii. Concentrations greater than the RL but less than 10 times the blank detection are qualified as estimated (J).
    - iv. Concentrations greater than the RL and greater than 10 times the blank detection are not qualified.
2. **Surrogate %Rs/DMC %Rs:** Most surrogate and DMC %Rs were within acceptable limits except for the following instances:
  - a. For Method NWTPH-Gx, the %R for the surrogate a,a,a-trifluorotoluene (FID) was above laboratory recovery limits in sample BLS-BH8-SG-10. The detection of TPH-GRO in the associated field sample will be qualified as estimated, biased high (J+).
  - b. For EPA Method 8260D, the %R for the surrogate 4-bromofluorobenzene was above laboratory recovery limits in sample BLS-BH9-SG-10. 4-Bromofluorobenzene is considered a reasonable surrogate for target analytes ethylbenzene, total xylenes, isopropylbenzene, n-propylbenzene, 1,3,5-trimethylbenzene, 1,2,4-trimethylbenzene, and naphthalene. These analytes were not detected in the associated field sample; therefore, no qualifications are needed.
  - c. For EPA Method 8270C-SIM, the %R for the DMC nitrobenzene-d5 was below laboratory recovery limits in samples BLS-BH11-SG-10, BLS-BH13-SG-13, and BLS-BH14-SG-12. Nitrobenzene-d5 is considered a reasonable surrogate for the target analyte naphthalene. Detections of naphthalene (analyzed by 8270C-SIM) in the associated field samples will be qualified as estimated, biased low (J-). Analytes that were not detected in the associated field samples will be qualified as non-detect estimated (UJ).
3. **LCS/LCSD Pairs:**
  - a. **Frequency Assessment:** The laboratory analyzed at least one LCS per method as required in the QAPP. Additionally, the laboratory analyzed an LCS/LCSD pair for most analytical methods except for Method NWTPH-Dx and EPA Method 8270C-SIM. However, the QAPP states that an LCSD or MSD can be used to evaluate precision. All grab soil analytical methods in Table 1 had a Site-specific MS/MSD pair; therefore, no qualifications are necessary.
  - b. **%Rs (Accuracy Assessment):** Most LCS %Rs were within acceptable ranges except for naphthalene analyzed by EPA Method 8260D in Batch WG2445859, where the naphthalene %R was below the lower laboratory limit. The laboratory also qualified these results with “C3”, indicating that a CCS responded low. Based on the NFG-Organics: Volatiles and professional judgment, the Alta QAO qualified naphthalene concentrations less than the MDL as non-detect estimates

(UJ) in the associated field samples. Naphthalene results that were detected above the MDL in the associated field samples were qualified as estimated (J).

- c. **RPDs (Precision Assessment):** All LCSD RPDs were within acceptable ranges.
4. **Site-specific MS/MSD Pairs:**
- a. **Frequency Assessment:** From a total of 18 grab soil field samples, the Field Team collected 1 Site-specific MS/MSD sample pair, which meets the QAPP guidance of 1:20.
  - b. **%Rs (Accuracy Assessment):** All Site-specific MS/MSD %Rs were within acceptable laboratory limits except for Method NWTPH-Gx, which had a %R for TPH-GRO above the laboratory limit in the MSD sample. The laboratory also noted that the surrogate recovery failed in the MSD sample due to matrix interference. Therefore, based on the NFG-Organics: Volatiles and professional judgment, the Alta QAO qualified the detected concentration of TPH-GRO in the Site-specific MSD sample as estimated (J).
  - c. **RPDs (Precision Assessment):** All Site-specific MS/MSD RPDs were within acceptable limits except for Method NWTPH-GX, where the RPD for TPH-GRO exceeded the laboratory limit. As noted in Grab Soil Discussion Item Number 4b, this sample result was already qualified and no further qualification is necessary.
5. **Field Duplicate:** From 18 grab soil field samples, the Field Team collected 1 field duplicate sample, which meets the QAPP requirement of 1:20. Table 5 includes the calculated RPDs for the field sample duplicate pair where one or both samples had COC detections greater than 5 times the RL. For analytes with concentrations less than 5 times the RL, precision was assessed by comparing the absolute difference between the original and duplicate concentrations to the RL. Precision was acceptable for all analytes.

**Table 5. Field Duplicate Sample Analysis - Grab Soil Samples**

Sample Date	Analyte	Original Concentration (mg/kg)		Duplicate Concentration (mg/kg)		RPD
	Sample ID	BLS-BH3-SG-3		BLS-BH3-SG-DUP		
1/27/2025	VOCs by EPA Method 8260D					
	BENZENE	0.000514	U	0.000467	U	NC
	1,2-DIBROMOETHANE	0.000713	U	0.000648	U	NC
	1,2-DICHLOROETHANE	0.000714	U	0.000649	U	NC
	ETHYLBENZENE	0.000811	U	0.000737	U	NC
	ISOPROPYLBENZENE	0.000468	U	0.000425	U	NC
	METHYL TERT-BUTYL ETHER	0.000385	U	0.00035	U	NC
	NAPHTHALENE	0.00537	UJ	0.00488	UJ	NC
	N-PROPYLBENZENE	0.00105	U	0.00095	u	NC
	TOLUENE	0.00143	U	0.0013	U	NC
	1,2,4-TRIMETHYLBENZENE	0.00174	U	0.00158	U	NC
	1,3,5-TRIMETHYLBENZENE	0.0022	U	0.002	U	NC
	XYLENES, TOTAL	0.000968	U	0.00088	U	NC
	PAHs by EPA Method 8270C-SIM					
	ANTHRACENE	0.0023	U	0.0023	U	NC
	ACENAPHTHENE	0.00209	U	0.00209	U	NC
	BENZO(A)ANTHRACENE	0.00173	U	0.00173	U	NC
	BENZO(A)PYRENE	0.00179	U	0.00179	U	NC
	BENZO(B)FLUORANTHENE	0.00153	U	0.00153	U	NC
	BENZO(K)FLUORANTHENE	0.00215	U	0.00215	U	NC
	CHRYSENE	0.00232	U	0.00232	U	NC
	DIBENZ(A,H)ANTHRACENE	0.00172	U	0.00172	U	NC
	FLUORANTHENE	0.00227	U	0.00227	U	NC
	FLUORENE	0.00205	U	0.00205	U	NC
	INDENO(1,2,3-CD)PYRENE	0.00181	U	0.00181	U	NC
	NAPHTHALENE	0.00408	U	0.00408	U	NC
	PYRENE	0.002	U	0.002	U	NC
	TPH-GRO by NWTPHGX					
	TPHG C6 - C12	0.932	U	0.848	U	NC
	TPH-DRO by NWTPHDX-NO-SGT					
	DIESEL RANGE ORGANICS	2.96	J	1.44	J	NC

Notes:

Relative Percent Difference (RPD) =  $|X1-X2|/((X1+X2)/2)*100$

Where: X1 = Original Concentration and X2 = Duplicate Concentration

NC = Non-calculable; either one of both results are not detected, or the original or duplicate concentrations were less than 5x analyte-specific reporting limits (EPA 2020). Precision is acceptable because the absolute difference between the original and duplicate concentrations is less than the reporting limit.

mg/kg = milligrams per kilogram

U = not detected above the value shown

UJ = estimated non-detect

J = concentration is an estimate

## 4 Data Validation and Quality Summary of Composite Soil Results

Alta's Stage 2A validation of the analytical data and review of the composite soil field data are summarized in Table 6. Procedures/checks that require further discussion are explained below the table, as necessary. The final qualified data for any affected samples are included in Attachment A.

**Table 6. Data Quality Review Summary for Composite Soil Results**

Data Validation Procedure or Check	Acceptable Frequency <sup>a</sup>	Acceptable Performance <sup>b</sup>	Data Qualified	Discussion Item Number
<b>General Data Review</b>				
Sample condition upon receipt at laboratory	--	Y	N	
Preservation (temperature and in-field preservative, if applicable)	--	N	Y	1
Holding times	--	Y	N	
Laboratories followed specified analytical methods, preparatory methods, and shows analysis dates	--	Y	N	
Requested target analyte results are reported with lab qualifiers and units	--	Y	N	
<b>Sensitivity Assessment</b>				
Requested reporting limits are present	--	N	N	2
Method blanks	Y	N	Y	3
Serial dilution	Y	N	Y	4
<b>Accuracy Assessment</b>				
LCS %Rs	Y	Y	N	
MS %Rs <sup>c</sup>	Y	N	Y	5
<b>Precision Assessment</b>				
Site-specific MSD RPD <sup>c</sup>	Y	Y	N	
Field Duplicate (Table 7) RPD	Y	N	Y	6

<sup>a</sup> Frequencies as defined in the QAPP (ERG 2025).

<sup>b</sup> As defined in the QAPP (ERG 2025), or based on professional judgment of the data validator.

<sup>c</sup> The laboratory analyzed both Site-specific MS/MSD pairs and non-Site-specific MS/MSD pairs; however, this memorandum only addresses Site-specific MS/MSD results.

-- = not applicable      %R = %Recovery      RPD = relative percent difference

### Composite Soil Discussion Item Number:

- 1. Preservation (temperature):** The QAPP did not specify that soil samples be kept cool for analysis of priority pollutant metals (PPMs); therefore, the soil composite samples were not packed on ice and the sample cooler was received at the laboratory above the temperature range specified in the NFG-Inorganics: Mercury (0°C-6°C). The cooler temperature was 12.6 °C upon receipt at the laboratory. The MDL for mercury is greater

than two orders of magnitude below the lowest applicable SL. Therefore, based on professional judgement, the QAO qualified the mercury results in all composite soil field samples as follows:

- a. Samples with detections of mercury above the MDL are qualified as estimated, biased low (J-). Samples where mercury was not detected above the MDL are qualified as estimated, non-detect (UJ).
  - b. There are no guidelines for temperature for all other metals analyses in soil. No qualifiers for PPMs (excluding mercury) are necessary.
2. **Requested RLs are present:** To assess the sensitivity of the sample results, Alta compared the sample-specific RLs and MDLs to the SLs as presented in Appendix A of the QAPP. The sample-specific MDLs are less than the applicable SLs and therefore, sensitivity is not a concern except for the following instance:
- a. Arsenic: the MDLs and RLs exceed the EPA RSL for Resident Soil in all samples. In samples where arsenic was not detected above the MDL, it is possible for arsenic to present above the MDL and below the RSL for Resident Soil.
3. **Method blanks:** Most method blank results were less than the MDL (non-detect) except for silver, which was detected at a concentration above the MDL but below the RL. Based on the NFG-Inorganic: ICP-AES, results for silver are qualified in all composite soil field samples as follows:
- a. Concentrations less than the MDL are not qualified.
  - b. Concentrations less than the RL are reported at the RL and qualified as non-detect (U).
  - c. Concentrations greater than the RL but less than 10 times the blank detection are qualified as estimated, biased high (J+).
  - d. Concentrations greater than the RL and greater than 10 times the blank detection are not qualified.
4. **Serial dilution:** The laboratory qualified the results for chromium and zinc in field sample BLS-BH5-C-1.5'-3' as "O1", indicating that the analyte failed the serial dilution test, which indicates matrix interference. Therefore, the Alta QAO qualified these detected analytes as estimated (J).
5. **Site-specific Matrix Spike (MS):** From 12 composite soil samples, the Field Team collected 1 Site-specific MS/MSD sample pair, which meets the QAPP guidance of 1:20. All Site-specific MS/MSD %Rs were within acceptable laboratory limits except for antimony, which had a %R above the laboratory limit in the MS/MSD sample pair. Therefore, based on the NFG-Organics and professional judgment, the Alta QAO qualified the detected concentration of antimony as estimated (J).
6. **Field Duplicate:** From 12 composite soil samples, the Field Team collected 1 field duplicate sample, which meets the QAPP criteria of 1:20. Table 7 includes the calculated RPDs for the composite soil field sample duplicate pair where one or both samples had COC detections greater than 5 times the RL. For analytes with concentrations less than 5 times the RL, precision was assessed by comparing the absolute difference between the original and duplicate concentrations to the RL. Precision was acceptable with the following exceptions:
- a. The RPD could not be calculated for arsenic, beryllium, cadmium, chromium, nickel, or mercury since the concentrations of these analytes were less than 5 times the RLs.; However, the absolute differences between the original and duplicate concentrations were greater than the respective RLs.

- b. The RPDs for copper, lead, and zinc were greater than the QAPP RPD goal of 50%.

Therefore, results of the above listed analytes will be qualified in the parent and duplicate field sample. Results where these analytes were less than the MDL will be qualified as non-detect, estimated (UJ) and results where these analytes were greater than the MDL will be qualified as estimated (J).

**Table 7. Field Duplicate Sample Analysis - Composite Soil Samples**

Sample Date	Analyte	Original Concentration (mg/kg)	Duplicate Concentration (mg/kg)	RPD
	Sample ID	BLS-BH3-C-1.5'-3'	BLS-BH3-C-1.5'-3'-DUP	
1/27/2025	PPMs by EPA Method 6010D			
	ANTIMONY	3.65	1.72 J	NC
	ARSENIC	3.2	0.837 U	NC-P
	BERYLLIUM	0.258	0.0505 J	NC-P
	CADMIUM	1.00	0.0653 U	NC-P
	CHROMIUM	16.4	4.95	NC-P
	COPPER	77.5	41.9	60%
	LEAD	130	37.2	111%
	NICKEL	18.1	8.34	NC-P
	SELENIUM	1.07 U	1.07 U	NC
	SILVER	1.00 U	1.00 U	NC
	THALLIUM	1.96 J	0.981 J	NC
	ZINC	885	52.1	178%
	Mercury by EPA Method 7471B			
	MERCURY	0.13	0.293	NC-P

Notes:

$$\text{Relative Percent Difference (RPD)} = \frac{|X1-X2|}{((X1+X2)/2)} * 100$$

Where: X1 = Original Concentration and X2 = Duplicate Concentration

NC = Non-calculable; either one of both results are not detected, or the original or duplicate concentrations were less than 5x analyte-specific reporting limits (EPA 2020). Precision is acceptable because the absolute difference between the original and duplicate concentrations is less than the reporting limit.

NC-P = Non-calculable-Precision; either one of both results are not detected, or the original or duplicate concentrations were less than 5x analyte-specific reporting limits (EPA 2020). Precision is not acceptable because the absolute difference between the original and duplicate concentrations is greater than the reporting limit.

mg/kg = milligrams per kilogram

U = not detected above the value shown

J = concentration is an estimate

## 5 Data Validation and Quality Summary of Soil Vapor Results

Alta's Stage 2A validation of the analytical data and review of the soil vapor field data are summarized in Table 8. Procedures/checks that require further discussion are explained below the tables, as necessary. The final qualified data for any affected samples are included in Attachment A.

**Table 8. Data Quality Review Summary for Soil Vapor Results**

Data Validation Procedure or Check	Acceptable Frequency <sup>a</sup>	Acceptable Performance <sup>b</sup>	Data Qualified	Discussion Item Number
<b>General Data Review</b>				
Sample condition upon receipt at laboratory	--	Y	N	
Holding times	--	Y	N	
Laboratories followed specified analytical methods, preparatory methods, and shows analysis dates	--	Y	N	
Requested target analyte results are reported with lab qualifiers and units	--	Y	N	
<b>Sensitivity Assessment</b>				
Requested reporting limits are present	--	N	N	1
Method blanks	Y	N	Y	2
<b>Accuracy Assessment</b>				
Surrogate %R/Deuterated Monitoring Compounds %R	Y	Y	N	
Laboratory Control Sample (LCS) %R	Y	Y	N	
<b>Precision Assessment</b>				
Laboratory Control Sample Duplicate (LCSDs) RPDs	Y	Y	N	
Field Replicate (Table 9) RPDs	Y	Y	N	3

<sup>a</sup> Frequencies as defined in the QAPP (ERG 2025).

<sup>b</sup> As defined in the QAPP (ERG 2025), or based on professional judgment of the data validator.

-- = not applicable

RPD = relative percent difference

### Soil Vapor Discussion Item Number:

1. **Requested RLs are present:** To assess the sensitivity of the sample results, Alta compared the sample-specific RLs and MDLs to the lowest applicable regulatory standard (i.e., SL) as presented in Appendix A of the QAPP. Most MDLs and RLs are less than the lowest SL except the following:
  - a. EDB: Due to dilution, the MDL and RL exceed the following SLs:
    - i. the DEQ Risk Based Concentration (RBC) for Residential and Commercial Soil Vapor in one sample,
    - ii. the EPA Soil Vapor Residential Vapor Intrusion Screening Levels (VISL) in all samples, and

- iii. the EPA Soil Vapor Commercial VISL in 3 samples.  
However, EDB was not detected in any of the soil vapor samples, which may indicate that it is not present at the site.
  - b. EDC: Due to dilution, the MDL and RL exceed the DEQ RBCs for the Residential and Commercial Soil Vapor as well as the EPA Soil Vapor Residential and Commercial VISLs in one sample. In this soil vapor sample location, where EDC was not detected, it is possible for EDC to be present below the MDL but above the DEQ RBCs or EPA VISLs.
  - c. Naphthalene: Due to dilution, the MDL and RL exceed the DEQ RBCs for Residential and Commercial Soil Vapor in one sample. Also due to dilution, the MDL and RL exceed the EPA Soil Vapor Residential VISL in four samples and the EPA Soil Vapor Commercial VISL in 1 sample. However, naphthalene was not detected in any of the soil vapor samples, which may indicate that it is not present at the site.
  - d. Total Xylenes: An MDL is not provided for total xylenes; however, due to dilution, the RL exceeded the EPA Soil Vapor Residential VISL in 1 sample. However, total xylenes was not detected above the RL in any of the soil vapor samples, which may indicate that it is not present at the site.
  - e. TPH-GRO: Due to sample dilution, the sample-specific MDLs exceeded the DEQ RBCs for Residential and Commercial Soil Vapor and the EPA Residential and Commercial Soil Vapor VISLs in all samples. However, TPH-GRO was detected in all samples above the RL; therefore, sensitivity is not a concern.
2. **Method blanks:** Most method blank results were less than the MDL (non-detect) except for EDB, ethylbenzene, naphthalene, 1,2,4-trimethylbenzene, and m,p-xylene, which were detected in certain method blanks at concentrations above the MDL but below the RL. Associated field samples (or those samples analyzed in the same batch as the method blank detection) were qualified as follows:
  - a. EDB, naphthalene, and 1,2,4-trimethylbenzene were not detected above the MDL in any associated field samples; therefore, no qualifications are needed.
  - b. Ethylbenzene was detected in the associated field samples at concentrations above the MDL but below the RL. Due to dilution, the RLs exceed the EPA Soil Vapor Residential VISL in certain associated samples; therefore, raising the concentrations to the RL would not allow for comparison to applicable screening levels. The detected concentrations were greater than one order of magnitude greater than the method blank detection; therefore, based on professional judgement, results for ethylbenzene in these samples will be qualified as estimated, biased high (J+).
  - c. m,p-xylene was detected in the associated field sample at a concentration above the MDL but below the RL; therefore, based on the NFG-Organics: Volatiles, this result was raised to the RL and qualified as non-detect (U).
3. **Field Replicate:**
  - a. **Frequency:** From 5 soil vapor samples, the Field Team collected 1 field replicate sample, which meets the QAPP criteria of 1:20.
  - b. **Precision Assessment:** Table 9 includes the calculated RPDs for the soil vapor field replicate pair where one or both samples had COC detections greater than 5 times their RLs. For analytes with concentrations less than 5 times their RLs, precision was assessed by comparing the absolute difference between the original and duplicate concentrations to the RL. Precision was acceptable for all analytes and no qualifications are needed.

**Table 9. Field Replicate Sample Analysis - Soil Vapor Samples**

Sample Date	Analyte	Original Concentration (µg/m <sup>3</sup> )		Replicate Concentration (µg/m <sup>3</sup> )		RPD
	Sample ID	BLS-VP-1		BLS-VP-1-Rep		
1/29/2025	EPA Method TO-15 SIM					
	Methyl tert-butyl ether	1.2	U	1.2	U	NC
	Toluene	3.3	J	3.3	J	NC
	m,p-Xylene	1.9	J	2.0	J	NC
	o-Xylene	0.87	U	0.87	U	NC
	Cumene	1.2	U	1.2	U	NC
	1,3,5-Trimethylbenzene	1.2	U	1.2	U	NC
	1,2,4-Trimethylbenzene	1.4	U	1.4	U	NC
	TPH-GRO	1900		1700		11%
	Benzene	1.1		1.1		NC
	1,2-Dichloroethane	0.075	J	0.071	J	NC
	1,2-Dibromoethane (EDB)	0.011	U	0.011	U	NC
	Ethyl Benzene	1	U	1	U	NC
	Naphthalene	0.073	U	0.073	U	NC

Notes:

$$\text{Relative Percent Difference (RPD)} = \frac{|X1-X2|}{((X1+X2)/2)} * 100$$

Where: X1 = Original Concentration and X2 = Duplicate Concentration

NC = Non-calculable; either one of both results are not detected, or the original or duplicate concentrations were less than 5x analyte-specific reporting limits (EPA 2020). Precision is acceptable because the absolute difference between the original and duplicate concentrations is less than the reporting limit.

µg/m<sup>3</sup> = micrograms per cubic meter

U = not detected above the value shown.

J = concentration is an estimate

## 6 Overall Assessment

Based on this data quality review, Alta determines the laboratory and field data to be of acceptable quality except for the qualifications that are discussed in the subsections below. The final qualified data are included in Attachment A.

### 6.1 General Data Review

Alta's QAO qualified the following data based on sample handling, tracking, and reporting. Data meet the data quality objectives for representativeness and comparability, with the exceptions discussed below.

- Composite soil samples with detections of mercury above the MDL are qualified as estimates, biased low (J-) and samples where mercury was not detected above the MDL are qualified as estimated non-detect (UJ) due to the samples being received at the laboratory at temperatures greater than 10°C.

### 6.2 Data Sensitivity

Alta's QAO noted the following, which may affect the sensitivity of the results:

- To assess the sensitivity of the sample results, Alta compared the sample-specific RLs and MDLs to the lowest applicable regulatory standard (i.e., SL) as presented in Appendix A of the QAPP. Most MDLs and RLs are less than the lowest SL except the following:
  - In groundwater samples where naphthalene (analyzed by EPA Method 8260D) was not detected above the MDL, it is possible for naphthalene to be present at a concentration less than the MDL and greater than the EPA RSL for Resident Tapwater.
  - In composite soil samples, the MDLs and RLs for arsenic exceed the EPA RSL for Resident Soil. In samples where arsenic was not detected above the MDL, it is possible for arsenic to present above the MDL and below the RSL for Resident Soil.
  - In soil vapor samples, due to dilution, the MDL and RL for EDC exceed the DEQ RBCs for Residential and Commercial Soil Vapor as well as the EPA Soil Vapor Residential and Commercial VISLs in one sample. In the soil vapor sample location, where EDC was not detected, it is possible for EDC to be present below the MDL but above its DEQ RBCs or EPA VISLs.
- Certain groundwater sample results for TPH-GRO, TPH-DRO, anthracene, acenaphthene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene, fluorene, fluoranthene, indeno(1,2,3-cd)pyrene, and pyrene were qualified due to method blank detections. Concentrations of these analytes less than the RL are reported at the RL and qualified as non-detect (U) and concentrations greater than the RL but less than 10 times the blank detection are qualified as estimated (J). Concentrations less than the MDL or greater than 10 times the blank detection are not qualified.
- Certain groundwater sample results for benzo(a)anthracene are qualified as estimated, biased high (J+) due to method blank detections.
- Groundwater sample results for TPH-GRO collected on 1/31/2025 were qualified due to a rinsate blank detection. Concentrations of these analytes less than the RL are reported

at the RL and qualified as non-detect (U), while concentrations greater than the RL but less than the blank detection are reported at the sample result and qualified as non-detect (U). Concentrations greater than the RL but less than 10 times the blank detection are qualified as estimated, biased high (J+). Concentrations less than the MDL or greater than 10 times the blank detection are not qualified.

- Groundwater sample results for copper were qualified due to rinsate blank detections. Concentrations less than the RL are reported at the RL and qualified as non-detect (U). Concentrations greater than the RL but less than 10 times the blank detection are reported at the blank result and qualified as estimated, biased high (J+). Concentrations less than the MDL or greater than 10 times the blank detection are not qualified.
- Groundwater sample results for zinc were qualified due to rinsate blank detections. Concentrations less than the RL are reported at the RL and qualified as non-detect (U). Concentrations greater than the RL but less than 10 times the blank detection are qualified as estimated, biased high (J+). Concentrations less than the MDL or greater than 10 times the blank detection are not qualified.
- Certain grab soil sample results for TPH-GRO were qualified due to method blank detections. Concentrations of these analytes less than the RL are reported at the RL and qualified as non-detect (U) and concentrations greater than the RL but less than 10 times the blank detection are qualified as estimated (J). Concentrations less than the MDL or greater than 10 times the blank detection are not qualified.
- Composite soil sample results for silver were qualified due to a method blank detection. Concentrations less than the RL are reported at the RL and qualified as non-detect (U). Concentrations greater than the RL but less than 10 times the blank detection are qualified as estimated, biased high (J+). Concentrations less than the MDL or greater than 10 times the blank detection are not qualified.
- Due to a failed serial dilution test, which indicates matrix interference, the detected results for chromium and zinc in one soil composite sample were qualified as estimated (J).
- Results for ethylbenzene in certain soil vapor sample are qualified as estimated, biased high (J+) due to method blank detections.
- The concentration of m,p-xylene in certain soil vapor samples was raised to the RL and qualified as non-detect (U) due to method blank detections.

### 6.3 Data Accuracy and Precision

Accuracy and precision are also considered acceptable, with the exceptions discussed below.

#### 6.3.1 Accuracy

Alta's QAO qualified the following data based on accuracy results (surrogate/DMC, LCS, or MS %Rs):

- In certain groundwater samples, concentrations of naphthalene that are greater than the MDL are qualified as estimates, biased low (J-), while concentrations less than the MDL are qualified as non-detect estimates (UJ) due to a low surrogate %R.
- The detection of TPH-GRO in one groundwater sample is qualified as estimated, biased high (J+) due to high surrogate %R.
- The detected concentrations of naphthalene in certain groundwater samples were qualified as estimates (J) due to a CCS responding low. Field samples where naphthalene was not detected were qualified as estimated non-detect (UJ).

- The detection of TPH-GRO in one soil grab sample is qualified as estimated, biased high (J+) due to a high surrogate %R.
- Detections of naphthalene (analyzed by 8270C-SIM) in the certain soil grab samples are qualified as estimated, biased low (J-), while results where naphthalene was not detected are qualified as non-detect estimated (UJ) due to low surrogate %R.
- Concentrations of naphthalene were qualified in certain soil grab samples due to low LCS %R and low CCS. Associated samples with concentrations of naphthalene less than the MDL are qualified as non-detect estimated (UJ), while results that were detected above the MDL were qualified as estimated (J).
- The detected concentration of TPH-GRO was qualified in one soil grab sample as estimated (J) due to high %R in the MSD sample.
- The concentration of antimony in one composite soil sample was qualified as estimated (J) due to a %R above laboratory limits in the MS analysis.

### **6.3.2 Precision**

Alta's QAO qualified the following data based on precision results (MSD, LCSD, and field duplicate/replicate RPDs).

- Results of arsenic, beryllium, cadmium, chromium, nickel, mercury, copper, lead, and zinc are qualified in the parent and duplicate composite soil sample due to field duplicate precision. Results where these analytes were less than the MDL will be qualified as non-detect estimated (UJ) and results where these analytes were greater than the MDL will be qualified as estimated (J).

### **6.4 Data Usability**

The Alta QAO did not reject any sample results. Therefore, according to the QAPP (ERG 2025), the completeness for this sampling event is calculated at 100%.

## **7 References and Resources Used**

Eastern Research Group, Inc. (ERG), 2025. Quality Assurance Project Plan for Phase II Site Assessment – 1021 and 1037 Baseline Street, Cornelius, OR. Prepared for the U.S. Environmental Protection Agency, Region 10 Brownfields & Land Revitalization Program. Revision No. 2, January 22.

EPA, 1996. Method 8260B (SW-846): Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS). Revision 2, December.

EPA, 2018c. Method 8270E/8270E-SIM (SW-846): Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS). Revision 6, June.

EPA, 2002. USEPA Guidance on Environmental Data Verification and Data Validation. EPA QA/G-8; November.

EPA, 2009. Guidance for Labeling Externally Validated Laboratory Analytical Data for Superfund Use. OSWER No. 9200.1-85, USEPA 540-R-08-005 prepared by the Office of Solid Waste and Emergency Response; January.

EPA, 2018a. Method 6010D (SW-846): Inductively Coupled Plasma-Optical Emission Spectrometry. Revision 5. July.

EPA, 2018b. Method 8260D (SW-846): Volatile Organic Compounds by Gas Chromatography/Mass Spectrometry (GC/MS). Revision 4, June.

EPA, 2020a. National Functional Guidelines for Organic Superfund Methods Data Review. (SFAM01.1), OLEM 9240.0-51, EPA 540-R-20-005; November.

EPA, 2020b. National Functional Guidelines for Inorganic Superfund Methods Data Review, EPA 542-R-20-006. November.

**Attachment A**  
**Qualified Laboratory Data**

SDG	Lab Sample ID	Client Sample ID	Date Collected	Matrix	Method	Analyte	Units	Dilution	MDL	RDL	Result Sign	Result	Lab Qualifier	Lab Qualifier Reason	Data Validation Result	Data Validation Qualifier	Validation Qual Reason	Final Result	Final Qualifier
L1822303	L1822303-01	BLS-BH1-SG-3	01/27/2025	SG	8260D	BENZENE	mg/kg	1	0.000467	0.001	<	0.000467	U	Not detected above MDL				0.000467	U
L1822303	L1822303-01	BLS-BH1-SG-3	01/27/2025	SG	8260D	1,2-DIBROMOETHANE	mg/kg	1	0.000648	0.0025	<	0.000648	U	Not detected above MDL				0.000648	U
L1822303	L1822303-01	BLS-BH1-SG-3	01/27/2025	SG	8260D	1,2-DICHLOROETHANE	mg/kg	1	0.000649	0.0025	<	0.000649	U	Not detected above MDL				0.000649	U
L1822303	L1822303-01	BLS-BH1-SG-3	01/27/2025	SG	8260D	ETHYLBENZENE	mg/kg	1	0.000737	0.0025	<	0.000737	U	Not detected above MDL				0.000737	U
L1822303	L1822303-01	BLS-BH1-SG-3	01/27/2025	SG	8260D	ISOPROPYLBENZENE	mg/kg	1	0.000425	0.0025	<	0.000425	U	Not detected above MDL				0.000425	U
L1822303	L1822303-01	BLS-BH1-SG-3	01/27/2025	SG	8260D	METHYL TERT-BUTYL ETHER	mg/kg	1	0.00035	0.001	<	0.00035	U	Not detected above MDL				0.00035	U
L1822303	L1822303-01	BLS-BH1-SG-3	01/27/2025	SG	8260D	NAPHTHALENE	mg/kg	1	0.00488	0.0125	<	0.00488	U C3 J4	Not detected above MDL; Low CCS; Low LCS %R	0.00488	UJ	Low LCS %R	0.00488	UJ
L1822303	L1822303-01	BLS-BH1-SG-3	01/27/2025	SG	8260D	N-PROPYLBENZENE	mg/kg	1	0.00095	0.005	<	0.00095	U	Not detected above MDL				0.00095	U
L1822303	L1822303-01	BLS-BH1-SG-3	01/27/2025	SG	8260D	TOLUENE	mg/kg	1	0.0013	0.005	<	0.0013	J	Detected below RL				0.0013	J
L1822303	L1822303-01	BLS-BH1-SG-3	01/27/2025	SG	8260D	1,2,4-TRIMETHYLBENZENE	mg/kg	1	0.00158	0.005	<	0.00158	U	Not detected above MDL				0.00158	U
L1822303	L1822303-01	BLS-BH1-SG-3	01/27/2025	SG	8260D	1,3,5-TRIMETHYLBENZENE	mg/kg	1	0.002	0.005	<	0.002	U	Not detected above MDL				0.002	U
L1822303	L1822303-01	BLS-BH1-SG-3	01/27/2025	SG	8260D	XYLENES, TOTAL	mg/kg	1	0.00088	0.0065	<	0.00088	J	Detected below RL				0.00088	J
L1822303	L1822303-01	BLS-BH1-SG-3	01/27/2025	SG	8270C-SIM	ANTHRACENE	mg/kg	1	0.0023	0.006	<	0.0023	U	Not detected above MDL				0.0023	U
L1822303	L1822303-01	BLS-BH1-SG-3	01/27/2025	SG	8270C-SIM	ACENAPHTHENE	mg/kg	1	0.00209	0.006	<	0.00209	U	Not detected above MDL				0.00209	U
L1822303	L1822303-01	BLS-BH1-SG-3	01/27/2025	SG	8270C-SIM	BENZO(A)ANTHRACENE	mg/kg	1	0.00173	0.006	<	0.00173	U	Not detected above MDL				0.00173	U
L1822303	L1822303-01	BLS-BH1-SG-3	01/27/2025	SG	8270C-SIM	BENZO(A)PYRENE	mg/kg	1	0.00179	0.006	<	0.00179	U	Not detected above MDL				0.00179	U
L1822303	L1822303-01	BLS-BH1-SG-3	01/27/2025	SG	8270C-SIM	BENZO(B)FLUORANTHENE	mg/kg	1	0.00153	0.006	<	0.00153	U	Not detected above MDL				0.00153	U
L1822303	L1822303-01	BLS-BH1-SG-3	01/27/2025	SG	8270C-SIM	BENZO(K)FLUORANTHENE	mg/kg	1	0.00215	0.006	<	0.00215	U	Not detected above MDL				0.00215	U
L1822303	L1822303-01	BLS-BH1-SG-3	01/27/2025	SG	8270C-SIM	CHRYSENE	mg/kg	1	0.00232	0.006	<	0.00232	U	Not detected above MDL				0.00232	U
L1822303	L1822303-01	BLS-BH1-SG-3	01/27/2025	SG	8270C-SIM	DIBENZO(A,H)ANTHRACENE	mg/kg	1	0.00172	0.006	<	0.00172	U	Not detected above MDL				0.00172	U
L1822303	L1822303-01	BLS-BH1-SG-3	01/27/2025	SG	8270C-SIM	FLUORANTHENE	mg/kg	1	0.00227	0.006	<	0.00227	U	Not detected above MDL				0.00227	U
L1822303	L1822303-01	BLS-BH1-SG-3	01/27/2025	SG	8270C-SIM	FLUORENE	mg/kg	1	0.00205	0.006	<	0.00205	U	Not detected above MDL				0.00205	U
L1822303	L1822303-01	BLS-BH1-SG-3	01/27/2025	SG	8270C-SIM	INDENO(1,2,3-CD)PYRENE	mg/kg	1	0.00181	0.006	<	0.00181	U	Not detected above MDL				0.00181	U
L1822303	L1822303-01	BLS-BH1-SG-3	01/27/2025	SG	8270C-SIM	NAPHTHALENE	mg/kg	1	0.00408	0.02	<	0.00408	U	Not detected above MDL				0.00408	U
L1822303	L1822303-01	BLS-BH1-SG-3	01/27/2025	SG	8270C-SIM	PYRENE	mg/kg	1	0.002	0.006	<	0.002	U	Not detected above MDL				0.002	U
L1822303	L1822303-01	BLS-BH1-SG-3	01/27/2025	SG	NWTPHDX-NO SGT	DIESEL RANGE ORGANICS	mg/kg	1	1.33	4	<	1.33	U	Not detected above MDL				1.33	U
L1822303	L1822303-01	BLS-BH1-SG-3	01/27/2025	SG	NWTPHGX	TPHG C6 - C12	mg/kg	25	0.848	2.5	<	0.848	U	Not detected above MDL				0.848	U
L1822303	L1822303-02	BLS-BH2-SG-3	01/27/2025	SG	8260D	BENZENE	mg/kg	1	0.000467	0.001	<	0.000467	U	Not detected above MDL				0.000467	U
L1822303	L1822303-02	BLS-BH2-SG-3	01/27/2025	SG	8260D	1,2-DIBROMOETHANE	mg/kg	1	0.000648	0.0025	<	0.000648	U	Not detected above MDL				0.000648	U
L1822303	L1822303-02	BLS-BH2-SG-3	01/27/2025	SG	8260D	1,2-DICHLOROETHANE	mg/kg	1	0.000649	0.0025	<	0.000649	U	Not detected above MDL				0.000649	U
L1822303	L1822303-02	BLS-BH2-SG-3	01/27/2025	SG	8260D	ETHYLBENZENE	mg/kg	1	0.000737	0.0025	<	0.000737	U	Not detected above MDL				0.000737	U
L1822303	L1822303-02	BLS-BH2-SG-3	01/27/2025	SG	8260D	ISOPROPYLBENZENE	mg/kg	1	0.000425	0.0025	<	0.000425	U	Not detected above MDL				0.000425	U
L1822303	L1822303-02	BLS-BH2-SG-3	01/27/2025	SG	8260D	METHYL TERT-BUTYL ETHER	mg/kg	1	0.00035	0.001	<	0.00035	U	Not detected above MDL				0.00035	U
L1822303	L1822303-02	BLS-BH2-SG-3	01/27/2025	SG	8260D	NAPHTHALENE	mg/kg	1	0.00488	0.0125	<	0.00488	U C3 J4	Not detected above MDL; Low CCS; Low LCS %R	0.00488	UJ	Low LCS %R	0.00488	UJ
L1822303	L1822303-02	BLS-BH2-SG-3	01/27/2025	SG	8260D	N-PROPYLBENZENE	mg/kg	1	0.00095	0.005	<	0.00095	U	Not detected above MDL				0.00095	U
L1822303	L1822303-02	BLS-BH2-SG-3	01/27/2025	SG	8260D	TOLUENE	mg/kg	1	0.0013	0.005	<	0.0013	J	Detected below RL				0.0013	J
L1822303	L1822303-02	BLS-BH2-SG-3	01/27/2025	SG	8260D	1,2,4-TRIMETHYLBENZENE	mg/kg	1	0.00158	0.005	<	0.00158	U	Not detected above MDL				0.00158	U
L1822303	L1822303-02	BLS-BH2-SG-3	01/27/2025	SG	8260D	1,3,5-TRIMETHYLBENZENE	mg/kg	1	0.002	0.005	<	0.002	U	Not detected above MDL				0.002	U
L1822303	L1822303-02	BLS-BH2-SG-3	01/27/2025	SG	8260D	XYLENES, TOTAL	mg/kg	1	0.00088	0.0065	<	0.00088	U	Not detected above MDL				0.00088	U
L1822303	L1822303-02	BLS-BH2-SG-3	01/27/2025	SG	8270C-SIM	ANTHRACENE	mg/kg	1	0.0023	0.006	<	0.0023	U	Not detected above MDL				0.0023	U
L1822303	L1822303-02	BLS-BH2-SG-3	01/27/2025	SG	8270C-SIM	ACENAPHTHENE	mg/kg	1	0.00209	0.006	<	0.00209	U	Not detected above MDL				0.00209	U
L1822303	L1822303-02	BLS-BH2-SG-3	01/27/2025	SG	8270C-SIM	BENZO(A)ANTHRACENE	mg/kg	1	0.00173	0.006	<	0.00173	J	Detected below RL				0.00173	J
L1822303	L1822303-02	BLS-BH2-SG-3	01/27/2025	SG	8270C-SIM	BENZO(A)PYRENE	mg/kg	1	0.00179	0.006	<	0.00179	J	Detected below RL				0.00179	J
L1822303	L1822303-02	BLS-BH2-SG-3	01/27/2025	SG	8270C-SIM	BENZO(B)FLUORANTHENE	mg/kg	1	0.00153	0.006	<	0.00153	U	Not detected above MDL				0.00153	U
L1822303	L1822303-02	BLS-BH2-SG-3	01/27/2025	SG	8270C-SIM	BENZO(K)FLUORANTHENE	mg/kg	1	0.00215	0.006	<	0.00215	U	Not detected above MDL				0.00215	U
L1822303	L1822303-02	BLS-BH2-SG-3	01/27/2025	SG	8270C-SIM	CHRYSENE	mg/kg	1	0.00232	0.006	<	0.00232	U	Not detected above MDL				0.00232	U
L1822303	L1822303-02	BLS-BH2-SG-3	01/27/2025	SG	8270C-SIM	DIBENZO(A,H)ANTHRACENE	mg/kg	1	0.00172	0.006	<	0.00172	J	Detected below RL				0.00172	J
L1822303	L1822303-02	BLS-BH2-SG-3	01/27/2025	SG	8270C-SIM	FLUORANTHENE	mg/kg	1	0.00227	0.006	<	0.00227	J	Detected below RL				0.00227	J
L1822303	L1822303-02	BLS-BH2-SG-3	01/27/2025	SG	8270C-SIM	FLUORENE	mg/kg	1	0.00205	0.006	<	0.00205	J	Detected below RL				0.00205	J
L1822303	L1822303-02	BLS-BH2-SG-3	01/27/2025	SG	8270C-SIM	INDENO(1,2,3-CD)PYRENE	mg/kg	1	0.00181	0.006	<	0.00181	J	Detected below RL				0.00181	J
L1822303	L1822303-02	BLS-BH2-SG-3	01/27/2025	SG	8270C-SIM	NAPHTHALENE	mg/kg	1	0.00408	0.02	<	0.00408	J	Detected below RL				0.00408	J
L1822303	L1822303-02	BLS-BH2-SG-3	01/27/2025	SG	8270C-SIM	PYRENE	mg/kg	1	0.002	0.006	<	0.002	J	Detected below RL				0.002	J
L1822303	L1822303-02	BLS-BH2-SG-3	01/27/2025	SG	NWTPHDX-NO SGT	DIESEL RANGE ORGANICS	mg/kg	1	1.33	4	<	1.33	U	Not detected above MDL				1.33	U
L1822303	L1822303-02	BLS-BH2-SG-3	01/27/2025	SG	NWTPHGX	TPHG C6 - C12	mg/kg	25	0.848	2.5	<	0.848	U	Not detected above MDL				0.848	U
L1822303	L1822303-03	BLS-BH3-SG-3	01/27/2025	SG	8260D	BENZENE	mg/kg	1.1	0.000514	0.0011	<	0.000514	U	Not detected above MDL				0.000514	U
L1822303	L1822303-03	BLS-BH3-SG-3	01/27/2025	SG	8260D	1,2-DIBROMOETHANE	mg/kg	1.1	0.000713	0.00275	<	0.000713	U	Not detected above MDL				0.000713	U
L1822303	L1822303-03	BLS-BH3-SG-3	01/27/2025	SG	8260D	1,2-DICHLOROETHANE	mg/kg	1.1	0.000714	0.00275	<	0.000714	U	Not detected above MDL				0.000714	U
L1822303	L1822303-03	BLS-BH3-SG-3	01/27/2025	SG	8260D	ETHYLBENZENE	mg/kg	1.1	0.000811										

SDG	Lab Sample ID	Client Sample ID	Date Collected	Matrix	Method	Analyte	Units	Dilution	MDL	RDL	Result Sign	Result	Lab Qualifier	Lab Qualifier Reason	Data Validation Result	Data Validation Qualifier	Validation Qual Reason	Final Result	Final Qualifier
L1822303	L1822303-04	BLS-BH3-SG-DUP	01/27/2025	SG	8270C-SIM	NAPHTHALENE	mg/kg	1	0.00408	0.02	<	0.00408	U	Not detected above MDL				0.00408	U
L1822303	L1822303-04	BLS-BH3-SG-DUP	01/27/2025	SG	8270C-SIM	PYRENE	mg/kg	1	0.002	0.006	<	0.002	U	Not detected above MDL				0.002	U
L1822303	L1822303-04	BLS-BH3-SG-DUP	01/27/2025	SG	NWTPHDX-NO SGT	DIESEL RANGE ORGANICS	mg/kg	1	1.33	4	<	1.44	J	Detected below RL				1.44	J
L1822303	L1822303-04	BLS-BH3-SG-DUP	01/27/2025	SG	NWTPHGX	TPHG C6 - C12	mg/kg	25	0.848	2.5	<	0.848	U	Not detected above MDL				0.848	U
L1822303	L1822303-05	BLS-BH4-SG-10	01/27/2025	SG	8260D	BENZENE	mg/kg	1	0.000467	0.001	<	0.000467	U	Not detected above MDL				0.000467	U
L1822303	L1822303-05	BLS-BH4-SG-10	01/27/2025	SG	8260D	1,2-DIBROMOETHANE	mg/kg	1	0.000648	0.0025	<	0.000648	U	Not detected above MDL				0.000648	U
L1822303	L1822303-05	BLS-BH4-SG-10	01/27/2025	SG	8260D	1,2-DICHLOROETHANE	mg/kg	1	0.000649	0.0025	<	0.000649	U	Not detected above MDL				0.000649	U
L1822303	L1822303-05	BLS-BH4-SG-10	01/27/2025	SG	8260D	ETHYLBENZENE	mg/kg	1	0.000737	0.0025	<	0.000737	U	Not detected above MDL				0.000737	U
L1822303	L1822303-05	BLS-BH4-SG-10	01/27/2025	SG	8260D	ISOPROPYLBENZENE	mg/kg	1	0.000425	0.0025	<	0.000425	U	Not detected above MDL				0.000425	U
L1822303	L1822303-05	BLS-BH4-SG-10	01/27/2025	SG	8260D	METHYL TERT-BUTYL ETHER	mg/kg	1	0.00035	0.001	<	0.00035	U	Not detected above MDL				0.00035	U
L1822303	L1822303-05	BLS-BH4-SG-10	01/27/2025	SG	8260D	NAPHTHALENE	mg/kg	1	0.00488	0.0125	<	0.00488	U C3 J4	Not detected above MDL; Low CCS; Low LCS %R	0.00488	UJ	Low LCS %R	0.00488	UJ
L1822303	L1822303-05	BLS-BH4-SG-10	01/27/2025	SG	8260D	N-PROPYLBENZENE	mg/kg	1	0.00095	0.005	<	0.00095	U	Not detected above MDL				0.00095	U
L1822303	L1822303-05	BLS-BH4-SG-10	01/27/2025	SG	8260D	TOLUENE	mg/kg	1	0.0013	0.005	<	0.0013	U	Not detected above MDL				0.0013	U
L1822303	L1822303-05	BLS-BH4-SG-10	01/27/2025	SG	8260D	1,2,4-TRIMETHYLBENZENE	mg/kg	1	0.00158	0.005	<	0.00158	U	Not detected above MDL				0.00158	U
L1822303	L1822303-05	BLS-BH4-SG-10	01/27/2025	SG	8260D	1,3,5-TRIMETHYLBENZENE	mg/kg	1	0.002	0.005	<	0.002	U	Not detected above MDL				0.002	U
L1822303	L1822303-05	BLS-BH4-SG-10	01/27/2025	SG	8260D	XYLENES, TOTAL	mg/kg	1	0.00088	0.0065	<	0.00088	U	Not detected above MDL				0.00088	U
L1822303	L1822303-05	BLS-BH4-SG-10	01/27/2025	SG	8270C-SIM	ANTHRACENE	mg/kg	1	0.0023	0.006	<	0.0023	U	Not detected above MDL				0.0023	U
L1822303	L1822303-05	BLS-BH4-SG-10	01/27/2025	SG	8270C-SIM	ACENAPHTHENE	mg/kg	1	0.00209	0.006	<	0.00209	U	Not detected above MDL				0.00209	U
L1822303	L1822303-05	BLS-BH4-SG-10	01/27/2025	SG	8270C-SIM	BENZO(A)ANTHRACENE	mg/kg	1	0.00173	0.006	<	0.00173	U	Not detected above MDL				0.00173	U
L1822303	L1822303-05	BLS-BH4-SG-10	01/27/2025	SG	8270C-SIM	BENZO(A)PYRENE	mg/kg	1	0.00179	0.006	<	0.00179	U	Not detected above MDL				0.00179	U
L1822303	L1822303-05	BLS-BH4-SG-10	01/27/2025	SG	8270C-SIM	BENZO(B)FLUORANTHENE	mg/kg	1	0.00153	0.006	<	0.00153	U	Not detected above MDL				0.00153	U
L1822303	L1822303-05	BLS-BH4-SG-10	01/27/2025	SG	8270C-SIM	BENZO(K)FLUORANTHENE	mg/kg	1	0.00215	0.006	<	0.00215	U	Not detected above MDL				0.00215	U
L1822303	L1822303-05	BLS-BH4-SG-10	01/27/2025	SG	8270C-SIM	CHRYSENE	mg/kg	1	0.00232	0.006	<	0.00232	U	Not detected above MDL				0.00232	U
L1822303	L1822303-05	BLS-BH4-SG-10	01/27/2025	SG	8270C-SIM	DIBENZ(A,H)ANTHRACENE	mg/kg	1	0.00172	0.006	<	0.00172	U	Not detected above MDL				0.00172	U
L1822303	L1822303-05	BLS-BH4-SG-10	01/27/2025	SG	8270C-SIM	FLUORANTHENE	mg/kg	1	0.00227	0.006	<	0.00227	U	Not detected above MDL				0.00227	U
L1822303	L1822303-05	BLS-BH4-SG-10	01/27/2025	SG	8270C-SIM	FLUORENE	mg/kg	1	0.00205	0.006	<	0.00205	U	Not detected above MDL				0.00205	U
L1822303	L1822303-05	BLS-BH4-SG-10	01/27/2025	SG	8270C-SIM	INDENO(1,2,3-CD)PYRENE	mg/kg	1	0.00181	0.006	<	0.00181	U	Not detected above MDL				0.00181	U
L1822303	L1822303-05	BLS-BH4-SG-10	01/27/2025	SG	8270C-SIM	NAPHTHALENE	mg/kg	1	0.00408	0.02	<	0.00408	U	Not detected above MDL				0.00408	U
L1822303	L1822303-05	BLS-BH4-SG-10	01/27/2025	SG	8270C-SIM	PYRENE	mg/kg	1	0.002	0.006	<	0.002	U	Not detected above MDL				0.002	U
L1822303	L1822303-05	BLS-BH4-SG-10	01/27/2025	SG	NWTPHDX-NO SGT	DIESEL RANGE ORGANICS	mg/kg	1	1.33	4	<	1.33	U	Not detected above MDL				1.33	U
L1822303	L1822303-05	BLS-BH4-SG-10	01/27/2025	SG	NWTPHGX	TPHG C6 - C12	mg/kg	25	0.848	2.5	<	0.848	U	Not detected above MDL				0.848	U
L1822303	L1822303-06	BLS-BH5-SG-3	01/27/2025	SG	8260D	BENZENE	mg/kg	1	0.000467	0.001	<	0.000467	U	Not detected above MDL				0.000467	U
L1822303	L1822303-06	BLS-BH5-SG-3	01/27/2025	SG	8260D	1,2-DIBROMOETHANE	mg/kg	1	0.000648	0.0025	<	0.000648	U	Not detected above MDL				0.000648	U
L1822303	L1822303-06	BLS-BH5-SG-3	01/27/2025	SG	8260D	1,2-DICHLOROETHANE	mg/kg	1	0.000649	0.0025	<	0.000649	U	Not detected above MDL				0.000649	U
L1822303	L1822303-06	BLS-BH5-SG-3	01/27/2025	SG	8260D	ETHYLBENZENE	mg/kg	1	0.000737	0.0025	<	0.000737	U	Not detected above MDL				0.000737	U
L1822303	L1822303-06	BLS-BH5-SG-3	01/27/2025	SG	8260D	ISOPROPYLBENZENE	mg/kg	1	0.000425	0.0025	<	0.000425	U	Not detected above MDL				0.000425	U
L1822303	L1822303-06	BLS-BH5-SG-3	01/27/2025	SG	8260D	METHYL TERT-BUTYL ETHER	mg/kg	1	0.00035	0.001	<	0.00035	U	Not detected above MDL				0.00035	U
L1822303	L1822303-06	BLS-BH5-SG-3	01/27/2025	SG	8260D	NAPHTHALENE	mg/kg	1	0.00488	0.0125	<	0.00488	U C3 J4	Not detected above MDL; Low CCS; Low LCS %R	0.00488	UJ	Low LCS %R	0.00488	UJ
L1822303	L1822303-06	BLS-BH5-SG-3	01/27/2025	SG	8260D	N-PROPYLBENZENE	mg/kg	1	0.00095	0.005	<	0.00095	U	Not detected above MDL				0.00095	U
L1822303	L1822303-06	BLS-BH5-SG-3	01/27/2025	SG	8260D	TOLUENE	mg/kg	1	0.0013	0.005	<	0.0013	U	Not detected above MDL				0.0013	U
L1822303	L1822303-06	BLS-BH5-SG-3	01/27/2025	SG	8260D	1,2,4-TRIMETHYLBENZENE	mg/kg	1	0.00158	0.005	<	0.00158	U	Not detected above MDL				0.00158	U
L1822303	L1822303-06	BLS-BH5-SG-3	01/27/2025	SG	8260D	1,3,5-TRIMETHYLBENZENE	mg/kg	1	0.002	0.005	<	0.002	U	Not detected above MDL				0.002	U
L1822303	L1822303-06	BLS-BH5-SG-3	01/27/2025	SG	8260D	XYLENES, TOTAL	mg/kg	1	0.00088	0.0065	<	0.00088	U	Not detected above MDL				0.00088	U
L1822303	L1822303-06	BLS-BH5-SG-3	01/27/2025	SG	8270C-SIM	ANTHRACENE	mg/kg	1	0.0023	0.006	<	0.0023	U	Not detected above MDL				0.0023	U
L1822303	L1822303-06	BLS-BH5-SG-3	01/27/2025	SG	8270C-SIM	ACENAPHTHENE	mg/kg	1	0.00209	0.006	<	0.00209	U	Not detected above MDL				0.00209	U
L1822303	L1822303-06	BLS-BH5-SG-3	01/27/2025	SG	8270C-SIM	BENZO(A)ANTHRACENE	mg/kg	1	0.00173	0.006	<	0.00173	U	Not detected above MDL				0.00173	U
L1822303	L1822303-06	BLS-BH5-SG-3	01/27/2025	SG	8270C-SIM	BENZO(A)PYRENE	mg/kg	1	0.00179	0.006	<	0.00179	U	Not detected above MDL				0.00179	U
L1822303	L1822303-06	BLS-BH5-SG-3	01/27/2025	SG	8270C-SIM	BENZO(B)FLUORANTHENE	mg/kg	1	0.00153	0.006	<	0.00153	U	Not detected above MDL				0.00153	U
L1822303	L1822303-06	BLS-BH5-SG-3	01/27/2025	SG	8270C-SIM	BENZO(K)FLUORANTHENE	mg/kg	1	0.00215	0.006	<	0.00215	U	Not detected above MDL				0.00215	U
L1822303	L1822303-06	BLS-BH5-SG-3	01/27/2025	SG	8270C-SIM	CHRYSENE	mg/kg	1	0.00232	0.006	<	0.00232	U	Not detected above MDL				0.00232	U
L1822303	L1822303-06	BLS-BH5-SG-3	01/27/2025	SG	8270C-SIM	DIBENZ(A,H)ANTHRACENE	mg/kg	1	0.00172	0.006	<	0.00172	U	Not detected above MDL				0.00172	U
L1822303	L1822303-06	BLS-BH5-SG-3	01/27/2025	SG	8270C-SIM	FLUORANTHENE	mg/kg	1	0.00227	0.006	<	0.00227	U	Not detected above MDL				0.00227	U
L1822303	L1822303-06	BLS-BH5-SG-3	01/27/2025	SG	8270C-SIM	FLUORENE	mg/kg	1	0.00205	0.006	<	0.00205	U	Not detected above MDL				0.00205	U
L1822303	L1822303-06	BLS-BH5-SG-3	01/27/2025	SG	8270C-SIM	INDENO(1,2,3-CD)PYRENE	mg/kg	1	0.00181	0.006	<	0.00181	U	Not detected above MDL				0.00181	U
L1822303	L1822303-06	BLS-BH5-SG-3	01/27/2025	SG	8270C-SIM	NAPHTHALENE	mg/kg	1	0.00408	0.02	<	0.00408	U	Not detected above MDL				0.00408	U
L1822303	L1822303-06	BLS-BH5-SG-3	01/27/2025	SG	8270C-SIM	PYRENE	mg/kg	1	0.002	0.006	<	0.002	U	Not detected above MDL				0.002	U
L1822303	L1822303-06	BLS-BH5-SG-3	01/27/2025	SG	NWTPHDX-NO SGT	DIESEL RANGE ORGANICS	mg/kg	1	1.33	4	<	1.33	U	Not detected above MDL				1.33	U
L1822303	L1822303-06	BLS-BH5-SG-3	01/27/2025	SG	NWTPHGX	TPHG C6 - C12	mg/kg	25	0.848	2.5	<	0.848	U	Not detected above MDL				0.848	U
L1822303	L1822303-07	BLS-BH6-SG-3	01/27/2025	SG	8260D	BENZENE	mg/kg	1	0.000467	0.001	<	0.000467	U	Not detected above MDL				0.000467	U
L1822303	L1822303-07	BLS-BH6-SG-3	01/27/2025	SG	8260D	1,2-DIBROMOETHANE	mg/kg	1	0.000648	0.0025	<	0.000648	U	Not detected above MDL				0.000648	U
L1822303	L1822303-07	BLS-BH6-SG-3	01/27/2025	SG	8260D	1,2-DICHLOROETHANE	mg/kg	1	0.000649	0.0025	<	0.000649	U	Not detected above MDL				0.000649	U
L1822303	L1822303-07	BLS-BH6-SG-3	01/27/2025	SG	8260D	ETHYLBENZENE	mg/kg	1	0.000737	0.0025	<	0.000737	U	Not detected above MDL				0.000737	U
L1822303	L1822303-07	BLS-BH6-SG-3	01/27/2025	SG	8260D	ISOPROPYLBENZENE	mg/kg	1	0.000425	0.0025	<	0.000425	U	Not detected above MDL				0.000425	U
L1822303	L1822303-07	BLS-BH6-SG-3	01/27/2025	SG	8260D	METHYL TERT-BUTYL ETHER	mg/kg	1	0.00035	0.001	<	0.00035	U	Not detected above MDL				0.00035	U
L1822303	L1822303-07	BLS-BH6																	

SDG	Lab Sample ID	Client Sample ID	Date Collected	Matrix	Method	Analyte	Units	Dilution	MDL	RDL	Result Sign	Result	Lab Qualifier	Lab Qualifier Reason	Data Validation Result	Data Validation Qualifier	Validation Qual Reason	Final Result	Final Qualifier
L1822303	L1822303-08	BLS-BH7-SG-12	01/27/2025	SG	8270C-SIM	DIBENZ(A,H)ANTHRACENE	mg/kg	1	0.00172	0.006	<	0.00172	U	Not detected above MDL				0.00172	U
L1822303	L1822303-08	BLS-BH7-SG-12	01/27/2025	SG	8270C-SIM	FLUORANTHENE	mg/kg	1	0.00227	0.006	<	0.00227	U	Not detected above MDL				0.00227	U
L1822303	L1822303-08	BLS-BH7-SG-12	01/27/2025	SG	8270C-SIM	FLUORENE	mg/kg	1	0.00205	0.006	<	0.00214	J	Detected below RL				0.00214	J
L1822303	L1822303-08	BLS-BH7-SG-12	01/27/2025	SG	8270C-SIM	INDENO(1,2,3-CD)PYRENE	mg/kg	1	0.00181	0.006	<	0.00181	U	Not detected above MDL				0.00181	U
L1822303	L1822303-08	BLS-BH7-SG-12	01/27/2025	SG	8270C-SIM	NAPHTHALENE	mg/kg	1	0.00408	0.02	<	0.00408	U	Not detected above MDL				0.00408	U
L1822303	L1822303-08	BLS-BH7-SG-12	01/27/2025	SG	8270C-SIM	PYRENE	mg/kg	1	0.002	0.006	<	0.002	U	Not detected above MDL				0.002	U
L1822303	L1822303-08	BLS-BH7-SG-12	01/27/2025	SG	NWTPHDX-NO SGT	DIESEL RANGE ORGANICS	mg/kg	1	1.33	4		8.44						8.44	
L1822303	L1822303-08	BLS-BH7-SG-12	01/27/2025	SG	NWTPHGX	TPHG C6 - C12	mg/kg	25	0.848	2.5		6.39	J3 J5	High MSD %R; High MS/MSD RPD	6.39	J	High MSD %R; High MS/MSD RPD	6.39	J
L1822303	L1822303-09	BLS-BH8-SG-10	01/28/2025	SG	8260D	BENZENE	mg/kg	40	0.0187	0.04	<	0.0187	U	Not detected above MDL				0.0187	U
L1822303	L1822303-09	BLS-BH8-SG-10	01/28/2025	SG	8260D	1,2-DIBROMOETHANE	mg/kg	40	0.0259	0.1	<	0.0259	U	Not detected above MDL				0.0259	U
L1822303	L1822303-09	BLS-BH8-SG-10	01/28/2025	SG	8260D	1,2-DICHLOROETHANE	mg/kg	40	0.026	0.1	<	0.026	U	Not detected above MDL				0.026	U
L1822303	L1822303-09	BLS-BH8-SG-10	01/28/2025	SG	8260D	ETHYLBENZENE	mg/kg	40	0.0295	0.1	<	37.8						37.8	
L1822303	L1822303-09	BLS-BH8-SG-10	01/28/2025	SG	8260D	ISOPROPYLBENZENE	mg/kg	40	0.017	0.1	<	11.4						11.4	
L1822303	L1822303-09	BLS-BH8-SG-10	01/28/2025	SG	8260D	METHYL TERT-BUTYL ETHER	mg/kg	40	0.014	0.04	<	0.014	U	Not detected above MDL				0.014	U
L1822303	L1822303-09	BLS-BH8-SG-10	01/28/2025	SG	8260D	NAPHTHALENE	mg/kg	40	0.195	0.5	<	27.3	C3 J4	Low CCS; Low LCS %R	27.3	J	Low LCS %R	27.3	J
L1822303	L1822303-09	BLS-BH8-SG-10	01/28/2025	SG	8260D	N-PROPYLBENZENE	mg/kg	40	0.038	0.2	<	47.1						47.1	
L1822303	L1822303-09	BLS-BH8-SG-10	01/28/2025	SG	8260D	TOLUENE	mg/kg	40	0.052	0.2	<	0.052	U	Not detected above MDL				0.052	U
L1822303	L1822303-09	BLS-BH8-SG-10	01/28/2025	SG	8260D	1,2,4-TRIMETHYLBENZENE	mg/kg	40	0.0632	0.2	<	3.92						3.92	
L1822303	L1822303-09	BLS-BH8-SG-10	01/28/2025	SG	8260D	1,3,5-TRIMETHYLBENZENE	mg/kg	40	0.08	0.2	<	11.6						11.6	
L1822303	L1822303-09	BLS-BH8-SG-10	01/28/2025	SG	8260D	XYLENES, TOTAL	mg/kg	40	0.0352	0.26	<	1.82						1.82	
L1822303	L1822303-09	BLS-BH8-SG-10	01/28/2025	SG	8270C-SIM	ANTHRACENE	mg/kg	1	0.0023	0.006	<	0.0023	U	Not detected above MDL				0.0023	U
L1822303	L1822303-09	BLS-BH8-SG-10	01/28/2025	SG	8270C-SIM	ACENAPHTHENE	mg/kg	1	0.00209	0.006	<	0.00653						0.00653	
L1822303	L1822303-09	BLS-BH8-SG-10	01/28/2025	SG	8270C-SIM	BENZO(A)ANTHRACENE	mg/kg	1	0.00173	0.006	<	0.00173	U	Not detected above MDL				0.00173	U
L1822303	L1822303-09	BLS-BH8-SG-10	01/28/2025	SG	8270C-SIM	BENZO(A)PYRENE	mg/kg	1	0.00179	0.006	<	0.00179	U	Not detected above MDL				0.00179	U
L1822303	L1822303-09	BLS-BH8-SG-10	01/28/2025	SG	8270C-SIM	BENZO(B)FLUORANTHENE	mg/kg	1	0.00153	0.006	<	0.00153	U	Not detected above MDL				0.00153	U
L1822303	L1822303-09	BLS-BH8-SG-10	01/28/2025	SG	8270C-SIM	BENZO(K)FLUORANTHENE	mg/kg	1	0.00215	0.006	<	0.00215	U	Not detected above MDL				0.00215	U
L1822303	L1822303-09	BLS-BH8-SG-10	01/28/2025	SG	8270C-SIM	CHRYSENE	mg/kg	1	0.00232	0.006	<	0.00232	U	Not detected above MDL				0.00232	U
L1822303	L1822303-09	BLS-BH8-SG-10	01/28/2025	SG	8270C-SIM	DIBENZ(A,H)ANTHRACENE	mg/kg	1	0.00172	0.006	<	0.00172	U	Not detected above MDL				0.00172	U
L1822303	L1822303-09	BLS-BH8-SG-10	01/28/2025	SG	8270C-SIM	FLUORANTHENE	mg/kg	1	0.00227	0.006	<	0.00227	U	Not detected above MDL				0.00227	U
L1822303	L1822303-09	BLS-BH8-SG-10	01/28/2025	SG	8270C-SIM	FLUORENE	mg/kg	1	0.00205	0.006	<	0.00399	J	Detected below RL				0.00399	J
L1822303	L1822303-09	BLS-BH8-SG-10	01/28/2025	SG	8270C-SIM	INDENO(1,2,3-CD)PYRENE	mg/kg	1	0.00181	0.006	<	0.00181	U	Not detected above MDL				0.00181	U
L1822303	L1822303-09	BLS-BH8-SG-10	01/28/2025	SG	8270C-SIM	NAPHTHALENE	mg/kg	1	0.00408	0.02	<	0.279						0.279	
L1822303	L1822303-09	BLS-BH8-SG-10	01/28/2025	SG	8270C-SIM	PYRENE	mg/kg	1	0.002	0.006	<	0.002	U	Not detected above MDL				0.002	U
L1822303	L1822303-09	BLS-BH8-SG-10	01/28/2025	SG	NWTPHDX-NO SGT	DIESEL RANGE ORGANICS	mg/kg	1	1.33	4		25.1						25.1	
L1822303	L1822303-09	BLS-BH8-SG-10	01/28/2025	SG	NWTPHGX	TPHG C6 - C12	mg/kg	500	16.9	50		3690			3690	J+	High surrogate recovery	3690	J+
L1822303	L1822303-10	BLS-BH9-SG-10	01/28/2025	SG	8260D	BENZENE	mg/kg	1	0.000467	0.001	<	0.000467	U	Not detected above MDL				0.000467	U
L1822303	L1822303-10	BLS-BH9-SG-10	01/28/2025	SG	8260D	1,2-DIBROMOETHANE	mg/kg	1	0.000648	0.0025	<	0.000648	U	Not detected above MDL				0.000648	U
L1822303	L1822303-10	BLS-BH9-SG-10	01/28/2025	SG	8260D	1,2-DICHLOROETHANE	mg/kg	1	0.000649	0.0025	<	0.000649	U	Not detected above MDL				0.000649	U
L1822303	L1822303-10	BLS-BH9-SG-10	01/28/2025	SG	8260D	ETHYLBENZENE	mg/kg	1	0.000737	0.0025	<	0.000737	U	Not detected above MDL				0.000737	U
L1822303	L1822303-10	BLS-BH9-SG-10	01/28/2025	SG	8260D	ISOPROPYLBENZENE	mg/kg	1	0.000425	0.0025	<	0.000425	U	Not detected above MDL				0.000425	U
L1822303	L1822303-10	BLS-BH9-SG-10	01/28/2025	SG	8260D	METHYL TERT-BUTYL ETHER	mg/kg	1	0.00035	0.001	<	0.00035	U	Not detected above MDL				0.00035	U
L1822303	L1822303-10	BLS-BH9-SG-10	01/28/2025	SG	8260D	NAPHTHALENE	mg/kg	1	0.00488	0.0125	<	0.00488	U C3 J4	Not detected above MDL; Low CCS; Low LCS %R	0.00488	UJ	Low LCS %R	0.00488	UJ
L1822303	L1822303-10	BLS-BH9-SG-10	01/28/2025	SG	8260D	N-PROPYLBENZENE	mg/kg	1	0.00095	0.005	<	0.00095	U	Not detected above MDL				0.00095	U
L1822303	L1822303-10	BLS-BH9-SG-10	01/28/2025	SG	8260D	TOLUENE	mg/kg	1	0.0013	0.005	<	0.0013	U	Not detected above MDL				0.0013	U
L1822303	L1822303-10	BLS-BH9-SG-10	01/28/2025	SG	8260D	1,2,4-TRIMETHYLBENZENE	mg/kg	1	0.00158	0.005	<	0.00158	U	Not detected above MDL				0.00158	U
L1822303	L1822303-10	BLS-BH9-SG-10	01/28/2025	SG	8260D	1,3,5-TRIMETHYLBENZENE	mg/kg	1	0.002	0.005	<	0.002	U	Not detected above MDL				0.002	U
L1822303	L1822303-10	BLS-BH9-SG-10	01/28/2025	SG	8260D	XYLENES, TOTAL	mg/kg	1	0.00088	0.0065	<	0.00088	U	Not detected above MDL				0.00088	U
L1822303	L1822303-10	BLS-BH9-SG-10	01/28/2025	SG	8270C-SIM	ANTHRACENE	mg/kg	1	0.0023	0.006	<	0.0023	U	Not detected above MDL				0.0023	U
L1822303	L1822303-10	BLS-BH9-SG-10	01/28/2025	SG	8270C-SIM	ACENAPHTHENE	mg/kg	1	0.00209	0.006	<	0.00209	U	Not detected above MDL				0.00209	U
L1822303	L1822303-10	BLS-BH9-SG-10	01/28/2025	SG	8270C-SIM	BENZO(A)ANTHRACENE	mg/kg	1	0.00173	0.006	<	0.00173	U	Not detected above MDL				0.00173	U
L1822303	L1822303-10	BLS-BH9-SG-10	01/28/2025	SG	8270C-SIM	BENZO(A)PYRENE	mg/kg	1	0.00179	0.006	<	0.00179	U	Not detected above MDL				0.00179	U
L1822303	L1822303-10	BLS-BH9-SG-10	01/28/2025	SG	8270C-SIM	BENZO(B)FLUORANTHENE	mg/kg	1	0.00153	0.006	<	0.00153	U	Not detected above MDL				0.00153	U
L1822303	L1822303-10	BLS-BH9-SG-10	01/28/2025	SG	8270C-SIM	BENZO(K)FLUORANTHENE	mg/kg	1	0.00215	0.006	<	0.00215	U	Not detected above MDL				0.00215	U
L1822303	L1822303-10	BLS-BH9-SG-10	01/28/2025	SG	8270C-SIM	CHRYSENE	mg/kg	1	0.00232	0.006	<	0.00232	U	Not detected above MDL				0.00232	U
L1822303	L1822303-10	BLS-BH9-SG-10	01/28/2025	SG	8270C-SIM	DIBENZ(A,H)ANTHRACENE	mg/kg	1	0.00172	0.006	<	0.00172	U	Not detected above MDL				0.00172	U
L1822303	L1822303-10	BLS-BH9-SG-10	01/28/2025	SG	8270C-SIM	FLUORANTHENE	mg/kg	1	0.00227	0.006	<	0.00227	U	Not detected above MDL				0.00227	U
L1822303	L1822303-10	BLS-BH9-SG-10	01/28/2025	SG	8270C-SIM	FLUORENE	mg/kg	1	0.00205	0.006	<	0.00205	U	Not detected above MDL				0.00205	U
L1822303	L1822303-10	BLS-BH9-SG-10	01/28/2025	SG	8270C-SIM	INDENO(1,2,3-CD)PYRENE	mg/kg	1	0.00181	0.006	<	0.00181	U	Not detected above MDL				0.00181	U
L1822303	L1822303-10	BLS																	

SDG	Lab Sample ID	Client Sample ID	Date Collected	Matrix	Method	Analyte	Units	Dilution	MDL	RDL	Result Sign	Result	Lab Qualifier	Lab Qualifier Reason	Data Validation Result	Data Validation Qualifier	Validation Qual Reason	Final Result	Final Qualifier
L1822303	L1822303-12	BLS-BH11-SG-10	01/28/2025	SG	8270C-SIM	BENZO(A)PYRENE	mg/kg	1	0.00179	0.006	<	0.00179	U	Not detected above MDL				0.00179	U
L1822303	L1822303-12	BLS-BH11-SG-10	01/28/2025	SG	8270C-SIM	BENZO(B)FLUORANTHENE	mg/kg	1	0.00153	0.006	<	0.00153	U	Not detected above MDL				0.00153	U
L1822303	L1822303-12	BLS-BH11-SG-10	01/28/2025	SG	8270C-SIM	BENZO(K)FLUORANTHENE	mg/kg	1	0.00215	0.006	<	0.00215	U	Not detected above MDL				0.00215	U
L1822303	L1822303-12	BLS-BH11-SG-10	01/28/2025	SG	8270C-SIM	CHRYSENE	mg/kg	1	0.00232	0.006	<	0.00232	U	Not detected above MDL				0.00232	U
L1822303	L1822303-12	BLS-BH11-SG-10	01/28/2025	SG	8270C-SIM	DIBENZ(A,H)ANTHRACENE	mg/kg	1	0.00172	0.006	<	0.00172	U	Not detected above MDL				0.00172	U
L1822303	L1822303-12	BLS-BH11-SG-10	01/28/2025	SG	8270C-SIM	FLUORANTHENE	mg/kg	1	0.00227	0.006	<	0.00388	J	Detected below RL				0.00388	J
L1822303	L1822303-12	BLS-BH11-SG-10	01/28/2025	SG	8270C-SIM	FLUORENE	mg/kg	1	0.00205	0.006	<	0.00992						0.00992	
L1822303	L1822303-12	BLS-BH11-SG-10	01/28/2025	SG	8270C-SIM	INDENO(1,2,3-CD)PYRENE	mg/kg	1	0.00181	0.006	<	0.00181	U	Not detected above MDL				0.00181	U
L1822303	L1822303-12	BLS-BH11-SG-10	01/28/2025	SG	8270C-SIM	NAPHTHALENE	mg/kg	1	0.00408	0.02	<	1.12			1.12	J-	Low surrogate recovery	1.12	J-
L1822303	L1822303-12	BLS-BH11-SG-10	01/28/2025	SG	8270C-SIM	PYRENE	mg/kg	1	0.002	0.006	<	0.00363	J	Detected below RL				0.00363	J
L1822303	L1822303-12	BLS-BH11-SG-10	01/28/2025	SG	NWTPHDX-NO SGT	DIESEL RANGE ORGANICS	mg/kg	1	1.33	4	<	103						103	
L1822303	L1822303-12	BLS-BH11-SG-10	01/28/2025	SG	NWTPHGX	TPHG C6 - C12	mg/kg	250	8.48	25	<	251		Method blank detection- No qual needed				251	
L1822303	L1822303-13	BLS-BH12-SG-10	01/28/2025	SG	8260D	BENZENE	mg/kg	8	0.00374	0.008	<	0.00374	U	Not detected above MDL				0.00374	U
L1822303	L1822303-13	BLS-BH12-SG-10	01/28/2025	SG	8260D	1,2-DIBROMOETHANE	mg/kg	8	0.00518	0.02	<	0.00518	U	Not detected above MDL				0.00518	U
L1822303	L1822303-13	BLS-BH12-SG-10	01/28/2025	SG	8260D	1,2-DICHLOROETHANE	mg/kg	8	0.00519	0.02	<	0.00519	U	Not detected above MDL				0.00519	U
L1822303	L1822303-13	BLS-BH12-SG-10	01/28/2025	SG	8260D	ETHYLBENZENE	mg/kg	8	0.0059	0.02	<	0.953						0.953	
L1822303	L1822303-13	BLS-BH12-SG-10	01/28/2025	SG	8260D	ISOPROPYLBENZENE	mg/kg	8	0.0034	0.02	<	3.23						3.23	
L1822303	L1822303-13	BLS-BH12-SG-10	01/28/2025	SG	8260D	METHYL TERT-BUTYL ETHER	mg/kg	8	0.0028	0.008	<	0.0028	U	Not detected above MDL				0.0028	U
L1822303	L1822303-13	BLS-BH12-SG-10	01/28/2025	SG	8260D	NAPHTHALENE	mg/kg	8	0.039	0.1	<	0.243						0.243	
L1822303	L1822303-13	BLS-BH12-SG-10	01/28/2025	SG	8260D	N-PROPYLBENZENE	mg/kg	8	0.0076	0.04	<	12.2						12.2	
L1822303	L1822303-13	BLS-BH12-SG-10	01/28/2025	SG	8260D	TOLUENE	mg/kg	8	0.0104	0.04	<	0.0104	U	Not detected above MDL				0.0104	U
L1822303	L1822303-13	BLS-BH12-SG-10	01/28/2025	SG	8260D	1,2,4-TRIMETHYLBENZENE	mg/kg	8	0.0126	0.04	<	0.0126	U	Not detected above MDL				0.0126	U
L1822303	L1822303-13	BLS-BH12-SG-10	01/28/2025	SG	8260D	1,3,5-TRIMETHYLBENZENE	mg/kg	8	0.016	0.04	<	0.0259	J	Detected below RL				0.0259	J
L1822303	L1822303-13	BLS-BH12-SG-10	01/28/2025	SG	8260D	XYLENES, TOTAL	mg/kg	8	0.00704	0.052	<	0.0255	J	Detected below RL				0.0255	J
L1822303	L1822303-13	BLS-BH12-SG-10	01/28/2025	SG	8270C-SIM	ANTHRACENE	mg/kg	1	0.0023	0.006	<	0.0023	U	Not detected above MDL				0.0023	U
L1822303	L1822303-13	BLS-BH12-SG-10	01/28/2025	SG	8270C-SIM	ACENAPHTHENE	mg/kg	1	0.00209	0.006	<	0.00209	U	Not detected above MDL				0.00209	U
L1822303	L1822303-13	BLS-BH12-SG-10	01/28/2025	SG	8270C-SIM	BENZO(A)ANTHRACENE	mg/kg	1	0.00173	0.006	<	0.00173	U	Not detected above MDL				0.00173	U
L1822303	L1822303-13	BLS-BH12-SG-10	01/28/2025	SG	8270C-SIM	BENZO(A)PYRENE	mg/kg	1	0.00179	0.006	<	0.00179	U	Not detected above MDL				0.00179	U
L1822303	L1822303-13	BLS-BH12-SG-10	01/28/2025	SG	8270C-SIM	BENZO(B)FLUORANTHENE	mg/kg	1	0.00153	0.006	<	0.00153	U	Not detected above MDL				0.00153	U
L1822303	L1822303-13	BLS-BH12-SG-10	01/28/2025	SG	8270C-SIM	BENZO(K)FLUORANTHENE	mg/kg	1	0.00215	0.006	<	0.00215	U	Not detected above MDL				0.00215	U
L1822303	L1822303-13	BLS-BH12-SG-10	01/28/2025	SG	8270C-SIM	CHRYSENE	mg/kg	1	0.00232	0.006	<	0.00232	U	Not detected above MDL				0.00232	U
L1822303	L1822303-13	BLS-BH12-SG-10	01/28/2025	SG	8270C-SIM	DIBENZ(A,H)ANTHRACENE	mg/kg	1	0.00172	0.006	<	0.00172	U	Not detected above MDL				0.00172	U
L1822303	L1822303-13	BLS-BH12-SG-10	01/28/2025	SG	8270C-SIM	FLUORANTHENE	mg/kg	1	0.00227	0.006	<	0.00227	U	Not detected above MDL				0.00227	U
L1822303	L1822303-13	BLS-BH12-SG-10	01/28/2025	SG	8270C-SIM	FLUORENE	mg/kg	1	0.00205	0.006	<	0.00205	U	Not detected above MDL				0.00205	U
L1822303	L1822303-13	BLS-BH12-SG-10	01/28/2025	SG	8270C-SIM	INDENO(1,2,3-CD)PYRENE	mg/kg	1	0.00181	0.006	<	0.00181	U	Not detected above MDL				0.00181	U
L1822303	L1822303-13	BLS-BH12-SG-10	01/28/2025	SG	8270C-SIM	NAPHTHALENE	mg/kg	1	0.00408	0.02	<	0.00408	U	Not detected above MDL				0.00408	U
L1822303	L1822303-13	BLS-BH12-SG-10	01/28/2025	SG	8270C-SIM	PYRENE	mg/kg	1	0.002	0.006	<	0.002	U	Not detected above MDL				0.002	U
L1822303	L1822303-13	BLS-BH12-SG-10	01/28/2025	SG	NWTPHDX-NO SGT	DIESEL RANGE ORGANICS	mg/kg	1	1.33	4	<	1.56	J	Detected below RL				1.56	J
L1822303	L1822303-13	BLS-BH12-SG-10	01/28/2025	SG	NWTPHGX	TPHG C6 - C12	mg/kg	250	8.48	25	<	714						714	
L1822303	L1822303-14	BLS-BH13-SG-13	01/28/2025	SG	8260D	BENZENE	mg/kg	20	0.00934	0.02	<	0.0861						0.0861	
L1822303	L1822303-14	BLS-BH13-SG-13	01/28/2025	SG	8260D	1,2-DIBROMOETHANE	mg/kg	20	0.013	0.05	<	0.013	U	Not detected above MDL				0.013	U
L1822303	L1822303-14	BLS-BH13-SG-13	01/28/2025	SG	8260D	1,2-DICHLOROETHANE	mg/kg	20	0.013	0.05	<	0.013	U	Not detected above MDL				0.013	U
L1822303	L1822303-14	BLS-BH13-SG-13	01/28/2025	SG	8260D	ETHYLBENZENE	mg/kg	20	0.0147	0.05	<	28						28	
L1822303	L1822303-14	BLS-BH13-SG-13	01/28/2025	SG	8260D	ISOPROPYLBENZENE	mg/kg	20	0.0085	0.05	<	3.11						3.11	
L1822303	L1822303-14	BLS-BH13-SG-13	01/28/2025	SG	8260D	METHYL TERT-BUTYL ETHER	mg/kg	20	0.007	0.02	<	0.007	U	Not detected above MDL				0.007	U
L1822303	L1822303-14	BLS-BH13-SG-13	01/28/2025	SG	8260D	NAPHTHALENE	mg/kg	20	0.0976	0.25	<	9.06	C3 J4	Low CCS; Low LCS %R	9.06	J	Low LCS %R	9.06	J
L1822303	L1822303-14	BLS-BH13-SG-13	01/28/2025	SG	8260D	N-PROPYLBENZENE	mg/kg	20	0.019	0.1	<	10.5						10.5	
L1822303	L1822303-14	BLS-BH13-SG-13	01/28/2025	SG	8260D	TOLUENE	mg/kg	20	0.026	0.1	<	1.13						1.13	
L1822303	L1822303-14	BLS-BH13-SG-13	01/28/2025	SG	8260D	1,2,4-TRIMETHYLBENZENE	mg/kg	400	0.632	2	<	306						306	
L1822303	L1822303-14	BLS-BH13-SG-13	01/28/2025	SG	8260D	1,3,5-TRIMETHYLBENZENE	mg/kg	20	0.04	0.1	<	16.7						16.7	
L1822303	L1822303-14	BLS-BH13-SG-13	01/28/2025	SG	8260D	XYLENES, TOTAL	mg/kg	20	0.0176	0.13	<	84.8						84.8	
L1822303	L1822303-14	BLS-BH13-SG-13	01/28/2025	SG	8270C-SIM	ANTHRACENE	mg/kg	1	0.0023	0.006	<	0.0023	U	Not detected above MDL				0.0023	U
L1822303	L1822303-14	BLS-BH13-SG-13	01/28/2025	SG	8270C-SIM	ACENAPHTHENE	mg/kg	1	0.00209	0.006	<	0.0133						0.0133	
L1822303	L1822303-14	BLS-BH13-SG-13	01/28/2025	SG	8270C-SIM	BENZO(A)ANTHRACENE	mg/kg	1	0.00173	0.006	<	0.00271	J	Detected below RL				0.00271	J
L1822303	L1822303-14	BLS-BH13-SG-13	01/28/2025	SG	8270C-SIM	BENZO(A)PYRENE	mg/kg	1	0.00179	0.006	<	0.00179	U	Not detected above MDL				0.00179	U
L1822303	L1822303-14	BLS-BH13-SG-13	01/28/2025	SG	8270C-SIM	BENZO(B)FLUORANTHENE	mg/kg	1	0.00153	0.006	<	0.00153	U	Not detected above MDL				0.00153	U
L1822303	L1822303-14	BLS-BH13-SG-13	01/28/2025	SG	8270C-SIM	BENZO(K)FLUORANTHENE	mg/kg	1	0.00215	0.006	<	0.00215	U	Not detected above MDL				0.00215	U
L1822303	L1822303-14	BLS-BH13-SG-13	01/28/2025	SG	8270C-SIM	CHRYSENE	mg/kg	1	0.00232	0.006	<	0.00232	U	Not detected above MDL				0.00232	U
L1822303	L1822303-14	BLS-BH13-SG-13	01/28/2025	SG	8270C-SIM	DIBENZ(A,H)ANTHRACENE	mg/kg	1	0.00172	0.006	<	0.00172	U	Not detected above MDL					

SDG	Lab Sample ID	Client Sample ID	Date Collected	Matrix	Method	Analyte	Units	Dilution	MDL	RDL	Result Sign	Result	Lab Qualifier	Lab Qualifier Reason	Data Validation Result	Data Validation Qualifier	Validation Qual Reason	Final Result	Final Qualifier
L1822303	L1822303-16	BLS-BH15-SG-3	01/28/2025	SG	8260D	XYLENES TOTAL	mg/kg	1	0.00088	0.0065	<	0.00119	J	Detected below RL				0.00119	J
L1822303	L1822303-16	BLS-BH15-SG-3	01/28/2025	SG	8270C-SIM	ANTHRACENE	mg/kg	1	0.0023	0.006	<	0.0023	U	Not detected above MDL				0.0023	U
L1822303	L1822303-16	BLS-BH15-SG-3	01/28/2025	SG	8270C-SIM	ACENAPHTHENE	mg/kg	1	0.00209	0.006	<	0.00209	U	Not detected above MDL				0.00209	U
L1822303	L1822303-16	BLS-BH15-SG-3	01/28/2025	SG	8270C-SIM	BENZO(A)ANTHRACENE	mg/kg	1	0.00173	0.006	<	0.00173	U	Not detected above MDL				0.00173	U
L1822303	L1822303-16	BLS-BH15-SG-3	01/28/2025	SG	8270C-SIM	BENZO(A)PYRENE	mg/kg	1	0.00179	0.006	<	0.00179	U	Not detected above MDL				0.00179	U
L1822303	L1822303-16	BLS-BH15-SG-3	01/28/2025	SG	8270C-SIM	BENZO(B)FLUORANTHENE	mg/kg	1	0.00153	0.006	<	0.00153	U	Not detected above MDL				0.00153	U
L1822303	L1822303-16	BLS-BH15-SG-3	01/28/2025	SG	8270C-SIM	BENZO(K)FLUORANTHENE	mg/kg	1	0.00215	0.006	<	0.00215	U	Not detected above MDL				0.00215	U
L1822303	L1822303-16	BLS-BH15-SG-3	01/28/2025	SG	8270C-SIM	CHRYSENE	mg/kg	1	0.00232	0.006	<	0.00232	U	Not detected above MDL				0.00232	U
L1822303	L1822303-16	BLS-BH15-SG-3	01/28/2025	SG	8270C-SIM	DIBENZ(A,H)ANTHRACENE	mg/kg	1	0.00172	0.006	<	0.00172	U	Not detected above MDL				0.00172	U
L1822303	L1822303-16	BLS-BH15-SG-3	01/28/2025	SG	8270C-SIM	FLUORANTHENE	mg/kg	1	0.00227	0.006	<	0.00227	U	Not detected above MDL				0.00227	U
L1822303	L1822303-16	BLS-BH15-SG-3	01/28/2025	SG	8270C-SIM	FLUORENE	mg/kg	1	0.00205	0.006	<	0.00205	U	Not detected above MDL				0.00205	U
L1822303	L1822303-16	BLS-BH15-SG-3	01/28/2025	SG	8270C-SIM	INDENO(1,2,3-CD)PYRENE	mg/kg	1	0.00181	0.006	<	0.00181	U	Not detected above MDL				0.00181	U
L1822303	L1822303-16	BLS-BH15-SG-3	01/28/2025	SG	8270C-SIM	NAPHTHALENE	mg/kg	1	0.00408	0.02	<	0.00408	U	Not detected above MDL				0.00408	U
L1822303	L1822303-16	BLS-BH15-SG-3	01/28/2025	SG	8270C-SIM	PYRENE	mg/kg	1	0.002	0.006	<	0.002	U	Not detected above MDL				0.002	U
L1822303	L1822303-16	BLS-BH15-SG-3	01/28/2025	SG	NWTPHDX-NO SGT	DIESEL RANGE ORGANICS	mg/kg	1	1.33	4	<	1.33	U	Not detected above MDL				1.33	U
L1822303	L1822303-16	BLS-BH15-SG-3	01/28/2025	SG	NWTPHGX	TPHG C6 - C12	mg/kg	25	0.848	2.5	<	0.848	U	Not detected above MDL				0.848	U
L1822303	L1822303-17	BLS-BH16-SG-14	01/29/2025	SG	8260D	BENZENE	mg/kg	1	0.000467	0.001	<	0.000467	U	Not detected above MDL				0.000467	U
L1822303	L1822303-17	BLS-BH16-SG-14	01/29/2025	SG	8260D	1,2-DIBROMOETHANE	mg/kg	1	0.000648	0.0025	<	0.000648	U	Not detected above MDL				0.000648	U
L1822303	L1822303-17	BLS-BH16-SG-14	01/29/2025	SG	8260D	1,2-DICHLOROETHANE	mg/kg	1	0.000649	0.0025	<	0.000649	U	Not detected above MDL				0.000649	U
L1822303	L1822303-17	BLS-BH16-SG-14	01/29/2025	SG	8260D	ETHYLBENZENE	mg/kg	1	0.000737	0.0025	<	0.000737	U	Not detected above MDL				0.000737	U
L1822303	L1822303-17	BLS-BH16-SG-14	01/29/2025	SG	8260D	ISOPROPYLBENZENE	mg/kg	1	0.000425	0.0025	<	0.000425	U	Not detected above MDL				0.000425	U
L1822303	L1822303-17	BLS-BH16-SG-14	01/29/2025	SG	8260D	METHYL TERT-BUTYL ETHER	mg/kg	1	0.00035	0.001	<	0.00035	U	Not detected above MDL				0.00035	U
L1822303	L1822303-17	BLS-BH16-SG-14	01/29/2025	SG	8260D	NAPHTHALENE	mg/kg	1	0.00488	0.0125	<	0.00488	U C3 J4	Not detected above MDL; Low CCS; Low LCS %R	0.00488	UJ	Low LCS %R	0.00488	UJ
L1822303	L1822303-17	BLS-BH16-SG-14	01/29/2025	SG	8260D	N-PROPYLBENZENE	mg/kg	1	0.00095	0.005	<	0.00095	U	Not detected above MDL				0.00095	U
L1822303	L1822303-17	BLS-BH16-SG-14	01/29/2025	SG	8260D	TOLUENE	mg/kg	1	0.0013	0.005	<	0.0013	U	Not detected above MDL				0.0013	U
L1822303	L1822303-17	BLS-BH16-SG-14	01/29/2025	SG	8260D	1,2,4-TRIMETHYLBENZENE	mg/kg	1	0.00158	0.005	<	0.00158	U	Not detected above MDL				0.00158	U
L1822303	L1822303-17	BLS-BH16-SG-14	01/29/2025	SG	8260D	1,3,5-TRIMETHYLBENZENE	mg/kg	1	0.002	0.005	<	0.002	U	Not detected above MDL				0.002	U
L1822303	L1822303-17	BLS-BH16-SG-14	01/29/2025	SG	8260D	XYLENES TOTAL	mg/kg	1	0.00088	0.0065	<	0.00088	U	Not detected above MDL				0.00088	U
L1822303	L1822303-17	BLS-BH16-SG-14	01/29/2025	SG	8270C-SIM	ANTHRACENE	mg/kg	1	0.0023	0.006	<	0.0023	U	Not detected above MDL				0.0023	U
L1822303	L1822303-17	BLS-BH16-SG-14	01/29/2025	SG	8270C-SIM	ACENAPHTHENE	mg/kg	1	0.00209	0.006	<	0.00209	U	Not detected above MDL				0.00209	U
L1822303	L1822303-17	BLS-BH16-SG-14	01/29/2025	SG	8270C-SIM	BENZO(A)ANTHRACENE	mg/kg	1	0.00173	0.006	<	0.00173	U	Not detected above MDL				0.00173	U
L1822303	L1822303-17	BLS-BH16-SG-14	01/29/2025	SG	8270C-SIM	BENZO(A)PYRENE	mg/kg	1	0.00179	0.006	<	0.00179	U	Not detected above MDL				0.00179	U
L1822303	L1822303-17	BLS-BH16-SG-14	01/29/2025	SG	8270C-SIM	BENZO(B)FLUORANTHENE	mg/kg	1	0.00153	0.006	<	0.00153	U	Not detected above MDL				0.00153	U
L1822303	L1822303-17	BLS-BH16-SG-14	01/29/2025	SG	8270C-SIM	BENZO(K)FLUORANTHENE	mg/kg	1	0.00215	0.006	<	0.00215	U	Not detected above MDL				0.00215	U
L1822303	L1822303-17	BLS-BH16-SG-14	01/29/2025	SG	8270C-SIM	CHRYSENE	mg/kg	1	0.00232	0.006	<	0.00232	U	Not detected above MDL				0.00232	U
L1822303	L1822303-17	BLS-BH16-SG-14	01/29/2025	SG	8270C-SIM	DIBENZ(A,H)ANTHRACENE	mg/kg	1	0.00172	0.006	<	0.00172	U	Not detected above MDL				0.00172	U
L1822303	L1822303-17	BLS-BH16-SG-14	01/29/2025	SG	8270C-SIM	FLUORANTHENE	mg/kg	1	0.00227	0.006	<	0.00227	U	Not detected above MDL				0.00227	U
L1822303	L1822303-17	BLS-BH16-SG-14	01/29/2025	SG	8270C-SIM	FLUORENE	mg/kg	1	0.00205	0.006	<	0.00205	U	Not detected above MDL				0.00205	U
L1822303	L1822303-17	BLS-BH16-SG-14	01/29/2025	SG	8270C-SIM	INDENO(1,2,3-CD)PYRENE	mg/kg	1	0.00181	0.006	<	0.00181	U	Not detected above MDL				0.00181	U
L1822303	L1822303-17	BLS-BH16-SG-14	01/29/2025	SG	8270C-SIM	NAPHTHALENE	mg/kg	1	0.00408	0.02	<	0.00408	U	Not detected above MDL				0.00408	U
L1822303	L1822303-17	BLS-BH16-SG-14	01/29/2025	SG	8270C-SIM	PYRENE	mg/kg	1	0.002	0.006	<	0.002	U	Not detected above MDL				0.002	U
L1822303	L1822303-17	BLS-BH16-SG-14	01/29/2025	SG	NWTPHDX-NO SGT	DIESEL RANGE ORGANICS	mg/kg	1	1.33	4	<	1.33	U	Not detected above MDL				1.33	U
L1822303	L1822303-17	BLS-BH16-SG-14	01/29/2025	SG	NWTPHGX	TPHG C6 - C12	mg/kg	25	0.848	2.5	<	0.848	U	Not detected above MDL				0.848	U
L1822303	L1822303-18	BLS-MW-5-SG-12	01/29/2025	SG	8260D	BENZENE	mg/kg	1	0.000467	0.001	<	0.000467	U	Not detected above MDL				0.000467	U
L1822303	L1822303-18	BLS-MW-5-SG-12	01/29/2025	SG	8260D	1,2-DIBROMOETHANE	mg/kg	1	0.000648	0.0025	<	0.000648	U	Not detected above MDL				0.000648	U
L1822303	L1822303-18	BLS-MW-5-SG-12	01/29/2025	SG	8260D	1,2-DICHLOROETHANE	mg/kg	1	0.000649	0.0025	<	0.000649	U	Not detected above MDL				0.000649	U
L1822303	L1822303-18	BLS-MW-5-SG-12	01/29/2025	SG	8260D	ETHYLBENZENE	mg/kg	1	0.000737	0.0025	<	0.000737	J	Detected below RL				0.000737	J
L1822303	L1822303-18	BLS-MW-5-SG-12	01/29/2025	SG	8260D	ISOPROPYLBENZENE	mg/kg	1	0.000425	0.0025	<	0.000425	U	Not detected above MDL				0.000425	U
L1822303	L1822303-18	BLS-MW-5-SG-12	01/29/2025	SG	8260D	METHYL TERT-BUTYL ETHER	mg/kg	1	0.00035	0.001	<	0.00035	U	Not detected above MDL				0.00035	U
L1822303	L1822303-18	BLS-MW-5-SG-12	01/29/2025	SG	8260D	NAPHTHALENE	mg/kg	1	0.00488	0.0125	<	0.00488	U C3 J4	Not detected above MDL; Low CCS; Low LCS %R	0.00488	UJ	Low LCS %R	0.00488	UJ
L1822303	L1822303-18	BLS-MW-5-SG-12	01/29/2025	SG	8260D	N-PROPYLBENZENE	mg/kg	1	0.00095	0.005	<	0.00095	U	Not detected above MDL				0.00095	U
L1822303	L1822303-18	BLS-MW-5-SG-12	01/29/2025	SG	8260D	TOLUENE	mg/kg	1	0.0013	0.005	<	0.0013	U	Not detected above MDL				0.0013	U
L1822303	L1822303-18	BLS-MW-5-SG-12	01/29/2025	SG	8260D	1,2,4-TRIMETHYLBENZENE	mg/kg	1	0.00158	0.005	<	0.00158	U	Not detected above MDL				0.00158	U
L1822303	L1822303-18	BLS-MW-5-SG-12	01/29/2025	SG	8260D	1,3,5-TRIMETHYLBENZENE	mg/kg	1	0.002	0.005	<	0.002	U	Not detected above MDL				0.002	U
L1822303	L1822303-18	BLS-MW-5-SG-12	01/29/2025	SG	8260D	XYLENES TOTAL	mg/kg	1	0.00088	0.0065	<	0.00088	J	Detected below RL				0.00088	J
L1822303	L1822303-18	BLS-MW-5-SG-12	01/29/2025	SG	8270C-SIM	ANTHRACENE	mg/kg	1	0.0023	0.006	<	0.0023	U	Not detected above MDL				0.0023	U
L1822303	L1822303-18	BLS-MW-5-SG-12	01/29/2025	SG	8270C-SIM	ACENAPHTHENE	mg/kg	1	0.00209	0.006	<	0.00209	U	Not detected above MDL				0.00209	U
L1822303	L182230																		

SDG	Lab Sample ID	Client Sample ID	Date Collected	Matrix	Method	Analyte	Units	Dilution	MDL	RDL	Result Sign	Result	Lab Qualifier	Lab Qualifier Reason	Data Validation Result	Data Validation Qualifier	Validation Qual Reason	Final Result	Final Qualifier
L1822399	L1822399-01	BLS-BH1-C-0'-1.5'	01/27/2025	SC	6010D	NICKEL	mg/kg	1	0.2	2	<	1.59	J	Detected below RL				1.59	J
L1822399	L1822399-01	BLS-BH1-C-0'-1.5'	01/27/2025	SC	6010D	SELENIUM	mg/kg	1	1.07	2	<	1.07	U	Not detected above MDL				1.07	U
L1822399	L1822399-01	BLS-BH1-C-0'-1.5'	01/27/2025	SC	6010D	SILVER	mg/kg	1	0.127	1	<	0.127	U	Not detected above MDL				0.127	U
L1822399	L1822399-01	BLS-BH1-C-0'-1.5'	01/27/2025	SC	6010D	THALLIUM	mg/kg	1	0.518	2	<	1.71	J	Detected below RL				1.71	J
L1822399	L1822399-01	BLS-BH1-C-0'-1.5'	01/27/2025	SC	6010D	ZINC	mg/kg	1	0.974	5	<	45.8	U	Not detected above MDL	0.0206	UJ	Temperature	45.8	UJ
L1822399	L1822399-01	BLS-BH1-C-0'-1.5'	01/27/2025	SC	7471B	MERCURY	mg/kg	1	0.0206	0.04	<	0.0206	U	Not detected above MDL				0.0206	UJ
L1822399	L1822399-02	BLS-BH1-C-1.5'-3'	01/27/2025	SC	6010D	ANTIMONY	mg/kg	1	0.691	2	<	2.04	U	Not detected above MDL				2.04	U
L1822399	L1822399-02	BLS-BH1-C-1.5'-3'	01/27/2025	SC	6010D	ARSENIC	mg/kg	1	0.837	2	<	0.837	U	Not detected above MDL				0.837	U
L1822399	L1822399-02	BLS-BH1-C-1.5'-3'	01/27/2025	SC	6010D	BERYLLIUM	mg/kg	1	0.0477	0.2	<	0.0477	U	Not detected above MDL				0.0477	U
L1822399	L1822399-02	BLS-BH1-C-1.5'-3'	01/27/2025	SC	6010D	CADMIUM	mg/kg	1	0.0653	0.5	<	0.0653	U	Not detected above MDL				0.0653	U
L1822399	L1822399-02	BLS-BH1-C-1.5'-3'	01/27/2025	SC	6010D	CHROMIUM	mg/kg	1	0.214	1	<	3.23	U	Not detected above MDL				3.23	U
L1822399	L1822399-02	BLS-BH1-C-1.5'-3'	01/27/2025	SC	6010D	COPPER	mg/kg	1	0.357	2	<	7.07	U	Not detected above MDL				7.07	U
L1822399	L1822399-02	BLS-BH1-C-1.5'-3'	01/27/2025	SC	6010D	LEAD	mg/kg	1	0.326	0.5	<	9.27	U	Not detected above MDL				9.27	U
L1822399	L1822399-02	BLS-BH1-C-1.5'-3'	01/27/2025	SC	6010D	NICKEL	mg/kg	1	0.2	2	<	4.7	U	Not detected above MDL				4.7	U
L1822399	L1822399-02	BLS-BH1-C-1.5'-3'	01/27/2025	SC	6010D	SELENIUM	mg/kg	1	1.07	2	<	1.07	U	Not detected above MDL				1.07	U
L1822399	L1822399-02	BLS-BH1-C-1.5'-3'	01/27/2025	SC	6010D	SILVER	mg/kg	1	0.127	1	<	0.127	U	Not detected above MDL				0.127	U
L1822399	L1822399-02	BLS-BH1-C-1.5'-3'	01/27/2025	SC	6010D	THALLIUM	mg/kg	1	0.518	2	<	1.08	J	Detected below RL				1.08	J
L1822399	L1822399-02	BLS-BH1-C-1.5'-3'	01/27/2025	SC	6010D	ZINC	mg/kg	1	0.974	5	<	37.7	U	Not detected above MDL				37.7	U
L1822399	L1822399-02	BLS-BH1-C-1.5'-3'	01/27/2025	SC	7471B	MERCURY	mg/kg	1	0.0206	0.04	<	0.0206	U	Not detected above MDL	0.0206	UJ	Temperature	0.0206	UJ
L1822399	L1822399-03	BLS-BH2-C-0'-1.5'	01/27/2025	SC	6010D	ANTIMONY	mg/kg	1	0.691	2	<	2.1	U	Not detected above MDL				2.1	U
L1822399	L1822399-03	BLS-BH2-C-0'-1.5'	01/27/2025	SC	6010D	ARSENIC	mg/kg	1	0.837	2	<	0.837	U	Not detected above MDL				0.837	U
L1822399	L1822399-03	BLS-BH2-C-0'-1.5'	01/27/2025	SC	6010D	BERYLLIUM	mg/kg	1	0.0477	0.2	<	0.155	J	Detected below RL				0.155	J
L1822399	L1822399-03	BLS-BH2-C-0'-1.5'	01/27/2025	SC	6010D	CADMIUM	mg/kg	1	0.0653	0.5	<	0.0653	U	Not detected above MDL				0.0653	U
L1822399	L1822399-03	BLS-BH2-C-0'-1.5'	01/27/2025	SC	6010D	CHROMIUM	mg/kg	1	0.214	1	<	3.48	U	Not detected above MDL				3.48	U
L1822399	L1822399-03	BLS-BH2-C-0'-1.5'	01/27/2025	SC	6010D	COPPER	mg/kg	1	0.357	2	<	4.22	U	Not detected above MDL				4.22	U
L1822399	L1822399-03	BLS-BH2-C-0'-1.5'	01/27/2025	SC	6010D	LEAD	mg/kg	1	0.326	0.5	<	14.1	U	Not detected above MDL				14.1	U
L1822399	L1822399-03	BLS-BH2-C-0'-1.5'	01/27/2025	SC	6010D	NICKEL	mg/kg	1	0.2	2	<	2.4	U	Not detected above MDL				2.4	U
L1822399	L1822399-03	BLS-BH2-C-0'-1.5'	01/27/2025	SC	6010D	SELENIUM	mg/kg	1	1.07	2	<	1.07	U	Not detected above MDL				1.07	U
L1822399	L1822399-03	BLS-BH2-C-0'-1.5'	01/27/2025	SC	6010D	SILVER	mg/kg	1	0.127	1	<	0.151	B J	Blank detection; Detected below RL	1	U	Method blank detection	1	U
L1822399	L1822399-03	BLS-BH2-C-0'-1.5'	01/27/2025	SC	6010D	THALLIUM	mg/kg	1	0.518	2	<	1.94	J	Detected below RL				1.94	J
L1822399	L1822399-03	BLS-BH2-C-0'-1.5'	01/27/2025	SC	6010D	ZINC	mg/kg	1	0.974	5	<	52.7	U	Not detected above MDL				52.7	U
L1822399	L1822399-03	BLS-BH2-C-0'-1.5'	01/27/2025	SC	7471B	MERCURY	mg/kg	1	0.0206	0.04	<	0.0206	U	Not detected above MDL	0.0206	UJ	Temperature	0.0206	UJ
L1822399	L1822399-04	BLS-BH2-C-1.5'-3'	01/27/2025	SC	6010D	ANTIMONY	mg/kg	1	0.691	2	<	1.6	J	Detected below RL				1.6	J
L1822399	L1822399-04	BLS-BH2-C-1.5'-3'	01/27/2025	SC	6010D	ARSENIC	mg/kg	1	0.837	2	<	0.837	U	Not detected above MDL				0.837	U
L1822399	L1822399-04	BLS-BH2-C-1.5'-3'	01/27/2025	SC	6010D	BERYLLIUM	mg/kg	1	0.0477	0.2	<	0.0477	U	Not detected above MDL				0.0477	U
L1822399	L1822399-04	BLS-BH2-C-1.5'-3'	01/27/2025	SC	6010D	CADMIUM	mg/kg	1	0.0653	0.5	<	0.0805	J	Detected below RL				0.0805	J
L1822399	L1822399-04	BLS-BH2-C-1.5'-3'	01/27/2025	SC	6010D	CHROMIUM	mg/kg	1	0.214	1	<	3.84	U	Not detected above MDL				3.84	U
L1822399	L1822399-04	BLS-BH2-C-1.5'-3'	01/27/2025	SC	6010D	COPPER	mg/kg	1	0.357	2	<	11.4	U	Not detected above MDL				11.4	U
L1822399	L1822399-04	BLS-BH2-C-1.5'-3'	01/27/2025	SC	6010D	LEAD	mg/kg	1	0.326	0.5	<	33.5	U	Not detected above MDL				33.5	U
L1822399	L1822399-04	BLS-BH2-C-1.5'-3'	01/27/2025	SC	6010D	NICKEL	mg/kg	1	0.2	2	<	7.11	U	Not detected above MDL				7.11	U
L1822399	L1822399-04	BLS-BH2-C-1.5'-3'	01/27/2025	SC	6010D	SELENIUM	mg/kg	1	1.07	2	<	1.07	U	Not detected above MDL				1.07	U
L1822399	L1822399-04	BLS-BH2-C-1.5'-3'	01/27/2025	SC	6010D	SILVER	mg/kg	1	0.127	1	<	0.127	U	Not detected above MDL				0.127	U
L1822399	L1822399-04	BLS-BH2-C-1.5'-3'	01/27/2025	SC	6010D	THALLIUM	mg/kg	1	0.518	2	<	1.12	J	Detected below RL				1.12	J
L1822399	L1822399-04	BLS-BH2-C-1.5'-3'	01/27/2025	SC	6010D	ZINC	mg/kg	1	0.974	5	<	52.9	U	Not detected above MDL				52.9	U
L1822399	L1822399-04	BLS-BH2-C-1.5'-3'	01/27/2025	SC	7471B	MERCURY	mg/kg	1	0.0206	0.04	<	0.0206	U	Not detected above MDL	0.0206	UJ	Temperature	0.0206	UJ
L1822399	L1822399-05	BLS-BH3-C-0'-1.5'	01/27/2025	SC	6010D	ANTIMONY	mg/kg	1	0.691	2	<	1.95	J	Detected below RL				1.95	J
L1822399	L1822399-05	BLS-BH3-C-0'-1.5'	01/27/2025	SC	6010D	ARSENIC	mg/kg	1	0.837	2	<	0.837	U	Not detected above MDL				0.837	U
L1822399	L1822399-05	BLS-BH3-C-0'-1.5'	01/27/2025	SC	6010D	BERYLLIUM	mg/kg	1	0.0477	0.2	<	0.0477	U	Not detected above MDL				0.0477	U
L1822399	L1822399-05	BLS-BH3-C-0'-1.5'	01/27/2025	SC	6010D	CADMIUM	mg/kg	1	0.0653	0.5	<	0.0653	U	Not detected above MDL				0.0653	U
L1822399	L1822399-05	BLS-BH3-C-0'-1.5'	01/27/2025	SC	6010D	CHROMIUM	mg/kg	1	0.214	1	<	3.1	U	Not detected above MDL				3.1	U
L1822399	L1822399-05	BLS-BH3-C-0'-1.5'	01/27/2025	SC	6010D	COPPER	mg/kg	1	0.357	2	<	5.33	U	Not detected above MDL				5.33	U
L1822399	L1822399-05	BLS-BH3-C-0'-1.5'	01/27/2025	SC	6010D	LEAD	mg/kg	1	0.326	0.5	<	11.5	U	Not detected above MDL				11.5	U
L1822399	L1822399-05	BLS-BH3-C-0'-1.5'	01/27/2025	SC	6010D	NICKEL	mg/kg	1	0.2	2	<	2.91	U	Not detected above MDL				2.91	U
L1822399	L1822399-05	BLS-BH3-C-0'-1.5'	01/27/2025	SC	6010D	SELENIUM	mg/kg	1	1.07	2	<	1.07	U	Not detected above MDL				1.07	U
L1822399	L1822399-05	BLS-BH3-C-0'-1.5'	01/27/2025	SC	6010D	SILVER	mg/kg	1	0.127	1	<	0.127	U	Not detected above MDL				0.127	U
L1822399	L1822399-05	BLS-BH3-C-0'-1.5'	01/27/2025	SC	6010D	THALLIUM	mg/kg	1	0.518	2	<	1.47	J	Detected below RL				1.47	J
L1822399	L1822399-05	BLS-BH3-C-0'-1.5'	01/27/2025	SC	6010D	ZINC	mg/kg	1	0.974	5	<	45.4	U	Not detected above MDL				45.4	U
L1822399	L1822399-05	BLS-BH3-C-0'-1.5'	01/27/2025	SC	7471B	MERCURY	mg/kg	1	0.0206	0.04	<	0.0206	U	Not detected above MDL	0.0206	UJ	Temperature	0.0206	UJ
L1822399	L1822399-06	BLS-BH3-C-1.5'-3'	01/27/2025	SC	6010D	ANTIMONY	mg/kg	1	0.691	2	<	3.65	U	Not detected above MDL				3.65	U
L1822399	L1822399-06	BLS-BH3-C-1.5'-3'	01/27/2025	SC	6010D	ARSENIC	mg/kg	1	0.837	2	<	3.2	J	Field dup RPD				3.2	J
L1822399	L1822399-06	BLS-BH3-C-1.5'-3'	01/27/2025	SC	6010D	BERYLLIUM	mg/kg	1	0.0477	0.2	<	0.258	J	Field dup RPD	0.258	J	Field dup RPD	0.258	J
L1822399	L1822399-06	BLS-BH3-C-1.5'-3'	01/27/2025	SC	6010D	CADMIUM	mg/kg	1	0.0653	0.5	<	1	J	Field dup RPD	1	J	Field dup RPD	1	J
L1822399	L1822399-06	BLS-BH3-C-1.5'-3'	01/27/2025	SC	6010D	CHROMIUM	mg/kg	1	0.214	1	<	16.4	J	Field dup RPD	16.4	J	Field dup RPD	16.4	J
L1822399	L1822399-06	BLS-BH3-C-1.5'-3'	01/27/2025	SC	6010D	COPPER	mg/kg	1	0.357	2	<	77.5	J	Field dup RPD	77.5	J	Field dup RPD	77.5	J
L1822399	L1822399-06	BLS-BH3-C-1.5'-3'	01/27/2025	SC	6010D	LEAD	mg/kg	1	0.326	0.5	<	130	J	Field dup RPD	130	J	Field dup RPD	130	J
L1822399	L1822399-06	BLS-BH3-C-1.5'-3'	01/27/2025	SC	6010D	NICKEL	mg/kg	1	0.2	2	<	18.1	J	Field dup RPD	18.1	J	Field dup RPD	18.1	J
L1822399	L1822399-06	BLS-BH3-C-1.5'-3'	01/27/2025	SC	6010D	SELENIUM	mg/kg	1	1.07	2	<	1.07	U	Not detected above MDL				1.07	U
L1822399	L1822399-06	BLS-BH3-C-1.5'-3'	01/27/2025	SC	6010D	SILVER	mg/kg	1	0.127	1	<	0.147	B J	Blank detection; Detected below RL	1	U	Method blank detection	1	U
L1822399	L1822399-06	BLS-BH3-C-1.5'-3'	01/27/2025	SC	6010D	THALLIUM	mg/kg												

SDG	Lab Sample ID	Client Sample ID	Date Collected	Matrix	Method	Analyte	Units	Dilution	MDL	RDL	Result Sign	Result	Lab Qualifier	Lab Qualifier Reason	Data Validation Result	Data Validation Qualifier	Validation Qual Reason	Final Result	Final Qualifier
L1822399	L1822399-09	BLS-BH5-C-1.5'-3'	01/27/2025	SC	6010D	NICKEL	mg/kg	1	0.2	2	<	12.4						12.4	
L1822399	L1822399-09	BLS-BH5-C-1.5'-3'	01/27/2025	SC	6010D	SELENIUM	mg/kg	1	1.07	2	<	1.07	U	Not detected above MDL				1.07	U
L1822399	L1822399-09	BLS-BH5-C-1.5'-3'	01/27/2025	SC	6010D	SILVER	mg/kg	1	0.127	1	<	0.216	B J	Blank detection; Detected below RL	1	U	Method blank detection	1	U
L1822399	L1822399-09	BLS-BH5-C-1.5'-3'	01/27/2025	SC	6010D	THALLIUM	mg/kg	1	0.518	2	<	1.09	J	Detected below RL				1.09	J
L1822399	L1822399-09	BLS-BH5-C-1.5'-3'	01/27/2025	SC	6010D	ZINC	mg/kg	1	0.974	5	<	70.3	O1	Failed serial dilution	70.3	J	Failed serial dilution	70.3	J
L1822399	L1822399-09	BLS-BH5-C-1.5'-3'	01/27/2025	SC	7471B	MERCURY	mg/kg	1	0.0206	0.04	<	0.0206	U	Not detected above MDL	0.0206	UJ	Temperature	0.0206	UJ
L1822399	L1822399-10	BLS-BH6-C-0'-1.5'	01/27/2025	SC	6010D	ANTIMONY	mg/kg	1	0.691	2	<	1.23	J	Detected below RL				1.23	J
L1822399	L1822399-10	BLS-BH6-C-0'-1.5'	01/27/2025	SC	6010D	ARSENIC	mg/kg	1	0.837	2	<	3.58						3.58	
L1822399	L1822399-10	BLS-BH6-C-0'-1.5'	01/27/2025	SC	6010D	BERYLLIUM	mg/kg	1	0.0477	0.2	<	0.291						0.291	
L1822399	L1822399-10	BLS-BH6-C-0'-1.5'	01/27/2025	SC	6010D	CADMIUM	mg/kg	1	0.0653	0.5	<	0.252	J	Detected below RL				0.252	J
L1822399	L1822399-10	BLS-BH6-C-0'-1.5'	01/27/2025	SC	6010D	CHROMIUM	mg/kg	1	0.214	1	<	15.4						15.4	
L1822399	L1822399-10	BLS-BH6-C-0'-1.5'	01/27/2025	SC	6010D	COPPER	mg/kg	1	0.357	2	<	28.1						28.1	
L1822399	L1822399-10	BLS-BH6-C-0'-1.5'	01/27/2025	SC	6010D	LEAD	mg/kg	1	0.326	0.5	<	27.7						27.7	
L1822399	L1822399-10	BLS-BH6-C-0'-1.5'	01/27/2025	SC	6010D	NICKEL	mg/kg	1	0.2	2	<	16.7						16.7	
L1822399	L1822399-10	BLS-BH6-C-0'-1.5'	01/27/2025	SC	6010D	SELENIUM	mg/kg	1	1.07	2	<	1.07	U	Not detected above MDL				1.07	U
L1822399	L1822399-10	BLS-BH6-C-0'-1.5'	01/27/2025	SC	6010D	SILVER	mg/kg	1	0.127	1	<	0.132	B J	Blank detection; Detected below RL	1	U	Method blank detection	1	U
L1822399	L1822399-10	BLS-BH6-C-0'-1.5'	01/27/2025	SC	6010D	THALLIUM	mg/kg	1	0.518	2	<	1.01	J	Detected below RL				1.01	J
L1822399	L1822399-10	BLS-BH6-C-0'-1.5'	01/27/2025	SC	6010D	ZINC	mg/kg	1	0.974	5	<	108						108	
L1822399	L1822399-10	BLS-BH6-C-0'-1.5'	01/27/2025	SC	7471B	MERCURY	mg/kg	1	0.0206	0.04	<	0.0206	U	Not detected above MDL	0.0206	UJ	Temperature	0.0206	UJ
L1822399	L1822399-11	BLS-BH6-C-1.5'-3'	01/27/2025	SC	6010D	ANTIMONY	mg/kg	1	0.691	2	<	1.69	J	Detected below RL				1.69	J
L1822399	L1822399-11	BLS-BH6-C-1.5'-3'	01/27/2025	SC	6010D	ARSENIC	mg/kg	1	0.837	2	<	1.98	J	Detected below RL				1.98	J
L1822399	L1822399-11	BLS-BH6-C-1.5'-3'	01/27/2025	SC	6010D	BERYLLIUM	mg/kg	1	0.0477	0.2	<	0.422						0.422	
L1822399	L1822399-11	BLS-BH6-C-1.5'-3'	01/27/2025	SC	6010D	CADMIUM	mg/kg	1	0.0653	0.5	<	0.255	J	Detected below RL				0.255	J
L1822399	L1822399-11	BLS-BH6-C-1.5'-3'	01/27/2025	SC	6010D	CHROMIUM	mg/kg	1	0.214	1	<	17.8						17.8	
L1822399	L1822399-11	BLS-BH6-C-1.5'-3'	01/27/2025	SC	6010D	COPPER	mg/kg	1	0.357	2	<	17.7						17.7	
L1822399	L1822399-11	BLS-BH6-C-1.5'-3'	01/27/2025	SC	6010D	LEAD	mg/kg	1	0.326	0.5	<	41.3						41.3	
L1822399	L1822399-11	BLS-BH6-C-1.5'-3'	01/27/2025	SC	6010D	NICKEL	mg/kg	1	0.2	2	<	12.1						12.1	
L1822399	L1822399-11	BLS-BH6-C-1.5'-3'	01/27/2025	SC	6010D	SELENIUM	mg/kg	1	1.07	2	<	1.07	U	Not detected above MDL				1.07	U
L1822399	L1822399-11	BLS-BH6-C-1.5'-3'	01/27/2025	SC	6010D	SILVER	mg/kg	1	0.127	1	<	0.127	U	Not detected above MDL				0.127	U
L1822399	L1822399-11	BLS-BH6-C-1.5'-3'	01/27/2025	SC	6010D	THALLIUM	mg/kg	1	0.518	2	<	1.38	J	Detected below RL				1.38	J
L1822399	L1822399-11	BLS-BH6-C-1.5'-3'	01/27/2025	SC	6010D	ZINC	mg/kg	1	0.974	5	<	140						140	
L1822399	L1822399-11	BLS-BH6-C-1.5'-3'	01/27/2025	SC	7471B	MERCURY	mg/kg	1	0.0206	0.04	<	0.0206	U	Not detected above MDL	0.0206	UJ	Temperature	0.0206	UJ
L1822399	L1822399-12	BLS-BH15-C-0'-1.5'	01/28/2025	SC	6010D	ANTIMONY	mg/kg	1	0.691	2	<	1.22	J	Detected below RL				1.22	J
L1822399	L1822399-12	BLS-BH15-C-0'-1.5'	01/28/2025	SC	6010D	ARSENIC	mg/kg	1	0.837	2	<	12.6						12.6	
L1822399	L1822399-12	BLS-BH15-C-0'-1.5'	01/28/2025	SC	6010D	BERYLLIUM	mg/kg	1	0.0477	0.2	<	0.222						0.222	
L1822399	L1822399-12	BLS-BH15-C-0'-1.5'	01/28/2025	SC	6010D	CADMIUM	mg/kg	1	0.0653	0.5	<	0.14	J	Detected below RL				0.14	J
L1822399	L1822399-12	BLS-BH15-C-0'-1.5'	01/28/2025	SC	6010D	CHROMIUM	mg/kg	1	0.214	1	<	11.4						11.4	
L1822399	L1822399-12	BLS-BH15-C-0'-1.5'	01/28/2025	SC	6010D	COPPER	mg/kg	1	0.357	2	<	16.8						16.8	
L1822399	L1822399-12	BLS-BH15-C-0'-1.5'	01/28/2025	SC	6010D	LEAD	mg/kg	1	0.326	0.5	<	25.8						25.8	
L1822399	L1822399-12	BLS-BH15-C-0'-1.5'	01/28/2025	SC	6010D	NICKEL	mg/kg	1	0.2	2	<	10.1						10.1	
L1822399	L1822399-12	BLS-BH15-C-0'-1.5'	01/28/2025	SC	6010D	SELENIUM	mg/kg	1	1.07	2	<	1.07	U	Not detected above MDL				1.07	U
L1822399	L1822399-12	BLS-BH15-C-0'-1.5'	01/28/2025	SC	6010D	SILVER	mg/kg	1	0.127	1	<	0.127	U	Not detected above MDL				0.127	U
L1822399	L1822399-12	BLS-BH15-C-0'-1.5'	01/28/2025	SC	6010D	THALLIUM	mg/kg	1	0.518	2	<	1.18	J	Detected below RL				1.18	J
L1822399	L1822399-12	BLS-BH15-C-0'-1.5'	01/28/2025	SC	6010D	ZINC	mg/kg	1	0.974	5	<	111						111	
L1822399	L1822399-12	BLS-BH15-C-0'-1.5'	01/28/2025	SC	7471B	MERCURY	mg/kg	1	0.0206	0.04	<	0.0206	U	Not detected above MDL	0.0206	UJ	Temperature	0.0206	UJ
L1822399	L1822399-13	BLS-BH15-C-1.5'-3'	01/28/2025	SC	6010D	ANTIMONY	mg/kg	1	0.691	2	<	2.07						2.07	
L1822399	L1822399-13	BLS-BH15-C-1.5'-3'	01/28/2025	SC	6010D	ARSENIC	mg/kg	1	0.837	2	<	3.21						3.21	
L1822399	L1822399-13	BLS-BH15-C-1.5'-3'	01/28/2025	SC	6010D	BERYLLIUM	mg/kg	1	0.0477	0.2	<	0.5						0.5	
L1822399	L1822399-13	BLS-BH15-C-1.5'-3'	01/28/2025	SC	6010D	CADMIUM	mg/kg	1	0.0653	0.5	<	0.0653	U	Not detected above MDL				0.0653	U
L1822399	L1822399-13	BLS-BH15-C-1.5'-3'	01/28/2025	SC	6010D	CHROMIUM	mg/kg	1	0.214	1	<	19.5						19.5	
L1822399	L1822399-13	BLS-BH15-C-1.5'-3'	01/28/2025	SC	6010D	COPPER	mg/kg	1	0.357	2	<	13.2						13.2	
L1822399	L1822399-13	BLS-BH15-C-1.5'-3'	01/28/2025	SC	6010D	LEAD	mg/kg	1	0.326	0.5	<	14.3						14.3	
L1822399	L1822399-13	BLS-BH15-C-1.5'-3'	01/28/2025	SC	6010D	NICKEL	mg/kg	1	0.2	2	<	12.9						12.9	
L1822399	L1822399-13	BLS-BH15-C-1.5'-3'	01/28/2025	SC	6010D	SELENIUM	mg/kg	1	1.07	2	<	1.07	U	Not detected above MDL				1.07	U
L1822399	L1822399-13	BLS-BH15-C-1.5'-3'	01/28/2025	SC	6010D	SILVER	mg/kg	1	0.127	1	<	0.127	U	Not detected above MDL				0.127	U
L1822399	L1822399-13	BLS-BH15-C-1.5'-3'	01/28/2025	SC	6010D	THALLIUM	mg/kg	1	0.518	2	<	0.985	J	Detected below RL				0.985	J
L1822399	L1822399-13	BLS-BH15-C-1.5'-3'	01/28/2025	SC	6010D	ZINC	mg/kg	1	0.974	5	<	51.9						51.9	
L1822399	L1822399-13	BLS-BH15-C-1.5'-3'	01/28/2025	SC	7471B	MERCURY	mg/kg	1	0.0206	0.04	<	0.0206	U	Not detected above MDL	0.0206	UJ	Temperature	0.0206	UJ
L1822849	L1822849-01	BLS-MW-2	01/31/2025	GW	6010D	ANTIMONY	mg/l	1	0.00506	0.01	<	0.00506	U	Not detected above MDL				0.00506	U
L1822849	L1822849-01	BLS-MW-2	01/31/2025	GW	6010D	ARSENIC	mg/l	1	0.00783	0.01	<	0.0132						0.0132	
L1822849	L1822849-01	BLS-MW-2	01/31/2025	GW	6010D	BERYLLIUM	mg/l	1	0.000501	0.002	<	0.000501	U	Not detected above MDL				0.000501	U
L1822849	L1822849-01	BLS-MW-2	01/31/2025	GW	6010D	CADMIUM	mg/l	1	0.000538	0.002	<	0.000538	U	Not detected above MDL				0.000538	U
L1822849	L1822849-01	BLS-MW-2	01/31/2025	GW	6010D														

SDG	Lab Sample ID	Client Sample ID	Date Collected	Matrix	Method	Analyte	Units	Dilution	MDL	RDL	Result Sign	Result	Lab Qualifier	Lab Qualifier Reason	Data Validation Result	Data Validation Qualifier	Validation Qual Reason	Final Result	Final Qualifier
L1822849	L1822849-02	BLS-MW-2-DUP	01/31/2025	GW	6010D	LEAD	mg/l	1	0.00243	0.006	<	0.00243	U	Not detected above MDL				0.00243	U
L1822849	L1822849-02	BLS-MW-2-DUP	01/31/2025	GW	6010D	NICKEL	mg/l	1	0.00196	0.01	<	0.00196	U	Not detected above MDL				0.00196	U
L1822849	L1822849-02	BLS-MW-2-DUP	01/31/2025	GW	6010D	SELENIUM	mg/l	1	0.00616	0.01	<	0.00616	J	Detected below RL				0.00616	J
L1822849	L1822849-02	BLS-MW-2-DUP	01/31/2025	GW	6010D	SILVER	mg/l	1	0.00289	0.005	<	0.00289	U	Not detected above MDL				0.00289	U
L1822849	L1822849-02	BLS-MW-2-DUP	01/31/2025	GW	6010D	THALLIUM	mg/l	1	0.00663	0.01	<	0.00663	U	Not detected above MDL				0.00663	U
L1822849	L1822849-02	BLS-MW-2-DUP	01/31/2025	GW	6010D	ZINC	mg/l	1	0.00467	0.05	<	0.00467	U	Not detected above MDL				0.00467	U
L1822849	L1822849-02	BLS-MW-2-DUP	01/31/2025	GW	7470A	MERCURY	mg/l	1	0.00007	0.0002	<	0.00007	U	Not detected above MDL				0.00007	U
L1822849	L1822849-02	BLS-MW-2-DUP	01/31/2025	GW	8260D	BENZENE	mg/l	1	0.0000941	0.001	<	0.0000941	J	Detected below RL				0.0000941	J
L1822849	L1822849-02	BLS-MW-2-DUP	01/31/2025	GW	8260D	1,2-DIBROMOETHANE	mg/l	1	0.000126	0.001	<	0.000126	U	Not detected above MDL				0.000126	U
L1822849	L1822849-02	BLS-MW-2-DUP	01/31/2025	GW	8260D	1,2-DICHLOROETHANE	mg/l	1	0.0000819	0.001	<	0.0000819	U	Not detected above MDL				0.0000819	U
L1822849	L1822849-02	BLS-MW-2-DUP	01/31/2025	GW	8260D	ETHYLBENZENE	mg/l	20	0.00274	0.02	<	0.428						0.428	
L1822849	L1822849-02	BLS-MW-2-DUP	01/31/2025	GW	8260D	ISOPROPYLBENZENE	mg/l	1	0.000105	0.001	<	0.0507						0.0507	
L1822849	L1822849-02	BLS-MW-2-DUP	01/31/2025	GW	8260D	METHYL TERT-BUTYL ETHER	mg/l	1	0.000101	0.001	<	0.000101	U	Not detected above MDL				0.000101	U
L1822849	L1822849-02	BLS-MW-2-DUP	01/31/2025	GW	8260D	NAPHTHALENE	mg/l	1	0.001	0.005	<	0.135	C3	Low CCS	0.135	J	Low CCS	0.135	J
L1822849	L1822849-02	BLS-MW-2-DUP	01/31/2025	GW	8260D	N-PROPYLBENZENE	mg/l	1	0.000993	0.001	<	0.18						0.18	
L1822849	L1822849-02	BLS-MW-2-DUP	01/31/2025	GW	8260D	TOLUENE	mg/l	1	0.000278	0.001	<	0.00339						0.00339	
L1822849	L1822849-02	BLS-MW-2-DUP	01/31/2025	GW	8260D	1,2,4-TRIMETHYLBENZENE	mg/l	1	0.000322	0.001	<	0.0721						0.0721	
L1822849	L1822849-02	BLS-MW-2-DUP	01/31/2025	GW	8260D	1,3,5-TRIMETHYLBENZENE	mg/l	1	0.000104	0.001	<	0.0186						0.0186	
L1822849	L1822849-02	BLS-MW-2-DUP	01/31/2025	GW	8260D	XYLENES, TOTAL	mg/l	1	0.000174	0.003	<	0.0888						0.0888	
L1822849	L1822849-02	BLS-MW-2-DUP	01/31/2025	GW	8270C-SIM	ANTHRACENE	mg/l	1	0.000019	0.00005	<	0.0000956	B	Blank Detection	0.0000956	J	Method Blank detection	0.0000956	J
L1822849	L1822849-02	BLS-MW-2-DUP	01/31/2025	GW	8270C-SIM	ACENAPHTHENE	mg/l	1	0.000019	0.00005	<	0.000809						0.000809	
L1822849	L1822849-02	BLS-MW-2-DUP	01/31/2025	GW	8270C-SIM	BENZO(A)ANTHRACENE	mg/l	1	0.0000203	0.00005	<	0.0000277	B J	Blank detection; Detected below RL	0.0000277	J+	Method blank detection	0.0000277	J+
L1822849	L1822849-02	BLS-MW-2-DUP	01/31/2025	GW	8270C-SIM	BENZO(A)PYRENE	mg/l	1	0.0000184	0.00005	<	0.0000184	U	Not detected above MDL				0.0000184	U
L1822849	L1822849-02	BLS-MW-2-DUP	01/31/2025	GW	8270C-SIM	BENZO(B)FLUORANTHENE	mg/l	1	0.0000168	0.00005	<	0.0000168	U	Detected below RL	0.00005	U	Method blank detection	0.0000168	U
L1822849	L1822849-02	BLS-MW-2-DUP	01/31/2025	GW	8270C-SIM	BENZO(K)FLUORANTHENE	mg/l	1	0.0000202	0.00005	<	0.0000202	U	Not detected above MDL				0.0000202	U
L1822849	L1822849-02	BLS-MW-2-DUP	01/31/2025	GW	8270C-SIM	CHRYSENE	mg/l	1	0.0000179	0.00005	<	0.0000248	B J	Blank detection; Detected below RL	0.00005	U	Method blank detection	0.0000248	U
L1822849	L1822849-02	BLS-MW-2-DUP	01/31/2025	GW	8270C-SIM	DIBENZ(A,H)ANTHRACENE	mg/l	1	0.000016	0.00005	<	0.0000183	B J	Blank detection; Detected below RL	0.00005	U	Method blank detection	0.0000183	U
L1822849	L1822849-02	BLS-MW-2-DUP	01/31/2025	GW	8270C-SIM	FLUORANTHENE	mg/l	1	0.000027	0.0001	<	0.000057	J	Detected below RL				0.000057	J
L1822849	L1822849-02	BLS-MW-2-DUP	01/31/2025	GW	8270C-SIM	FLUORENE	mg/l	1	0.0000169	0.00005	<	0.000434						0.000434	
L1822849	L1822849-02	BLS-MW-2-DUP	01/31/2025	GW	8270C-SIM	INDENO(1,2,3-CD)PYRENE	mg/l	1	0.0000158	0.00005	<	0.0000158	U	Not detected above MDL				0.0000158	U
L1822849	L1822849-02	BLS-MW-2-DUP	01/31/2025	GW	8270C-SIM	NAPHTHALENE	mg/l	10	0.000917	0.0025	<	0.122			0.122	J-	Low surrogate recovery	0.122	J-
L1822849	L1822849-02	BLS-MW-2-DUP	01/31/2025	GW	8270C-SIM	PYRENE	mg/l	1	0.0000169	0.00005	<	0.0000463	B J	Blank detection; Detected below RL	0.00005	U	Method blank detection	0.0000463	U
L1822849	L1822849-02	BLS-MW-2-DUP	01/31/2025	GW	NWTPHX-NO SGT	DIESEL RANGE ORGANICS	mg/l	1	0.0678	0.1	<	1.83						1.83	
L1822849	L1822849-02	BLS-MW-2-DUP	01/31/2025	GW	NWTPHXG	TPHG C6 - C12	mg/l	1	0.0316	0.1	<	5.39						5.39	
L1822849	L1822849-03	BLS-MW-3	01/31/2025	GW	6010D	ANTIMONY	mg/l	1	0.00506	0.01	<	0.00506	U	Not detected above MDL				0.00506	U
L1822849	L1822849-03	BLS-MW-3	01/31/2025	GW	6010D	ARSENIC	mg/l	1	0.00783	0.01	<	0.00783	U	Not detected above MDL				0.00783	U
L1822849	L1822849-03	BLS-MW-3	01/31/2025	GW	6010D	BERYLLIUM	mg/l	1	0.000501	0.002	<	0.000501	U	Not detected above MDL				0.000501	U
L1822849	L1822849-03	BLS-MW-3	01/31/2025	GW	6010D	CADMIUM	mg/l	1	0.000538	0.002	<	0.000538	U	Not detected above MDL				0.000538	U
L1822849	L1822849-03	BLS-MW-3	01/31/2025	GW	6010D	CHROMIUM	mg/l	1	0.00151	0.01	<	0.00151	U	Not detected above MDL				0.00151	U
L1822849	L1822849-03	BLS-MW-3	01/31/2025	GW	6010D	COPPER	mg/l	1	0.00226	0.01	<	0.00226	U	Not detected above MDL				0.00226	U
L1822849	L1822849-03	BLS-MW-3	01/31/2025	GW	6010D	LEAD	mg/l	1	0.00243	0.006	<	0.00295	J	Detected below RL				0.00295	J
L1822849	L1822849-03	BLS-MW-3	01/31/2025	GW	6010D	NICKEL	mg/l	1	0.00196	0.01	<	0.00219	J	Detected below RL				0.00219	J
L1822849	L1822849-03	BLS-MW-3	01/31/2025	GW	6010D	SELENIUM	mg/l	1	0.00616	0.01	<	0.00616	U	Not detected above MDL				0.00616	U
L1822849	L1822849-03	BLS-MW-3	01/31/2025	GW	6010D	SILVER	mg/l	1	0.00289	0.005	<	0.00289	U	Not detected above MDL				0.00289	U
L1822849	L1822849-03	BLS-MW-3	01/31/2025	GW	6010D	THALLIUM	mg/l	1	0.00663	0.01	<	0.00663	U	Not detected above MDL				0.00663	U
L1822849	L1822849-03	BLS-MW-3	01/31/2025	GW	6010D	ZINC	mg/l	1	0.00467	0.05	<	0.0357	J	Detected below RL	0.05	U	Rinsate blank detection	0.0357	J
L1822849	L1822849-03	BLS-MW-3	01/31/2025	GW	7470A	MERCURY	mg/l	1	0.00007	0.0002	<	0.00007	U	Not detected above MDL				0.00007	U
L1822849	L1822849-03	BLS-MW-3	01/31/2025	GW	8260D	BENZENE	mg/l	1	0.0000941	0.001	<	0.0000941	U	Not detected above MDL				0.0000941	U
L1822849	L1822849-03	BLS-MW-3	01/31/2025	GW	8260D	1,2-DIBROMOETHANE	mg/l	1	0.000126	0.001	<	0.000126	U	Not detected above MDL				0.000126	U
L1822849	L1822849-03	BLS-MW-3	01/31/2025	GW	8260D	1,2-DICHLOROETHANE	mg/l	1	0.0000819	0.001	<	0.0000819	U	Not detected above MDL				0.0000819	U
L1822849	L1822849-03	BLS-MW-3	01/31/2025	GW	8260D	ETHYLBENZENE	mg/l	1	0.000137	0.001	<	0.000323	J	Detected below RL				0.000323	J
L1822849	L1822849-03	BLS-MW-3	01/31/2025	GW	8260D	ISOPROPYLBENZENE	mg/l	1	0.000105	0.001	<	0.00515						0.00515	
L1822849	L1822849-03	BLS-MW-3	01/31/2025	GW	8260D	METHYL TERT-BUTYL ETHER	mg/l	1	0.000101	0.001	<	0.000101	U	Not detected above MDL				0.000101	U
L1822849	L1822849-03	BLS-MW-3	01/31/2025	GW	8260D	NAPHTHALENE	mg/l	1	0.001	0.005	<	0.00317	C3 J	Low CCS; Detected below RL	0.00317	J	Low CCS	0.00317	J
L1822849	L1822849-03	BLS-MW-3	01/31/2025	GW	8260D	N-PROPYLBENZENE	mg/l	1	0.000993	0.001	<	0.0137						0.0137	
L1822849	L1822849-03	BLS-MW-3	01/31/2025	GW	8260D	TOLUENE	mg/l	1	0.000278	0.001	<	0.000278	U	Not detected above MDL				0.000278	U
L1822849	L1822849-03	BLS-MW-3	01/31/2025	GW	8260D	1,2,4-TRIMETHYLBENZENE	mg/l	1	0.000322	0.001	<	0.000322	U	Not detected above MDL				0.000322	U
L1822849	L1822849-03	BLS-MW-3	01/31/2025	GW	8260D	1,3,5-TRIMETHYLBENZENE	mg/l	1	0.000104	0.001	<	0.000127	J	Detected below RL				0.000127	J
L1822849	L1822849-03	BLS-MW-3	01/31/2025	GW	8260D	XYLENES, TOTAL</													

SDG	Lab Sample ID	Client Sample ID	Date Collected	Matrix	Method	Analyte	Units	Dilution	MDL	RDL	Result Sign	Result	Lab Qualifier	Lab Qualifier Reason	Data Validation Result	Data Validation Qualifier	Validation Qual Reason	Final Result	Final Qualifier
L1822849	L1822849-04	BLS-MW-4	01/31/2025	GW	8270C-SIM	BENZO(K)FLUORANTHENE	mg/l	1	0.0000202	0.00005	<	0.0000202	U	Not detected above MDL			Method blank detection - no qual needed	0.0000202	U
L1822849	L1822849-04	BLS-MW-4	01/31/2025	GW	8270C-SIM	CHRYSENE	mg/l	1	0.0000179	0.00005	<	0.0000209	B J	Blank detection; Detected below RL	0.00005	U	Method blank detection	0.000050	U
L1822849	L1822849-04	BLS-MW-4	01/31/2025	GW	8270C-SIM	DIBENZ(A,H)ANTHRACENE	mg/l	1	0.000016	0.00005	<	0.000016	U	Not detected above MDL			Method blank detection - no qual needed	0.000016	U
L1822849	L1822849-04	BLS-MW-4	01/31/2025	GW	8270C-SIM	FLUORANTHENE	mg/l	1	0.000027	0.0001	<	0.000027	U	Not detected above MDL			Method blank detection - no qual needed	0.000027	U
L1822849	L1822849-04	BLS-MW-4	01/31/2025	GW	8270C-SIM	FLUORENE	mg/l	1	0.0000169	0.00005	<	0.0000169	U	Not detected above MDL			Method blank detection - no qual needed	0.0000169	U
L1822849	L1822849-04	BLS-MW-4	01/31/2025	GW	8270C-SIM	INDENO(1,2,3-CD)PYRENE	mg/l	1	0.0000158	0.00005	<	0.0000174	B J	Blank detection; Detected below RL	0.00005	U	Method blank detection	0.00005	U
L1822849	L1822849-04	BLS-MW-4	01/31/2025	GW	8270C-SIM	NAPHTHALENE	mg/l	1	0.0000917	0.00025	<	0.0000917	U	Not detected above MDL	0.0000917	UJ	Low surrogate recovery	0.0000917	UJ
L1822849	L1822849-04	BLS-MW-4	01/31/2025	GW	8270C-SIM	PYRENE	mg/l	1	0.0000169	0.00005	<	0.0000258	B J	Blank detection; Detected below RL	0.00005	U	Method blank detection	0.000050	U
L1822849	L1822849-04	BLS-MW-4	01/31/2025	GW	NWTPHDX-NO SGT	DIESEL RANGE ORGANICS	mg/l	1	0.0678	0.1	<	0.32	B	Blank Detection		U	Method blank detection	0.100	U
L1822849	L1822849-04	BLS-MW-4	01/31/2025	GW	NWTPHGX	TPHG C6 - C12	mg/l	1	0.0316	0.1	<	0.0845	B J	Blank detection; Detected below RL	0.1	U	Method blank detection	0.100	U
L1822849	L1822849-06	BLS-MW-5	02/01/2025	GW	6010D	ANTIMONY	mg/l	1	0.00506	0.01	<	0.00506	U	Not detected above MDL			Method blank detection	0.00506	U
L1822849	L1822849-06	BLS-MW-5	02/01/2025	GW	6010D	ARSENIC	mg/l	1	0.00783	0.01	<	0.00783	U	Not detected above MDL			Method blank detection	0.00783	U
L1822849	L1822849-06	BLS-MW-5	02/01/2025	GW	6010D	BERYLLIUM	mg/l	1	0.000501	0.002	<	0.000501	U	Not detected above MDL			Method blank detection	0.000501	U
L1822849	L1822849-06	BLS-MW-5	02/01/2025	GW	6010D	CADMIUM	mg/l	1	0.000538	0.002	<	0.000538	U	Not detected above MDL			Method blank detection	0.000538	U
L1822849	L1822849-06	BLS-MW-5	02/01/2025	GW	6010D	CHROMIUM	mg/l	1	0.00151	0.01	<	0.00151	U	Not detected above MDL			Method blank detection	0.00151	U
L1822849	L1822849-06	BLS-MW-5	02/01/2025	GW	6010D	COPPER	mg/l	1	0.00226	0.01	<	0.00226	U	Not detected above MDL			Method blank detection	0.00226	U
L1822849	L1822849-06	BLS-MW-5	02/01/2025	GW	6010D	LEAD	mg/l	1	0.00243	0.006	<	0.00243	U	Not detected above MDL			Method blank detection	0.00243	U
L1822849	L1822849-06	BLS-MW-5	02/01/2025	GW	6010D	NICKEL	mg/l	1	0.00196	0.01	<	0.00678	J	Detected below RL			Method blank detection	0.00678	J
L1822849	L1822849-06	BLS-MW-5	02/01/2025	GW	6010D	SELENIUM	mg/l	1	0.00616	0.01	<	0.00616	U	Not detected above MDL			Method blank detection	0.00616	U
L1822849	L1822849-06	BLS-MW-5	02/01/2025	GW	6010D	SILVER	mg/l	1	0.00289	0.005	<	0.00289	U	Not detected above MDL			Method blank detection	0.00289	U
L1822849	L1822849-06	BLS-MW-5	02/01/2025	GW	6010D	THALLIUM	mg/l	1	0.00663	0.01	<	0.00663	U	Not detected above MDL			Method blank detection	0.00663	U
L1822849	L1822849-06	BLS-MW-5	02/01/2025	GW	6010D	ZINC	mg/l	1	0.00467	0.05	<	0.0197	J	Detected below RL	0.05	U	Rinsate blank detection	0.05	U
L1822849	L1822849-06	BLS-MW-5	02/01/2025	GW	7470A	MERCURY	mg/l	1	0.00007	0.0002	<	0.00007	U	Not detected above MDL			Method blank detection	0.00007	U
L1822849	L1822849-06	BLS-MW-5	02/01/2025	GW	8260D	BENZENE	mg/l	1	0.0000941	0.001	<	0.000925	J	Detected below RL			Method blank detection	0.000925	J
L1822849	L1822849-06	BLS-MW-5	02/01/2025	GW	8260D	1,2-DIBROMOETHANE	mg/l	1	0.000126	0.001	<	0.000126	U	Not detected above MDL			Method blank detection	0.000126	U
L1822849	L1822849-06	BLS-MW-5	02/01/2025	GW	8260D	1,2-DICHLOROETHANE	mg/l	1	0.0000819	0.001	<	0.0000819	U	Not detected above MDL			Method blank detection	0.0000819	U
L1822849	L1822849-06	BLS-MW-5	02/01/2025	GW	8260D	ETHYLBENZENE	mg/l	1	0.000137	0.001	<	0.000929	J	Detected below RL			Method blank detection	0.000929	J
L1822849	L1822849-06	BLS-MW-5	02/01/2025	GW	8260D	ISOPROPYLBENZENE	mg/l	1	0.000105	0.001	<	0.00672	U	Not detected above MDL			Method blank detection	0.00672	U
L1822849	L1822849-06	BLS-MW-5	02/01/2025	GW	8260D	METHYL TERT-BUTYL ETHER	mg/l	1	0.000101	0.001	<	0.000101	U	Not detected above MDL			Method blank detection	0.000101	U
L1822849	L1822849-06	BLS-MW-5	02/01/2025	GW	8260D	NAPHTHALENE	mg/l	1	0.001	0.005	<	0.001	U C3	Not detected above MDL; Low CCS	0.001	UJ	Low CCS	0.001	UJ
L1822849	L1822849-06	BLS-MW-5	02/01/2025	GW	8260D	N-PROPYLBENZENE	mg/l	1	0.0000993	0.001	<	0.00472	U	Not detected above MDL			Method blank detection	0.00472	U
L1822849	L1822849-06	BLS-MW-5	02/01/2025	GW	8260D	TOLUENE	mg/l	1	0.000278	0.001	<	0.000278	U	Not detected above MDL			Method blank detection	0.000278	U
L1822849	L1822849-06	BLS-MW-5	02/01/2025	GW	8260D	1,2,4-TRIMETHYLBENZENE	mg/l	1	0.000322	0.001	<	0.000322	U	Not detected above MDL			Method blank detection	0.000322	U
L1822849	L1822849-06	BLS-MW-5	02/01/2025	GW	8260D	1,3,5-TRIMETHYLBENZENE	mg/l	1	0.000104	0.001	<	0.000165	J	Detected below RL			Method blank detection	0.000165	J
L1822849	L1822849-06	BLS-MW-5	02/01/2025	GW	8260D	XYLENES, TOTAL	mg/l	1	0.000174	0.003	<	0.000174	U	Not detected above MDL			Method blank detection	0.000174	U
L1822849	L1822849-06	BLS-MW-5	02/01/2025	GW	8270C-SIM	ANTHRACENE	mg/l	1	0.000019	0.00005	<	0.000019	U	Not detected above MDL			Method blank detection - no qual needed	0.000019	U
L1822849	L1822849-06	BLS-MW-5	02/01/2025	GW	8270C-SIM	ACENAPHTHENE	mg/l	1	0.000019	0.00005	<	0.000536	U	Not detected above MDL			Method blank detection - no qual needed	0.000536	U
L1822849	L1822849-06	BLS-MW-5	02/01/2025	GW	8270C-SIM	BENZO(A)ANTHRACENE	mg/l	1	0.0000203	0.00005	<	0.0000203	U	Not detected above MDL			Method blank detection - no qual needed	0.0000203	U
L1822849	L1822849-06	BLS-MW-5	02/01/2025	GW	8270C-SIM	BENZO(A)PYRENE	mg/l	1	0.0000184	0.00005	<	0.0000184	U	Not detected above MDL			Method blank detection - no qual needed	0.0000184	U
L1822849	L1822849-06	BLS-MW-5	02/01/2025	GW	8270C-SIM	BENZO(B)FLUORANTHENE	mg/l	1	0.0000168	0.00005	<	0.0000168	U	Not detected above MDL			Method blank detection - no qual needed	0.0000168	U
L1822849	L1822849-06	BLS-MW-5	02/01/2025	GW	8270C-SIM	BENZO(K)FLUORANTHENE	mg/l	1	0.0000202	0.00005	<	0.0000202	U	Not detected above MDL			Method blank detection - no qual needed	0.0000202	U
L1822849	L1822849-06	BLS-MW-5	02/01/2025	GW	8270C-SIM	CHRYSENE	mg/l	1	0.0000179	0.00005	<	0.000025	B J	Blank detection; Detected below RL	0.00005	U	Method blank detection	0.000050	U
L1822849	L1822849-06	BLS-MW-5	02/01/2025	GW	8270C-SIM	DIBENZ(A,H)ANTHRACENE	mg/l	1	0.000016	0.00005	<	0.000016	U	Not detected above MDL			Method blank detection - no qual needed	0.000016	U
L1822849	L1822849-06	BLS-MW-5	02/01/2025	GW	8270C-SIM	FLUORANTHENE	mg/l	1	0.000027	0.0001	<	0.000027	U	Not detected above MDL			Method blank detection - no qual needed	0.000027	U
L1822849	L1822849-06	BLS-MW-5	02/01/2025	GW	8270C-SIM	FLUORENE	mg/l	1	0.0000169	0.00005	<	0.0000169	U	Not detected above MDL			Method blank detection - no qual needed	0.0000169	U
L1822849	L1822849-06	BLS-MW-5	02/01/2025	GW	8270C-SIM	INDENO(1,2,3-CD)PYRENE	mg/l	1	0.0000158	0.00005	<	0.0000158	U	Not detected above MDL			Method blank detection - no qual needed	0.0000158	U
L1822849	L1822849-06	BLS-MW-5	02/01/2025	GW	8270C-SIM	NAPHTHALENE	mg/l	1	0.0000917	0.00025	<	0.0000917	U	Not detected above MDL	0.0000917	UJ	Low surrogate recovery	0.0000917	UJ
L1822849	L1822849-06	BLS-MW-5	02/01/2025	GW	8270C-SIM	PYRENE	mg/l	1	0.0000169	0.00005	<	0.000021	B J	Blank detection; Detected below RL	0.00005	U	Method blank detection	0.000050	U
L1822849	L1822849-06	BLS-MW-5	02/01/2025	GW	NWTPHDX-NO SGT	DIESEL RANGE ORGANICS	mg/l	1	0.0678	0.1	<	0.909	U	Not detected above MDL			Method blank detection	0.909	U
L1822849	L1822849-06	BLS-MW-5	02/01/2025	GW	NWTPHGX	TPHG C6 - C12	mg/l	1	0.0316	0.1	<	3.34	U	Not detected above MDL			Method blank detection	3.34	U
L1822849	L1822849-07	BLS-MW-6	02/01/2025	GW	6010D	ANTIMONY	mg/l	1	0.00506	0.01	<	0.00506	U	Not detected above MDL			Method blank detection	0.00506	U
L1822849	L1822849-07	BLS-MW-6	02/01/2025	GW	6010D	ARSENIC	mg/l	1	0.00783	0.01	<	0.00783	U	Not detected above MDL			Method blank detection	0.00783	U
L1822849	L1822849-07	BLS-MW-6	02/01/2025	GW	6010D	BERYLLIUM	mg/l	1	0.000501	0.002	<	0.000501	U	Not detected above MDL			Method blank detection	0.000501	U
L1822849	L1822849-07	BLS-MW-6	02/01/2025	GW	6010D	CADMIUM	mg/l	1	0.000538	0.002	<	0.000538	U	Not detected above MDL			Method blank detection	0.000538	U
L1822849	L1822849-07	BLS-MW-6	02/01/2025	GW	6010D	CHROMIUM	mg/l	1	0.00151	0.01	<	0.00156	J	Detected below RL			Method blank detection	0.00156	J
L1822849	L1822849-07	BLS-MW-6	02/01/2025	GW	6010D	COPPER	mg/l	1	0.00226	0.01	<	0.00226	U	Not detected above MDL			Method blank detection	0.00226	U
L1822849	L1822849-07	BLS-MW-6	02/01/2025	GW	6010D	LEAD													

SDG	Lab Sample ID	Client Sample ID	Date Collected	Matrix	Method	Analyte	Units	Dilution	MDL	RDL	Result Sign	Result	Lab Qualifier	Lab Qualifier Reason	Data Validation Result	Data Validation Qualifier	Validation Qual Reason	Final Result	Final Qualifier
2502087	2502087-02A	BLS-VP-1-Rep	01/29/2025 11:05	SV	TO-15	Methyl tert-butyl ether	UG/M3	1.15	1.2	8.3	<	1.2	U	Not detected above MDL				1.2	U
2502087	2502087-02A	BLS-VP-1-Rep	01/29/2025 11:05	SV	TO-15	Toluene	UG/M3	1.15	0.48	4.3	<	3.3	J	Detected below RL				3.3	J
2502087	2502087-02A	BLS-VP-1-Rep	01/29/2025 11:05	SV	TO-15	m,p-Xylene	UG/M3	1.15	0.89	5	<	2	J	Detected below RL				2	J
2502087	2502087-02A	BLS-VP-1-Rep	01/29/2025 11:05	SV	TO-15	o-Xylene	UG/M3	1.15	0.87	2.5	<	0.87	U	Not detected above MDL				0.87	U
2502087	2502087-02A	BLS-VP-1-Rep	01/29/2025 11:05	SV	TO-15	Cumene	UG/M3	1.15	1.2	2.8	<	1.2	U	Not detected above MDL				1.2	U
2502087	2502087-02A	BLS-VP-1-Rep	01/29/2025 11:05	SV	TO-15	1,3,5-Trimethylbenzene	UG/M3	1.15	1.2	2.8	<	1.2	U	Not detected above MDL				1.2	U
2502087	2502087-02A	BLS-VP-1-Rep	01/29/2025 11:05	SV	TO-15	1,2,4-Trimethylbenzene	UG/M3	1.15	1.4	2.8	<	1.4	U	Not detected above MDL			Method blank detection- No qual needed	1.4	U
2502087	2502087-02A	BLS-VP-1-Rep	01/29/2025 11:05	SV	TO-15	TPH ref. to Gasoline (MW=100)	UG/M3	1.15	NA	240	<	1700						1700	
2502087	2502087-02A	BLS-VP-1-Rep	01/29/2025 11:05	SV	TO-15	Total Xylene	UG/M3	1.15	NA	7.5	<	NA	U	Not detected above MDL				7.5	U
2502087	2502087-02B	BLS-VP-1-Rep	01/29/2025 11:05	SV	TO-15	Benzene	UG/M3	1.15	0.13	0.73	<	1.1						1.1	
2502087	2502087-02B	BLS-VP-1-Rep	01/29/2025 11:05	SV	TO-15	1,2-Dichloroethane	UG/M3	1.15	0.012	0.46	<	0.071	J	Detected below RL				0.071	J
2502087	2502087-02B	BLS-VP-1-Rep	01/29/2025 11:05	SV	TO-15	1,2-Dibromoethane (EDB)	UG/M3	1.15	0.011	0.18	<	0.011	U	Not detected above MDL			Method blank detection- No qual needed	0.011	U
2502087	2502087-02B	BLS-VP-1-Rep	01/29/2025 11:05	SV	TO-15	Ethyl Benzene	UG/M3	1.15	0.028	1	<	0.64	J	Detected below RL	0.64	J+	Method blank detection	0.64	J+
2502087	2502087-02B	BLS-VP-1-Rep	01/29/2025 11:05	SV	TO-15	Naphthalene	UG/M3	1.15	0.073	1.2	<	0.073	U	Not detected above MDL			Method blank detection- No qual needed	0.073	U
2502087	2502087-03A	BLS-VP-2	01/29/2025 11:20	SV	TO-15	Methyl tert-butyl ether	UG/M3	3.95	4.1	28	<	4.1	U	Not detected above MDL				4.1	U
2502087	2502087-03A	BLS-VP-2	01/29/2025 11:20	SV	TO-15	Toluene	UG/M3	3.95	1.6	15	<	19						19	
2502087	2502087-03A	BLS-VP-2	01/29/2025 11:20	SV	TO-15	m,p-Xylene	UG/M3	3.95	3.1	17	<	9.1	J	Detected below RL				9.1	J
2502087	2502087-03A	BLS-VP-2	01/29/2025 11:20	SV	TO-15	o-Xylene	UG/M3	3.95	3	8.6	<	3.1	J	Detected below RL				3.1	J
2502087	2502087-03A	BLS-VP-2	01/29/2025 11:20	SV	TO-15	Cumene	UG/M3	3.95	4.3	9.7	<	4.3	U	Not detected above MDL				4.3	U
2502087	2502087-03A	BLS-VP-2	01/29/2025 11:20	SV	TO-15	1,3,5-Trimethylbenzene	UG/M3	3.95	4.1	9.7	<	4.1	U	Not detected above MDL				4.1	U
2502087	2502087-03A	BLS-VP-2	01/29/2025 11:20	SV	TO-15	1,2,4-Trimethylbenzene	UG/M3	3.95	4.8	9.7	<	4.8	U	Not detected above MDL			Method blank detection- No qual needed	4.8	U
2502087	2502087-03A	BLS-VP-2	01/29/2025 11:20	SV	TO-15	TPH ref. to Gasoline (MW=100)	UG/M3	3.95	NA	810	<	7400						7400	
2502087	2502087-03A	BLS-VP-2	01/29/2025 11:20	SV	TO-15	Total Xylene	UG/M3	3.95	NA	26	<	NA	U	Not detected above MDL				26	U
2502087	2502087-03B	BLS-VP-2	01/29/2025 11:20	SV	TO-15	Benzene	UG/M3	3.95	0.45	2.5	<	2.3	J	Detected below RL				2.3	J
2502087	2502087-03B	BLS-VP-2	01/29/2025 11:20	SV	TO-15	1,2-Dichloroethane	UG/M3	3.95	0.042	1.6	<	0.042	U	Not detected above MDL				0.042	U
2502087	2502087-03B	BLS-VP-2	01/29/2025 11:20	SV	TO-15	1,2-Dibromoethane (EDB)	UG/M3	3.95	0.038	0.61	<	0.038	U	Not detected above MDL			Method blank detection- No qual needed	0.038	U
2502087	2502087-03B	BLS-VP-2	01/29/2025 11:20	SV	TO-15	Ethyl Benzene	UG/M3	3.95	0.096	3.4	<	2.9	J	Detected below RL	2.9	J+	Method blank detection	2.9	J+
2502087	2502087-03B	BLS-VP-2	01/29/2025 11:20	SV	TO-15	Naphthalene	UG/M3	3.95	0.25	4.1	<	0.25	U	Not detected above MDL			Method blank detection- No qual needed	0.25	U
2502087	2502087-04A	BLS-VP-3	01/29/2025 12:05	SV	TO-15	Methyl tert-butyl ether	UG/M3	2.30	2.4	16	<	2.4	U	Not detected above MDL				2.4	U
2502087	2502087-04A	BLS-VP-3	01/29/2025 12:05	SV	TO-15	Toluene	UG/M3	2.30	0.95	8.7	<	1.5	J	Detected below RL				1.5	J
2502087	2502087-04A	BLS-VP-3	01/29/2025 12:05	SV	TO-15	m,p-Xylene	UG/M3	2.30	1.8	10	<	1.8	U	Not detected above MDL			Method blank detection- No qual needed	1.8	U
2502087	2502087-04A	BLS-VP-3	01/29/2025 12:05	SV	TO-15	o-Xylene	UG/M3	2.30	1.7	5	<	1.7	U	Not detected above MDL				1.7	U
2502087	2502087-04A	BLS-VP-3	01/29/2025 12:05	SV	TO-15	Cumene	UG/M3	2.30	2.5	5.6	<	2.5	U	Not detected above MDL				2.5	U
2502087	2502087-04A	BLS-VP-3	01/29/2025 12:05	SV	TO-15	1,3,5-Trimethylbenzene	UG/M3	2.30	2.4	5.6	<	2.4	U	Not detected above MDL				2.4	U
2502087	2502087-04A	BLS-VP-3	01/29/2025 12:05	SV	TO-15	1,2,4-Trimethylbenzene	UG/M3	2.30	2.8	5.6	<	2.8	U	Not detected above MDL			Method blank detection- No qual needed	2.8	U
2502087	2502087-04A	BLS-VP-3	01/29/2025 12:05	SV	TO-15	TPH ref. to Gasoline (MW=100)	UG/M3	2.30	NA	470	<	11000						11000	
2502087	2502087-04A	BLS-VP-3	01/29/2025 12:05	SV	TO-15	Total Xylene	UG/M3	2.30	NA	15	<	NA	U	Not detected above MDL				15	U
2502087	2502087-04B	BLS-VP-3	01/29/2025 12:05	SV	TO-15	Benzene	UG/M3	2.30	0.26	1.5	<	0.26	U	Not detected above MDL				0.26	U
2502087	2502087-04B	BLS-VP-3	01/29/2025 12:05	SV	TO-15	1,2-Dichloroethane	UG/M3	2.30	0.024	0.93	<	0.024	U	Not detected above MDL				0.024	U
2502087	2502087-04B	BLS-VP-3	01/29/2025 12:05	SV	TO-15	1,2-Dibromoethane (EDB)	UG/M3	2.30	0.022	0.35	<	0.022	U	Not detected above MDL			Method blank detection- No qual needed	0.022	U
2502087	2502087-04B	BLS-VP-3	01/29/2025 12:05	SV	TO-15	Ethyl Benzene	UG/M3	2.30	0.056	2	<	0.39	J	Detected below RL	0.39	J+	Method blank detection	0.39	J+
2502087	2502087-04B	BLS-VP-3	01/29/2025 12:05	SV	TO-15	Naphthalene	UG/M3	2.30	0.14	2.4	<	0.14	U	Not detected above MDL			Method blank detection- No qual needed	0.14	U
2502087	2502087-05A	BLS-VP-4	01/29/2025 13:00	SV	TO-15	Methyl tert-butyl ether	UG/M3	1.38	1.4	10	<	1.4	U	Not detected above MDL				1.4	U
2502087	2502087-05A	BLS-VP-4	01/29/2025 13:00	SV	TO-15	Toluene	UG/M3	1.38	0.57	5.2	<	2.7	J	Detected below RL				2.7	J
2502087	2502087-05A	BLS-VP-4	01/29/2025 13:00	SV	TO-15	m,p-Xylene	UG/M3	1.38	1.1	6	<	2.9	J	Detected below RL				2.9	J
2502087	2502087-05A	BLS-VP-4	01/29/2025 13:00	SV	TO-15	o-Xylene	UG/M3	1.38	1	3	<	1.2	J	Detected below RL				1.2	J
2502087	2502087-05A	BLS-VP-4	01/29/2025 13:00	SV	TO-15	Cumene	UG/M3	1.38	1.5	3.4	<	1.5	U	Not detected above MDL				1.5	U
2502087	2502087-05A	BLS-VP-4	01/29/2025 13:00	SV	TO-15	1,3,5-Trimethylbenzene	UG/M3	1.38	1.4	3.4	<	1.4	U	Not detected above MDL				1.4	U
2502087	2502087-05A	BLS-VP-4	01/29/2025 13:00	SV	TO-15	1,2,4-Trimethylbenzene	UG/M3	1.38	1.7	3.4	<	1.7	U	Not detected above MDL			Method blank detection- No qual needed	1.7	U
2502087	2502087-05A	BLS-VP-4	01/29/2025 13:00	SV	TO-15	TPH ref. to Gasoline (MW=100)	UG/M3	1.38	NA	280	<	6100						6100	
2502087	2502087-05A	BLS-VP-4	01/29/2025 13:00	SV	TO-15	Total Xylene	UG/M3	1.38	NA	9	<	NA	U	Not detected above MDL				9	U
2502087	2502087-05B	BLS-VP-4	01/29/2025 13:00	SV	TO-15	Benzene	UG/M3	1.38	0.16	0.88	<	0.39	J	Detected below RL				0.39	J
2502087	2502087-05B	BLS-VP-4	01/29/2025 13:00	SV	TO-15	1,2-Dichloroethane	UG/M3	1.38	0.015	0.56	<	0.015	U	Not detected above MDL				0.015	U
2502087	2502087-05B	BLS-VP-4	01/29/2025 13:00	SV	TO-15	1,2-Dibromoethane (EDB)	UG/M3	1.38	0.013	0.21	<	0.013	U	Not detected above MDL			Method blank detection- No qual needed	0.013	U
2502087	2502087-05B	BLS-VP-4	01/29/2025 13:00	SV	TO-15	Ethyl Benzene	UG/M3	1.38	0.033	1.2	<	0.85	J	Detected below RL	0.85	J+	Method blank detection	0.85	J+
2502087	2502087-05B	BLS-VP-4	01/29/2025 13:00	SV	TO-15	Naphthalene	UG/M3	1.38	0.088	1.4	<	0.088	U	Not detected above MDL			Method blank detection- No qual needed	0.088	U
2502087	2502087-06A	BLS-VP-5	01/29/2025 13:00	SV	TO-15	Methyl tert-butyl ether	UG/M3	2.86	9.9	52	<	9.9	U	Not detected above MDL				9.9	U
2502087	2502087-06A	BLS-VP-5	01/29/2025 13:00	SV	TO-15	Benzene	UG/M3	2.86	4.5	46	<	4.5	U	Not detected above MDL				4.5	U
2502087	2502087-06A	BLS-VP-5	01/29/2025 13:00	SV	TO-15	1,2-Dichloroethane	UG/M3	2.86	17	58	<	17	U	Not detected above MDL				17	U
2502087	2502087-06A	BLS-VP-5	01/29/2025 13:00	SV	TO-15	Toluene	UG/M3	2.86	7.3	54	<	12	J						

SDG	Lab Sample ID	Client Sample ID	Date Collected	Matrix	Method	Analyte	Units	Dilution	MDL	RDL	Result Sign	Result	Lab Qualifier	Lab Qualifier Reason	Data Validation Result	Data Validation Qualifier	Validation Qual Reason	Final Result	Final Qualifier
L1822849	L1822849-08	BLS-RINSATE-1	01/31/2025	GW	8260D	TOLUENE	mg/l	1	0.000278	0.001	<	0.000278	U	Not detected above MDL				0.000278	U
L1822849	L1822849-08	BLS-RINSATE-1	01/31/2025	GW	8260D	1,2,4-TRIMETHYLBENZENE	mg/l	1	0.000322	0.001	<	0.000322	U	Not detected above MDL				0.000322	U
L1822849	L1822849-08	BLS-RINSATE-1	01/31/2025	GW	8260D	1,3,5-TRIMETHYLBENZENE	mg/l	1	0.000104	0.001	<	0.000104	U	Not detected above MDL				0.000104	U
L1822849	L1822849-08	BLS-RINSATE-1	01/31/2025	GW	8260D	XYLENES, TOTAL	mg/l	1	0.000174	0.003	<	0.000174	U	Not detected above MDL				0.000174	U
L1822849	L1822849-08	BLS-RINSATE-1	01/31/2025	GW	8270C-SIM	ANTHRACENE	mg/l	1	0.000019	0.00005	<	0.000019	U	Not detected above MDL			Method blank detection - no qual needed	0.000019	U
L1822849	L1822849-08	BLS-RINSATE-1	01/31/2025	GW	8270C-SIM	ACENAPHTHENE	mg/l	1	0.000019	0.00005	<	0.000019	U	Not detected above MDL				0.000019	U
L1822849	L1822849-08	BLS-RINSATE-1	01/31/2025	GW	8270C-SIM	BENZO(A)ANTHRACENE	mg/l	1	0.0000203	0.00005	<	0.0000234	B J	Blank detection; Detected below RL	0.00005	U	Method blank detection	0.000	U
L1822849	L1822849-08	BLS-RINSATE-1	01/31/2025	GW	8270C-SIM	BENZO(A)PYRENE	mg/l	1	0.0000184	0.00005	<	0.0000184	J	Detected below RL	0.00005	U	Method blank detection	0.00005	U
L1822849	L1822849-08	BLS-RINSATE-1	01/31/2025	GW	8270C-SIM	BENZO(B)FLUORANTHENE	mg/l	1	0.0000168	0.00005	<	0.0000168	U	Not detected above MDL			Method blank detection - no qual needed	0.0000168	U
L1822849	L1822849-08	BLS-RINSATE-1	01/31/2025	GW	8270C-SIM	BENZO(K)FLUORANTHENE	mg/l	1	0.0000202	0.00005	<	0.0000202	U	Not detected above MDL			Method blank detection - no qual needed	0.0000202	U
L1822849	L1822849-08	BLS-RINSATE-1	01/31/2025	GW	8270C-SIM	CHRYSENE	mg/l	1	0.0000179	0.00005	<	0.0000179	U	Not detected above MDL			Method blank detection - no qual needed	0.0000179	U
L1822849	L1822849-08	BLS-RINSATE-1	01/31/2025	GW	8270C-SIM	DIBENZ(A,H)ANTHRACENE	mg/l	1	0.000016	0.00005	<	0.000016	U	Not detected above MDL			Method blank detection - no qual needed	0.000016	U
L1822849	L1822849-08	BLS-RINSATE-1	01/31/2025	GW	8270C-SIM	FLUORANTHENE	mg/l	1	0.000027	0.0001	<	0.000027	U	Not detected above MDL				0.000027	U
L1822849	L1822849-08	BLS-RINSATE-1	01/31/2025	GW	8270C-SIM	FLUORENE	mg/l	1	0.0000169	0.00005	<	0.0000169	U	Not detected above MDL				0.0000169	U
L1822849	L1822849-08	BLS-RINSATE-1	01/31/2025	GW	8270C-SIM	INDENO(1,2,3-CD)PYRENE	mg/l	1	0.0000158	0.00005	<	0.0000158	U	Not detected above MDL			Method blank detection - no qual needed	0.0000158	U
L1822849	L1822849-08	BLS-RINSATE-1	01/31/2025	GW	8270C-SIM	NAPHTHALENE	mg/l	1	0.0000917	0.00025	<	0.0000917	U	Not detected above MDL				0.0000917	U
L1822849	L1822849-08	BLS-RINSATE-1	01/31/2025	GW	8270C-SIM	PYRENE	mg/l	1	0.0000169	0.00005	<	0.0000169	B J	Blank detection; Detected below RL	0.00005	U	Method blank detection	0.000	U
L1822849	L1822849-08	BLS-RINSATE-1	01/31/2025	GW	NWTPHDX-NO SGT	DIESEL RANGE ORGANICS	mg/l	1	0.0678	0.1		0.118	B	Blank Detection	0.118	J	Method blank detection	0.118	J
L1822849	L1822849-08	BLS-RINSATE-1	01/31/2025	GW	NWTPHGX	TPHG C6 - C12	mg/l	1	0.0316	0.1		0.287	B	Blank Detection	0.287	J	Method blank detection	0.287	J
L1822849	L1822849-09	BLS-RINSATE-2	02/01/2025	GW	6010D	ANTIMONY	mg/l	1	0.00506	0.01	<	0.00506	U	Not detected above MDL				0.00506	U
L1822849	L1822849-09	BLS-RINSATE-2	02/01/2025	GW	6010D	ARSENIC	mg/l	1	0.00783	0.01	<	0.00783	U	Not detected above MDL				0.00783	U
L1822849	L1822849-09	BLS-RINSATE-2	02/01/2025	GW	6010D	BERYLLIUM	mg/l	1	0.000501	0.002	<	0.000501	U	Not detected above MDL				0.000501	U
L1822849	L1822849-09	BLS-RINSATE-2	02/01/2025	GW	6010D	CADIUM	mg/l	1	0.000538	0.002	<	0.000538	U	Not detected above MDL				0.000538	U
L1822849	L1822849-09	BLS-RINSATE-2	02/01/2025	GW	6010D	CHROMIUM	mg/l	1	0.00151	0.01	<	0.00151	U	Not detected above MDL				0.00151	U
L1822849	L1822849-09	BLS-RINSATE-2	02/01/2025	GW	6010D	COPPER	mg/l	1	0.00226	0.01		0.0115						0.0115	
L1822849	L1822849-09	BLS-RINSATE-2	02/01/2025	GW	6010D	LEAD	mg/l	1	0.00243	0.006	<	0.00243	U	Not detected above MDL				0.00243	U
L1822849	L1822849-09	BLS-RINSATE-2	02/01/2025	GW	6010D	NICKEL	mg/l	1	0.00196	0.01	<	0.00196	U	Not detected above MDL				0.00196	U
L1822849	L1822849-09	BLS-RINSATE-2	02/01/2025	GW	6010D	SELENIUM	mg/l	1	0.00616	0.01	<	0.00616	U	Not detected above MDL				0.00616	U
L1822849	L1822849-09	BLS-RINSATE-2	02/01/2025	GW	6010D	SILVER	mg/l	1	0.00289	0.005	<	0.00289	U	Not detected above MDL				0.00289	U
L1822849	L1822849-09	BLS-RINSATE-2	02/01/2025	GW	6010D	THALLIUM	mg/l	1	0.00663	0.01	<	0.00663	U	Not detected above MDL				0.00663	U
L1822849	L1822849-09	BLS-RINSATE-2	02/01/2025	GW	6010D	ZINC	mg/l	1	0.00467	0.05		0.0052	J	Detected below RL				0.0052	J
L1822849	L1822849-09	BLS-RINSATE-2	02/01/2025	GW	7470A	MERCURY	mg/l	1	0.00007	0.0002	<	0.00007	U	Not detected above MDL				0.00007	U
L1822849	L1822849-09	BLS-RINSATE-2	02/01/2025	GW	8260D	BENZENE	mg/l	1	0.0000941	0.001	<	0.0000941	U	Not detected above MDL				0.0000941	U
L1822849	L1822849-09	BLS-RINSATE-2	02/01/2025	GW	8260D	1,2-DIBROMOETHANE	mg/l	1	0.000126	0.001	<	0.000126	U	Not detected above MDL				0.000126	U
L1822849	L1822849-09	BLS-RINSATE-2	02/01/2025	GW	8260D	1,2-DICHLOROETHANE	mg/l	1	0.0000819	0.001	<	0.0000819	U	Not detected above MDL				0.0000819	U
L1822849	L1822849-09	BLS-RINSATE-2	02/01/2025	GW	8260D	ETHYLBENZENE	mg/l	1	0.000137	0.001	<	0.000137	U	Not detected above MDL				0.000137	U
L1822849	L1822849-09	BLS-RINSATE-2	02/01/2025	GW	8260D	ISOPROPYLBENZENE	mg/l	1	0.000105	0.001	<	0.000105	U	Not detected above MDL				0.000105	U
L1822849	L1822849-09	BLS-RINSATE-2	02/01/2025	GW	8260D	METHYL TERT-BUTYL ETHER	mg/l	1	0.000101	0.001	<	0.000101	U	Not detected above MDL				0.000101	U
L1822849	L1822849-09	BLS-RINSATE-2	02/01/2025	GW	8260D	NAPHTHALENE	mg/l	1	0.001	0.005	<	0.001	U C3	Not detected above MDL; Low CCS	0.001	UJ	Low CCS	0.001	UJ
L1822849	L1822849-09	BLS-RINSATE-2	02/01/2025	GW	8260D	N-PROPYLBENZENE	mg/l	1	0.0000993	0.001	<	0.0000993	U	Not detected above MDL				0.0000993	U
L1822849	L1822849-09	BLS-RINSATE-2	02/01/2025	GW	8260D	TOLUENE	mg/l	1	0.000278	0.001	<	0.000278	U	Not detected above MDL				0.000278	U
L1822849	L1822849-09	BLS-RINSATE-2	02/01/2025	GW	8260D	1,2,4-TRIMETHYLBENZENE	mg/l	1	0.000322	0.001	<	0.000322	U	Not detected above MDL				0.000322	U
L1822849	L1822849-09	BLS-RINSATE-2	02/01/2025	GW	8260D	1,3,5-TRIMETHYLBENZENE	mg/l	1	0.000104	0.001	<	0.000104	U	Not detected above MDL				0.000104	U
L1822849	L1822849-09	BLS-RINSATE-2	02/01/2025	GW	8260D	XYLENES, TOTAL	mg/l	1	0.000174	0.003	<	0.000174	U	Not detected above MDL				0.000174	U
L1822849	L1822849-09	BLS-RINSATE-2	02/01/2025	GW	8270C-SIM	ANTHRACENE	mg/l	1	0.000019	0.00005	<	0.000019	U	Not detected above MDL			Method blank detection - no qual needed	0.000019	U
L1822849	L1822849-09	BLS-RINSATE-2	02/01/2025	GW	8270C-SIM	ACENAPHTHENE	mg/l	1	0.000019	0.00005	<	0.000019	U	Not detected above MDL				0.000019	U
L1822849	L1822849-09	BLS-RINSATE-2	02/01/2025	GW	8270C-SIM	BENZO(A)ANTHRACENE	mg/l	1	0.0000203	0.00005	<	0.0000204	B J	Blank detection; Detected below RL	0.00005	U	Method blank detection	0.000	U
L1822849	L1822849-09	BLS-RINSATE-2	02/01/2025	GW	8270C-SIM	BENZO(A)PYRENE	mg/l	1	0.0000184	0.00005	<	0.0000184	U	Not detected above MDL			Method blank detection - no qual needed	0.0000184	U
L1822849	L1822849-09	BLS-RINSATE-2	02/01/2025	GW	8270C-SIM	BENZO(B)FLUORANTHENE	mg/l	1	0.0000168	0.00005	<	0.0000168	U	Not detected above MDL			Method blank detection - no qual needed	0.0000168	U
L1822849	L1822849-09	BLS-RINSATE-2	02/01/2025	GW	8270C-SIM	BENZO(K)FLUORANTHENE	mg/l	1	0.0000202	0.00005	<	0.0000202	U	Not detected above MDL			Method blank detection - no qual needed	0.0000202	U
L1822849	L1822849-09	BLS-RINSATE-2	02/01/2025	GW	8270C-SIM	CHRYSENE	mg/l	1	0.0000179	0.00005	<	0.0000219	B J	Blank detection; Detected below RL	0.00005	U	Method blank detection	0.000	U
L1822849	L1822849-09	BLS-RINSATE-2	02/01/2025	GW	8270C-SIM	DIBENZ(A,H)ANTHRACENE	mg/l	1	0.000016	0.00005	<	0.000016	U	Not detected above MDL			Method blank detection - no qual needed	0.000016	U
L1822849	L1822849-09	BLS-RINSATE-2	02/01/2025	GW	8270C-SIM	FLUORANTHENE	mg/l	1	0.000027	0.0001	<	0.000027	U	Not detected above MDL				0.000027	U
L1822849	L1822849-09	BLS-RINSATE-2	02/01/2025	GW	8270C-SIM	FLUORENE	mg/l	1	0.0000169	0.00005	<	0.0000169	U	Not detected above MDL				0.0000169	U
L1822849	L1822849-09	BLS-RINSATE-2	02/01/2025	GW	8270C-SIM	INDENO(1,2,3-CD)PYRENE	mg/l	1	0.0000158	0.00005	<	0.0000158	U	Not detected above MDL			Method blank detection - no qual needed	0.0000158	U
L1822849	L1822849-09	BLS-RINSATE-2	02/01/2025	GW	8270C-SIM	NAPHTHALENE	mg/l	1	0.0000917	0.00025	<	0.0000917	U	Not detected above MDL				0.0000917	U
L1822849	L1822849-09	BLS-RINSATE-2	02/01/2025	GW	8270C-SIM	PYRENE	mg/l	1	0.0000169	0.00005	<								