



Phase II Environmental Site Assessment Report,
2450 Altamont Drive
Klamath Falls, OR

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Revision No. 2
May 14, 2025

EPA Contract No. 68HERH19D0017 (REPA)

Title and Approval Sheet

Phase II Environmental Site Assessment Report, 2450 Altamont Drive, Klamath Falls, OR

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Table of Contents

	<u>Page</u>
Executive Summary	vi
1.0 Introduction.....	1
1.1 Purpose and Involved Parties.....	1
1.2 Background	1
1.2.1 2007 & 2008 Soil & Groundwater Assessments.....	2
1.2.2 2011 After Action Report	2
1.2.3 2011 Remedial Action Report	3
1.3 Scope of the Assessment	3
1.4 Reliance and Limitations	4
2.0 Site Setting	4
3.0 Phase II ESA Field Activities	5
3.1 QAPP Deviations.....	5
3.2 Geology and Hydrology.....	5
3.3 Soil Sampling	6
3.3.1 Subsurface Soil Sampling.....	7
3.3.2 Dripline Soil Sampling.....	7
3.4 Groundwater Sampling	8
3.5 Soil Vapor Sampling	8
3.6 Hazardous Building Materials Survey.....	9
3.6.1 Asbestos-Containing Materials	9
3.6.2 Lead-Containing Paint	9
3.6.3 Mercury-Containing Components.....	9
3.6.4 PCB-Containing Components	9
3.6.5 RCRA 8 Metals TCLP	9
3.7 Investigation Derived Waste (IDW).....	9
4.0 Phase II ESA Data Quality Assurance Evaluation.....	10
4.1 General Data Review.....	10
4.2 Data Sensitivity.....	10
4.3 Data Accuracy and Precision	11
4.3.1 Accuracy	11
4.3.2 Precision	11
4.4 Data Usability	11
5.0 Phase II ESA Sampling Results.....	12
5.1 Soil Sampling Results.....	12
5.1.1 Soil Samples from Depth Results.....	12

5.1.2	Dripline Soil Sampling Results	13
5.2	Groundwater Sampling Results.....	14
5.3	Soil Vapor Sampling Results	16
5.4	Hazardous Building Material Survey Findings.....	17
5.4.1	Asbestos-Containing Materials Findings	17
5.4.2	Lead Paint Findings.....	17
5.4.3	Mercury-Containing Components Findings.....	17
5.4.4	PCB-Containing Components Findings	17
5.5	Discussion.....	17
6.0	Phase II ESA Conclusions and Recommendations	19
6.1	Conclusions	19
6.2	Recommendations	21
7.0	References.....	22

List of Appendices

Appendix A – Wellhead Elevation Survey
Appendix B – Photo Log
Appendix C – Sampling Results
Appendix D – Lab Reports
Appendix E – Boring & Well Logs and Groundwater Sampling Forms
Appendix F – QA/QC Memorandum
Appendix G – Hazardous Building Materials Survey Reports
Appendix H – IDW Waste Manifest
Appendix I – Well Survey Records

List of Figures

Figure 1. Site Layout.....	24
Figure 2. Groundwater Elevation Contour Map	25
Figure 3. Soil Sampling Results.....	26
Figure 4. Groundwater Sampling Results.....	27
Figure 6. Site Surroundings and Runoff Map	29

List of Tables

Table 1. Groundwater Elevations.....	6
Table 2. Phase II ESA Summary of Regulatory Exceedances for Soil	13
Table 3. Phase II ESA Summary of Regulatory Exceedances for Groundwater	15

Acronyms and Abbreviations

$\mu\text{g}/\text{m}^3$	micrograms per cubic meter
ABCA	Analysis of Brownfields Cleanup Alternatives
ACBM	asbestos-containing building material
AFFF	Aqueous Film-Forming Foam
AHERA	Asbestos Hazard Emergency Response Act
Alta	Alta Science & Engineering, Inc.
amsl	above mean sea level
Applicant	Klamath County
AST	aboveground storage tank
ASTM	ASTM International
bgs	below ground surface
BEI	Brady Environmental, Inc.
BTEX	benzene, toluene, ethylbenzene, and total xylenes
BTEXN	benzene, toluene, ethylbenzene, total xylenes, and naphthalene
COC	constituent of concern
DEQ	Oregon Department of Environmental Quality
DQO	data quality objective
ECA	Environmental Consulting & Assessment, Inc.
EDB	ethylene dibromide
EDC	1,2-dichloroethane
EMS	Environmental Management Services, Inc.
EPA	U.S. Environmental Protection Agency
ERG	Eastern Research Group, Inc.
ESA	Environmental Site Assessment
ft/ft	feet per foot
GenX	hexafluoropropylene oxide dimer acid
HBMS	Hazardous Building Materials Survey
HFPO-DA	hexafluoropropylene oxide dimer acid
Holt	Holt Services, Inc.
HUD	U.S. Department of Housing and Urban Development
ID	inside diameter
IDW	investigation derived waste
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
MTBE	methyl tert-butyl ether
OD	outside diameter
OR	Oregon
PAH	polycyclic aromatic hydrocarbon
PBS	PBS Engineering and Environmental
PCB	polychlorinated biphenyl
PFAS	per- and polyfluoroalkyl substances
PFBA	perfluorobutanoic acid
PFBS	perfluorobutanesulfonic acid
PFDoDA	perfluorodecanoic acid
PFHxA	perfluorohexanoic acid
PFHxS	perfluorohexane sulfonate
PFNA	perfluorononanoic acid
PFOA	perfluorooctanoic acid
PFOS	perfluorooctane sulfonic acid
PFPrA	perfluoropropionic acid
PFTeDA	perfluorotetradecanoic acid
PFUDA	perfluoroundecanoic acid
PID	photo-ionization detector
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-HO	total petroleum hydrocarbons as heavy oil
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 2450 Altamont Drive in Klamath Falls, Oregon (OR; Figure 1). ERG partnered with Alta Science & Engineering, Inc. (Alta) to perform the Environmental Site Assessment (ESA). The TBA included 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 0.48-acre Site is located within the city of Klamath Falls in southwest OR and is comprised of one parcel: tax lot 3909-003CA-00200. The Site is owned by Klamath County, which came under their ownership as a result of a foreclosure. The Site is bordered on the west by an unoccupied parking lot (formerly a lumber storage yard), on the south by Crosby Avenue, on the east by Altamont Drive, and to the north by a paved walking path (former railway) separating the Site from sparse commercial buildings along South 6th Street.

The Site operated as a Texas Company (later known as Texaco) bulk plant between 1926 and 1999. The Site likely received gasoline and diesel fuels from the adjacent railway for local distribution. Five aboveground storage tanks (ASTs) were located on the northwestern portion of the Site since 1926: two 20,000-gallon gasoline tanks, one 20,000-gallon diesel tank, one 20,000-gallon oil tank, and a 12,000-gallon kerosene tank. Additionally, one gasoline and two diesel card-lock pump islands associated with bulk fuel distribution were previously located on the southern portion of the site. The Site was damaged by a fire at the adjacent lumber storage yard located to the west in September 1999. The kerosene, diesel and oil tanks were destroyed in the 1999 fire while the two remaining and undamaged gasoline tanks remained onsite until 2006.

Phase II ESA activities included groundwater sampling, soil vapor sampling, subsurface soil sampling, surface soil sampling in the driplines of the existing structure to assess potential lead contamination from lead-based paint (LBP), 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 and Groundwater.** Soils and groundwater in the southwest corner of the Site appear to be impacted by historic petroleum releases. The benzene concentration (13.1 mg/kg) in BH-4 exceeds the DEQ RBC for Residential Soil for volatilization to outdoor air of 11 mg/kg; however, a deed restriction on use of the site for residential purposes would mitigate this risk pathway. Benzene was detected at concentrations exceeding the EPA RSL for Resident and Composite Worker Soil and ethylbenzene was detected at concentrations exceeding the EPA RSL for Resident Soil in soil samples collected at approximately 5 feet bgs from borehole location BH-4 (Figure 3).

In addition, TPH-GRO, TPH-DRO, benzene, ethylbenzene, and naphthalene concentrations in groundwater collected from TMW-4 (the temporary monitoring well co-located with borehole BH-4) exceeded DEQ RBCs for Residential and Occupational Tapwater and/or the EPA RSL for Resident Tapwater.

MTBE was detected in the groundwater sample from TMW-3 at a concentration above the DEQ RBC for Residential Tapwater and the EPA RSL for Resident Tapwater. No other groundwater or soil sampling location had detected COC concentrations in excess of RSLs. Due to the right-of-way, a preferential pathway may exist under the roadway and the source of MTBE contamination in this area cannot be determined.

There are no active domestic wells located within one mile downgradient of the Site.

No target petroleum constituents of concern (COCs) were detected in groundwater at concentrations exceeding DEQ RBCs for Groundwater in Excavation or in soil vapor at concentrations exceeding DEQ RBCs for Commercial Soil Vapor or EPA VISLs.

- **PFAS Impacts to Soil and Groundwater.** Soils and groundwater in the northwest corner of the Site appear to be impacted by PFAS. PFOS and PFOA were detected at concentrations exceeding the EPA RSLs for Resident Soil and/or Composite Worker Soil in soil samples collected at approximately 1.5 feet bgs from borehole locations BH-1 and BH-2 (Figure 3). In addition, PFOS, PFOA, and PFHxS concentrations in groundwater collected from TMW-1 and TMW-2 (the temporary monitoring wells co-located with boreholes BH-1 and BH-2, respectively, exceeded EPA RSLs for Resident Tapwater. It is noted that there are no current DEQ RBCs for PFAS.

DEQ has initiated rulemaking to designate PFOS, PFOA, PFHxS, PFNA, HFPO-DA or GenX, and PFBS as Oregon hazardous substances. At the request of DEQ, due to a previous structure fire on the west adjoining property and reference to use of [fire-fighting] foam to extinguish the fire, ERG collected samples for PFAS analysis at the request of DEQ. PFAS results indicate there are exceedances of EPA's RSLs. After rulemaking is complete, DEQ may require cleanup to address PFAS contamination.

The source of the PFAS contamination on-site is unknown. Fire suppressant foam that was likely PFAS-containing was applied in the vicinity of the former ASTs on-site during the 1999 fire, as well as on the west-adjacent property (a former lumber storage building and yard) where the fire originated. It is unknown if the Site had other sources of PFAS releases at the site from on-site fire suppression systems that were common for bulk fuel storage facilities or other on-site storage that may have contributed to the soil and groundwater concentrations detected.

There are no active domestic wells located within one mile downgradient of the Site.

- **Lead in Surface Soil at Warehouse Driplines.** Lead was detected in surficial soils along two dripline locations around the Site warehouse at concentrations exceeding the EPA RSL for Resident Soil and along four dripline locations (representing three sides of the building) at concentrations exceeding the DEQ RBC for Residential Soil. Exterior paint samples collected from the warehouse building and associated loading rack had lead concentrations ranging from 620 mg/kg to 49,000 mg/kg. Based on the confirmed presence of LBP on the warehouse's exterior, it is likely that this is the source of elevated concentrations of lead found in surficial soils surrounding the warehouse.
- **Presence of Hazardous Building Materials.** The HBMS identified LBP in interior and exterior locations of the warehouse building and on the loading rack structure. Mercury-containing fluorescent tubes 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, it is noted that deed restrictions preventing residential Site use and groundwater use at the Site would remove the risk of on-site petroleum and surface soil drip-line lead exposure concerns. Along with the Site being connected to the public water supply system, a groundwater use restriction would also remove the potential for exposure to PFAS detected in groundwater via the tapwater pathway.

ERG recommends that additional PFAS sampling at the Site and surrounding properties be conducted to determine the origin and extent of soil and groundwater PFAS contamination. ERG also recommends the development of an Analysis of Brownfields Cleanup Alternatives (ABCA) to identify and evaluate cleanup alternatives to address hazardous building materials in Site structures. Since PFAS are not currently listed by Oregon as hazardous substances, PFAS site impacts are not being recommended to be addressed in the ABCA at this time. However, Oregon is currently undertaking rulemaking that would list them as hazardous substances and DEQ recommends including cleanup options to address potential risk

to PFAS contamination (e.g., soil removal and offsite disposal following a CMMP or capping with a Soil Cap Management Plan). After the conclusion of DEQ's rulemaking process, the ABCA should be revised to incorporate cleanup alternatives for PFAS contaminants.

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 Klamath County (the Applicant) to conduct a Targeted Brownfields Assessment (TBA) of the property located at 2450 Altamont Drive (the “Site” or the “property”) in Klamath Falls, 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 November 2024 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 0.48-acre Site is located within the city of Klamath Falls in southwest OR and is comprised of one parcel: tax lot 3909-003CA-00200. The Site is owned by Klamath County, which came under their ownership as a result of a foreclosure. The Site is bordered on the west by an unoccupied parking lot (formerly a lumber storage building and yard, Swan Lake Moulding, ECSI #2893), on the south by Crosby Avenue, on the east by Altamont Drive, and to the north by a paved walking path (formerly a railway) separating the Site from sparse commercial buildings along South 6th Street.

The Site operated as a Texas Company (later known as Texaco) bulk plant between 1926 and 1999. The Site likely received gasoline and diesel fuels from the adjacent railway for local distribution. One gasoline and two diesel card-lock pump islands associated with bulk fuel distribution were previously located on the southern portion of the site. Five aboveground storage tanks (ASTs) were located on the northwestern portion of the Site since 1926: two 20,000-gallon gasoline tanks, one 20,000-gallon diesel tank, one 20,000-gallon oil tank, and a 12,000-gallon kerosene tank.

The Site was damaged by a fire at the adjacent lumber storage building and yard located to the west in September 1999. An article in the Klamath Falls Herald and News published on September 5, 1999, the day after the fire, indicates that one kerosene AST exploded, spreading fire to two adjacent oil and diesel ASTs, and that foam was spread on the burning fuel (Klamath Falls Herald and News 1999). While the kerosene, oil and diesel ASTs were damaged or destroyed in 1999, the two gasoline ASTs were not damaged by the fire and remained on-Site until approximately 2006.

The Site has been inactive since 1999. One building, reportedly constructed in 1926, is located in the northeast portion of the Site and contains a small office space, loading dock, and garage. Immediately

south of the building is a bulk loading rack that is no longer in use. The Site is partially fenced but is generally accessible via Altamont Drive or Crosby Avenue. Figure 1 identifies the Site layout.

The remaining office/warehouse building on the Site has not had assessments conducted to evaluate the presence for asbestos-containing building materials (ACBMs), lead-based paint (LBP), mercury and other Resource Conservation and Recovery Act (RCRA) metals, and polychlorinated biphenyls (PCBs). Based on the date of the warehouse building's construction (1926) and including the visible appearance of flaking exterior building paint, the potential for the presence of hazardous building materials is possible.

There is a potential for per- and polyfluoroalkyl substances (PFAS) contamination on the property due to the use of fire suppressant foam on the west-adjacent property (a former lumber storage yard) and in the vicinity of the former onsite ASTs in 1999. Additionally, many bulk fuel storage and distribution facilities historically had fire Aqueous Film-Forming Foam-(AFFF) containing fire suppression systems. It is unknown if the Site had such systems. The general location of the fire and estimated surface runoff pathways on the Site is shown in Figure 6.

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

1.2.1 2007 & 2008 Soil & Groundwater Assessments

In 2007, a soil and groundwater assessment conducted by Environmental Management Services, Inc. (EMS) identified two general areas of soil and/or groundwater contamination on the Site. One area south of the former AST containment area had exceedances of benzene in soil above the Oregon Department of Environmental Quality (DEQ) risk-based concentrations (RBCs) for vapor intrusion into buildings. A second area located in the southwest portion of the Site also had exceedances of benzene in soil above the DEQ RBC for vapor intrusion into buildings as well as total petroleum hydrocarbons as gasoline range organics (TPH-GRO) and benzene in groundwater at concentrations above DEQ RBCs for groundwater in excavations (EMS 2007). Methyl tert-butyl ether (MTBE) was part of this constituent of concern (COC) group during the 2007 assessment, but did not have any exceedances above any RBC for any soil or groundwater sample collected.

In 2008, a subsurface investigation conducted by Brady Environmental, Inc. (BEI) identified TPH-GRO, TPH as diesel range organics (TPH-DRO), TPH as heavy oil (TPH-HO), and the volatile organic compounds (VOCs) benzene, toluene, ethylbenzene, and total xylenes (BTEX) in soil borings located in the southern portion of the Site as well as TPH-GRO, ethylbenzene, and total xylenes at one offsite boring location. Benzene and total xylenes were also detected in on-site groundwater samples, and BTEX were detected in offsite groundwater samples. However, the report did not discuss the results of the soil and groundwater sampling in the context of DEQ RBCs. BEI delineated the general extent of the shallow (approximately 3 feet below ground surface [bgs]) petroleum contamination in the northern section of the Site near the former AST containment area, in the south and western sections of the Site near the former pump islands and extending into the sewer as a pathway and migrating westward down Crosby Avenue (BEI 2008).

1.2.2 2011 After Action Report

In 2011, Environmental Consulting & Assessment, Inc. (ECA) conducted an assessment and management of petroleum contaminated soil and groundwater during utility excavation work, done by the City of Klamath Falls. This investigation had detected TPH and VOC constituents (including MTBE) in

groundwater at several borings located between the intersection of S 6th Street and Crosby Avenue (ECA 2011).

Due to the right-of-way, a preferential pathway likely exists under the roadway and the specific source of contamination in this area cannot be determined with certainty.

1.2.3 2011 Remedial Action Report

In 2011, BEI conducted remedial action at the Site including the removal of the three card lock pump islands, underground fuel lines, and the former AST containment area. Approximately 800 cubic yards of impacted soil were excavated from two areas on the Site near the former AST containment area and near the former pump islands. Remedial excavations were conducted to a depth of approximately 8 to 9 feet bgs, which is where the excavator met refusal (BEI 2011).

The 2011 BEI report indicates that soil samples were collected from the sidewalls of the excavated areas above the water table and from the bottom of the excavation below the water table. Two soil samples collected from the northern and southern extents of the initial AST excavation area had elevated TPH-GRO concentrations and one sample also had elevated concentrations of benzene and ethylbenzene. The report indicates that the excavation area was subsequently expanded and that a sample collected from the upgradient extent of the expanded AST excavation area detected TPH-GRO above the DEQ RBC for soil leaching to groundwater. Total xylenes were detected in a confirmation sample collected from the southernmost boundary of the pump island excavation area above the DEQ RBC for soil leaching to groundwater (BEI 2011).

The 2011 BEI report indicates that grab samples were collected from groundwater present in excavated areas and were analyzed for TPH-GRO and BTEX. No analytes were detected above DEQ RBCs for groundwater in excavations (BEI 2011).

Additionally, the 2011 BEI report documents that approximately 800 cubic yards of petroleum contaminated soil excavated from the Site and 300 cubic yards of petroleum contaminated soil from offsite sources were treated onsite via passive aeration techniques. The treated soil was representatively sampled for TPH-GRO and VOCs and subsequently used as fill onsite. According to the report, all samples collected from treated soil following the remedial action were below DEQ RBC levels for applicable exposure pathways. BEI recommended that no further action be taken at the Site (BEI 2011).

1.3 Scope of the Assessment

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

- A visit to the Site by Brady Brantley of Alta and Sedrek Kovar of ERG on November 18 through November 20, 2024, to complete the Phase II ESA field sampling activities. Photographs were taken during the site visit and are presented in Appendix B.
- The field work consisted of the following samples:
 - 14 surface soil samples collected from 6 borehole locations co-located with temporary groundwater monitoring wells to evaluate COC concentrations,
 - 6 surface soil composite samples collected along the dripline/foundation areas of the warehouse building to evaluate COC concentrations,

- 6 groundwater samples collected from 6 newly installed temporary groundwater monitoring wells co-located with borehole locations, and
- 2 soil vapor samples collected from 2 newly installed soil vapor wells to evaluate COC concentrations in Site surface soil gas.
- ERG's subcontractor, PBS, conducted an HBMS of the single Site structure during November 2024. The HBMS included an inspection of all accessible areas for ACBM, LBP, 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 on November 4, 2024. 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 express 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 Klamath Falls in south-central OR. Klamath Falls, OR is located 80 miles southeast of Medford, OR. The subject property's general central point is located at 42.2056910 degrees North Latitude and 121.7476450 degrees West Longitude within the northwest quarter of section 3 of Township 39S, Range 09E, Willamette Principal Meridian, OR.

The subject property totals 0.48 acres and consists of one parcel owned by Klamath County as a result of foreclosure. The subject property is accessible from Crosby Avenue, which defines the property's southern border, or from Altamont Drive, which forms the property's east border (Figure 1). The Site is bordered on the west by an unoccupied parking lot (former lumber storage yard), and to the north by a paved walking path (former railway) separating the Site from sparse commercial buildings along South 6th Street. Based on a 2024 City of Klamath interactive online zoning map, the area in the vicinity of the subject property is mixed zoning, consisting of general commercial, low industrial, and heavy industrial uses.

There are two downgradient wells (KLAM 12514 and KLAM 51304) located within a one-mile radius of the Site. The wells lie approximately 500 and 950 feet southwest of the Site, respectively, and both are reported as domestic use wells (Oregon Water Resources Department [OWRD] 2025). Well logs and locations of these wells from OWRD are found in Appendix I. The 2007 Soil and Groundwater Assessment Report prepared by EMS included a water supply well survey. KLAM 12514 was identified as a downgradient well located at 3328 Crosby Avenue. EMS contacted the property owner at 3328 Crosby Avenue and confirmed that KLAM 12514 was inactive and capped, and that water for the property was

provided by the City of Klamath Falls (EMS 2007). The well log for KLAM 51304 includes coordinates that are approximately 950 feet southwest of the Site, however, the tax map and street address information provided place the well in Malin, OR. Ladeena Ashley of OWRD confirmed via telephone conversation that the map location for KLAM 51304 was inaccurate and the well was located in Malin, OR, but that the specific coordinates of the well were unknown. KLAM 51304 is no longer shown in Klamath Falls on the OWRD database. Based on this review, there are no active downgradient wells located within one mile of the Site.

3.0 Phase II ESA Field Activities

Phase II ESA field activities included a HBMS and the collection of surface soil composite dripline, 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 county of potential environmental challenges that may need to be addressed prior to redevelopment activities.

3.1 QAPP Deviations

In general, sampling procedures followed the *Quality Assurance Project Plan for Phase II Site Assessment – 2450 Altamont Drive, Klamath Falls, OR* (ERG 2024). The ERG field team installed six (6) temporary groundwater monitoring wells and collected six (6) groundwater samples (plus one duplicate), installed two (2) soil vapor wells and collected two (2) soil vapor samples (plus one replicate), collected subsurface soil samples from six (6) soil boring locations (including one duplicate and co-located with temporary groundwater monitoring wells), collected six (6) surface soil dripline samples (plus one duplicate), and conducted an HBMS of the Site structure.

3.2 Geology and Hydrology

Silty clay dominates the Site lithology. In general, silty clays are present within soils from the surface to about 15 feet bgs. Interbedded sand lenses are present and increase with depth starting at approximately 9.5 feet bgs.

During drilling, the ERG field crew encountered groundwater at approximately 12 feet bgs (3-10 feet bgs after temporary groundwater monitoring well completion). The ERG field crew measured depth to water in each temporary groundwater monitoring well prior to groundwater sampling activities. The ERG field crew performed a top of casing well survey on November 19, 2024, using a Topcon rotating laser, level sensor, and staff gauge (Appendix A). Wellhead elevations were measured to the nearest 0.01 foot relative to an arbitrary onsite sewer manhole cover with a given height of 100.00 above mean sea level (amsl). Groundwater elevations were calculated by subtracting the depth to water measurement from the top of casing elevations. Groundwater elevations, tabulated below, ranged from 96.33 feet at TMW-3 to 96.82 feet at TMW-2. Based on the temporary groundwater monitoring well network, the apparent groundwater flow direction is southwest at an approximate gradient of 0.0023 feet per foot (ft/ft) (Figure 2).

Appendix A 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)
TMW-1	101.50	4.88	96.62
TMW-2	100.27	3.45	96.82
TMW-3*	100.22	10.20	90.02
TMW-4	99.84	3.51	96.33
TMW-5	100.01	3.55	96.46
TMW-6	100.86	4.22	96.64

*= This temporary groundwater monitoring well location was omitted from the groundwater gradient calculations (Figure 2) due to its proximity to the utility corridor, which may be a preferential pathway and could interfere with data quality.

3.3 Soil Sampling

ERG notified 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 prior to boring advancement to locate underground utilities using ground penetrating radar.

The ERG field crew collected soil samples into the sampling containers while wearing clean nitrile gloves described in the QAPP (ERG 2024) and placed all soil samples in a refrigerated cooler containing PFAS-free double-bagged 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 benzene, toluene, ethylbenzene, total xylenes, and naphthalene (BTEXN), and iso-propylbenzene, n-propylbenzene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, MTBE, 1,2-dichloroethane (EDC), and ethylene dibromide (EDB) analyzed using EPA Method 8260D (EPA 2018a),
- Polycyclic aromatic hydrocarbons (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), and

- Total lead analyzed using EPA Method 6010B (EPA 1996b).

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

- PFAS including, but not limited to: PFOA, perfluorobutanesulfonic acid (PFBS), perfluorohexane sulfonate (PFHxS), perfluorononanoic acid (PFNA), GenX (hexafluoropropylene oxide dimer acid [HFPO-DA]), perfluoropropionic acid (PFPrA), perfluorobutanoic acid (PFBA), perfluorohexanoic acid (PFHxA), perfluoroundecanoic acid (PFUDA), perfluorodecanoic acid (PFDoDA), and perfluorotetradecanoic acid (PFTeDA) analyzed using EPA Method 1633 (EPA 2024c).

Shallow surface (dripline area) soil samples were analyzed for:

- Total lead by EPA Method 6010D (EPA 2018c).

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

3.3.1 Subsurface Soil Sampling

On November 18 and 19, 2024, the ERG field crew conducted subsurface 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.) to the target depth of 15 feet bgs.

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 a MiniRae® 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 E. 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 14 soil grab samples (plus 2 duplicate samples) from 6 soil boring locations at the Site (BH-1 through BH-6, Figure 3). From the 14 soil grab samples, 8 samples from 6 soil borings were analyzed for TPHs (TPH-GRO and TPH-DRO), VOCs, PAHs, and lead, and 6 samples from 3 soil borings were analyzed for PFAS. Samples for TPHs, VOCs, PAHs, and lead were collected from depths based on field observations and PID readings. Samples for PFAS were collected from shallow subsurface soils (1.5 feet bgs) and at the groundwater interface (8-12 feet bgs). ERG collected the samples for VOC analysis in accordance with EPA Sampling Method 5035 for VOCs (EPA 1996a). Appendix C includes all subsurface soil grab sampling results (Tables 1 through 5).

3.3.2 Dripline Soil Sampling

On November 18, 2024, the ERG field crew collected six surface soil composite samples (plus one field duplicate) along the accessible dripline/foundation areas (approximately 1 foot from the exterior wall) of the Site warehouse building according to U.S. Department of Housing and Urban Development (HUD)

guidelines (HUD 2012) for lead analysis. Figure 3 notes which composite samples are associated with each dripline area.

The ERG field crew wore clean nitrile gloves when working with soil along the driplines and replaced the gloves between composite samples to prevent cross-contamination. Samples were collected from the top ½-inch of surface soil to a maximum depth of 6 inches bgs. Samples were collected using a stainless-steel trowel at each subsample location. Field crews sieved the soil from each subsample location into a dedicated, new, clean, and disposable plastic bucket for homogenization. The field crew mixed the soil thoroughly by hand while wearing single-use, nitrile gloves and placed the homogenized soil into a 1-gallon Ziploc® bag for analysis. The collection tool and sieve were decontaminated between each composite sample in accordance with the QAPP (ERG 2024). Appendix C includes all surface composite sampling results (Table 6).

3.4 Groundwater Sampling

On November 18 and 19, 2024, the ERG field crew oversaw the installation of six temporary groundwater monitoring wells. All wells were advanced to 15 feet bgs and completed with pre-pack, 1-inch schedule 40 polyvinyl chloride (PVC) casing with up to 10 feet of 0.010-inch slots. The temporary groundwater monitoring wells were constructed using a temporary PVC screen, PVC riser, and additional filter pack, as needed. No well seal was set, and the wells were immediately removed after sampling was completed. The ERG field crew developed the temporary 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 six groundwater samples (plus two duplicate samples) from the six newly installed temporary groundwater monitoring well locations at the Site (TMW-1 through TMW-6; Figure 4). All groundwater samples were analyzed for TPHs, VOCs, PAHs, and lead, while three groundwater samples were also analyzed for PFAS, depending on location.

Appendix C includes all groundwater sampling results (Tables 7 through 11).

3.5 Soil Vapor Sampling

The ERG field crew installed two soil vapor wells on November 19, 2024, 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 November 20, 2024.

Holt advanced two soil borings to 3 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 [OD] x 1/16-inch inside diameter [ID]). 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 2.5-1 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 two soil vapor wells as written in the QAPP (ERG 2024), the ERG field crew collected a total of two soil vapor samples (plus one replicate sample) from the vapor well locations at the Site (VP-1 and VP-2; Figure 4). All soil vapor samples were analyzed for BTEXN.

Appendix C includes soil vapor sampling results (Table 12).

3.6 Hazardous Building Materials Survey

On November 5, 2024, PBS performed an HBMS of the Site warehouse building, which included one office space, a large storage area, an automotive bay, restroom, and associated loading rack. 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 G includes the complete HBMS report prepared by PBS.

3.6.1 Asbestos-Containing Materials

An Asbestos Hazard Emergency Response Act (AHERA) Certified Building Inspector inspected all accessible areas of the Site structures and collected 28 samples from suspected accessible friable and non-friable ACMs from the Site warehouse building.

Asbestos samples were held under chain-of-custody protocols until submittal to NVL Laboratories, Inc. for analysis by EPA Method 600R-93/116 using Polarized Light Microscopy (EPA 1993).

3.6.2 Lead-Containing Paint

PBS collected eleven 2-inch square paint samples from interior/exterior painted building components. Paint samples were held under chain of custody until submittal to NVL Laboratories, Inc. for lead analysis by EPA Method 3051A/7000B (EPA 2007a and 2007b).

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 2024), 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 2024), no samples were collected for PCBs.

3.6.5 RCRA 8 Metals TCLP

PBS did not encounter masonry mortar and consistent with the QAPP (ERG 2024), no samples were collected for RCRA 8 regulated metals.

3.7 Investigation Derived Waste (IDW)

IDW consisted of one 16-gallon drum of soil cuttings and four 16-gallon drums of purge water. The drums were transported and hauled by a certified waste hauler and disposed of at a permitted facility. Appendix H 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 2024). Alta's Quality Assurance Officer (QAO) conducted a Stage 2A data validation for the soil 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., Pace Analytical Services, LLC, and Eurofins Air Toxics) to ensure that the data had been recorded, transmitted, and processed correctly, and to determine that DQOs were met. Appendix F includes the Site-specific QA/QC Memorandum that summarizes the data validation and the resulting data quality performed by Alta.

4.1 General Data Review

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

- For groundwater samples in Sample Delivery Group (SDG) L1804697, concentrations of TPH-GRO, TPH-DRO, VOCs, and PAHs greater than the MDL are qualified as estimates (J) while concentrations less than the MDL are qualified as non-detect estimates (UJ) due to the samples being received at the laboratory at temperatures greater than 10°C.
- In groundwater samples TMW-1 through TMW-4, sample results where benzo(a)anthracene, dibenz(a,h)anthracene, and naphthalene were not detected are qualified as non-detect estimates (UJ) due to the sample analysis exceeding the method-specific holding time.

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 method detection limits (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 Regional Screening Level (RSL) for Resident Tapwater.
 - In soil sample ATMT-BH4-SG-5¹, 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 Residential Soil.
- Certain groundwater sample results for TPH-GRO, dibenz(a,h)anthracene, and indeno(1,2,3-cd)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), while concentrations less than the MDL do not require qualification.
- Certain concentrations of isopropylbenzene and naphthalene, which were not detected above the MDL, were qualified as non-detect estimated (UJ) in one trip blank sample analyzed with groundwater field samples. No field samples were qualified.
- One grab soil sample result for TPH-GRO was qualified as estimated, biased high (J+) due to a method blank detection.
- Ethylbenzene concentrations detected below the RL in all soil vapor samples will be raised to the RL and qualified as non-detect (U) due to a method blank detection.

4.3 Data Accuracy and Precision

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

4.3.1 Accuracy

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

- In certain groundwater samples, concentrations of naphthalene greater than the MDL are qualified as estimates (J) and concentrations of naphthalene less than the MDL are qualified as non-detect estimates (UJ) based on low LCS %Recovery.
- In all groundwater samples, concentrations of PFHxS and PFOS greater than the MDL are qualified as estimates (J) and concentrations of these analytes less than the MDL as non-detect estimates (UJ) due to low MS %Recoveries.
- In samples BH4-SG-8.5', BH4-SG-5', and BH5-SG-7.5', concentrations of acenaphthene and fluorene 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 low surrogate %Recoveries.
- Non-detect concentrations of naphthalene analyzed using EPA Method 8260D in grab soil samples were qualified as non-detect estimates (UJ) due to low LCS %Recovery.
- In grab soil samples, concentrations of PFHxS and PFOS greater than the MDL are qualified as estimates (J), while concentrations less than the MDL are qualified as non-detect estimates (UJ) based on low Site-specific MS/MSD %Recoveries.
- Lead concentrations in all composite soil samples were qualified as estimates (J) based on poor performing MS/matrix spike duplicate (MSD) %Recoveries.

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]).

- In certain groundwater samples, concentrations of TPH-GRO greater than the MDL are qualified as estimates (J) while samples where TPH-GRO was not detected were qualified as non-detect estimates (UJ) due to high site-specific MS/MSD RPD.
- In all groundwater field samples, concentrations of perfluoropentanoic acid (PFPeA) are qualified as estimates (J) while concentrations less than the MDL are qualified as non-detect estimates (UJ) due to field duplicate precision.
- In the soil grab samples, concentrations of PFBS, PFHxA, and perfluoropentanesulfonic acid (PFPeS) are qualified as estimates (J), while concentrations less than the MDL are qualified as non-detect estimates (UJ) due to inadequate precision.

4.4 Data Usability

The Alta QAO did not reject any results. Therefore, according to the QAPP (ERG 2024), 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 November 18 and 20, 2024. An overall summary of regulatory exceedances is provided in Tables 2 and 3 below, while the data tables in Appendix C summarize all soil, groundwater, and soil vapor analytical results and Appendix G includes all HBMS analytical results.

Screening investigation results against Oregon DEQ's RBCs is the primary method of evaluating risk, in accordance with DEQ's Risk-Based Decision Making Guidance and the Site's Conceptual Site Model. Decisions regarding protectiveness, cleanup and potential limitations on future use are based on DEQ's cleanup process for COC, which DEQ has established screening values. If DEQ does not have established screening values for COC, EPA SLs may be used to evaluate risk in accordance with DEQ's Human Health Risk Assessment Guidance (2010).

5.1 Soil Sampling Results

ERG compared target analyte concentrations in soil samples to DEQ RBCs for Individual Chemicals (DEQ 2003 and 2023) and EPA RSLs for Resident Soil and Composite Worker Soil (EPA 2024a), as listed in Appendix A of the QAPP (ERG 2024). Soil sampling results for total lead were also compared to background concentrations (DEQ 2018).

Results for samples collected from soils less than 3 feet bgs were compared to residential and occupational DEQ RBCs and results for samples collected from soils at or greater than 3 feet bgs were compared to construction and excavation worker DEQ RBCs.

Tables 1 through 6 in Appendix C summarize the soil sample analytical results (expressed in mg/kg). Figure 3 shows soil sample locations.

5.1.1 Soil Samples from Depth Results

ERG collected 14 soil grab samples (plus 2 duplicate samples) at depth from 6 boring locations (BH-1 through BH-6 with soil borings co-located with the newly installed onsite temporary groundwater monitoring well locations).

Benzene was detected in soil at boring location BH-4 (13.1 mg/kg at 5 feet bgs) at concentrations above EPA RSLs for Resident and Composite Worker Soil (1.2 mg/kg and 5.1 mg/kg, respectively) and the DEQ RBC for Residential Soil for volatilization to outdoor air of 11 mg/kg. However, benzene concentrations in this sample were below the DEQ RBCs for Construction and Excavation Workers (380 mg/kg and 11,000 mg/kg, respectively).

Ethylbenzene was detected in soil at boring location BH-4 (10 mg/kg at 5 feet bgs) at a concentration above the EPA RSL for Resident Soil (5.8 mg/kg). However, the ethylbenzene concentration in this sample was below the DEQ RBCs for Construction and Excavation Workers (1,700 mg/kg and 49,000 mg/kg, respectively).

PFOS was detected in soil at boring location BH-1 (0.0625 mg/kg at 1.5 feet bgs) at a concentration above the EPA RSLs for Resident and Composite Worker Soil (0.0063 mg/kg and 0.058 mg/kg, respectively). PFOS was also detected in soil at boring location BH-2 (0.0382 mg/kg at 1.5 feet bgs) at a concentration above the EPA RSL for Resident Soil (0.0063 mg/kg).

PFOA was detected in soil at boring location BH-1 (0.00022 mg/kg at 1.5 feet bgs) and BH-2 (0.00026 mg/kg at 1.5 feet bgs) at concentrations above EPA RSLs for Resident and Composite Worker Soil (0.000019 mg/kg and 0.000078 mg/kg, respectively).

No other COCs were detected in subsurface soils at concentrations above the DEQ RBCs or EPA RSLs in any sample.

Tables 1 through 5 in Appendix C summarize the subsurface soil sample analytical results (expressed in mg/kg). Figure 3 shows soil sample locations.

5.1.2 Dripline Soil Sampling Results

The ERG field crew collected six composite soil samples (plus one duplicate sample) along the accessible dripline/foundation areas of the Site warehouse building to evaluate impacts of LBP on soils. Lead was detected at concentrations above the EPA RSL for Resident Soil (200 mg/kg) and the regional background concentration (29 mg/kg) in composite soil sample locations along the south wall (234 mg/kg) and the east wall #1 (216 mg/kg). Lead was detected at concentrations above the DEQ RBC for Residential Soil (100 mg/kg) and the background concentration in composite soil samples along the north wall (199 mg/kg), south wall (234 mg/kg) and both east wall locations (216 mg/kg and 153 mg/kg).

Table 6 in Appendix C summarizes the surface 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	EPA Regulatory Limit	DEQ Regulatory Limit
Benzene	Subsurface Soil	ATMT-BH4-SG-5'; 5 ft bgs	13.1 mg/kg	1.2 mg/kg¹ 5.1 mg/kg²	380 mg/kg ⁴ 11,000 mg/kg ⁶
Ethylbenzene	Subsurface Soil	ATMT-BH4-SG-5'; 5 ft bgs	10 mg/kg	5.8 mg/kg¹ 25 mg/kg ²	1,700 mg/kg ⁴ 49,000 mg/kg ⁶
PFOS	Subsurface Soil	ATMT-BH1-SG-1.5'; 1.5 ft bgs	0.0625 J mg/kg	0.0063 mg/kg¹ 0.058 mg/kg²	N/A ³
		ATMT-BH2-SG-1.5'; 1.5 ft bgs	0.0382 J mg/kg		N/A ⁴ N/A ⁵
PFOA	Subsurface soil	ATMT-BH1-SG-1.5'; 1.5 ft bgs	0.00022 mg/kg	0.000019 mg/kg¹ 0.000078 mg/kg²	N/A ³
		ATMT-BH2-SG-1.5'; 1.5 ft bgs	0.00026 mg/kg		N/A ⁴ N/A ⁵
Lead	Dripline	ATMT-WB1-NS-0''-6''; 0.5 ft bgs	199 J mg/kg	200 mg/kg¹ 800 mg/kg ²	100 mg/kg³ 270 mg/kg ⁴ 530 mg/kg ⁵
		ATMT-WB1-SS-0''-6''; 0.5 ft bgs	234 J mg/kg		
		ATMT-WB1-ES-1-0''-6''; 0.5 ft bgs	216 J mg/kg		

Analyte	Sample Media	Sample ID	Sample Result	EPA Regulatory Limit	DEQ Regulatory Limit
		ATMT-WB1-ES-2-0"-6"; 0.5 ft bgs	153 J mg/kg		

¹ U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL) for Resident Soil (EPA 2024a). Not Applicable (N/A) = RSL is not available for this analyte.

² EPA RSL for Composite Worker Soil (EPA 2024a). N/A = RSL is not available for this analyte.

³ OR Department of Environmental Quality (DEQ) risk-based concentrations (RBCs) for Residential Soil (DEQ 2018). N/A = RBC is not available for this analyte.

⁴ DEQ RBCs for Construction Worker (DEQ 2018). N/A = RBC is not available for this analyte.

⁵ DEQ RBCs for Occupational Soil (DEQ 2018). N/A = RBC is not available for this analyte.

⁶ DEQ RBCs for Excavation Worker (DEQ 2018). N/A = RBC is not available for this analyte.

>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.

J = result is an estimate

ft bgs = feet below ground surface

mg/kg = milligrams per kilogram

The screening level (RBC and/or RSL) is bolded when exceeded by one or more results.

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 E). The ERG field crew collected six groundwater samples (plus two duplicate samples) from the temporary groundwater monitoring well locations (TMW-1 through TMW-6) on November 20, 2024.

TPH-GRO was detected in groundwater samples from TMW-1 (0.528 milligrams per liter [mg/L]) and TMW-4 (5.56 mg/L) at concentrations above the DEQ RBCs for Residential and Occupational Tapwater (0.11 mg/L and 0.45 mg/L, respectively). However, TPH-GRO concentrations in these samples were below the DEQ RBC for Excavation Worker of 14 mg/L.

TPH-DRO was detected in groundwater samples from TMW-1 (0.383 mg/L) and TMW-4 (0.342 mg/L) at concentrations above the DEQ RBC for Residential Tapwater of 0.1 mg/L. However, TPH-GRO concentrations in these samples were below the DEQ RBC for Occupational Tapwater of 0.43 mg/L. Additionally, there is a DEQ RBCs for Excavation Worker; however, the RBC exceeds the solubility limit indicating free product.

Benzene was detected in the groundwater sample from TMW-4 (0.737 mg/L) at a concentration above the DEQ RBCs for Residential and Occupational Tapwater (0.00046 mg/L and 0.0021 mg/L, respectively) and the EPA maximum contaminant level (MCL) of 0.005 mg/L. However, the benzene concentration in this sample was below the DEQ RBC for Groundwater in Excavation of 1.8 mg/L.

Ethylbenzene was detected in the groundwater sample from TMW-4 (0.204 mg/L) at a concentration above the DEQ RBCs for Residential and Occupational Tapwater (0.0015 mg/L and 0.0064 mg/L,

respectively). However, the ethylbenzene concentration in this sample was below the DEQ RBC for Groundwater in Excavation of 4.5 mg/L and the EPA MCL of 0.7 mg/L.

Naphthalene was detected in the groundwater sample from TMW-4 (0.0694 mg/L) at a concentration above the DEQ RBCs for Residential and Occupational Tapwater (0.00017 mg/L and 0.00072 mg/L, respectively) and the EPA RSL for Resident Tapwater of 0.00012 mg/L. However, the naphthalene concentration in this sample was below the DEQ RBC for Groundwater in Excavation of 0.5 mg/L.

MTBE was detected in the groundwater sample from TMW-3 (0.0268 mg/L) at a concentration above the DEQ RBC for Residential Tapwater of 0.014 mg/L and the EPA RSL for Resident Tapwater of 0.014 mg/L. However, the MTBE concentration in this sample was below the DEQ RBCs for Occupational Tapwater and Groundwater in Excavation (0.068 mg/L and 63 mg/L, respectively).

PFOS was detected in the groundwater samples from TMW-1 and TMW-2 (0.00181 mg/L and 0.0028 mg/L, respectively) at concentrations above the EPA MCL of 0.000004 mg/L. There is not a DEQ RBC for PFOS.

PFOA was detected in the groundwater samples from TMW-1 and TMW-2 (0.000033 mg/L and 0.000009 mg/L, respectively) at concentrations above the EPA MCL of 0.000004 mg/L. There is not a DEQ RBC for PFOA.

PFHxS was detected in the groundwater samples from TMW-1 and TMW-2 (0.000872 mg/L and 0.000266 mg/L, respectively) at concentrations above the EPA MCL of 0.00001 mg/L. There is not a DEQ RBC for PFHxS.

No other COCs were detected in groundwater at concentrations above DEQ RBCs or EPA RSLs.

Tables 7 through 11 in Appendix C summarize the groundwater sample analytical results (expressed in mg/L). Figure 4 shows groundwater sample locations.

Table 3. Phase II ESA Summary of Regulatory Exceedances for Groundwater

Analyte	Sample Media	Sample ID	Sample Result	EPA Regulatory Limit	DEQ Regulatory Limit
TPH-GRO	Groundwater	TMW-1	0.528 J mg/L	N/A mg/L ¹	0.11 mg/L³
		TMW-4	5.56 J mg/L	N/A mg/L ²	0.45 mg/L⁴ 14 mg/L ⁵
TPH-DRO	Groundwater	TMW-1	0.383 J mg/L	N/A mg/L ¹	0.1 mg/L³
		TMW-4	0.342 J mg/L	N/A mg/L ²	0.43 mg/L ⁴ >S mg/L ⁵
Benzene	Groundwater	TMW-4	0.737 J mg/L	N/A mg/L ¹ 0.005 mg/L²	0.00046 mg/L³ 0.0021 mg/L⁴ 1.8 mg/L ⁵
Ethylbenzene	Groundwater	TMW-4	0.204 J mg/L	N/A mg/L ¹ 0.7 mg/L ²	0.0015 mg/L³ 0.0064 mg/L⁴ 4.5 mg/L ⁵

Analyte	Sample Media	Sample ID	Sample Result	EPA Regulatory Limit	DEQ Regulatory Limit
Naphthalene	Groundwater	TMW-4	0.0694 J mg/L	0.00012 mg/L¹ N/A mg/L ²	0.00017 mg/L³ 0.00072 mg/L⁴ 0.5 mg/L ⁵
MTBE	Groundwater	TMW-3	0.0268 J mg/L	0.014 mg/L¹ N/A mg/L ²	0.014 mg/L³ 0.068 mg/L ⁴ 63 mg/L ⁵
PFOS	Groundwater	TMW-1	0.00181 J mg/L	N/A mg/L ¹	N/A mg/L ³
		TMW-2	0.00280 J mg/L	0.000004 mg/L²	N/A mg/L ⁴ N/A mg/L ⁵
PFOA	Groundwater	TMW-1	0.000033 J mg/L	N/A mg/L ¹	N/A mg/L ³
		TMW-2	0.000009 J mg/L	0.000004 mg/L²	N/A mg/L ⁴ N/A mg/L ⁵
PFHxS	Groundwater	TMW-1	0.000872 mg/L	N/A mg/L ¹	N/A mg/L ³
		TMW-2	0.000266 mg/L	0.00001 mg/L²	N/A mg/L ⁴ N/A mg/L ⁵

¹ U.S. Environmental Protection Agency (EPA) Regional Screening Level (RSL) for Resident Tapwater (EPA 2024a). Not Applicable (N/A) = RSL is not available for this analyte.

² EPA maximum contaminant level (MCL) (EPA 2024a). N/A = MCL is not available for this analyte.

³ OR Department of Environmental Quality (DEQ) risk-based concentrations (RBCs) for Residential Tapwater (DEQ 2018). N/A = RBC is not available for this analyte.

⁴ DEQ RBCs for Occupational Tapwater (DEQ 2018). N/A = RBC is not available for this analyte.

⁵ DEQ RBCs for Groundwater in Excavation (DEQ 2018). N/A = RBC is not available for this analyte.

>S = This groundwater RBC exceeds the solubility limit.

J = result is an estimate

mg/L = milligram per liter

The screening level (RBC and/or RSL) is bolded when exceeded by one or more results.

5.3 Soil Vapor Sampling Results

Following successful helium leak testing per the QAPP (ERG 2024), the ERG field crew collected two soil vapor samples (plus one replicate sample) from the two newly installed soil vapor wells.

No target COC concentrations in soil vapor exceeded DEQ RBCs (DEQ 2024) or EPA Vapor Intrusion Screening Levels (VISLs; EPA 2024b).

Table 12 in Appendix C summarizes the soil vapor sample analytical results (expressed in micrograms per cubic meter [$\mu\text{g}/\text{m}^3$]). Figure 5 shows sample locations.

5.4 Hazardous Building Material Survey Findings

5.4.1 Asbestos-Containing Materials Findings

PBS collected 28 samples of suspect ACBMs from the Site warehouse building. Regulated ACBM is defined as containing greater than 1% asbestos content. The HBMS did not identify any building materials containing greater than 1% asbestos in the Site warehouse building. Details of the sample locations, results, approximate quantities, and photographs are included in the HBMS reports in Appendix G.

5.4.2 Lead Paint Findings

PBS collected a total of 11 representative paint samples from the Site warehouse building and. PBS observed peeling and flaking paint. For reference, 500 parts per million (ppm) is considered lead-containing paint (LCP), while 5,000 ppm is considered LBP.

All 11 samples were found to contain lead with concentrations ranging from 62 ppm to 82,000 ppm. LCP was identified in painted surfaces on door frames, interior and exterior walls, floors, and window trim. LBP was confirmed on exterior walls, support beams, window frames, and door frames on the warehouse and on the associated loading rack structure.

5.4.3 Mercury-Containing Components Findings

Based on visual inspection, fluorescent tubes are present throughout the Site structure. All eight fluorescent light tubes/bulbs are presumed to contain mercury.

No mercury-containing electrical switches were observed within wall-mounted thermostats and gauges in the Site warehouse building.

5.4.4 PCB-Containing Components Findings

PBS inspected and/or disassembled representative fluorescent light fixture ballasts throughout the Site warehouse building. The ballasts that were observed and disassembled were not suspect for PCBs.

5.5 Discussion

Petroleum Contamination at Site

The presence of VOCs in soils in the southwest corner of the Site around BH-4 at concentrations above the EPA RSL for Resident Soil (benzene and ethylbenzene) and the EPA RSL for Composite Worker Soil (benzene only) indicates that the documented historical releases at the Site continue to impact Site soils in this area (Figure 3). The benzene concentration (13.1 mg/kg) in BH-4 exceeds the DEQ RBC for Residential Soil for volatilization to outdoor air of 11 mg/kg. All target COCs were below DEQ RBCs for Construction Worker and Excavation Worker.

Additionally, VOCs and TPHs in groundwater in monitoring wells located in the west and northeast portions of the Site around TMW-1, TMW-3, and TMW-4 at concentrations above the DEQ RBCs for Residential Tapwater (TPH-GRO and TPH-DRO in TMW-1 and TMW-4; benzene, ethylbenzene, and naphthalene in TMW-4; and MTBE in TMW-3), the DEQ RBCs for Occupational Tapwater (TPH-GRO, benzene, ethylbenzene, and naphthalene in TMW-4), the EPA MCL (benzene in TMW-4), and the EPA RSL for Resident Tapwater (naphthalene in TMW-4 and MTBE in TMW-3) indicates that the documented releases at the Site continue to impact Site groundwater in limited areas (Figure 4). All target COCs were

below DEQ RBCs for Groundwater in Excavation. As discussed above, MTBE was detected at the Site above SLs at one groundwater location (TMW-3). No other groundwater or soil sampling location had detected COC concentrations in excess of SLs. Furthermore, previous onsite investigations also did not detect MTBE in any soil or groundwater sample collected from the Site. An after-action report from 2011 detailing assessment work conducted in the right-of-way adjacent to the Site did find MTBE in groundwater in several boring locations upgradient, cross gradient, and downgradient of the Site (ECA 2011). Due to the right-of-way, a preferential pathway may exist under the roadway and the specific source of MTBE contamination in this area cannot be determined with certainty.

Due to the presence of the same COCs in both soil and groundwater in excess of SLs, this indicates that the soil to groundwater pathway is complete.

No target COC concentrations in soil vapor exceeded DEQ RBCs or EPA VISLs.

PFAS Contamination at the Site

The presence of PFAS substances in soils in the northwest corner of the Site around BH-1 and BH-2, where the former ASTs were located, at concentrations above EPA RSLs for Resident Soil (PFOS in BH-1 and BH-2 at 1.5 feet bgs; and PFOA in BH-1 and BH-2 at 1.5 feet bgs) and the EPA RSL for Composite Worker Soil (PFOS in BH-1 at 1.5 feet bgs and PFOA in BH-1 and BH-2 at 1.5 feet bgs) indicates that the documented use of PFAS-containing firefighting foam continues to impact Site soils in this area (Figure 3).

PFOA and PFOS are considered long-chain PFAS substances and have lower mobility in soil compared to short-chain PFAS substances like PFBS. These long-chain carbon structures in PFOA and PFOS, combined with their strong electrostatic and hydrophobic characteristics, lead to higher adsorption rates within soils. Furthermore, soils with high clay, silt, and/or organic content (such as those at the Site) tend to bind to PFOA and PFOS with greater effectiveness due to the characteristics mentioned previously. In general, the Site's lithology is as follows: silty clays are present within soils from the surface to about 15 feet bgs. Interbedded sand lenses are present and increase with depth starting at approximately 9.5 feet bgs.

Because PFAS soil sampling was only conducted in select borings near the former ASTs (BH-1 and BH-2), it is possible that PFAS contamination is present in Site soils located on the southern portion of the Site along the western property boundary where fire-fighting foam may have also been used to extinguish the adjoining former lumber storage building. Soil results from the AST area borings indicate that PFOA and PFOS were not present in deeper soils and are likely bound in shallow soil. Therefore, migration of PFAS contamination to soils in other areas of the Site is unlikely.

The presence of several PFAS substances in groundwater within a limited area near the former ASTs (specifically PFOS, PFOA, and PFHxS in TMW-1 and TMW-2 at concentrations above EPA MCLs) indicates that the documented use of PFAS-containing firefighting foam continues to impact Site groundwater (Figure 4).

PFAS in groundwater at the Site is likely due to the migration of PFAS substances from surface soils to groundwater. PFHxS is also considered a long-chain carbon PFAS substance and, as with PFOA and PFOS, these long-chain carbon PFAS substances are generally less soluble compared to the short carbon-chain structures like PFBS. As with soil sampling, because PFAS groundwater sampling was only conducted in

select temporary groundwater monitoring wells near the former ASTs, it is possible that PFAS contamination is present in Site groundwater located downgradient from the ASTs.

Based on the review conducted by ERG discussed in Section 2.0, there are no downgradient active domestic wells within one mile of the Site. Therefore, there are no water supply wells downgradient of the Site that have the potential to be impacted by on-site groundwater contamination.

It is worth noting that DEQ does not currently regulate PFAS and there are currently no established DEQ RBCs or cleanup criteria for PFAS substances in soil or groundwater. DEQ has initiated rulemaking to designate PFOS, PFOA, PFHxS, PFNA, HFPO-DA or GenX, and PFBS as Oregon hazardous substances. PFAS results indicate there are exceedances of EPA's RSLs; however, until rulemaking is complete, DEQ cannot require cleanup for PFAS contamination.

Metals Contamination in Site Soils

Lead was detected along two dripline locations around the Site warehouse building at concentrations above the EPA RSL for Resident Soil (EPA 2024a) and along four dripline locations (three sides of the building) at concentrations above the DEQ RBC for Residential Soil (Figure 3). Exterior paint samples were collected from the warehouse building and associated loading rack and had identified LBP at concentrations ranging from 620 mg/kg to 49,000 mg/kg. It is likely that LBP on the warehouse building is the cause of lead in soils within the dripline area of this building.

Assessment of Hazardous Building Materials in Site Structures

Hazardous building materials were identified or suspected in the Site warehouse building. LBP was detected in samples from the warehouse building. Additionally, mercury- and PCB-containing components were observed throughout the Site structure. No ACBMs were found to be present on the warehouse building.

6.0 Phase II ESA Conclusions and Recommendations

The analytical results for soil and groundwater samples indicate COCs are present at the Site above the respective DEQ RBCs (DEQ 2018) and/or EPA RSLs (EPA 2024a). The HBMS confirmed the presence of hazardous building materials within the Site structure. 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 and Groundwater.** Soils and groundwater in the southwest corner of the Site appear to be impacted by historic petroleum releases. The benzene concentration (13.1 mg/kg) in BH-4 exceeds the DEQ RBC for Residential Soil for volatilization to outdoor air of 11 mg/kg; however, a deed restriction on use of the site for residential purposes would mitigate this risk pathway. Benzene was detected at concentrations exceeding the EPA RSL for Resident and Composite Worker Soil and ethylbenzene was detected at concentrations exceeding the EPA RSL for Resident Soil in soil samples collected at approximately 5 feet bgs from borehole location BH-4 (Figure 3).

In addition, TPH-GRO, TPH-DRO, benzene, ethylbenzene, and naphthalene concentrations in groundwater collected from TMW-4 (the temporary monitoring well co-located with borehole BH-4) exceeded DEQ RBCs for Residential and Occupational Tapwater and/or the EPA RSL for Resident Tapwater.

MTBE was detected in the groundwater sample from TMW-3 at a concentration above the DEQ RBC for Residential Tapwater and the EPA RSL for Resident Tapwater. No other groundwater or soil sampling location had detected COC concentrations in excess of RSLs. Due to the right-of-way, a preferential pathway may exist under the roadway and the source of MTBE contamination in this area cannot be determined.

There are no active domestic wells located within one mile downgradient of the Site. No target petroleum constituents of concern (COCs) were detected in groundwater at concentrations exceeding DEQ RBCs for Groundwater in Excavation or in soil vapor at concentrations exceeding DEQ RBCs for Commercial Soil Vapor or EPA VISLs.

- **PFAS Impacts to Soil and Groundwater.** Soils and groundwater in the northwest corner of the Site appear to be impacted by PFAS. PFOS and PFOA were detected at concentrations exceeding the EPA RSLs for Resident Soil and/or Composite Worker Soil in soil samples collected at approximately 1.5 feet bgs from borehole locations BH-1 and BH-2 (Figure 3). In addition, PFOS, PFOA, and PFHxS concentrations in groundwater collected from TMW-1 and TMW-2 (the temporary monitoring wells co-located with boreholes BH-1 and BH-2, respectively) exceeded EPA RSLs for Resident Tapwater. It is noted that there are no current DEQ RBCs for PFAS.

DEQ has initiated rulemaking to designate PFOS, PFOA, PFHxS, PFNA, HFPO-DA or GenX, and PFBS as Oregon hazardous substances. At the request of DEQ, due to a previous structure fire on the west adjoining property and reference to use of [fire-fighting] foam to extinguish the fire, ERG collected samples for PFAS analysis at the request of DEQ. PFAS results indicate there are exceedances of EPA's RSLs. After rulemaking is complete, DEQ may require cleanup to address PFAS contamination.

The source of the PFAS contamination on-site is unknown. Fire suppressant foam that was likely PFAS-containing was applied in the vicinity of the former ASTs on-site during the 1999 fire, as well as on the west-adjacent property (a former lumber storage building and yard) where the fire originated. It is unknown if the Site had other sources of PFAS releases at the site from on-site fire suppression systems that were common for bulk fuel storage facilities or other on-site storage that may have contributed to the soil and groundwater concentrations detected.

- There are no active domestic wells located within one mile downgradient of the Site. **Lead in Surface Soil at Warehouse Driplines.** Lead was detected in surficial soils along two dripline locations around the Site warehouse at concentrations exceeding the EPA RSL for Resident Soil and along four dripline locations (representing three sides of the building) at concentrations exceeding the DEQ RBC for Residential Soil. Exterior paint samples collected from the warehouse building and associated loading rack had lead concentrations ranging from 620 mg/kg to 49,000 mg/kg. Based on the confirmed presence of LBP on the warehouse's exterior, it is likely that this is the source of elevated concentrations of lead found in surficial soils surrounding the warehouse.
- **Presence of Hazardous Building Materials.** The HBMS identified LBP in interior and exterior locations of the warehouse building and on the loading rack structure. Mercury-containing

fluorescent tubes 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, it is noted that deed restrictions preventing residential Site use and groundwater use at the Site would remove the risk of on-site petroleum and surface soil drip-line lead exposure concerns. Along with the Site being connected to the public water supply system, a groundwater use restriction would also remove the potential for exposure to PFAS detected in groundwater via the tapwater pathway.

ERG recommends that additional PFAS sampling at the Site and surrounding properties be conducted to determine the origin and extent of soil and groundwater PFAS contamination. ERG also recommends the development of an Analysis of Brownfields Cleanup Alternatives (ABCA) to identify and evaluate cleanup alternatives to address hazardous building materials in Site structures. Since PFAS are not currently listed by Oregon as hazardous substances, PFAS site impacts are not being recommended to be addressed in the ABCA at this time. However, Oregon is currently undertaking rulemaking that would list them as hazardous substances and DEQ recommends including cleanup options to address potential risk to PFAS contamination (e.g., soil removal and offsite disposal following a CMMP or capping with a Soil Cap Management Plan). After the conclusion of DEQ's rulemaking process, the ABCA should be revised to incorporate cleanup alternatives for PFAS contaminants.

7.0 References

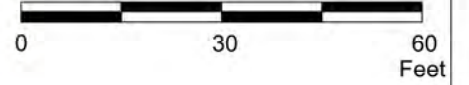
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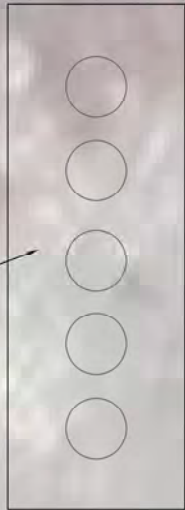
Former Railroad Line



APPROXIMATE SCALE



FORMER ASTs and SECONDARY CONTAINMENT

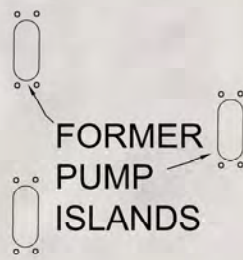


WAREHOUSE BUILDING



Former Lumber Yard
(Origin of 1999 fire; likely location of AFFF application)

LOADING RACK



FORMER PUMP ISLANDS

ALTAMONT DRIVE

Site Boundary/Tax Lot:
3909-003CA-00200

CROSBY AVENUE



PRINT DATE:
February 4, 2025
PROJECT NUMBER:
22136

PROJECTION:
UTM NAD 83, Zone 11N
PROJECT MANAGER:
S. Weppner
CARTOGRAPHER:
B. Brantley

PROJECT NAME:
Phase II ESA
2450 Altamont Drive
Klamath Falls, OR

FIGURE 1
Site Location Map

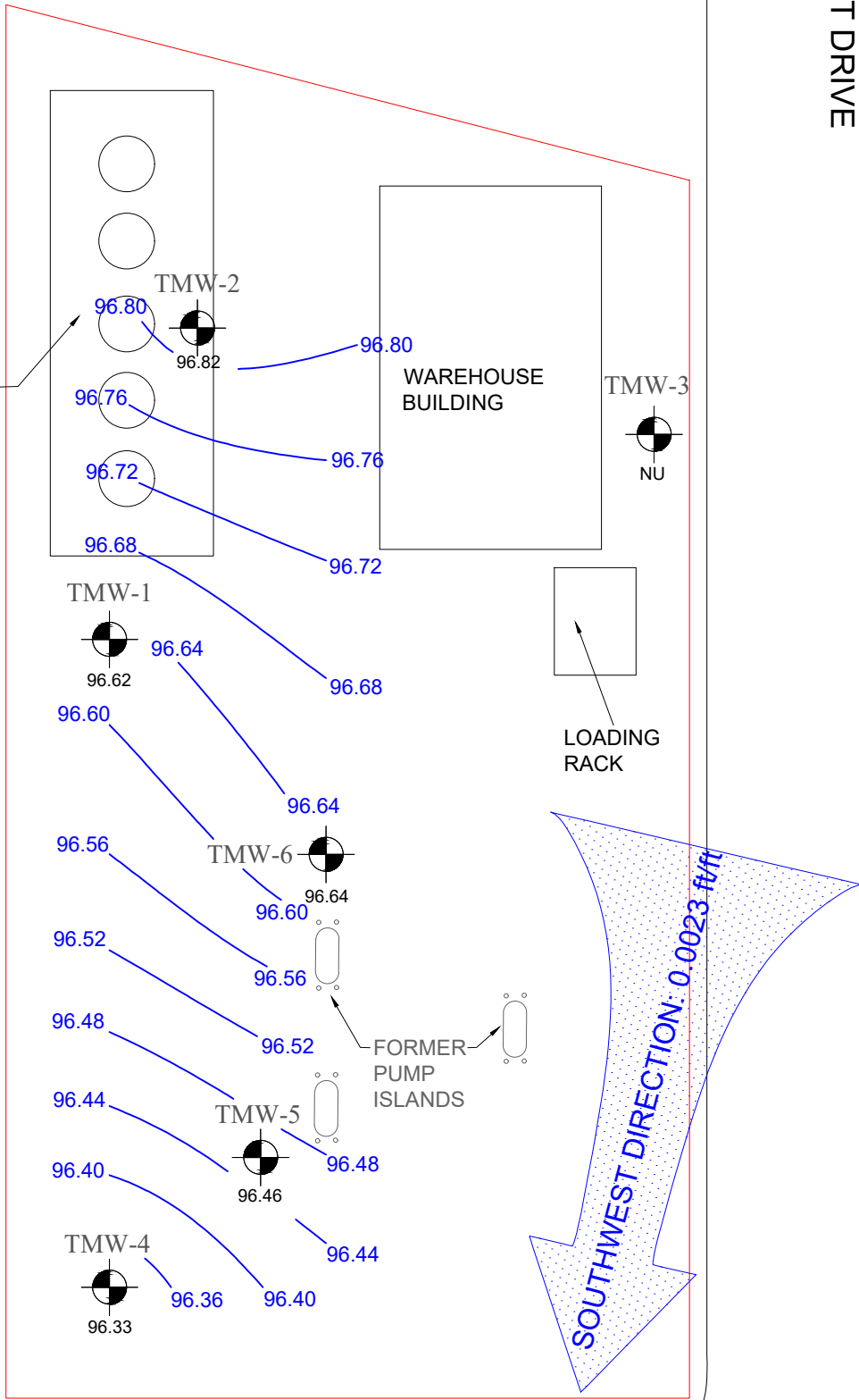
This map was produced using information obtained from several different sources that have not been independently verified. These sources have also not provided information on the precision and accuracy of the data. Information on this map is not a substitute for survey data.



ALTAMONT DRIVE

CROSBY AVENUE

FORMER ASTs and SECONDARY CONTAINMENT



FN 0311070002

EXPLANATION



Temporary Monitoring Well Location

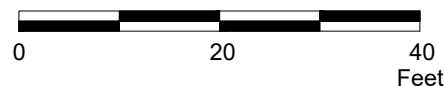


Site Boundary



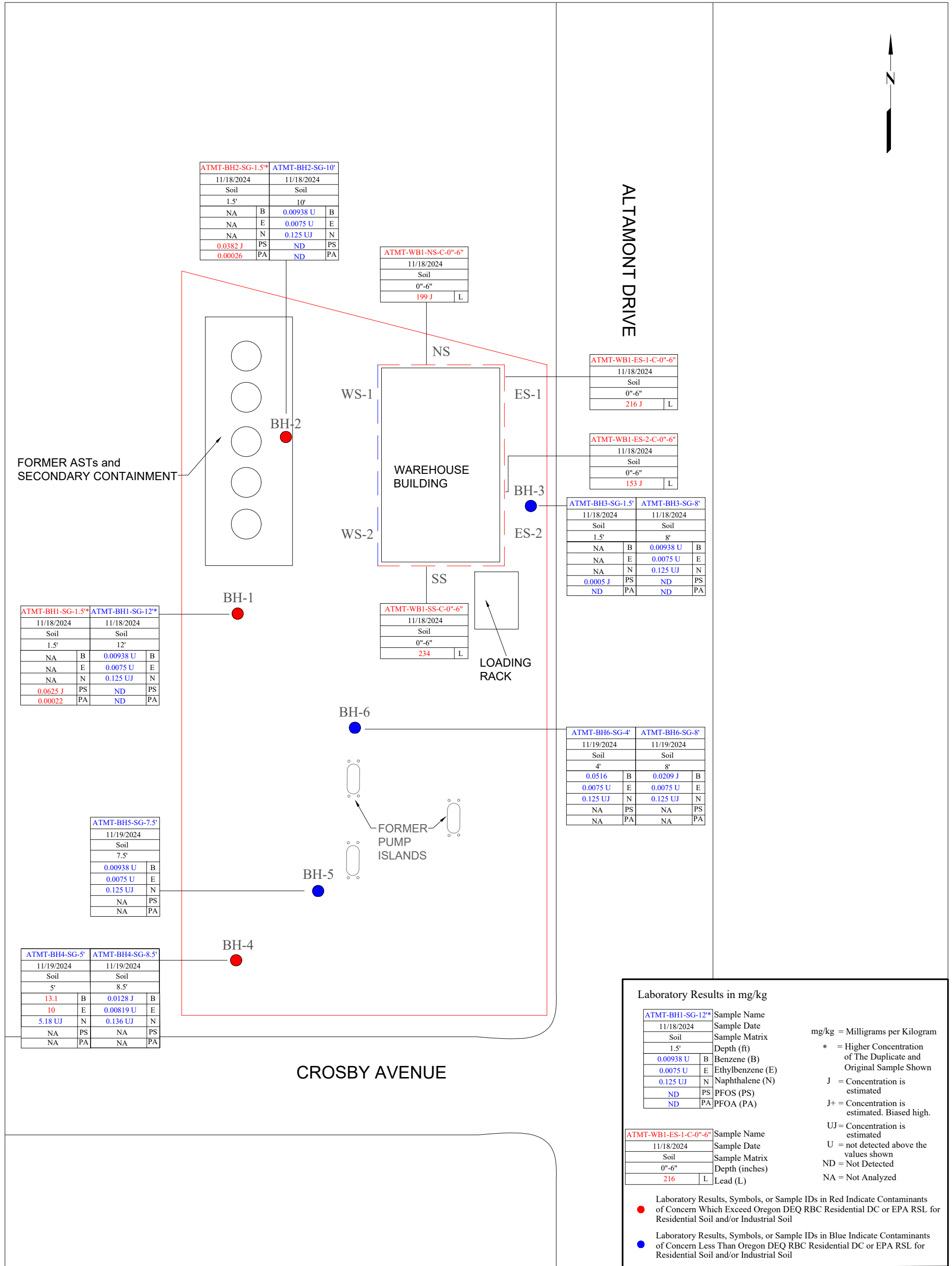
Groundwater Contour

APPROXIMATE SCALE



NU = Not Used

	PRINT DATE: March 21, 2025	PROJECTION: UTM NAD 83, Zone 11N	PROJECT NAME: Phase II ESA 2450 Altamont Drive Klamath Falls, OR	FIGURE 2 Groundwater Elevation Contour 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.
	PROJECT NUMBER: 22136	PROJECT MANAGER: S. Weppner			
		CARTOGRAPHER: B. Brantley			



Laboratory Results in mg/kg

ATMT-BH1-SG-12*	Sample Name	
11/18/2024	Sample Date	
Soil	Sample Matrix	
1.5'	Depth (ft)	
0.00938 U	B	Benzene (B)
0.0075 U	E	Ethylbenzene (E)
0.125 UJ	N	Naphthalene (N)
ND	PS	PFOS (PS)
ND	PA	PFOA (PA)

mg/kg = Milligrams per Kilogram

- * = Higher Concentration of The Duplicate and Original Sample Shown
- J = Concentration is estimated
- J+ = Concentration is estimated. Biased high.
- UJ = Concentration is estimated
- U = not detected above the values shown
- ND = Not Detected
- NA = Not Analyzed

ATMT-WB1-ES-1-C-0"-6"	Sample Name	
11/18/2024	Sample Date	
Soil	Sample Matrix	
0"-6"	Depth (inches)	
216	L	Lead (L)

Laboratory Results, Symbols, or Sample IDs in Red Indicate Contaminants of Concern Which Exceed Oregon DEQ RBC Residential DC or EPA RSL for Residential Soil and/or Industrial Soil

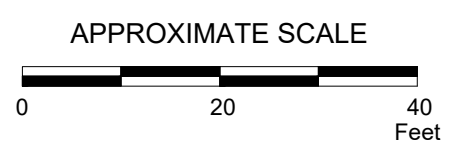
Laboratory Results, Symbols, or Sample IDs in Blue Indicate Contaminants of Concern Less Than Oregon DEQ RBC Residential DC or EPA RSL for Residential Soil and/or Industrial Soil

FN 0311070002

EXPLANATION

- Dripline Soil Sampling Location
- Site Boundary

BH-5 ● Soil Boring Location



	PRINT DATE: May 13, 2025	PROJECTION: UTM NAD 83, Zone 11N	PROJECT NAME: Phase II ESA 2450 Altamont Drive Klamath Falls, OR	FIGURE 3 Soil Sampling 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.
	PROJECT NUMBER: 22136	PROJECT MANAGER: S. Weppner			
		CARTOGRAPHER: B. Brantley			



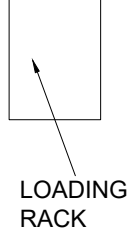
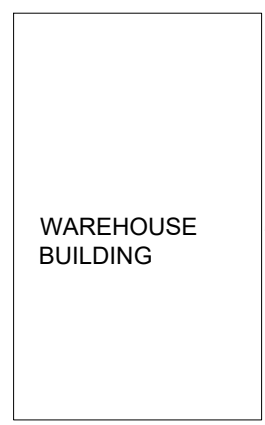
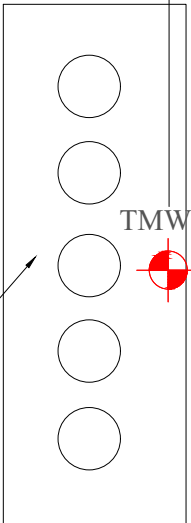
ATMT-TMW-2*		
11/20/2024		
Groundwater		
0.0843 J	G	
0.0667 UJ	D	
0.0000941 UJ	B	
0.001 UJ	N	
0.000101 UJ	M	
0.000137 UJ	E	
0.0028 J	PS	
0.00009	PA	
0.000266 J	Px	

ALTAMONT DRIVE

ATMT-TMW-3		
11/20/2024		
Groundwater		
0.0579 J	G	
0.0667 UJ	D	
0.0000941 UJ	B	
0.001 UJ	N	
0.0268 J	M	
0.000137 UJ	E	
0.0000015 J	PS	
ND	PA	
ND	Px	

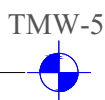
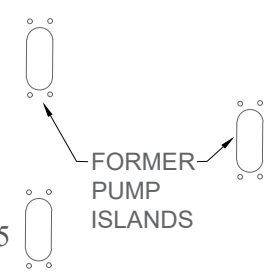
FORMER ASTs and SECONDARY CONTAINMENT

ATMT-TMW-1		
11/20/2024		
Groundwater		
0.528 J	G	
0.383 J	D	
0.000155 J	B	
0.001 UJ	N	
0.000235 J	M	
0.000137 UJ	E	
0.00181 J	PS	
0.000033	PA	
0.000872 J	Px	

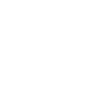


ATMT-TMW-6		
11/20/2024		
Groundwater		
0.100 U	G	
0.0667 U	D	
0.000184 J	B	
0.001 UJ	N	
0.012	M	
0.000137 U	E	
NA	PS	
NA	PA	
NA	Px	

ATMT-TMW-5		
11/20/2024		
Groundwater		
0.0316 UJ	G	
0.0667 U	D	
0.0000941 U	B	
0.001 UJ	N	
0.0113	M	
0.000137 U	E	
NA	PS	
NA	PA	
NA	Px	



ATMT-TMW-4		
11/20/2024		
Groundwater		
5.56 J	G	
0.342 J	D	
0.737 J	B	
0.0694 J	N	
0.0119 J	M	
0.204 J	E	
NA	PS	
NA	PA	
NA	Px	



CROSBY AVENUE

Laboratory Results in mg/L

ATMT-TMW-1		
11/20/2024		
Groundwater		
0.528 J	G	
0.383 J	D	
0.000155 J	B	
0.001 UJ	N	
0.000235 J	M	
0.000137 UJ	E	
0.00181	PS	
0.000033	PA	
0.000872	Px	

Sample Name
Sample Date
Sample Matrix
TPH-GRO (G)
TPH-DRO (D)
Benzene (B)
Naphthalene (N)
MTBE (M)
Ethylbenzene (E)
PFOS (PS)
PFOA (PA)
PFHxS (Px)

mg/L = Milligrams per Liter
* = Higher Concentration of The Duplicate and Original Sample Shown
J = Concentration is estimated
UJ = Concentration is estimated
U = not detected above the value shown
ND = Not Detected
NA = Not Analyzed

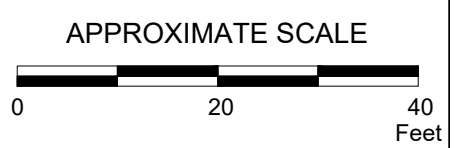
- Red symbols indicate contaminants of concern which exceed Oregon DEQ RBC for Residential or Occupational Tapwater, and/or EPA RSL or MCL.
- Blue symbols indicate contaminants of concern less than Oregon DEQ RBC for Residential or Occupational Tapwater, and/or EPA RSL or MCL.

FN 0311070002

EXPLANATION

Temporary Monitoring Well Location

Site Boundary



PRINT DATE:
February 4, 2025
PROJECT NUMBER:
22136

PROJECTION:
UTM NAD 83, Zone 11N
PROJECT MANAGER:
S. Weppner
CARTOGRAPHER:
B. Brantley

PROJECT NAME:
Phase II ESA
2450 Altamont Drive
Klamath Falls, OR

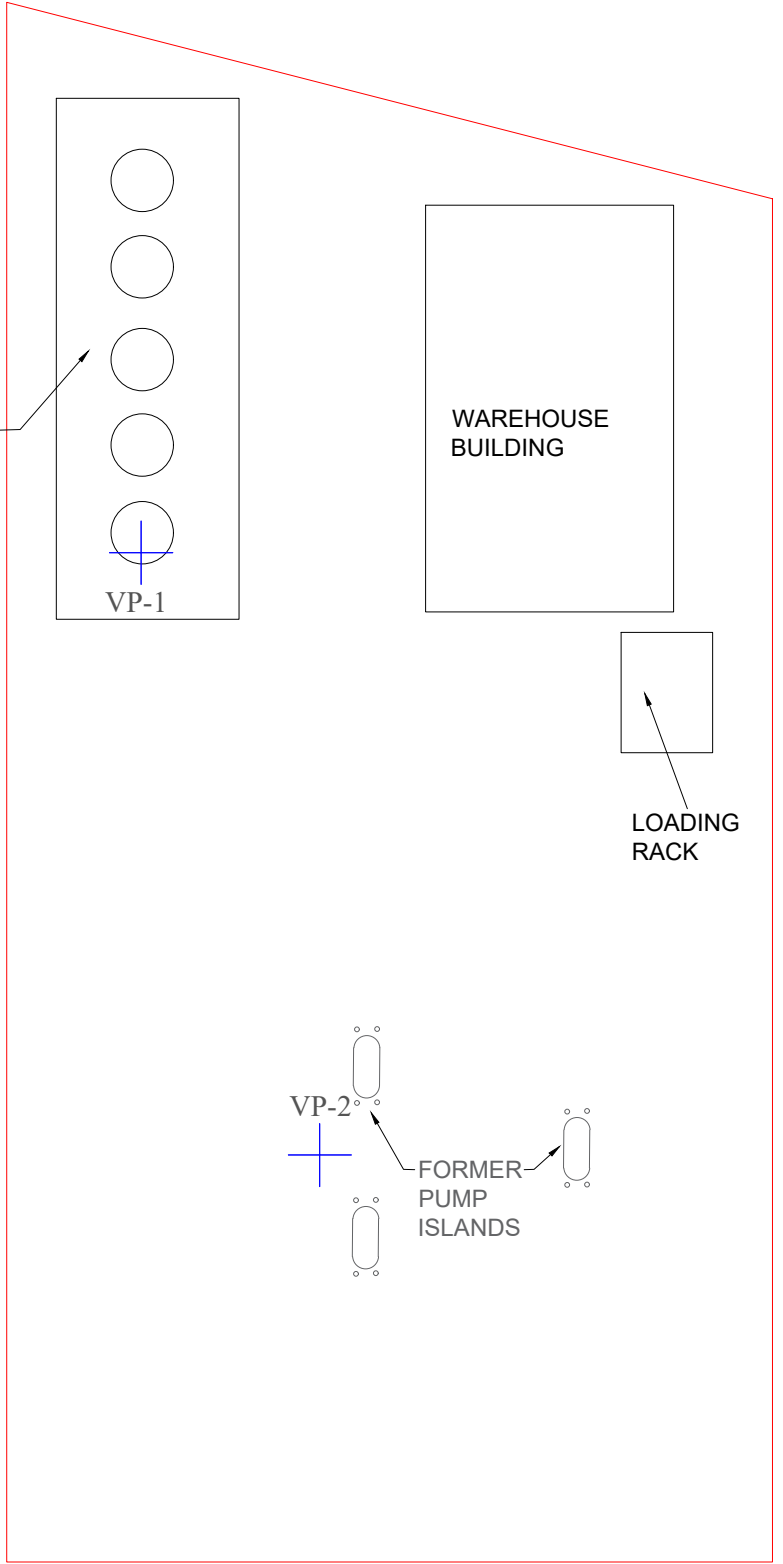
FIGURE 4
Groundwater Sample
Analysis Map

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.



ALTAMONT DRIVE

FORMER ASTs and
SECONDARY CONTAINMENT



CROSBY AVENUE

- Laboratory Results, Symbols, or Sample IDs in Red Indicate Contaminants of Concern Which Exceed Oregon DEQ Commercial Soil Vapor RBC or EPA Soil Vapor Commercial VISL
- Laboratory Results, Symbols, or Sample IDs in Blue Indicate Contaminants of Concern Less Than Oregon DEQ Commercial Soil Vapor RBC or EPA Soil Vapor Commercial VISL

FN 0311070002

EXPLANATION

+ Soil Vapor Well Location

Site Boundary

APPROXIMATE SCALE



PRINT DATE:
February 4, 2025

PROJECT NUMBER:
22136

PROJECTION:
UTM NAD 83, Zone 11N

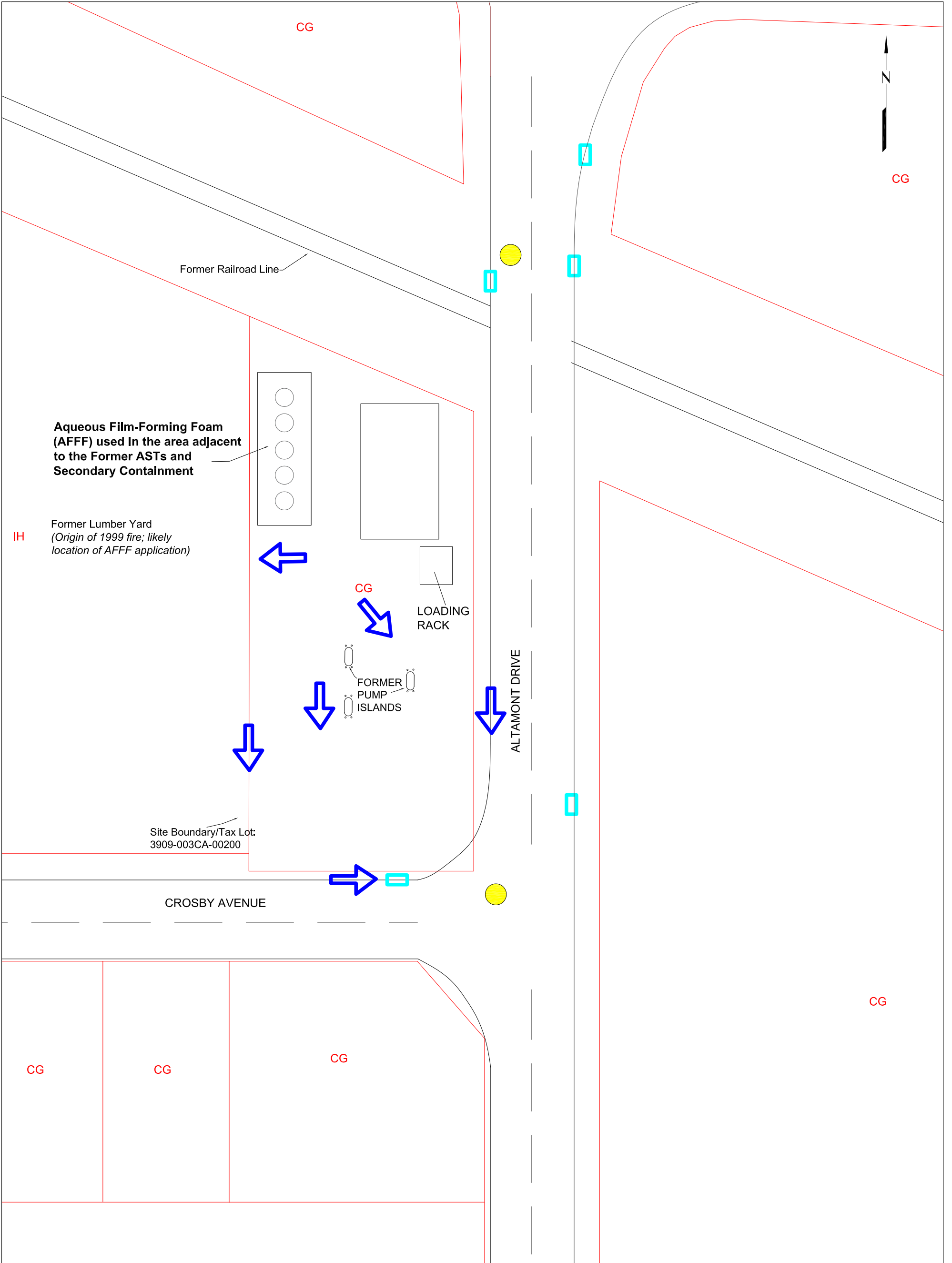
PROJECT MANAGER:
S. Weppner

CARTOGRAPHER:
B. Brantley

PROJECT NAME:
**Phase II ESA
2450 Altamont Drive
Klamath Falls, OR**





FIGURE 5
**Soil Vapor Sample
Analysis Map**

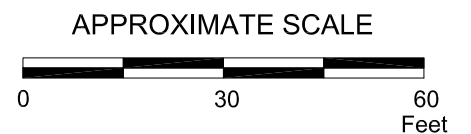
This map was produced using information obtained from several different sources that have not been independently verified. These sources have also not provided information on the precision and accuracy of the data. Information on this map is not a substitute for survey data.



FN 0311070002

EXPLANATION

-  Parcel Boundary with Zoning Designation
-  City Stormwater Drain
-  City Sewer Manhole
-  Estimated Surface Runoff Pathway
- IH = Heavy Industrial**
- CG = General Commercial**



PRINT DATE:
February 26, 2025
PROJECT NUMBER:
22136

PROJECTION:
UTM NAD 83, Zone 11N
PROJECT MANAGER:
S. Weppner
CARTOGRAPHER:
A. Ward

PROJECT NAME:
Phase II ESA
2450 Altamont Drive
Klamath Falls, OR

FIGURE 6
Site Surroundings
and Runoff 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 – Wellhead Elevation Survey

WELLHEAD ELEVATION SURVEY RESULTS

Altamont Bulk Plant
2450 Altamont Drive,
Klamath Falls, OR
November 19, 2024
Page 1 of 1

TMW-1 Elevation Survey Using Sewer Manhole Cover (100.00 feet amsl)				
TMW-1 Station 1 Elevation Survey	TMW-1 Measurement (H1) Feet	Sewer Manhole Cover (H2) Feet	ΔH Feet	ΔH + Sewer Manhole Cover Elevation Feet
	4.70	6.19	1.49	101.49
TMW-1 Station 2 Elevation Survey	TMW-1 Measurement (H1) Feet	Sewer Manhole Cover (H2) Feet	ΔH Feet	ΔH + Sewer Manhole Cover Elevation Feet
	4.59	6.08	1.49	101.49
TMW-1 Station 3 Elevation Survey	TMW-1 Measurement (H1) Feet	Sewer Manhole Cover (H2) Feet	ΔH Feet	ΔH + Sewer Manhole Cover Elevation Feet
	4.14	5.65	1.51	101.51
Station 1 through Station 3 Average Elevation (Calculated TMW-1 Elevation):				101.50

TMW-2 Elevation Survey Using Sewer Manhole Cover (100.00 feet amsl)				
TMW-2 Station 1 Elevation Survey	TMW-2 Measurement (H1) Feet	Sewer Manhole Cover (H2) Feet	ΔH Feet	ΔH + Sewer Manhole Cover Elevation Feet
	5.91	6.19	0.28	100.28
TMW-2 Station 2 Elevation Survey	TMW-2 Measurement (H1) Feet	Sewer Manhole Cover (H2) Feet	ΔH Feet	ΔH + Sewer Manhole Cover Elevation Feet
	5.81	6.08	0.27	100.27
TMW-2 Station 3 Elevation Survey	TMW-2 Measurement (H1) Feet	Sewer Manhole Cover (H2) Feet	ΔH Feet	ΔH + Sewer Manhole Cover Elevation Feet
	5.38	5.65	0.27	100.27
Station 1 through Station 3 Average Elevation (Calculated TMW-2 Elevation):				100.27

TMW-3 Elevation Survey Using Sewer Manhole Cover (100.00 feet amsl)				
TMW-3 Station 1 Elevation Survey	TMW-3 Measurement (H1) Feet	Sewer Manhole Cover (H2) Feet	ΔH Feet	ΔH + Sewer Manhole Cover Elevation Feet
	5.98	6.19	0.21	100.21
TMW-3 Station 2 Elevation Survey	TMW-3 Measurement (H1) Feet	Sewer Manhole Cover (H2) Feet	ΔH Feet	ΔH + Sewer Manhole Cover Elevation Feet
	5.85	6.08	0.23	100.23
TMW-3 Station 3 Elevation Survey	TMW-3 Measurement (H1) Feet	Sewer Manhole Cover (H2) Feet	ΔH Feet	ΔH + Sewer Manhole Cover Elevation Feet
	5.43	5.65	0.22	100.22
Station 1 through Station 3 Average Elevation (Calculated TMW-3 Elevation):				100.22

TMW-4 Elevation Survey Using Sewer Manhole Cover (100.00 feet amsl)				
TMW-4 Station 1 Elevation Survey	TMW-4 Measurement (H1) Feet	Sewer Manhole Cover (H2) Feet	ΔH Feet	ΔH + Sewer Manhole Cover Elevation Feet
	6.37	6.19	-0.18	99.82
TMW-4 Station 2 Elevation Survey	TMW-4 Measurement (H1) Feet	Sewer Manhole Cover (H2) Feet	ΔH Feet	ΔH + Sewer Manhole Cover Elevation Feet
	6.23	6.08	-0.15	99.85
TMW-4 Station 3 Elevation Survey	TMW-4 Measurement (H1) Feet	Sewer Manhole Cover (H2) Feet	ΔH Feet	ΔH + Sewer Manhole Cover Elevation Feet
	5.80	5.65	-0.15	99.85
Station 1 through Station 3 Average Elevation (Calculated TMW-4 Elevation):				99.84

TMW-5 Elevation Survey Using Sewer Manhole Cover (100.00 feet amsl)				
TMW-5 Station 1 Elevation Survey	TMW-5 Measurement (H1) Feet	Sewer Manhole Cover (H2) Feet	ΔH Feet	ΔH + Sewer Manhole Cover Elevation Feet
	6.18	6.19	0.01	100.01
TMW-5 Station 2 Elevation Survey	TMW-5 Measurement (H1) Feet	Sewer Manhole Cover (H2) Feet	ΔH Feet	ΔH + Sewer Manhole Cover Elevation Feet
	6.07	6.08	0.01	100.01
TMW-5 Station 3 Elevation Survey	TMW-5 Measurement (H1) Feet	Sewer Manhole Cover (H2) Feet	ΔH Feet	ΔH + Sewer Manhole Cover Elevation Feet
	5.64	5.65	0.01	100.01
Station 1 through Station 3 Average Elevation (Calculated TMW-5 Elevation):				100.01

TMW-6 Elevation Survey Using Sewer Manhole Cover (100.00 feet amsl)				
TMW-6 Station 1 Elevation Survey	TMW-6 Measurement (H1) Feet	Sewer Manhole Cover (H2) Feet	ΔH Feet	ΔH + Sewer Manhole Cover Elevation Feet
	5.34	6.19	0.85	100.85
TMW-6 Station 2 Elevation Survey	TMW-6 Measurement (H1) Feet	Sewer Manhole Cover (H2) Feet	ΔH Feet	ΔH + Sewer Manhole Cover Elevation Feet
	5.22	6.08	0.86	100.86
TMW-6 Station 3 Elevation Survey	TMW-6 Measurement (H1) Feet	Sewer Manhole Cover (H2) Feet	ΔH Feet	ΔH + Sewer Manhole Cover Elevation Feet
	4.79	5.65	0.86	100.86
Station 1 through Station 3 Average Elevation (Calculated TMW-6 Elevation):				100.86

Final TMW-1 Elevation 101.50 feet amsl
 Final TMW-2 Elevation 100.27 feet amsl
 Final TMW-3 Elevation 100.22 feet amsl
 Final TMW-4 Elevation 99.84 feet amsl
 Final TMW-5 Elevation 100.01 feet amsl
 Final TMW-6 Elevation 100.86 feet amsl

Appendix B – Photo Log

Photo 1



Boring location TMW-6/BH-6. (facing south)

Photo 2



Boring location TMW-5/BH-5. (facing west)

Photo 3



Boring location TMW-4/BH-4. (facing southwest)

Photo 4



Boring location TMW-3/BH-3. (facing south)



PRINT DATE:

January 23, 2025

PROJECT MANAGER:

B. Mclees

PROJECT NAME:

2450 Altamont Dr
Klamath Falls, OR

APPENDIX C, PHOTO LOG

Phase II ESA

PROJECT NUMBER:

22136

CREATED BY:

B. Brantley

Photo 5



Boring location TMW-2/BH-2. (facing south)

Photo 6



Boring location TMW-1/BH-1. (facing northwest)

Photo 7



Begin drilling at TMW-1/BH-1. (facing west)

Photo 8



Drilling at TMW-2/BH-3. (facing southeast)



PRINT DATE:

January 23, 2025

PROJECT MANAGER:

B. Mclees

PROJECT NAME:

2450 Altamont Dr
Klamath Falls, OR

APPENDIX C, PHOTO LOG

Phase II ESA

PROJECT NUMBER:

22136

CREATED BY:

B. Brantley

Photo 9



Extracting core at TMW-2/BH-2. (facing southeast)

Photo 10



Drilling at TMW-3/BH-3. (facing north)

Photo 11



Drilling at TMW-4/BH-4. (facing south)

Photo 12



Drilling at TMW-5/BH-5. (facing south)



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PROJECT NAME:

2450 Altamont Dr
Klamath Falls, OR

APPENDIX C, PHOTO LOG

Phase II ESA

PROJECT NUMBER:

22136

CREATED BY:

B. Brantley

Photo 13



Drilling at TMW-6/BH-6. (facing southwest)

Photo 14



Setting vapor pin at VP-2.

Photo 15



Finished monument at VP-2.

Photo 16



Concrete successfully set at VP-1.



PRINT DATE:

January 23, 2025

PROJECT MANAGER:

B. Mclees

PROJECT NAME:

2450 Altamont Dr
Klamath Falls, OR

APPENDIX C, PHOTO LOG

Phase II ESA

PROJECT NUMBER:
22136

CREATED BY:
B. Brantley

Photo 17



Setting up for bump test at VP-1.

Photo 18



Successful bump test at VP-1.

Photo 19



Setting up for bump test at VP-2. (facing north)

Photo 20



Successful bump test at VP-2.



PRINT DATE:

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PROJECT MANAGER:

B. Mclees

PROJECT NAME:

2450 Altamont Dr
Klamath Falls, OR

APPENDIX C, PHOTO LOG

Phase II ESA

PROJECT NUMBER:
22136

CREATED BY:
B. Brantley

Photo 21



Vapor cannister (with replicate) set up at VP-1. (facing west)

Photo 22



Vapor cannister set up at VP-1.

Photo 23



Dripline sampling along Warehouse Building. (facing north)

Photo 24



Continued dripline sampling along Warehouse Building. (facing south)



PRINT DATE:
January 23, 2025

PROJECT NUMBER:
22136

PROJECT MANAGER:
B. Mclees

CREATED BY:
B. Brantley

PROJECT NAME:
2450 Altamont Dr
Klamath Falls, OR

APPENDIX C, PHOTO LOG

Phase II ESA

Photo 25



Interior of Warehouse Building.

Photo 26



Interior of Warehouse Building.

Photo 27



Interior of Warehouse Building.

Photo 28



Interior of Warehouse Building.



PRINT DATE:

January 23, 2025

PROJECT MANAGER:

B. Mclees

PROJECT NAME:

2450 Altamont Dr
Klamath Falls, OR

APPENDIX C, PHOTO LOG

Phase II ESA

PROJECT NUMBER:

22136

CREATED BY:

B. Brantley

Photo 29



Developing temporary monitoring well.

Photo 30



Sampling at TMW-2. (facing south)

Photo 31



Groundwater sampling set up from within the van.

Photo 32



Collecting groundwater samples.



PRINT DATE:

January 23, 2025

PROJECT MANAGER:

B. Mclees

PROJECT NAME:

2450 Altamont Dr
Klamath Falls, OR

APPENDIX C, PHOTO LOG

Phase II ESA

PROJECT NUMBER:
22136

CREATED BY:
B. Brantley

Photo 33



Collecting parameter readings prior to sampling.

Photo 34



Sampling at TMW-3.

Photo 35



IDW stickered and taped, ready for collection.

Photo 36



IDW alongside southern portion of Warehouse Building. (facing west)



PRINT DATE:

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B. Mclees

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2450 Altamont Dr
Klamath Falls, OR

APPENDIX C, PHOTO LOG

Phase II ESA

PROJECT NUMBER:
22136

CREATED BY:
B. Brantley

Appendix C – Sampling Results

Table 1. Subsurface Soil Grab Sampling Results for TPHs

Sample ID	Sample Depth (feet bgs)	Sample Date	Units	TPH-GRO			TPH-DRO		
DEQ RBC - Residential - Direct Contact				1,200			1,100		
DEQ RBC - Occupational - Direct Contact				20,000			14,000		
DEQ RBC - Construction Worker - Direct Contact				9,700			4,600		
DEQ RBC - Excavation Worker - Direct Contact				>Max			>Max		
EPA RSL - Resident Soil				-			-		
EPA RSL - Composite Worker Soil				-			-		
				MDL	RL	Result	MDL	RL	Result
ATMT-BH1-SG-12**	12'	11/18/2024	mg/kg	0.848	2.5	1.71 J	1.33	4	1.33 U
ATMT-BH2-SG-10'	10'	11/18/2024	mg/kg	0.848	2.5	0.848 U	1.33	4	1.33 U
ATMT-BH3-SG-8'	8'	11/18/2024	mg/kg	0.848	2.5	0.848 U	1.33	4	1.33 U
ATMT-BH4-SG-5'	5'	11/19/2024	mg/kg	17.6	52	1,280	1.33	4	26.2
ATMT-BH4-SG-8.5'	8.5'	11/19/2024	mg/kg	0.925	2.73	4.38 J+	1.33	4	1.33 U
ATMT-BH5-SG-7.5'	7.5'	11/19/2024	mg/kg	0.848	2.5	0.848 U	1.33	4	1.33 U
ATMT-BH6-SG-4'	4'	11/19/2024	mg/kg	0.848	2.5	113	133	400	1,020
ATMT-BH6-SG-8'	8'	11/19/2024	mg/kg	0.848	2.5	0.848 U	1.33	4	1.33 U

Notes:

Samples taken less than 3 feet below ground surface (bgs) are screened against residential and occupational RBCs

Samples taken 3 or more feet below ground surface (bgs) are screened against construction and excavation worker RBCs

Bolded values exceed the lowest SL for that analyte

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 (RBC_{ss}) 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.

- = not available

MDL = method detection limit

RL = reporting limit

* = 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 2. Subsurface Soil Grab Sampling Results for VOCs

Sample ID	Sample Depth (feet bgs)	Sample Date	Units	BENZENE			TOLUENE			ETHYLBENZENE				
DEQ RBC - Residential - Direct Contact				8.2			5,800			34				
DEQ RBC - Occupational - Direct Contact				37			88,000			150				
DEQ RBC - Construction Worker - Direct Contact				380			28,000			1,700				
DEQ RBC - Excavation Worker - Direct Contact				11,000			770,000			49,000				
EPA RSL - Resident Soil				1.2			4,900			5.8				
EPA RSL - Composite Worker Soil				5.1			47,000			25				
				MDL	RL	Result		MDL	RL	Result		MDL	RL	Result
ATMT-BH1-SG-12*	12'	11/18/2024	mg/kg	0.00938	0.025	0.00938 U		0.0308	0.125	0.0308 U		0.0075	0.025	0.0075 U
ATMT-BH2-SG-10'	10'	11/18/2024	mg/kg	0.00938	0.025	0.00938 U		0.0308	0.125	0.0308 U		0.0075	0.025	0.0075 U
ATMT-BH3-SG-8'	8'	11/18/2024	mg/kg	0.00938	0.025	0.00938 U		0.0308	0.125	0.0308 U		0.0075	0.025	0.0075 U
ATMT-BH4-SG-5'	5'	11/19/2024	mg/kg	0.39	1.04	13.1		1.28	5.2	1.28 U		0.312	1.04	10
ATMT-BH4-SG-8.5'	8.5'	11/19/2024	mg/kg	0.0102	0.0273	0.0128 J		0.0336	0.137	0.0336 U		0.00819	0.0273	0.00819 U
ATMT-BH5-SG-7.5'	7.5'	11/19/2024	mg/kg	0.00938	0.025	0.00938 U		0.0308	0.125	0.0308 U		0.0075	0.025	0.0075 U
ATMT-BH6-SG-4'	4'	11/19/2024	mg/kg	0.00938	0.025	0.0516		0.0308	0.125	0.0308 U		0.0075	0.025	0.0075 U
ATMT-BH6-SG-8'	8'	11/19/2024	mg/kg	0.00938	0.025	0.0209 J		0.0308	0.125	0.0308 U		0.0075	0.025	0.0075 U

Notes:

Samples taken less than 3 feet below ground surface (bgs) are screened against residential and occupational DEQ RBCs

Samples taken 3 or more feet below ground surface (bgs) are screened against construction and excavation worker DEQ RBCs

Bolded values exceed the lowest screening level (SL) for that analyte

Underlined values exceed the next lowest SL for that analyte

Italicized 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 (RBC_{ss}) 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

- = not available

MDL = method detection limit

RL = reporting limit

* = 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 Grab Sampling Results for VOCs

Sample ID	Sample Depth (feet bgs)	Sample Date	Units	XYLENES, TOTAL				NAPHTHALENE			ISO-PROPYLBENZENE			
DEQ RBC - Residential - Direct Contact				1,400				5.3			3,500			
DEQ RBC - Occupational - Direct Contact				25,000				23			57,000			
DEQ RBC - Construction Worker - Direct Contact				20,000				580			27,000			
DEQ RBC - Excavation Worker - Direct Contact				560,000				16,000			750,000			
EPA RSL - Resident Soil				580				2			1,900			
EPA RSL - Composite Worker Soil				2,500				8.6			9,900			
				MDL	RL	Result		MDL	RL	Result		MDL	RL	Result
ATMT-BH1-SG-12*	12'	11/18/2024	mg/kg	0.0125	0.075	0.0125	U	0.125	0.125	0.125	UJ	0.0106	0.025	0.0106 U
ATMT-BH2-SG-10'	10'	11/18/2024	mg/kg	0.0125	0.075	0.0125	U	0.125	0.125	0.125	UJ	0.0106	0.025	0.0106 U
ATMT-BH3-SG-8'	8'	11/18/2024	mg/kg	0.0125	0.075	0.0125	U	0.125	0.125	0.125	UJ	0.0106	0.025	0.0106 U
ATMT-BH4-SG-5'	5'	11/19/2024	mg/kg	0.52	3.12	0.520	U	5.18	5.2	5.18	UJ	0.442	1.04	4.51
ATMT-BH4-SG-8.5'	8.5'	11/19/2024	mg/kg	0.0137	0.0819	0.0137	U	0.136	0.137	0.136	UJ	0.0116	0.0273	0.0116 U
ATMT-BH5-SG-7.5'	7.5'	11/19/2024	mg/kg	0.0125	0.075	0.0125	U	0.125	0.125	0.125	UJ	0.0106	0.025	0.0106 U
ATMT-BH6-SG-4'	4'	11/19/2024	mg/kg	0.0125	0.075	0.408		0.125	0.125	0.125	UJ	0.0106	0.025	0.0358
ATMT-BH6-SG-8'	8'	11/19/2024	mg/kg	0.0125	0.075	0.0125	U	0.125	0.125	0.125	UJ	0.0106	0.025	0.0106 U

Notes:

Samples taken less than 3 feet below ground surface (bgs) are screened against residential and occupational DEQ RBCs

Samples taken 3 or more feet below ground surface (bgs) are screened against construction and excavation worker DEQ RBCs

Bolded values exceed the lowest screening level (SL) for that analyte

Underlined values exceed the next lowest SL for that analyte

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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 (RBC_{ss}) 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

- = not available

MDL = method detection limit

RL = reporting limit

* = location of duplicate sample; higher concentration shown

U = not detected above the value shown

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J = result is an estimate

Table 2. 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			
DEQ RBC - Residential - Direct Contact				-				430				430			
DEQ RBC - Occupational - Direct Contact				-				6,900				6,900			
DEQ RBC - Construction Worker - Direct Contact				-				2,900				2,900			
DEQ RBC - Excavation Worker - Direct Contact				-				81,000				81,000			
EPA RSL - Resident Soil				3,800				300				270			
EPA RSL - Composite Worker Soil				24,000				1,800				1,500			
				MDL	RL	Result		MDL	RL	Result		MDL	RL	Result	
ATMT-BH1-SG-12*	12'	11/18/2024	mg/kg	0.00515	0.025	0.00515	U	0.00528	0.025	0.00528	U	0.00665	0.025	0.00665	U
ATMT-BH2-SG-10'	10'	11/18/2024	mg/kg	0.00515	0.025	0.00515	U	0.00528	0.025	0.00528	U	0.00665	0.025	0.00665	U
ATMT-BH3-SG-8'	8'	11/18/2024	mg/kg	0.00515	0.025	0.00515	U	0.00528	0.025	0.00528	U	0.00665	0.025	0.00665	U
ATMT-BH4-SG-5'	5'	11/19/2024	mg/kg	0.214	1.04	23.2		0.219	1.04	0.219	U	0.277	1.04	0.277	U
ATMT-BH4-SG-8.5'	8.5'	11/19/2024	mg/kg	0.00562	0.0273	0.0117	J	0.00576	0.0273	0.00576	U	0.00726	0.0273	0.00726	U
ATMT-BH5-SG-7.5'	7.5'	11/19/2024	mg/kg	0.00515	0.025	0.00515	U	0.00528	0.025	0.00528	U	0.00665	0.025	0.00665	U
ATMT-BH6-SG-4'	4'	11/19/2024	mg/kg	0.00515	0.025	0.0429		0.00528	0.025	0.0309		0.00665	0.025	0.0196	J
ATMT-BH6-SG-8'	8'	11/19/2024	mg/kg	0.00515	0.025	0.00515	U	0.00528	0.025	0.00528	U	0.00665	0.025	0.00665	U

Notes:

Samples taken less than 3 feet below ground surface (bgs) are screened against residential and occupational DEQ RBCs

Samples taken 3 or more feet below ground surface (bgs) are screened against construction and excavation worker DEQ RBCs

Bolded values exceed the lowest screening level (SL) for that analyte

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Italicized 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 (RBC_{ss}) 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

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J = result is an estimate

Table 2. 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)			
DEQ RBC - Residential - Direct Contact				250				3.6				0.16			
DEQ RBC - Occupational - Direct Contact				1,100				16				0.73			
DEQ RBC - Construction Worker - Direct Contact				12,000				200				9.0			
DEQ RBC - Excavation Worker - Direct Contact				320,000				5,600				250			
EPA RSL - Resident Soil				47				0.46				0.036			
EPA RSL - Composite Worker Soil				210				2				0.16			
				MDL	RL	Result		MDL	RL	Result		MDL	RL	Result	
ATMT-BH1-SG-12*	12'	11/18/2024	mg/kg	0.00875	0.025	0.00875	U	0.0113	0.025	0.0113	U	0.00625	0.025	0.00625	U
ATMT-BH2-SG-10'	10'	11/18/2024	mg/kg	0.00875	0.025	0.00875	U	0.0113	0.025	0.0113	U	0.00625	0.025	0.00625	U
ATMT-BH3-SG-8'	8'	11/18/2024	mg/kg	0.00875	0.025	0.00875	U	0.0113	0.025	0.0113	U	0.00625	0.025	0.00625	U
ATMT-BH4-SG-5'	5'	11/19/2024	mg/kg	0.364	1.04	0.364	U	0.468	1.04	0.468	U	0.26	1.04	0.26	U
ATMT-BH4-SG-8.5'	8.5'	11/19/2024	mg/kg	0.00956	0.0273	0.00956	U	0.0123	0.0273	0.0123	U	0.00683	0.0273	0.00683	U
ATMT-BH5-SG-7.5'	7.5'	11/19/2024	mg/kg	0.00875	0.025	0.00875	U	0.0113	0.025	0.0113	U	0.00625	0.025	0.00625	U
ATMT-BH6-SG-4'	4'	11/19/2024	mg/kg	0.00875	0.025	0.00875	U	0.0113	0.025	0.0113	U	0.00625	0.025	0.00625	U
ATMT-BH6-SG-8'	8'	11/19/2024	mg/kg	0.00875	0.025	0.00875	U	0.0113	0.025	0.0113	U	0.00625	0.025	0.00625	U

Notes:

Samples taken less than 3 feet below ground surface (bgs) are screened against residential and occupational DEQ RBCs

Samples taken 3 or more feet below ground surface (bgs) are screened against construction and excavation worker DEQ RBCs

Bolded values exceed the lowest screening level (SL) for that analyte

Underlined values exceed the next lowest SL for that analyte

Italicized 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 (RBC_{ss}) 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

- = not available

MDL = method detection limit

RL = reporting limit

* = location of duplicate sample; higher concentration shown

U = not detected above the value shown

UJ = estimated non-detect

J = result is an estimate

Table 3. Subsurface Soil Grab Sampling Results for PAHs

Sample ID	Sample Depth (feet bgs)	Sample Date	Units	ACENAPHTHENE			ANTHRACENE			BENZO[A]ANTHRACENE		
				MDL	RL	Result	MDL	RL	Result	MDL	RL	Result
DEQ RBC - Residential - Direct Contact				4,700			23,000			1.1		
DEQ RBC - Occupational - Direct Contact				70,000			350,000			2.5		
DEQ RBC - Construction Worker - Direct Contact				21,000			110,000			170		
DEQ RBC - Excavation Worker - Direct Contact				590,000			>Max			4,800		
EPA RSL - Resident Soil				3,600			18,000			1.1		
EPA RSL - Composite Worker Soil				45,000			230,000			21		
				MDL	RL	Result	MDL	RL	Result	MDL	RL	Result
ATMT-BH1-SG-12*	12'	11/18/2024	mg/kg	0.00209	0.006	0.00209 U	0.0023	0.006	0.0023 U	0.00173	0.006	0.00173 U
ATMT-BH2-SG-10'	10'	11/18/2024	mg/kg	0.00209	0.006	0.00209 U	0.0023	0.006	0.0023 U	0.00173	0.006	0.00173 U
ATMT-BH3-SG-8'	8'	11/18/2024	mg/kg	0.00209	0.006	0.00209 U	0.0023	0.006	0.0023 U	0.00173	0.006	0.00173 U
ATMT-BH4-SG-5'	5'	11/19/2024	mg/kg	0.00209	0.006	0.00397 J-	0.0023	0.006	0.0023 U	0.00173	0.006	0.00173 U
ATMT-BH4-SG-8.5'	8.5'	11/19/2024	mg/kg	0.00209	0.006	0.00209 UJ	0.0023	0.006	0.0023 U	0.00173	0.006	0.00173 U
ATMT-BH5-SG-7.5'	7.5'	11/19/2024	mg/kg	0.00209	0.006	0.00209 UJ	0.0023	0.006	0.0023 U	0.00173	0.006	0.00173 U
ATMT-BH6-SG-4'	4'	11/19/2024	mg/kg	0.00209	0.006	0.00684	0.0023	0.006	0.00478 J	0.00173	0.006	0.0062
ATMT-BH6-SG-8'	8'	11/19/2024	mg/kg	0.00209	0.006	0.00209 U	0.0023	0.006	0.0023 U	0.00173	0.006	0.00173 U

Notes:

Samples taken less than 3 feet below ground surface (bgs) are screened against residential and occupational RBCs

Samples taken 3 or more feet below ground surface (bgs) are screened against construction and excavation worker RBCs

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 (RBC_{ss}) 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.

MDL = method detection limit

RL = reporting limit

* = location of duplicate sample; higher concentration shown

U = not detected above the value shown

UJ = estimated non-detect

J = result is an estimate

J- = result is an estimate, biased low

Table 3. Subsurface Soil Grab Sampling Results for PAHs

Sample ID	Sample Depth (feet bgs)	Sample Date	Units	BENZO[A]PYRENE			BENZO[B]FLUORANTHENE			BENZO[K]FLUORANTHENE				
DEQ RBC - Residential - Direct Contact				0.11			1.1			11				
DEQ RBC - Occupational - Direct Contact				2.1			21			210				
DEQ RBC - Construction Worker - Direct Contact				17			170			1,700				
DEQ RBC - Excavation Worker - Direct Contact				490			4,900			49,000				
EPA RSL - Resident Soil				0.11			1.1			11				
EPA RSL - Composite Worker Soil				2.1			21			210				
				MDL	RL	Result		MDL	RL	Result		MDL	RL	Result
ATMT-BH1-SG-12*	12'	11/18/2024	mg/kg	0.00179	0.006	0.00179 U		0.00153	0.006	0.00153 U		0.00215	0.006	0.00215 U
ATMT-BH2-SG-10'	10'	11/18/2024	mg/kg	0.00179	0.006	0.00179 U		0.00153	0.006	0.00153 U		0.00215	0.006	0.00215 U
ATMT-BH3-SG-8'	8'	11/18/2024	mg/kg	0.00179	0.006	0.00179 U		0.00153	0.006	0.00153 U		0.00215	0.006	0.00215 U
ATMT-BH4-SG-5'	5'	11/19/2024	mg/kg	0.00179	0.006	0.00179 U		0.00153	0.006	0.00153 U		0.00215	0.006	0.00215 U
ATMT-BH4-SG-8.5'	8.5'	11/19/2024	mg/kg	0.00179	0.006	0.00179 U		0.00153	0.006	0.00153 U		0.00215	0.006	0.00215 U
ATMT-BH5-SG-7.5'	7.5'	11/19/2024	mg/kg	0.00179	0.006	0.00179 U		0.00153	0.006	0.00153 U		0.00215	0.006	0.00215 U
ATMT-BH6-SG-4'	4'	11/19/2024	mg/kg	0.0358	0.12	0.044 J		0.0306	0.12	0.0306 U		0.043	0.12	0.0430 U
ATMT-BH6-SG-8'	8'	11/19/2024	mg/kg	0.00179	0.006	0.00179 U		0.00153	0.006	0.00153 U		0.00215	0.006	0.00215 U

Notes:

Samples taken less than 3 feet below ground surface (bgs) are screened against residential and occupational RBCs

Samples taken 3 or more feet below ground surface (bgs) are screened against construction and excavation worker RBCs

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 (RBC_{ss}) 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.

MDL = method detection limit

RL = reporting limit

* = location of duplicate sample; higher concentration shown

U = not detected above the value shown

UJ = estimated non-detect

J = result is an estimate

J- = result is an estimate, biased low

Table 3. Subsurface Soil Grab Sampling Results for PAHs

Sample ID	Sample Depth (feet bgs)	Sample Date	Units	CHRYSENE			DIBENZ[A,H]ANTHRACENE			FLUORANTHENE		
				MDL	RL	Result	MDL	RL	Result	MDL	RL	Result
DEQ RBC - Residential - Direct Contact				110			0.11			2,400		
DEQ RBC - Occupational - Direct Contact				2,100			2.1			30,000		
DEQ RBC - Construction Worker - Direct Contact				17,000			17			10,000		
DEQ RBC - Excavation Worker - Direct Contact				490,000			490			280,000		
EPA RSL - Resident Soil				110			0.11			2,400		
EPA RSL - Composite Worker Soil				2,100			2.1			30,000		
				MDL	RL	Result	MDL	RL	Result	MDL	RL	Result
ATMT-BH1-SG-12*	12'	11/18/2024	mg/kg	0.00232	0.006	0.00232 U	0.00172	0.006	0.00172 U	0.00227	0.006	0.00227 U
ATMT-BH2-SG-10'	10'	11/18/2024	mg/kg	0.00232	0.006	0.00232 U	0.00172	0.006	0.00172 U	0.00227	0.006	0.00227 U
ATMT-BH3-SG-8'	8'	11/18/2024	mg/kg	0.00232	0.006	0.00232 U	0.00172	0.006	0.00172 U	0.00227	0.006	0.00227 U
ATMT-BH4-SG-5'	5'	11/19/2024	mg/kg	0.00232	0.006	0.00232 U	0.00172	0.006	0.00172 U	0.00227	0.006	0.00227 U
ATMT-BH4-SG-8.5'	8.5'	11/19/2024	mg/kg	0.00232	0.006	0.00232 U	0.00172	0.006	0.00172 U	0.00227	0.006	0.00227 U
ATMT-BH5-SG-7.5'	7.5'	11/19/2024	mg/kg	0.00232	0.006	0.00232 U	0.00172	0.006	0.00172 U	0.00227	0.006	0.00227 U
ATMT-BH6-SG-4'	4'	11/19/2024	mg/kg	0.00232	0.006	0.00232 U	0.0344	0.12	0.0344 U	0.00227	0.006	0.0381
ATMT-BH6-SG-8'	8'	11/19/2024	mg/kg	0.00232	0.006	0.00232 U	0.00172	0.006	0.00172 U	0.00227	0.006	0.00227 U

Notes:

Samples taken less than 3 feet below ground surface (bgs) are screened against residential and occupational RBCs

Samples taken 3 or more feet below ground surface (bgs) are screened against construction and excavation worker RBCs

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 (RBC_{ss}) 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.

MDL = method detection limit

RL = reporting limit

* = location of duplicate sample; higher concentration shown

U = not detected above the value shown

UJ = estimated non-detect

J = result is an estimate

J- = result is an estimate, biased low

Table 3. Subsurface Soil Grab Sampling Results for PAHs

Sample ID	Sample Depth (feet bgs)	Sample Date	Units	FLUORENE			INDENO[1,2,3-C,D]PYRENE			NAPHTHALENE		
DEQ RBC - Residential - Direct Contact				3,100			1.1			5.3		
DEQ RBC - Occupational - Direct Contact				47,000			21			23		
DEQ RBC - Construction Worker - Direct Contact				14,000			170			580		
DEQ RBC - Excavation Worker - Direct Contact				390,000			4,900			16,000		
EPA RSL - Resident Soil				2,400			1.1			2		
EPA RSL - Composite Worker Soil				30,000			21			8.6		
				MDL	RL	Result	MDL	RL	Result	MDL	RL	Result
ATMT-BH1-SG-12*	12'	11/18/2024	mg/kg	0.00205	0.006	0.00205 U	0.00181	0.006	0.00181 U	0.00408	0.02	0.00516 J
ATMT-BH2-SG-10'	10'	11/18/2024	mg/kg	0.00205	0.006	0.00205 U	0.00181	0.006	0.00181 U	0.00408	0.02	0.00408 U
ATMT-BH3-SG-8'	8'	11/18/2024	mg/kg	0.00205	0.006	0.00205 U	0.00181	0.006	0.00181 U	0.00408	0.02	0.00408 U
ATMT-BH4-SG-5'	5'	11/19/2024	mg/kg	0.00205	0.006	0.00489 J-	0.00181	0.006	0.00181 U	0.00408	0.02	0.389
ATMT-BH4-SG-8.5'	8.5'	11/19/2024	mg/kg	0.00205	0.006	0.00205 UJ	0.00181	0.006	0.00181 U	0.00408	0.02	0.00408 U
ATMT-BH5-SG-7.5'	7.5'	11/19/2024	mg/kg	0.00205	0.006	0.00205 UJ	0.00181	0.006	0.00181 U	0.00408	0.02	0.00408 U
ATMT-BH6-SG-4'	4'	11/19/2024	mg/kg	0.00205	0.006	0.0113	0.0362	0.12	0.0362 U	0.00408	0.02	0.0405
ATMT-BH6-SG-8'	8'	11/19/2024	mg/kg	0.00205	0.006	0.00205 U	0.00181	0.006	0.00181 U	0.00408	0.02	0.00408 U

Notes:

Samples taken less than 3 feet below ground surface (bgs) are screened against residential and occupational RBCs

Samples taken 3 or more feet below ground surface (bgs) are screened against construction and excavation worker RBCs

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 (RBC_{ss}) 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.

MDL = method detection limit

RL = reporting limit

* = location of duplicate sample; higher concentration shown

U = not detected above the value shown

UJ = estimated non-detect

J = result is an estimate

J- = result is an estimate, biased low

Table 3. Subsurface Soil Grab Sampling Results for PAHs

Sample ID	Sample Depth (feet bgs)	Sample Date	Units	PYRENE			
DEQ RBC - Residential - Direct Contact				1,800			
DEQ RBC - Occupational - Direct Contact				23,000			
DEQ RBC - Construction Worker - Direct Contact				7,500			
DEQ RBC - Excavation Worker - Direct Contact				210,000			
EPA RSL - Resident Soil				1,800			
EPA RSL - Composite Worker Soil				23,000			
				MDL	RL	Result	
ATMT-BH1-SG-12*	12'	11/18/2024	mg/kg	0.002	0.006	0.002	U
ATMT-BH2-SG-10'	10'	11/18/2024	mg/kg	0.002	0.006	0.002	U
ATMT-BH3-SG-8'	8'	11/18/2024	mg/kg	0.002	0.006	0.002	U
ATMT-BH4-SG-5'	5'	11/19/2024	mg/kg	0.002	0.006	0.00276	J
ATMT-BH4-SG-8.5'	8.5'	11/19/2024	mg/kg	0.002	0.006	0.002	U
ATMT-BH5-SG-7.5'	7.5'	11/19/2024	mg/kg	0.002	0.006	0.002	U
ATMT-BH6-SG-4'	4'	11/19/2024	mg/kg	0.002	0.006	0.0785	
ATMT-BH6-SG-8'	8'	11/19/2024	mg/kg	0.002	0.006	0.002	U

Notes:

Samples taken less than 3 feet below ground surface (bgs) are screened against residential and occupational RBCs

Samples taken 3 or more feet below ground surface (bgs) are screened against construction and excavation worker RBCs

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 (RBC_{ss}) 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.

MDL = method detection limit

RL = reporting limit

* = location of duplicate sample; higher concentration shown

U = not detected above the value shown

UJ = estimated non-detect

J = result is an estimate

J- = result is an estimate, biased low

Table 4. Subsurface Soil Grab Sampling Results for Lead

Sample ID	Sample Depth (feet bgs)	Sample Date	Units	LEAD		
DEQ RBC - Residential - Direct Contact				100		
DEQ RBC - Occupational - Direct Contact				530		
DEQ RBC - Construction Worker - Direct Contact				270		
DEQ RBC - Excavation Worker - Direct Contact				740		
EPA RSL - Resident Soil				200		
EPA RSL - Composite Worker Soil				800		
DEQ Background Values - Basin and Range Region				29		
				MDL	RL	Result
ATMT-BH1-SG-12 [*]	12'	11/18/2024	mg/kg	0.208	0.5	6.92
ATMT-BH2-SG-10'	10'	11/18/2024	mg/kg	0.208	0.5	6.64
ATMT-BH3-SG-8'	8'	11/18/2024	mg/kg	0.208	0.5	4.75
ATMT-BH4-SG-5'	5'	11/19/2024	mg/kg	0.208	0.5	15.4
ATMT-BH4-SG-8.5'	8.5'	11/19/2024	mg/kg	0.208	0.5	5.03
ATMT-BH5-SG-7.5'	7.5'	11/19/2024	mg/kg	0.208	0.5	3.88
ATMT-BH6-SG-4'	4'	11/19/2024	mg/kg	0.208	0.5	21.5
ATMT-BH6-SG-8'	8'	11/19/2024	mg/kg	0.208	0.5	3.45

Notes:

Samples taken less than 3 feet below ground surface (bgs) are screened against residential and occupational RBCs

Samples taken 3 or more feet below ground surface (bgs) are screened against construction and excavation worker RBCs

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 (RBC_{ss}) for Residential, Occupational, Construction Worker and Excavation Worker receptor scenarios. Pursuant to October 2024 discussion with DEQ, the lead in soil screening level for residential receptors has been revised to reflect EPA's 2024 revised residential screening levels for lead in soil as provided in <https://semsub.epa.gov/work/HQ/100003435.pdf>.

EPA RSL = EPA Regional Screening Level (EPA 2024) for the Residential Soil and Industrial Soil Pathways.

Oregon DEQ background values for Basin and Range region (DEQ 2018).

MDL = method detection limit

RL = reporting limit

* = location of duplicate sample; higher concentration shown

Table 5. Subsurface Soil Grab Sampling Results for PFAS

Sample ID	Sample Depth (feet bgs)	Sample Date	Units	PFOS			PFOA			PFBS		
DEQ RBC - Residential - Direct Contact				-	-	-	-	-	-	-	-	-
DEQ RBC - Occupational - Direct Contact				-	-	-	-	-	-	-	-	-
DEQ RBC - Construction Worker - Direct Contact				-	-	-	-	-	-	-	-	-
DEQ RBC - Excavation Worker - Direct Contact				-	-	-	-	-	-	-	-	-
EPA RSL - Resident Soil				0.0063			0.000019			19		
EPA RSL - Composite Worker Soil				0.058			0.000078			250		
				RL	Result		RL	Result		RL	Result	
ATMT-BH1-SG-1.5*	1.5'	11/18/2024	mg/kg	0.00098	0.0625	J	0.0002	0.00022		0.0002	0.00097	J
ATMT-BH1-SG-12	12'	11/18/2024	mg/kg	0.0002	ND	UJ	0.0002	ND		0.0002	ND	UJ
ATMT-BH2-SG-1.5	1.5'	11/18/2024	mg/kg	0.0002	0.0382	J	0.0002	0.00026		0.0002	0.00064	J
ATMT-BH2-SG-10	10'	11/18/2024	mg/kg	0.0002	ND	UJ	0.0002	ND		0.0002	ND	UJ
ATMT-BH3-SG-1.5	1.5	11/18/2024	mg/kg	0.0002	0.0005	J	0.0002	ND		0.0002	ND	UJ
ATMT-BH3-SG-8	8	11/18/2024	mg/kg	0.0002	ND	UJ	0.0002	ND		0.0002	ND	UJ

Notes:

Bolded values exceed the lowest SL for that analyte

Underlined values exceed the next lowest SL for that analyte

PFAS = per- and polyfluoroalkyl substances

- = not available. Oregon DEQ Risk-Based Concentrations (RBCs; DEQ 2023) are not available for PFAS analytes.

EPA RSL = EPA Regional Screening Level (EPA 2024) for the Residential Soil and Industrial Soil Pathways.

RL = reporting limit

* = location of duplicate sample; higher concentration shown

ND = not detected above the reporting limit (RL) shown

UJ = estimated non-detect

J = result is an estimate

Table 5. Subsurface Soil Grab Sampling Results for PFAS

Sample ID	Sample Depth (feet bgs)	Sample Date	Units	PFHxS			PFNA		GenX/HFPO-DA	
DEQ RBC - Residential - Direct Contact				-			-		-	
DEQ RBC - Occupational - Direct Contact				-			-		-	
DEQ RBC - Construction Worker - Direct Contact				-			-		-	
DEQ RBC - Excavation Worker - Direct Contact				-			-		-	
EPA RSL - Resident Soil				1.3			0.19		0.23	
EPA RSL - Composite Worker Soil				16			2.5		3.5	
				RL	Result		RL	Result	RL	Result
ATMT-BH1-SG-1.5*	1.5'	11/18/2024	mg/kg	0.0002	0.0049 J		0.0002	ND	0.00079	ND
ATMT-BH1-SG-12	12'	11/18/2024	mg/kg	0.0002	ND UJ		0.0002	ND	0.00079	ND
ATMT-BH2-SG-1.5	1.5'	11/18/2024	mg/kg	0.0002	0.0045 J		0.0002	ND	0.00081	ND
ATMT-BH2-SG-10	10'	11/18/2024	mg/kg	0.0002	ND UJ		0.0002	ND	0.00079	ND
ATMT-BH3-SG-1.5	1.5	11/18/2024	mg/kg	0.0002	ND UJ		0.0002	ND	0.00079	ND
ATMT-BH3-SG-8	8	11/18/2024	mg/kg	0.0002	ND UJ		0.0002	ND	0.00079	ND

Notes:

Bolded values exceed the lowest SL for that analyte

Underlined values exceed the next lowest SL for that analyte

PFAS = per- and polyfluoroalkyl substances

- = not available. Oregon DEQ Risk-Based Concentrations (RBCs; DEQ 2023) are not available for PFAS analytes.

EPA RSL = EPA Regional Screening Level (EPA 2024) for the Residential Soil and Industrial Soil Pathways.

RL = reporting limit

* = location of duplicate sample; higher concentration shown

ND = not detected above the reporting limit (RL) shown

UJ = estimated non-detect

J = result is an estimate

Table 5. Subsurface Soil Grab Sampling Results for PFAS

Sample ID	Sample Depth (feet bgs)	Sample Date	Units	PFBA		PFHxA			PFTeDA	
DEQ RBC - Residential - Direct Contact				-	-	-	-	-	-	-
DEQ RBC - Occupational - Direct Contact				-	-	-	-	-	-	-
DEQ RBC - Construction Worker - Direct Contact				-	-	-	-	-	-	-
DEQ RBC - Excavation Worker - Direct Contact				-	-	-	-	-	-	-
EPA RSL - Resident Soil				78		32			63	
EPA RSL - Composite Worker Soil				1,200		410			820	
				RL	Result	RL	Result		RL	Result
ATMT-BH1-SG-1.5*	1.5'	11/18/2024	mg/kg	0.00079	ND	0.0002	0.00064	J	0.0002	ND
ATMT-BH1-SG-12	12'	11/18/2024	mg/kg	0.00079	ND	0.0002	ND	UJ	0.0002	ND
ATMT-BH2-SG-1.5	1.5'	11/18/2024	mg/kg	0.00081	ND	0.0002	0.00043	J	0.0002	ND
ATMT-BH2-SG-10	10'	11/18/2024	mg/kg	0.00079	ND	0.0002	ND	UJ	0.0002	ND
ATMT-BH3-SG-1.5	1.5	11/18/2024	mg/kg	0.00079	ND	0.0002	ND	UJ	0.0002	ND
ATMT-BH3-SG-8	8	11/18/2024	mg/kg	0.00079	ND	0.0002	ND	UJ	0.0002	ND

Notes:

Bolded values exceed the lowest SL for that analyte

Underlined values exceed the next lowest SL for that analyte

PFAS = per- and polyfluoroalkyl substances

- = not available. Oregon DEQ Risk-Based Concentrations (RBCs; DEQ 2023) are not available for PFAS analytes.

EPA RSL = EPA Regional Screening Level (EPA 2024) for the Residential Soil and Industrial Soil Pathways.

RL = reporting limit

* = location of duplicate sample; higher concentration shown

ND = not detected above the reporting limit (RL) shown

UJ = estimated non-detect

J = result is an estimate

Table 6. Dripline Soil Composite Sampling Results for Lead

Sample ID	Sample Date	Units	LEAD		
DEQ RBC - Residential - Direct Contact			100		
DEQ RBC - Occupational - Direct Contact			530		
DEQ RBC - Construction Worker - Direct Contact			270		
DEQ RBC - Excavation Worker - Direct Contact			740		
EPA RSL - Resident Soil			200		
EPA RSL - Composite Worker Soil			800		
DEQ Background Values - Basin and Range Region			29		
			MDL	RL	Result
ATMT-WB1-NS-C-0"-6"	11/18/2024	mg/kg	0.208	0.5	199 J
ATMT-WB1-SS-C-0"-6"*	11/18/2024	mg/kg	0.208	0.5	234 J
ATMT-WB1-ES-1-C-0"-6"	11/18/2024	mg/kg	0.208	0.5	216 J
ATMT-WB1-ES-2-C-0"-6"	11/18/2024	mg/kg	0.208	0.5	153 J
ATMT-WB1-WS-1-C-0"-6"	11/18/2024	mg/kg	0.208	0.5	64.1 J
ATMT-WB1-WS-2-C-0"-6"	11/18/2024	mg/kg	0.208	0.5	48.8 J

Notes:

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 Soil Ingestion, Dermal Contact, and Inhalation (RBC_{ss}) for Residential, Occupational, Construction Worker and Excavation Worker receptor scenarios. Pursuant to October 2024 discussion with DEQ, the lead in soil screening level for residential receptors has been revised to reflect EPA's 2024 revised residential screening levels for lead in soil as provided in <https://semspub.epa.gov/work/HQ/100003435.pdf>.

EPA RSL = EPA Regional Screening Level (EPA 2024a) for the Residential Soil and Industrial Soil Pathways.

Oregon DEQ background values for Basin and Range region (DEQ 2018).

MDL = method detection limit

RL = reporting limit

* = location of duplicate sample; higher concentration shown

J = result is an estimate

Table 7. Groundwater Sampling Results for TPHs

Sample ID	Sample Date	Units	TPH-GRO				TPH-DRO			
DEQ RBC - GW in Excavation - Direct Contact			14				>S			
DEQ RBC - GW Residential Tapwater - Direct Contact			0.11				0.1			
DEQ RBC - GW Occupational Tapwater - Direct Contact			0.45				0.43			
EPA MCL or RSL			-				-			
			MDL	RL	Result		MDL	RL	Result	
ATMT-TMW-1	11/20/2024	mg/L	0.158	0.5	0.528	J	0.0667	0.2	0.383	J
ATMT-TMW-2*	11/20/2024	mg/L	0.0316	0.1	0.0843	J	0.0667	0.2	0.0667	UJ
ATMT-TMW-3	11/20/2024	mg/L	0.0316	0.1	0.0579	J	0.0667	0.2	0.0667	UJ
ATMT-TMW-4	11/20/2024	mg/L	0.0316	0.1	5.56	J	0.0667	0.2	0.342	J
ATMT-TMW-5	11/20/2024	mg/L	0.0316	0.1	0.0316	UJ	0.0667	0.2	0.0667	U
ATMT-TMW-6	11/20/2024	mg/L	0.0316	0.1	0.100	U	0.0667	0.2	0.0667	U

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). DS means it is a direct contact pathway with a limiting value equal to the solubility, S.

>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, if available.

- = not available

* = location of duplicate sample, higher concentration shown

U = not detected above the value shown

UJ = estimated non-detect

J = result is an estimate

Bolded values exceed the lowest SL for that analyte

Table 8. Groundwater Sampling Results for VOCs

Sample ID	Sample Date	Units	BENZENE				TOLUENE				ETHYLBENZENE		
DEQ RBC - GW in Excavation - Direct Contact			1.8				220				4.5		
DEQ RBC - GW Residential Tapwater - Direct Contact			0.00046				1.1				0.0015		
DEQ RBC - GW Occupational Tapwater - Direct Contact			0.0021				6.30				0.0064		
EPA MCL or RSL			0.005 MCL				1 MCL				0.7 MCL		
			MDL	RL	Result		MDL	RL	Result		MDL	RL	Result
ATMT-TMW-1	11/20/2024	mg/L	0.0000941	0.001	0.000155 J		0.000278	0.001	0.000278 UJ		0.000137	0.001	0.000137 UJ
ATMT-TMW-2*	11/20/2024	mg/L	0.0000941	0.001	0.0000941 UJ		0.000278	0.001	0.000278 UJ		0.000137	0.001	0.000137 UJ
ATMT-TMW-3	11/20/2024	mg/L	0.0000941	0.001	0.0000941 UJ		0.000278	0.001	0.000278 UJ		0.000137	0.001	0.000137 UJ
ATMT-TMW-4	11/20/2024	mg/L	0.00188	0.02	0.737 J		0.000278	0.001	0.00279 J		0.00274	0.02	0.204 J
ATMT-TMW-5	11/20/2024	mg/L	0.0000941	0.001	0.0000941 U		0.000278	0.001	0.000278 U		0.000137	0.001	0.000137 U
ATMT-TMW-6	11/20/2024	mg/L	0.0000941	0.001	0.000184 J		0.000278	0.001	0.000278 U		0.000137	0.001	0.000137 U

Notes:

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

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

VOC = volatile organic compound

Oregon DEQ Risk-Based Concentrations (RBCs) obtained from table of Risk-Based Concentrations for Individual Chemicals (DEQ 2023). DS means it is a direct contact pathway with a limiting value equal to the solubility, S.

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.

- = not available

* = location of duplicate sample, higher concentration shown

U = not detected above the value shown

UJ = estimated non-detect

J = result is an estimate

Table 8. Groundwater Sampling Results for VOCs

Sample ID	Sample Date	Units	XYLENES, TOTAL				NAPHTHALENE				ISO-PROPYLBENZENE			
DEQ RBC - GW in Excavation - Direct Contact			23				0.5				51			
DEQ RBC - GW Residential Tapwater - Direct Contact			0.19				0.00017				0.44			
DEQ RBC - GW Occupational Tapwater - Direct Contact			0.83				0.00072				2			
EPA MCL or RSL			10 MCL				0.00012 RSL				0.45 RSL			
			MDL	RL	Result		MDL	RL	Result		MDL	RL	Result	
ATMT-TMW-1	11/20/2024	mg/L	0.000174	0.003	0.000174	UJ	0.001	0.005	0.001	UJ	0.000105	0.001	0.00299	J
ATMT-TMW-2*	11/20/2024	mg/L	0.000174	0.003	0.000174	UJ	0.001	0.005	0.001	UJ	0.000105	0.001	0.000105	UJ
ATMT-TMW-3	11/20/2024	mg/L	0.000174	0.003	0.000174	UJ	0.001	0.005	0.001	UJ	0.000105	0.001	0.000105	UJ
ATMT-TMW-4	11/20/2024	mg/L	0.000174	0.003	0.00485	J	0.001	0.005	0.0694	J	0.000105	0.001	0.0235	J
ATMT-TMW-5	11/20/2024	mg/L	0.000174	0.003	0.000174	U	0.001	0.005	0.001	UJ	0.000105	0.001	0.000105	U
ATMT-TMW-6	11/20/2024	mg/L	0.000174	0.003	0.000233	J	0.001	0.005	0.001	UJ	0.000105	0.001	0.000105	U

Notes:

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Underlined values exceed the next lowest SL for that analyte

Italicized values exceed the next lowest SL for that analyte

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

VOC = volatile organic compound

Oregon DEQ Risk-Based Concentrations (RBCs) obtained from table of Risk-Based Concentrations for Individual Chemicals (DEQ 2023). DS means it is a direct contact pathway with a limiting value equal to the solubility, S.

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.

- = not available

* = location of duplicate sample, higher concentration shown

U = not detected above the value shown

UJ = estimated non-detect

J = result is an estimate

Table 8. Groundwater Sampling Results for VOCs

Sample ID	Sample Date	Units	N-PROPYLBENZENE				1,2,4-TRIMETHYLBENZENE				1,3,5-TRIMETHYLBENZENE			
DEQ RBC - GW in Excavation - Direct Contact			-				6.3				7.5			
DEQ RBC - GW Residential Tapwater - Direct Contact			-				0.054				0.059			
DEQ RBC - GW Occupational Tapwater - Direct Contact			-				0.25				0.28			
EPA MCL or RSL			0.66 RSL				0.056 RSL				0.06 RSL			
			MDL	RL	Result		MDL	RL	Result		MDL	RL	Result	
ATMT-TMW-1	11/20/2024	mg/L	0.0000993	0.001	0.00851	J	0.000322	0.001	0.000322	UJ	0.000104	0.001	0.000104	UJ
ATMT-TMW-2*	11/20/2024	mg/L	0.0000993	0.001	0.0000993	UJ	0.000322	0.001	0.000322	UJ	0.000104	0.001	0.000104	UJ
ATMT-TMW-3	11/20/2024	mg/L	0.0000993	0.001	0.0000993	UJ	0.000322	0.001	0.000322	UJ	0.000104	0.001	0.000104	UJ
ATMT-TMW-4	11/20/2024	mg/L	0.0000993	0.001	0.0874	J	0.000322	0.001	0.000951	J	0.000104	0.001	0.000933	J
ATMT-TMW-5	11/20/2024	mg/L	0.0000993	0.001	0.0000993	U	0.000322	0.001	0.000322	U	0.000104	0.001	0.000104	U
ATMT-TMW-6	11/20/2024	mg/L	0.0000993	0.001	0.0000993	U	0.000322	0.001	0.000322	U	0.000104	0.001	0.000104	U

Notes:

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

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

VOC = volatile organic compound

Oregon DEQ Risk-Based Concentrations (RBCs) obtained from table of Risk-Based Concentrations for Individual Chemicals (DEQ 2023).

DS means it is a direct contact pathway with a limiting value equal to the solubility, S.

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.

- = not available

* = location of duplicate sample, higher concentration shown

U = not detected above the value shown

UJ = estimated non-detect

J = result is an estimate

Table 8. Groundwater Sampling Results for VOCs

Sample ID	Sample Date	Units	MTBE (methyl tert-butyl ether)				EDC (1,2-dichloroethane)			EDB (ethylene dibromide)				
DEQ RBC - GW in Excavation - Direct Contact			63				0.63			0.027				
DEQ RBC - GW Residential Tapwater - Direct Contact			0.014				0.00017			0.0000075				
DEQ RBC - GW Occupational Tapwater - Direct Contact			0.068				0.00078			0.000034				
EPA MCL or RSL			0.014 RSL				0.005 MCL			0.00005 MCL				
			MDL	RL	Result		MDL	RL	Result	MDL	RL	Result		
ATMT-TMW-1	11/20/2024	mg/L	0.000101	0.001	0.000235	J	0.0000819	0.001	0.0000819	UJ	0.000126	0.001	0.000126	UJ
ATMT-TMW-2*	11/20/2024	mg/L	0.000101	0.001	0.000101	UJ	0.0000819	0.001	0.0000819	UJ	0.000126	0.001	0.000126	UJ
ATMT-TMW-3	11/20/2024	mg/L	0.000101	0.001	0.0268	J	0.0000819	0.001	0.0000819	UJ	0.000126	0.001	0.000126	UJ
ATMT-TMW-4	11/20/2024	mg/L	0.000101	0.001	0.0119	J	0.0000819	0.001	0.0000819	UJ	0.000126	0.001	0.000126	UJ
ATMT-TMW-5	11/20/2024	mg/L	0.000101	0.001	0.0113		0.0000819	0.001	0.0000819	U	0.000126	0.001	0.000126	U
ATMT-TMW-6	11/20/2024	mg/L	0.000101	0.001	0.012		0.0000819	0.001	0.0000819	U	0.000126	0.001	0.000126	U

Notes:

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

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

VOC = volatile organic compound

Oregon DEQ Risk-Based Concentrations (RBCs) obtained from table of Risk-Based Concentrations for Individual Chemicals (DEQ 2023). DS means it is a direct contact pathway with a limiting value equal to the solubility, S.

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.

- = not available

* = location of duplicate sample, higher concentration shown

U = not detected above the value shown

UJ = estimated non-detect

J = result is an estimate

Table 9. Groundwater Sampling Results for PAHs

Sample ID	Sample Date	Units	ACENAPHTHENE			ANTHRACENE			BENZO[A]ANTHRACENE		
DEQ RBC - GW in Excavation - Direct Contact			>S			>S			>S		
DEQ RBC - GW Residential Tapwater - Direct Contact			0.51			>S			0.00003		
DEQ RBC - GW Occupational Tapwater - Direct Contact			2.5			>S			0.00038		
EPA MCL or RSL			0.53 RSL			1.8 RSL			0.00003 RSL		
			MDL	RL	Result	MDL	RL	Result	MDL	RL	Result
ATMT-TMW-1	11/20/2024	mg/L	0.000019	0.00005	0.000019 UJ	0.000019	0.00005	0.000019 UJ	0.0000203	0.00005	0.0000221 J
ATMT-TMW-2*	11/20/2024	mg/L	0.000019	0.00005	0.000019 UJ	0.000019	0.00005	0.000019 UJ	0.0000203	0.00005	0.0000203 UJ
ATMT-TMW-3	11/20/2024	mg/L	0.000019	0.00005	0.000019 UJ	0.000019	0.00005	0.000019 UJ	0.0000203	0.00005	0.0000203 UJ
ATMT-TMW-4	11/20/2024	mg/L	0.000019	0.00005	0.000159 J	0.000019	0.00005	0.000019 UJ	0.0000203	0.00005	0.0000203 UJ
ATMT-TMW-5	11/20/2024	mg/L	0.000019	0.00005	0.000019 U	0.000019	0.00005	0.000019 U	0.0000203	0.00005	0.0000203 U
ATMT-TMW-6	11/20/2024	mg/L	0.000019	0.00005	0.000019 U	0.000019	0.00005	0.000019 U	0.0000203	0.00005	0.0000203 U

Notes:

PAH = polycyclic aromatic hydrocarbon

Oregon DEQ Risk-Based Concentrations (RBCs) obtained from table of Risk-Based Concentrations for Individual Chemicals (DEQ 2023). DS means it is a direct contact pathway with a limiting value equal to the solubility, S.

>S = This groundwater RBC exceeds the solubility limit. Groundwater 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 9. Groundwater Sampling Results for PAHs

Sample ID	Sample Date	Units	BENZO[A]PYRENE				BENZO[B]FLUORANTHENE				BENZO[K]FLUORANTHENE			
DEQ RBC - GW in Excavation - Direct Contact			>S				>S				>S			
DEQ RBC - GW Residential Tapwater - Direct Contact			0.000025				0.00025				>S			
DEQ RBC - GW Occupational Tapwater - Direct Contact			0.00047				>S				>S			
EPA MCL or RSL			0.0002 MCL				0.00025 RSL				0.0025 RSL			
			MDL	RL	Result		MDL	RL	Result		MDL	RL	Result	
ATMT-TMW-1	11/20/2024	mg/L	0.0000184	0.00005	0.0000184	UJ	0.0000168	0.00005	0.0000168	UJ	0.0000202	0.00005	0.0000202	UJ
ATMT-TMW-2*	11/20/2024	mg/L	0.0000184	0.00005	0.0000184	UJ	0.0000168	0.00005	0.0000168	UJ	0.0000202	0.00005	0.0000202	UJ
ATMT-TMW-3	11/20/2024	mg/L	0.0000184	0.00005	0.0000184	UJ	0.0000168	0.00005	0.0000168	UJ	0.0000202	0.00005	0.0000202	UJ
ATMT-TMW-4	11/20/2024	mg/L	0.0000184	0.00005	0.0000184	UJ	0.0000168	0.00005	0.0000168	UJ	0.0000202	0.00005	0.0000202	UJ
ATMT-TMW-5	11/20/2024	mg/L	0.0000184	0.00005	0.0000184	U	0.0000168	0.00005	0.0000168	U	0.0000202	0.00005	0.0000202	U
ATMT-TMW-6	11/20/2024	mg/L	0.0000184	0.00005	0.0000184	U	0.0000168	0.00005	0.0000168	U	0.0000202	0.00005	0.0000202	U

Notes:

PAH = polycyclic aromatic hydrocarbon

Oregon DEQ Risk-Based Concentrations (RBCs) obtained from table of Risk-Based Concentrations for Individual Chemicals (DEQ 2023). DS means it is a direct contact pathway with a limiting value equal to the solubility, S.

>S = This groundwater RBC exceeds the solubility limit. Groundwater 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 9. Groundwater Sampling Results for PAHs

Sample ID	Sample Date	Units	CHRYSENE				DIBENZ[A,H]ANTHRACENE				FLUORANTHENE			
DEQ RBC - GW in Excavation - Direct Contact			>S				>S				>S			
DEQ RBC - GW Residential Tapwater - Direct Contact			>S				0.000025				>S			
DEQ RBC - GW Occupational Tapwater - Direct Contact			>S				0.00047				>S			
EPA MCL or RSL			0.025 RSL				0.00003 RSL				0.8 RSL			
			MDL	RL	Result		MDL	RL	Result		MDL	RL	Result	
ATMT-TMW-1	11/20/2024	mg/L	0.0000179	0.00005	0.0000179	UJ	0.000016	0.00005	0.000016	UJ	0.000027	0.0001	0.000027	UJ
ATMT-TMW-2*	11/20/2024	mg/L	0.0000179	0.00005	0.0000179	UJ	0.000016	0.00005	0.000016	UJ	0.000027	0.0001	0.000027	UJ
ATMT-TMW-3	11/20/2024	mg/L	0.0000179	0.00005	0.0000179	UJ	0.000016	0.00005	0.000016	UJ	0.000027	0.0001	0.000027	UJ
ATMT-TMW-4	11/20/2024	mg/L	0.0000179	0.00005	0.0000179	UJ	0.000016	0.00005	0.000016	UJ	0.000027	0.0001	0.000027	UJ
ATMT-TMW-5	11/20/2024	mg/L	0.0000179	0.00005	0.0000179	U	0.000016	0.00005	0.000016	U	0.000027	0.0001	0.000027	U
ATMT-TMW-6	11/20/2024	mg/L	0.0000179	0.00005	0.0000179	U	0.000016	0.00005	0.000016	U	0.000027	0.0001	0.000027	U

Notes:

PAH = polycyclic aromatic hydrocarbon

Oregon DEQ Risk-Based Concentrations (RBCs) obtained from table of Risk-Based Concentrations for Individual Chemicals (DEQ 2023). DS means it is a direct contact pathway with a limiting value equal to the solubility, S.

>S = This groundwater RBC exceeds the solubility limit. Groundwater 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 9. Groundwater Sampling Results for PAHs

Sample ID	Sample Date	Units	FLUORENE				INDENO[1,2,3-C,D]PYRENE				NAPHTHALENE			
DEQ RBC - GW in Excavation - Direct Contact			>S				>S				0.5			
DEQ RBC - GW Residential Tapwater - Direct Contact			0.28				>S				0.00017			
DEQ RBC - GW Occupational Tapwater - Direct Contact			1.3				>S				0.00072			
EPA MCL or RSL			0.29 RSL				0.00025 RSL				0.00012 RSL			
			MDL	RL	Result		MDL	RL	Result	MDL	RL	Result		
ATMT-TMW-1	11/20/2024	mg/L	0.0000169	0.00005	0.0000169	UJ	0.0000158	0.00005	0.0000158	UJ	0.0000917	0.00025	0.0000917	UJ
ATMT-TMW-2*	11/20/2024	mg/L	0.0000169	0.00005	0.0000169	UJ	0.0000158	0.00005	0.0000158	UJ	0.0000917	0.00025	0.0000917	UJ
ATMT-TMW-3	11/20/2024	mg/L	0.0000169	0.00005	0.0000169	UJ	0.0000158	0.00005	0.0000158	UJ	0.0000917	0.00025	0.0000917	UJ
ATMT-TMW-4	11/20/2024	mg/L	0.0000169	0.00005	0.000128	J	0.0000158	0.00005	0.0000158	UJ	0.0000917	0.00025	0.0000917	UJ
ATMT-TMW-5	11/20/2024	mg/L	0.0000169	0.00005	0.0000169	U	0.0000158	0.00005	0.0000158	U	0.0000917	0.00025	0.0000917	U
ATMT-TMW-6	11/20/2024	mg/L	0.0000169	0.00005	0.0000169	U	0.0000158	0.00005	0.0000158	U	0.0000917	0.00025	0.0000917	U

Notes:

PAH = polycyclic aromatic hydrocarbon

Oregon DEQ Risk-Based Concentrations (RBCs) obtained from table of Risk-Based Concentrations for Individual Chemicals (DEQ 2023). DS means it is a direct contact pathway with a limiting value equal to the solubility, S.

>S = This groundwater RBC exceeds the solubility limit. Groundwater 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 9. Groundwater Sampling Results for PAHs

Sample ID	Sample Date	Units	PYRENE			
DEQ RBC - GW in Excavation - Direct Contact			>S			
DEQ RBC - GW Residential Tapwater - Direct Contact			0.11 >S			
DEQ RBC - GW Occupational Tapwater - Direct Contact			>S			
EPA MCL or RSL			0.12 RSL			
			MDL	RL	Result	
ATMT-TMW-1	11/20/2024	mg/L	0.0000169	0.00005	0.0000204	J
ATMT-TMW-2*	11/20/2024	mg/L	0.0000169	0.00005	0.0000169	UJ
ATMT-TMW-3	11/20/2024	mg/L	0.0000169	0.00005	0.0000169	UJ
ATMT-TMW-4	11/20/2024	mg/L	0.0000169	0.00005	0.0000234	J
ATMT-TMW-5	11/20/2024	mg/L	0.0000169	0.00005	0.0000169	U
ATMT-TMW-6	11/20/2024	mg/L	0.0000169	0.00005	0.0000169	U

Notes:

PAH = polycyclic aromatic hydrocarbon

Oregon DEQ Risk-Based Concentrations (RBCs) obtained from table of Risk-Based Concentrations for Individual Chemicals (DEQ 2023). DS means it is a direct contact pathway with a limiting value equal to the solubility, S.

>S = This groundwater RBC exceeds the solubility limit. Groundwater 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 10. Groundwater Sampling Results for Metals

Sample ID	Sample Date	Units	LEAD			
			MDL	RL	Result	
DEQ RBC - GW in Excavation - Direct Contact			>S			
DEQ RBC - GW Residential Tapwater - Direct Contact			0.015 L			
DEQ RBC - GW Occupational Tapwater - Direct Contact			0.015 L			
EPA MCL or RSL			0.010 MCL			
			MDL	RL	Result	
ATMT-TMW-1	11/20/2024	mg/L	0.00299	0.006	0.00320	J
ATMT-TMW-2*	11/20/2024	mg/L	0.00299	0.006	0.00308	J
ATMT-TMW-3	11/20/2024	mg/L	0.00299	0.006	0.00299	U
ATMT-TMW-4	11/20/2024	mg/L	0.00299	0.006	0.00604	
ATMT-TMW-5	11/20/2024	mg/L	0.00299	0.006	0.00299	U
ATMT-TMW-6	11/20/2024	mg/L	0.00299	0.006	0.00299	U

Notes:

Oregon DEQ Risk-Based Concentrations (RBCs) obtained from table of Risk-Based Concentrations for Individual Chemicals (DEQ 2023). DS means it is a direct contact pathway with a limiting value equal to the solubility, S.

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

L = The values for lead reported in the table of Risk-Based Concentrations were adapted from EPA Guidance. The lead level established in the National Primary Drinking Water Regulations is set at 15 µg/L (DEQ 2023).

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

Table 11. Groundwater Sampling Results for PFAS

Sample ID	Sample Date	Units	PFOS			PFOA		PFBS	
DEQ RBC - GW in Excavation - Direct Contact			-			-		-	
DEQ RBC - GW Residential Tapwater - Direct Contact			-			-		-	
DEQ RBC - GW Occupational Tapwater - Direct Contact			-			-		-	
EPA MCL or RSL			0.000004 MCL			0.000004 MCL		0.006 RSL	
			RL	Result		RL	Result	RL	Result
ATMT-TMW-1	11/20/2024	mg/L	0.0000052	0.00181 J		0.0000052	0.000033	0.0000052	0.0000451
ATMT-TMW-2*	11/20/2024	mg/L	0.0000108	0.00280 J		0.0000011	0.000009	0.0000011	0.000012
ATMT-TMW-3	11/20/2024	mg/L	0.000001	0.00000150 J		0.000001	ND	0.000001	ND

Notes:

Bolded values exceed the lowest SL for that analyte

PFAS = per- and polyfluoroalkyl substances

Oregon DEQ Risk-Based Concentrations (RBCs) obtained from table of Risk-Based Concentrations for Individual Chemicals (DEQ 2023). DS means it is a direct contact pathway with a limiting value equal to the solubility, S.

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.

- = not available

* = location of duplicate sample, higher concentration shown

ND = not detected above the reporting limit (RL) shown

UJ = estimated non-detect

J = result is an estimate

Table 11. Groundwater Sampling Results for PFAS

Sample ID	Sample Date	Units	PFHxS			PFNA		GenX/HFPO-DA	
DEQ RBC - GW in Excavation - Direct Contact			-			-		-	
DEQ RBC - GW Residential Tapwater - Direct Contact			-			-		-	
DEQ RBC - GW Occupational Tapwater - Direct Contact			-			-		-	
EPA MCL or RSL			0.00001 MCL			0.00001 MCL		0.00001 MCL	
			RL	Result		RL	Result	RL	Result
ATMT-TMW-1	11/20/2024	mg/L	0.0000052	0.000872	J	0.0000052	0.0000058	0.0000208	ND
ATMT-TMW-2*	11/20/2024	mg/L	0.0000011	0.000266	J	0.0000011	0.0000048	0.0000043	ND
ATMT-TMW-3	11/20/2024	mg/L	0.000001	ND	UJ	0.000001	ND	0.0000041	ND

Notes:

Bolded values exceed the lowest SL for that analyte

PFAS = per- and polyfluoroalkyl substances

Oregon DEQ Risk-Based Concentrations (RBCs) obtained from table of Risk-Based Concentrations for Individual Chemicals (DEQ 2023). DS means it is a direct contact pathway with a limiting value equal to the solubility, S.

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.

- = not available

* = location of duplicate sample, higher concentration shown

ND = not detected above the reporting limit (RL) shown

UJ = estimated non-detect

J = result is an estimate

Table 11. Groundwater Sampling Results for PFAS

Sample ID	Sample Date	Units	PFBA		PFHxA		PFTeDA	
DEQ RBC - GW in Excavation - Direct Contact			-		-		-	
DEQ RBC - GW Residential Tapwater - Direct Contact			-		-		-	
DEQ RBC - GW Occupational Tapwater - Direct Contact			-		-		-	
EPA MCL or RSL			0.018 RSL		0.0099 RSL		0.02 RSL	
			RL	Result	RL	Result	RL	Result
ATMT-TMW-1	11/20/2024	mg/L	0.0000208	ND	0.0000052	0.0000426	0.0000052	ND
ATMT-TMW-2*	11/20/2024	mg/L	0.0000043	0.000005	0.0000011	0.0000107	0.0000011	ND
ATMT-TMW-3	11/20/2024	mg/L	0.0000041	ND	0.000001	ND	0.000001	ND

Notes:

Bolded values exceed the lowest SL for that analyte

PFAS = per- and polyfluoroalkyl substances

Oregon DEQ Risk-Based Concentrations (RBCs) obtained from table of Risk-Based Concentrations for Individual Chemicals (DEQ 2023). DS means it is a direct contact pathway with a limiting value equal to the solubility, S.

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.

- = not available

* = location of duplicate sample, higher concentration shown

ND = not detected above the reporting limit (RL) shown

UJ = estimated non-detect

J = result is an estimate

Table 12. Soil Vapor Sampling Results for VOCs

Sample ID	Sample Date	Units	BENZENE				TOLUENE			ETHYLBENZENE				
DEQ Commercial Soil Vapor RBC			52.0				730,000			160				
EPA Soil Vapor Commercial VISL			1.57				21,900			4.91				
			MDL	RL	Result		MDL	RL	Result	MDL	RL	Result		
ATMT-VP-1*	11/20/2024	µg/m ³	0.068	0.89	0.48	J	0.58	5.2	0.58	U	0.061	1.2	1.2	U
ATMT-VP-2	11/20/2024	µg/m ³	0.064	0.84	0.70	J	0.54	4.9	1.1	J	0.057	1.1	1.1	U

Notes:

µg/m³ = micrograms per cubic meter

VOCs = volatile organic compounds

DEQ RBC = Oregon DEQ Risk-Based Concentration for Commercial Vapor Intrusion (RBC_{sv}) (DEQ 2024).

US Environmental Protection Agency (EPA) Commercial Vapor Intrusion Screening Level (VISL) (TR=1E-06, HQ=1) (EPA 2024b).
 Carcinogenic SL used for benzene, ethylbenzene, and naphthalene.
 Carcinogenic SL is not calculated for toluene or total xylenes; 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

* = location of duplicate sample; higher concentration shown

U = not detected above the value shown

J = concentration is estimated

Table 12. Soil Vapor Sampling Results for VOCs

Sample ID	Sample Date	Units	XYLENES, TOTAL				NAPHTHALENE			
DEQ Commercial Soil Vapor RBC			15,000				12.00			
EPA Soil Vapor Commercial VISL			438				0.3610			
			MDL	RL	Result	U	MDL	RL	Result	U
ATMT-VP-1*	11/20/2024	µg/m ³	NA	9.0	9.00	U	0.11	1.4	0.11	U
ATMT-VP-2	11/20/2024	µg/m ³	NA	8.5	8.5	U	0.10	1.4	0.10	U

Notes:

µg/m³ = micrograms per cubic meter

VOCs = volatile organic compounds

DEQ RBC = Oregon DEQ Risk-Based Concentration for Commercial Vapor Intrusion (RBC_{sv}) (DEQ 2024).

US Environmental Protection Agency (EPA) Commercial Vapor Intrusion Screening Level (VISL) (TR=1E-06, HQ=1) (EPA 2024b).

Carcinogenic SL used for benzene, ethylbenzene, and naphthalene.

Carcinogenic SL is not calculated for toluene or total xylenes; 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

* = location of duplicate sample; higher concentration shown

U = not detected above the value shown

J = concentration is estimated

Appendix D – Lab Reports

Eastern Research Group Inc- Concord, MA

Sample Delivery Group: L1803414
Samples Received: 11/23/2024
Project Number: 0425.00.016.080
Description: 2450 Altamont Drive

Report To: Sarah Weppner
561 Virginia Road Bldg. 4
Suite 300
Concord, MA 01742

Entire Report Reviewed By:



Kelly Mercer
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

TABLE OF CONTENTS

Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	3
Cn: Case Narrative	4
Gl: Glossary of Terms	5
Al: Accreditations & Locations	6
Sc: Sample Chain of Custody	7

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Gl

⁶ Al

⁷ Sc

SAMPLE SUMMARY

ATMT-BH1-SG-1.5 L1803414-01 Solid

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2408649	1	12/17/24 00:00	12/17/24 00:00	JWW	Minneapolis, MN 55414

Collected by BB/SB Collected date/time 11/18/24 10:00 Received date/time 11/23/24 09:00

ATMT-BH1-SG-1.5-DUP L1803414-03 Solid

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2408649	1	12/17/24 00:00	12/17/24 00:00	JWW	Minneapolis, MN 55414

Collected by BB/SB Collected date/time 11/18/24 10:00 Received date/time 11/23/24 09:00

ATMT-BH1-SG-12 L1803414-04 Solid

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2408649	1	12/17/24 00:00	12/17/24 00:00	JWW	Minneapolis, MN 55414

Collected by BB/SB Collected date/time 11/18/24 10:40 Received date/time 11/23/24 09:00

ATMT-BH2-SG-1.5 L1803414-05 Solid

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2408649	1	12/17/24 00:00	12/17/24 00:00	JWW	Minneapolis, MN 55414

Collected by BB/SB Collected date/time 11/18/24 11:50 Received date/time 11/23/24 09:00

ATMT-BH2-SG-10 L1803414-06 Solid

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2408649	1	12/17/24 00:00	12/17/24 00:00	JWW	Minneapolis, MN 55414

Collected by BB/SB Collected date/time 11/18/24 11:55 Received date/time 11/23/24 09:00

ATMT-BH3-SG-1.5 L1803414-07 Solid

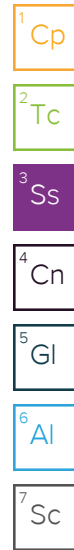
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2408649	1	12/17/24 00:00	12/17/24 00:00	JWW	Minneapolis, MN 55414

Collected by BB/SB Collected date/time 11/18/24 12:30 Received date/time 11/23/24 09:00

ATMT-BH3-SG-8 L1803414-08 Solid

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2408649	1	12/17/24 00:00	12/17/24 00:00	JWW	Minneapolis, MN 55414

Collected by BB/SB Collected date/time 11/18/24 15:05 Received date/time 11/23/24 09:00



CASE NARRATIVE

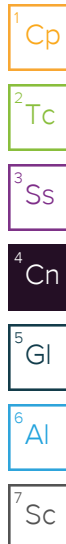
All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Kelly Mercer
Project Manager

Project Narrative

L1803414 -01, -03, -04, -05, -06, -07, -08 contains subout data that is included after the chain of custody.



GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

SDG	Sample Delivery Group.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier Description

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Gl

⁶ Al

⁷ Sc

ACCREDITATIONS & LOCATIONS

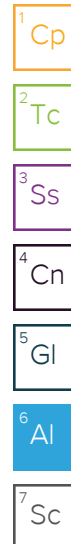
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



Company Name/Address: **Eastern Research Group Inc- Concord, MA**
 561 Virginia Road Bldg. 4

Billing Information: **Accounts Payable**
 561 Virginia Road Bldg. 4
 Suite 300
 Concord, MA 01742

Report to: **Sarah Weppner**

Project Description: **2450 Altamont Drive**

City/State Collected: **Klanath Falls, OR**

Please Circle: **PT** MT CT ET

Client Project #: **0425.00.016.080**

Lab Project #: **EASRESCMA-ID**

Phone: _____

Site/Facility ID #: _____

P.O. #: _____

Collected by (print): **Brady Beutney/Sedrek Kovar**

Collected by (signature): **[Signature]**

Rush? (Lab MUST Be Notified)
 ___ Same Day ___ Five Day
 ___ Next Day ___ 5 Day (Rad Only)
 ___ Two Day ___ 10 Day (Rad Only)
 ___ Three Day **STP/PAI**

Date Results Needed: _____

Immediately Packed on Ice N ___ Y **X**

No. of Cntrs: _____

Analysis / Container / Preservative	
NWTPHDX 4ozClr-NoPres	
NWTPHGX 40mlAmb/MeOH10ml/Syr	
PFAS 1633 PFAS-90mlPP-NoPres	
SV8270PAHSIM 4ozClr-NoPres	
Total Pb 2ozClr-NoPres	
V8260AP9 40ml/NaHSO4/Syr/MeOH	

Chain of Custody Page 1 of 1

Pace
 PEOPLE ADVANCING SCIENCE

MT JULIET, TN
 12065 Lebanon Rd Mount Juliet, TN 37122
 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <https://info.pacelabs.com/hubs/pas-standard-terms.pdf>

SDG #: **U503414**
C145

Acctnum: **EASRESCMA**
 Template: **T263838**
 Prelogin: **P1114092**
 PM: **841 - Kelly Mercer**
 PB: **11-11-246**

Shipped Via: **FedEX Standard**

Remarks: _____ Sample # (lab only): _____

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	NWTPHDX 4ozClr-NoPres	NWTPHGX 40mlAmb/MeOH10ml/Syr	PFAS 1633 PFAS-90mlPP-NoPres	SV8270PAHSIM 4ozClr-NoPres	Total Pb 2ozClr-NoPres	V8260AP9 40ml/NaHSO4/Syr/MeOH	Remarks	Sample # (lab only)
ATMT-BH1-SG-1.5'	Grab	SS	1.5'	11/18/24	1000	2			X					-01
ATMT-BH1-SG-1.5'-dup	Grab	SS	1.5'	11/18/24	1000	2			X					-02
ATMT-BH1-SG-12'	Grab	SS	12'	11/18/24	1040	2			X					-03
ATMT-BH2-SH-1.5'	Grab	SS	1.5'	11/18/24	1150	2			X					-04
ATMT-BH2-SG-1.5'-ms/msd	Grab	SS	1.5'	11/18/24	1155	2			X				ms/msd	-04
ATMT-BH2-SG-10'	Grab	SS	10'	11/18/24	1230	2			X					-05
ATMT-BH3-SG-1.5'	Grab	SS	1.5'	11/18/24	1445	2			X					-06
ATMT-BH3-SG-8'	Grab	SS	8'	11/18/24	1505	2			X					-07
		SS												
		SS												

* Matrix: **SS - Soil AIR - Air F - Filter**
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks: **Run ms/msd w/ our sample batch.**

pH _____ Temp _____
 Flow _____ Other _____

Samples returned via: **UPS X FedEx** Courier _____

Tracking #: **4041 0493 4270**

Sample Receipt Checklist
 COC Seal Present/Intact: **NP** X Y N
 COC Signed/Accurate: **X** Y N
 Bottles arrive intact: **X** Y N
 Correct bottles used: **X** Y N
 Sufficient volume sent: **X** Y N
 If Applicable
 VOA Zero Headspace: Y N
 Preservation Correct/Checked: Y N
 RAD Screen <0.5 mR/hr: **X** Y N

Relinquished by: (Signature) **[Signature]** Date: **11/22/24** Time: _____

Received by: (Signature) _____ Trip Blank Received: Yes No
 HCL/MeOH TBR

Relinquished by: (Signature) _____ Date: _____ Time: _____

Received by: (Signature) _____ Temp: **11/23/24** °C Bottles Received: **16**

Relinquished by: (Signature) _____ Date: _____ Time: _____

Received for lab by: (Signature) **[Signature]** Date: **11/23/2024** Time: **0900**

Hold: _____ Condition: **NCF / OK**



December 17, 2024

Client Services
Pace National
12065 Lebanon Rd
Mt. Juliet, TN 37122

RE: Project: L1803414 WG2408649
Pace Project No.: 10717275

Dear Client Services:

Enclosed are the analytical results for sample(s) received by the laboratory on November 27, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tong Lee
tong.lee@pacelabs.com
(612)473-6804
Project Manager

Enclosures

cc: Jimmy Huckaba, Pace Analytical National Center for
Testing & Innovation



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: L1803414 WG2408649

Pace Project No.: 10717275

Pace Analytical Services, LLC - Minneapolis MN

1700 Elm Street SE, Minneapolis, MN 55414

Alabama Certification #: 40770

Alaska Contaminated Sites Certification #: 17-009

Alaska DW Certification #: MN00064

Arizona Certification #: AZ0014

Arkansas DW Certification #: MN00064

Arkansas WW Certification #: 88-0680

California Certification #: 2929

Colorado Certification #: MN00064

Connecticut Certification #: PH-0256

DoD Certification via A2LA #: 2926.01

EPA Region 8 Tribal Water Systems+Wyoming DW

Certification #: via MN 027-053-137

Florida Certification #: E87605

Georgia Certification #: 959

GMP+ Certification #: GMP050884

Hawaii Certification #: MN00064

Idaho Certification #: MN00064

Illinois Certification #: 200011

Indiana Certification #: C-MN-01

Iowa Certification #: 368

ISO/IEC 17025 Certification via A2LA #: 2926.01

Kansas Certification #: E-10167

Kentucky DW Certification #: 90062

Kentucky WW Certification #: 90062

Louisiana DEQ Certification #: AI-03086

Louisiana DW Certification #: MN00064

Maine Certification #: MN00064

Maryland Certification #: 322

Michigan Certification #: 9909

Minnesota Certification #: 027-053-137

Minnesota Dept of Ag Approval: via MN 027-053-137

Minnesota Petrofund Registration #: 1240

Mississippi Certification #: MN00064

Missouri Certification #: 10100

Montana Certification #: CERT0092

Nebraska Certification #: NE-OS-18-06

Nevada Certification #: MN00064

New Hampshire Certification #: 2081

New Jersey Certification #: MN002

New York Certification #: 11647

North Carolina DW Certification #: 27700

North Carolina WW Certification #: 530

North Dakota Certification (A2LA) #: R-036

North Dakota Certification (MN) #: R-036

Ohio DW Certification #: 41244

Ohio VAP Certification (1700) #: CL101

Oklahoma Certification #: 9507

Oregon Primary Certification #: MN300001

Oregon Secondary Certification #: MN200001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification #: MN00064

South Carolina Certification #: 74003001

Tennessee Certification #: TN02818

Texas Certification #: T104704192

Utah Certification #: MN00064

Vermont Certification #: VT-027053137

Virginia Certification #: 460163

Washington Certification #: C486

West Virginia DEP Certification #: 382

West Virginia DW Certification #: 9952 C

Wisconsin Certification #: 999407970

Wyoming UST Certification via A2LA #: 2926.01

USDA Permit #: P330-19-00208

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: L1803414 WG2408649
Pace Project No.: 10717275

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10717275001	ATMT-BH1-SG-1.5	Solid	11/18/24 10:00	11/27/24 08:50
10717275002	ATMT-BH1-SG-1.5-DUP	Solid	11/18/24 10:00	11/27/24 08:50
10717275003	ATMT-BH1-SG-12	Solid	11/18/24 10:40	11/27/24 08:50
10717275004	ATMT-BH2-SG-1.5	Solid	11/18/24 11:50	11/27/24 08:50
10717275005	ATMT-BH2-SG-10	Solid	11/18/24 11:55	11/27/24 08:50
10717275006	ATMT-BH3-SG-1.5	Solid	11/18/24 12:30	11/27/24 08:50
10717275007	ATMT-BH3-SG-8	Solid	11/18/24 15:05	11/27/24 08:50

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: L1803414 WG2408649

Pace Project No.: 10717275

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10717275001	ATMT-BH1-SG-1.5	ASTM D2974	JDL	1	PASI-M
		EPA 1633 DRAFT	NBH	64	PASI-M
10717275002	ATMT-BH1-SG-1.5-DUP	ASTM D2974	JDL	1	PASI-M
		EPA 1633 DRAFT	MJL	64	PASI-M
10717275003	ATMT-BH1-SG-12	ASTM D2974	JDL	1	PASI-M
		EPA 1633 DRAFT	NBH	64	PASI-M
10717275004	ATMT-BH2-SG-1.5	ASTM D2974	JDL	1	PASI-M
		EPA 1633 DRAFT	NBH	64	PASI-M
10717275005	ATMT-BH2-SG-10	ASTM D2974	JDL	1	PASI-M
		EPA 1633 DRAFT	NBH	64	PASI-M
10717275006	ATMT-BH3-SG-1.5	ASTM D2974	JDL	1	PASI-M
		EPA 1633 DRAFT	MJL	64	PASI-M
10717275007	ATMT-BH3-SG-8	ASTM D2974	JDL	1	PASI-M
		EPA 1633 DRAFT	MJL	64	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: L1803414 WG2408649

Pace Project No.: 10717275

Sample: ATMT-BH1-SG-1.5 Lab ID: 10717275001 Collected: 11/18/24 10:00 Received: 11/27/24 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
------------	---------	-------	--------------	----	----------	----------	---------	------

Dry Weight / %M by ASTM D2974
 Analytical Method: ASTM D2974
 Pace Analytical Services - Minneapolis

Percent Moisture	14.7	%	0.10	1		12/05/24 16:07		N2
------------------	------	---	------	---	--	----------------	--	----

EPA 1633 DRAFT Soil
 Analytical Method: EPA 1633 DRAFT Preparation Method: EPA 1633 DRAFT
 Initial Volume/Weight: 6.001 g Final Volume/Weight: 5 mL
 Pace Analytical Services - Minneapolis

11CI-PF3OUdS	ND	ug/kg	0.78	1	12/11/24 13:41	12/13/24 00:38	763051-92-9	
3:3 FTCA	ND	ug/kg	0.98	1	12/11/24 13:41	12/13/24 00:38	356-02-5	
4:2 FTS	ND	ug/kg	0.78	1	12/11/24 13:41	12/13/24 00:38	757124-72-4	
5:3 FTCA	ND	ug/kg	4.9	1	12/11/24 13:41	12/13/24 00:38	914637-49-3	
6:2 FTS	ND	ug/kg	0.78	1	12/11/24 13:41	12/13/24 00:38	27619-97-2	
7:3 FTCA	ND	ug/kg	4.9	1	12/11/24 13:41	12/13/24 00:38	812-70-4	
8:2 FTS	ND	ug/kg	0.78	1	12/11/24 13:41	12/13/24 00:38	39108-34-4	
9CI-PF3ONS	ND	ug/kg	0.78	1	12/11/24 13:41	12/13/24 00:38	756426-58-1	
ADONA	ND	ug/kg	0.78	1	12/11/24 13:41	12/13/24 00:38	919005-14-4	
HFPO-DA	ND	ug/kg	0.78	1	12/11/24 13:41	12/13/24 00:38	13252-13-6	
NEtFOSAA	ND	ug/kg	0.20	1	12/11/24 13:41	12/13/24 00:38	2991-50-6	
NEtFOSA	ND	ug/kg	0.20	1	12/11/24 13:41	12/13/24 00:38	4151-50-2	
NEtFOSE	ND	ug/kg	2.0	1	12/11/24 13:41	12/13/24 00:38	1691-99-2	
NFDHA	ND	ug/kg	0.39	1	12/11/24 13:41	12/13/24 00:38	151772-58-6	
NMeFOSAA	ND	ug/kg	0.20	1	12/11/24 13:41	12/13/24 00:38	2355-31-9	
NMeFOSA	ND	ug/kg	0.20	1	12/11/24 13:41	12/13/24 00:38	31506-32-8	
NMeFOSE	ND	ug/kg	2.0	1	12/11/24 13:41	12/13/24 00:38	24448-09-7	
PFBS	ND	ug/kg	0.20	1	12/11/24 13:41	12/13/24 00:38	375-73-5	
PFDA	ND	ug/kg	0.20	1	12/11/24 13:41	12/13/24 00:38	335-76-2	
PFHxA	ND	ug/kg	0.20	1	12/11/24 13:41	12/13/24 00:38	307-24-4	
PFBA	ND	ug/kg	0.78	1	12/11/24 13:41	12/13/24 00:38	375-22-4	
PFDS	ND	ug/kg	0.20	1	12/11/24 13:41	12/13/24 00:38	335-77-3	
PFDoS	ND	ug/kg	0.20	1	12/11/24 13:41	12/13/24 00:38	79780-39-5	
PFEESA	ND	ug/kg	0.39	1	12/11/24 13:41	12/13/24 00:38	113507-82-7	
PFHpS	ND	ug/kg	0.20	1	12/11/24 13:41	12/13/24 00:38	375-92-8	
PFMBA	ND	ug/kg	0.39	1	12/11/24 13:41	12/13/24 00:38	863090-89-5	
PFMPA	ND	ug/kg	0.39	1	12/11/24 13:41	12/13/24 00:38	377-73-1	
PFNS	ND	ug/kg	0.20	1	12/11/24 13:41	12/13/24 00:38	68259-12-1	
PFOSA	ND	ug/kg	0.20	1	12/11/24 13:41	12/13/24 00:38	754-91-6	
PFPeA	ND	ug/kg	0.39	1	12/11/24 13:41	12/13/24 00:38	2706-90-3	
PFPeS	0.26	ug/kg	0.20	1	12/11/24 13:41	12/13/24 00:38	2706-91-4	
PFDoA	ND	ug/kg	0.20	1	12/11/24 13:41	12/13/24 00:38	307-55-1	
PFHpA	ND	ug/kg	0.20	1	12/11/24 13:41	12/13/24 00:38	375-85-9	
PFHxS	1.7	ug/kg	0.20	1	12/11/24 13:41	12/13/24 00:38	355-46-4	
PFNA	ND	ug/kg	0.20	1	12/11/24 13:41	12/13/24 00:38	375-95-1	
PFOS	22.5	ug/kg	0.20	1	12/11/24 13:41	12/13/24 00:38	1763-23-1	
PFOA	ND	ug/kg	0.20	1	12/11/24 13:41	12/13/24 00:38	335-67-1	
PFTeDA	ND	ug/kg	0.20	1	12/11/24 13:41	12/13/24 00:38	376-06-7	
PFTTrDA	ND	ug/kg	0.20	1	12/11/24 13:41	12/13/24 00:38	72629-94-8	
PFUnA	ND	ug/kg	0.20	1	12/11/24 13:41	12/13/24 00:38	2058-94-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: L1803414 WG2408649

Pace Project No.: 10717275

Sample: ATMT-BH1-SG-1.5 Lab ID: 10717275001 Collected: 11/18/24 10:00 Received: 11/27/24 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633 DRAFT Soil								
Analytical Method: EPA 1633 DRAFT Preparation Method: EPA 1633 DRAFT								
Initial Volume/Weight: 6.001 g Final Volume/Weight: 5 mL								
Pace Analytical Services - Minneapolis								
Surrogates								
13C2-PFDoA (S)	100	%	40-130	1	12/11/24 13:41	12/13/24 00:38		
13C3HFPO-DA (S)	88	%	40-130	1	12/11/24 13:41	12/13/24 00:38		
13C3-PFBS (S)	107	%	40-135	1	12/11/24 13:41	12/13/24 00:38		
13C3-PFHxS (S)	105	%	40-130	1	12/11/24 13:41	12/13/24 00:38		
13C4-PFBA (S)	92	%	8-130	1	12/11/24 13:41	12/13/24 00:38		
13C4-PFHpA (S)	90	%	40-130	1	12/11/24 13:41	12/13/24 00:38		
13C5-PFHxA (S)	89	%	40-130	1	12/11/24 13:41	12/13/24 00:38		
13C5-PFPeA (S)	91	%	35-130	1	12/11/24 13:41	12/13/24 00:38		
13C6-PFDA (S)	96	%	40-130	1	12/11/24 13:41	12/13/24 00:38		
13C8-PFOA (S)	102	%	40-130	1	12/11/24 13:41	12/13/24 00:38		
13C8-PFOS (S)	94	%	40-130	1	12/11/24 13:41	12/13/24 00:38		
13C8-PFOSA (S)	92	%	40-130	1	12/11/24 13:41	12/13/24 00:38		
13C9-PFNA (S)	101	%	40-130	1	12/11/24 13:41	12/13/24 00:38		
d3-MeFOSAA (S)	122	%	40-135	1	12/11/24 13:41	12/13/24 00:38		
d3-NMeFOSA (S)	80	%	10-130	1	12/11/24 13:41	12/13/24 00:38		
d5-EtFOSAA (S)	134	%	40-150	1	12/11/24 13:41	12/13/24 00:38		
d5-NEtFOSA (S)	72	%	10-130	1	12/11/24 13:41	12/13/24 00:38		
d7-NMeFOSE (S)	86	%	20-130	1	12/11/24 13:41	12/13/24 00:38		
d9-NEtFOSE (S)	89	%	15-130	1	12/11/24 13:41	12/13/24 00:38		
13C2-PFTA (S)	92	%	20-130	1	12/11/24 13:41	12/13/24 00:38		
13C7-PFUDa (S)	103	%	40-130	1	12/11/24 13:41	12/13/24 00:38		
13C24:2FTS (S)	91	%	40-165	1	12/11/24 13:41	12/13/24 00:38		
13C26:2FTS (S)	144	%	40-215	1	12/11/24 13:41	12/13/24 00:38		
13C28:2FTS (S)	216	%	40-275	1	12/11/24 13:41	12/13/24 00:38		

Sample: ATMT-BH1-SG-1.5-DUP Lab ID: 10717275002 Collected: 11/18/24 10:00 Received: 11/27/24 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight / %M by ASTM D2974								
Analytical Method: ASTM D2974								
Pace Analytical Services - Minneapolis								
Percent Moisture	11.8	%	0.10	1		12/05/24 16:07		N2
EPA 1633 DRAFT Soil								
Analytical Method: EPA 1633 DRAFT Preparation Method: EPA 1633 DRAFT								
Initial Volume/Weight: 5.764 g Final Volume/Weight: 5 mL								
Pace Analytical Services - Minneapolis								
11CI-PF3OUdS	ND	ug/kg	0.79	1	12/11/24 13:41	12/14/24 04:59	763051-92-9	
3:3 FTCA	ND	ug/kg	0.98	1	12/11/24 13:41	12/14/24 04:59	356-02-5	
4:2 FTS	ND	ug/kg	0.79	1	12/11/24 13:41	12/14/24 04:59	757124-72-4	
5:3 FTCA	ND	ug/kg	4.9	1	12/11/24 13:41	12/14/24 04:59	914637-49-3	
6:2 FTS	ND	ug/kg	0.79	1	12/11/24 13:41	12/14/24 04:59	27619-97-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: L1803414 WG2408649

Pace Project No.: 10717275

Sample: ATMT-BH1-SG-1.5-DUP Lab ID: 10717275002 Collected: 11/18/24 10:00 Received: 11/27/24 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633 DRAFT Soil								
Analytical Method: EPA 1633 DRAFT Preparation Method: EPA 1633 DRAFT								
Initial Volume/Weight: 5.764 g Final Volume/Weight: 5 mL								
Pace Analytical Services - Minneapolis								
7:3 FTCA	ND	ug/kg	4.9	1	12/11/24 13:41	12/14/24 04:59	812-70-4	
8:2 FTS	ND	ug/kg	0.79	1	12/11/24 13:41	12/14/24 04:59	39108-34-4	
9CI-PF3ONS	ND	ug/kg	0.79	1	12/11/24 13:41	12/14/24 04:59	756426-58-1	
ADONA	ND	ug/kg	0.79	1	12/11/24 13:41	12/14/24 04:59	919005-14-4	
HFPO-DA	ND	ug/kg	0.79	1	12/11/24 13:41	12/14/24 04:59	13252-13-6	
NEtFOSAA	ND	ug/kg	0.20	1	12/11/24 13:41	12/14/24 04:59	2991-50-6	
NEtFOSA	ND	ug/kg	0.20	1	12/11/24 13:41	12/14/24 04:59	4151-50-2	
NEtFOSE	ND	ug/kg	2.0	1	12/11/24 13:41	12/14/24 04:59	1691-99-2	
NFDHA	ND	ug/kg	0.39	1	12/11/24 13:41	12/14/24 04:59	151772-58-6	
NMeFOSAA	ND	ug/kg	0.20	1	12/11/24 13:41	12/14/24 04:59	2355-31-9	
NMeFOSA	ND	ug/kg	0.20	1	12/11/24 13:41	12/14/24 04:59	31506-32-8	
NMeFOSE	ND	ug/kg	2.0	1	12/11/24 13:41	12/14/24 04:59	24448-09-7	
PFBS	0.97	ug/kg	0.20	1	12/11/24 13:41	12/14/24 04:59	375-73-5	
PFDA	0.31	ug/kg	0.20	1	12/11/24 13:41	12/14/24 04:59	335-76-2	
PFHxA	0.64	ug/kg	0.20	1	12/11/24 13:41	12/14/24 04:59	307-24-4	
PFBA	ND	ug/kg	0.79	1	12/11/24 13:41	12/14/24 04:59	375-22-4	
PFDS	ND	ug/kg	0.20	1	12/11/24 13:41	12/14/24 04:59	335-77-3	
PFDoS	ND	ug/kg	0.20	1	12/11/24 13:41	12/14/24 04:59	79780-39-5	
PFEESA	ND	ug/kg	0.39	1	12/11/24 13:41	12/14/24 04:59	113507-82-7	
PFHpS	ND	ug/kg	0.20	1	12/11/24 13:41	12/14/24 04:59	375-92-8	
PFMBA	ND	ug/kg	0.39	1	12/11/24 13:41	12/14/24 04:59	863090-89-5	
PFMPA	ND	ug/kg	0.39	1	12/11/24 13:41	12/14/24 04:59	377-73-1	
PFNS	0.22	ug/kg	0.20	1	12/11/24 13:41	12/14/24 04:59	68259-12-1	
PFOSA	0.27	ug/kg	0.20	1	12/11/24 13:41	12/14/24 04:59	754-91-6	
PFPeA	0.58	ug/kg	0.39	1	12/11/24 13:41	12/14/24 04:59	2706-90-3	
PFPeS	0.98	ug/kg	0.20	1	12/11/24 13:41	12/14/24 04:59	2706-91-4	
PFDoA	ND	ug/kg	0.20	1	12/11/24 13:41	12/14/24 04:59	307-55-1	
PFHpA	0.20	ug/kg	0.20	1	12/11/24 13:41	12/14/24 04:59	375-85-9	
PFHxS	4.9	ug/kg	0.20	1	12/11/24 13:41	12/14/24 04:59	355-46-4	
PFNA	ND	ug/kg	0.20	1	12/11/24 13:41	12/14/24 04:59	375-95-1	
PFOS	62.5	ug/kg	0.98	5	12/11/24 13:41	12/14/24 05:45	1763-23-1	
PFOA	0.22	ug/kg	0.20	1	12/11/24 13:41	12/14/24 04:59	335-67-1	
PFTeDA	ND	ug/kg	0.20	1	12/11/24 13:41	12/14/24 04:59	376-06-7	
PFTTrDA	ND	ug/kg	0.20	1	12/11/24 13:41	12/14/24 04:59	72629-94-8	
PFUnA	ND	ug/kg	0.20	1	12/11/24 13:41	12/14/24 04:59	2058-94-8	
Surrogates								
13C2-PFDoA (S)	102	%	40-130	1	12/11/24 13:41	12/14/24 04:59		
13C3HFPO-DA (S)	95	%	40-130	1	12/11/24 13:41	12/14/24 04:59		
13C3-PFBS (S)	107	%	40-135	1	12/11/24 13:41	12/14/24 04:59		
13C3-PFHxS (S)	101	%	40-130	1	12/11/24 13:41	12/14/24 04:59		
13C4-PFBA (S)	96	%	8-130	1	12/11/24 13:41	12/14/24 04:59		
13C4-PFHpA (S)	100	%	40-130	1	12/11/24 13:41	12/14/24 04:59		
13C5-PFHxA (S)	94	%	40-130	1	12/11/24 13:41	12/14/24 04:59		
13C5-PFPeA (S)	96	%	35-130	1	12/11/24 13:41	12/14/24 04:59		

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**ANALYTICAL RESULTS**

Project: L1803414 WG2408649

Pace Project No.: 10717275

Sample: ATMT-BH1-SG-1.5-DUP Lab ID: **10717275002** Collected: 11/18/24 10:00 Received: 11/27/24 08:50 Matrix: Solid**Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633 DRAFT Soil								
Analytical Method: EPA 1633 DRAFT Preparation Method: EPA 1633 DRAFT								
Initial Volume/Weight: 5.764 g Final Volume/Weight: 5 mL								
Pace Analytical Services - Minneapolis								
Surrogates								
13C6-PFDA (S)	99	%	40-130	1	12/11/24 13:41	12/14/24 04:59		
13C8-PFOA (S)	100	%	40-130	1	12/11/24 13:41	12/14/24 04:59		
13C8-PFOS (S)	99	%	40-130	1	12/11/24 13:41	12/14/24 04:59		
13C8-PFOA (S)	109	%	40-130	1	12/11/24 13:41	12/14/24 04:59		
13C9-PFNA (S)	96	%	40-130	1	12/11/24 13:41	12/14/24 04:59		
d3-MeFOSAA (S)	128	%	40-135	1	12/11/24 13:41	12/14/24 04:59		
d3-NMeFOSA (S)	74	%	10-130	1	12/11/24 13:41	12/14/24 04:59		
d5-EtFOSAA (S)	140	%	40-150	1	12/11/24 13:41	12/14/24 04:59		
d5-NEtFOSA (S)	57	%	10-130	1	12/11/24 13:41	12/14/24 04:59		
d7-NMeFOSE (S)	90	%	20-130	1	12/11/24 13:41	12/14/24 04:59		
d9-NEtFOSE (S)	83	%	15-130	1	12/11/24 13:41	12/14/24 04:59		
13C2-PFTA (S)	75	%	20-130	1	12/11/24 13:41	12/14/24 04:59		
13C7-PFUDa (S)	102	%	40-130	1	12/11/24 13:41	12/14/24 04:59		
13C24:2FTS (S)	96	%	40-165	1	12/11/24 13:41	12/14/24 04:59		
13C26:2FTS (S)	150	%	40-215	1	12/11/24 13:41	12/14/24 04:59		
13C28:2FTS (S)	213	%	40-275	1	12/11/24 13:41	12/14/24 04:59		

Sample: ATMT-BH1-SG-12 Lab ID: **10717275003** Collected: 11/18/24 10:40 Received: 11/27/24 08:50 Matrix: Solid**Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight / %M by ASTM D2974								
Analytical Method: ASTM D2974								
Pace Analytical Services - Minneapolis								
Percent Moisture	19.2	%	0.10	1		12/05/24 16:07		N2
EPA 1633 DRAFT Soil								
Analytical Method: EPA 1633 DRAFT Preparation Method: EPA 1633 DRAFT								
Initial Volume/Weight: 6.283 g Final Volume/Weight: 5 mL								
Pace Analytical Services - Minneapolis								
11CI-PF3OUdS	ND	ug/kg	0.79	1	12/11/24 13:41	12/13/24 01:10	763051-92-9	
3:3 FTCA	ND	ug/kg	0.98	1	12/11/24 13:41	12/13/24 01:10	356-02-5	
4:2 FTS	ND	ug/kg	0.79	1	12/11/24 13:41	12/13/24 01:10	757124-72-4	
5:3 FTCA	ND	ug/kg	4.9	1	12/11/24 13:41	12/13/24 01:10	914637-49-3	
6:2 FTS	ND	ug/kg	0.79	1	12/11/24 13:41	12/13/24 01:10	27619-97-2	
7:3 FTCA	ND	ug/kg	4.9	1	12/11/24 13:41	12/13/24 01:10	812-70-4	
8:2 FTS	ND	ug/kg	0.79	1	12/11/24 13:41	12/13/24 01:10	39108-34-4	
9CI-PF3ONS	ND	ug/kg	0.79	1	12/11/24 13:41	12/13/24 01:10	756426-58-1	
ADONA	ND	ug/kg	0.79	1	12/11/24 13:41	12/13/24 01:10	919005-14-4	
HFPO-DA	ND	ug/kg	0.79	1	12/11/24 13:41	12/13/24 01:10	13252-13-6	
NEtFOSAA	ND	ug/kg	0.20	1	12/11/24 13:41	12/13/24 01:10	2991-50-6	
NEtFOSA	ND	ug/kg	0.20	1	12/11/24 13:41	12/13/24 01:10	4151-50-2	
NEtFOSE	ND	ug/kg	2.0	1	12/11/24 13:41	12/13/24 01:10	1691-99-2	

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**ANALYTICAL RESULTS**

Project: L1803414 WG2408649

Pace Project No.: 10717275

Sample: ATMT-BH1-SG-12 **Lab ID: 10717275003** Collected: 11/18/24 10:40 Received: 11/27/24 08:50 Matrix: Solid*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633 DRAFT Soil								
Analytical Method: EPA 1633 DRAFT Preparation Method: EPA 1633 DRAFT								
Initial Volume/Weight: 6.283 g Final Volume/Weight: 5 mL								
Pace Analytical Services - Minneapolis								
NFDHA	ND	ug/kg	0.39	1	12/11/24 13:41	12/13/24 01:10	151772-58-6	
NMeFOSAA	ND	ug/kg	0.20	1	12/11/24 13:41	12/13/24 01:10	2355-31-9	
NMeFOSA	ND	ug/kg	0.20	1	12/11/24 13:41	12/13/24 01:10	31506-32-8	
NMeFOSE	ND	ug/kg	2.0	1	12/11/24 13:41	12/13/24 01:10	24448-09-7	
PFBS	ND	ug/kg	0.20	1	12/11/24 13:41	12/13/24 01:10	375-73-5	
PFDA	ND	ug/kg	0.20	1	12/11/24 13:41	12/13/24 01:10	335-76-2	
PFHxA	ND	ug/kg	0.20	1	12/11/24 13:41	12/13/24 01:10	307-24-4	
PFBA	ND	ug/kg	0.79	1	12/11/24 13:41	12/13/24 01:10	375-22-4	
PFDS	ND	ug/kg	0.20	1	12/11/24 13:41	12/13/24 01:10	335-77-3	
PFDoS	ND	ug/kg	0.20	1	12/11/24 13:41	12/13/24 01:10	79780-39-5	
PFEESA	ND	ug/kg	0.39	1	12/11/24 13:41	12/13/24 01:10	113507-82-7	
PFHpS	ND	ug/kg	0.20	1	12/11/24 13:41	12/13/24 01:10	375-92-8	
PFMBA	ND	ug/kg	0.39	1	12/11/24 13:41	12/13/24 01:10	863090-89-5	
PFMPA	ND	ug/kg	0.39	1	12/11/24 13:41	12/13/24 01:10	377-73-1	
PFNS	ND	ug/kg	0.20	1	12/11/24 13:41	12/13/24 01:10	68259-12-1	
PFOSA	ND	ug/kg	0.20	1	12/11/24 13:41	12/13/24 01:10	754-91-6	
PFPeA	ND	ug/kg	0.39	1	12/11/24 13:41	12/13/24 01:10	2706-90-3	
PFPeS	ND	ug/kg	0.20	1	12/11/24 13:41	12/13/24 01:10	2706-91-4	
PFDoA	ND	ug/kg	0.20	1	12/11/24 13:41	12/13/24 01:10	307-55-1	
PFHpA	ND	ug/kg	0.20	1	12/11/24 13:41	12/13/24 01:10	375-85-9	
PFHxS	ND	ug/kg	0.20	1	12/11/24 13:41	12/13/24 01:10	355-46-4	
PFNA	ND	ug/kg	0.20	1	12/11/24 13:41	12/13/24 01:10	375-95-1	
PFOS	ND	ug/kg	0.20	1	12/11/24 13:41	12/13/24 01:10	1763-23-1	
PFOA	ND	ug/kg	0.20	1	12/11/24 13:41	12/13/24 01:10	335-67-1	
PFTeDA	ND	ug/kg	0.20	1	12/11/24 13:41	12/13/24 01:10	376-06-7	
PFTrDA	ND	ug/kg	0.20	1	12/11/24 13:41	12/13/24 01:10	72629-94-8	
PFUnA	ND	ug/kg	0.20	1	12/11/24 13:41	12/13/24 01:10	2058-94-8	
Surrogates								
13C2-PFDoA (S)	96	%.	40-130	1	12/11/24 13:41	12/13/24 01:10		
13C3HFPO-DA (S)	93	%.	40-130	1	12/11/24 13:41	12/13/24 01:10		
13C3-PFBS (S)	114	%.	40-135	1	12/11/24 13:41	12/13/24 01:10		
13C3-PFHxS (S)	105	%.	40-130	1	12/11/24 13:41	12/13/24 01:10		
13C4-PFBA (S)	93	%.	8-130	1	12/11/24 13:41	12/13/24 01:10		
13C4-PFHpA (S)	95	%.	40-130	1	12/11/24 13:41	12/13/24 01:10		
13C5-PFHxA (S)	90	%.	40-130	1	12/11/24 13:41	12/13/24 01:10		
13C5-PFPeA (S)	95	%.	35-130	1	12/11/24 13:41	12/13/24 01:10		
13C6-PFDA (S)	99	%.	40-130	1	12/11/24 13:41	12/13/24 01:10		
13C8-PFOA (S)	101	%.	40-130	1	12/11/24 13:41	12/13/24 01:10		
13C8-PFOS (S)	99	%.	40-130	1	12/11/24 13:41	12/13/24 01:10		
13C8-PFOSA (S)	90	%.	40-130	1	12/11/24 13:41	12/13/24 01:10		
13C9-PFNA (S)	99	%.	40-130	1	12/11/24 13:41	12/13/24 01:10		
d3-MeFOSAA (S)	122	%.	40-135	1	12/11/24 13:41	12/13/24 01:10		
d3-NMeFOSA (S)	69	%.	10-130	1	12/11/24 13:41	12/13/24 01:10		
d5-EtFOSAA (S)	131	%.	40-150	1	12/11/24 13:41	12/13/24 01:10		

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**ANALYTICAL RESULTS**

Project: L1803414 WG2408649

Pace Project No.: 10717275

Sample: ATMT-BH1-SG-12 **Lab ID: 10717275003** Collected: 11/18/24 10:40 Received: 11/27/24 08:50 Matrix: Solid*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633 DRAFT Soil								
Analytical Method: EPA 1633 DRAFT Preparation Method: EPA 1633 DRAFT								
Initial Volume/Weight: 6.283 g Final Volume/Weight: 5 mL								
Pace Analytical Services - Minneapolis								
Surrogates								
d5-NEtFOSA (S)	66	%	10-130	1	12/11/24 13:41	12/13/24 01:10		
d7-NMeFOSE (S)	73	%	20-130	1	12/11/24 13:41	12/13/24 01:10		
d9-NEtFOSE (S)	80	%	15-130	1	12/11/24 13:41	12/13/24 01:10		
13C2-PFTA (S)	105	%	20-130	1	12/11/24 13:41	12/13/24 01:10		
13C7-PFUDa (S)	99	%	40-130	1	12/11/24 13:41	12/13/24 01:10		
13C24:2FTS (S)	100	%	40-165	1	12/11/24 13:41	12/13/24 01:10		
13C26:2FTS (S)	166	%	40-215	1	12/11/24 13:41	12/13/24 01:10		
13C28:2FTS (S)	233	%	40-275	1	12/11/24 13:41	12/13/24 01:10		

Sample: ATMT-BH2-SG-1.5 **Lab ID: 10717275004** Collected: 11/18/24 11:50 Received: 11/27/24 08:50 Matrix: Solid*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight / %M by ASTM D2974								
Analytical Method: ASTM D2974								
Pace Analytical Services - Minneapolis								
Percent Moisture	16.8	%	0.10	1		12/05/24 16:07		N2
EPA 1633 DRAFT Soil								
Analytical Method: EPA 1633 DRAFT Preparation Method: EPA 1633 DRAFT								
Initial Volume/Weight: 5.922 g Final Volume/Weight: 5 mL								
Pace Analytical Services - Minneapolis								
11CI-PF3OUdS	ND	ug/kg	0.81	1	12/11/24 13:41	12/13/24 01:25	763051-92-9	
3:3 FTCA	ND	ug/kg	1.0	1	12/11/24 13:41	12/13/24 01:25	356-02-5	
4:2 FTS	ND	ug/kg	0.81	1	12/11/24 13:41	12/13/24 01:25	757124-72-4	
5:3 FTCA	ND	ug/kg	5.1	1	12/11/24 13:41	12/13/24 01:25	914637-49-3	
6:2 FTS	ND	ug/kg	0.81	1	12/11/24 13:41	12/13/24 01:25	27619-97-2	
7:3 FTCA	ND	ug/kg	5.1	1	12/11/24 13:41	12/13/24 01:25	812-70-4	
8:2 FTS	ND	ug/kg	0.81	1	12/11/24 13:41	12/13/24 01:25	39108-34-4	
9CI-PF3ONS	ND	ug/kg	0.81	1	12/11/24 13:41	12/13/24 01:25	756426-58-1	
ADONA	ND	ug/kg	0.81	1	12/11/24 13:41	12/13/24 01:25	919005-14-4	
HFPO-DA	ND	ug/kg	0.81	1	12/11/24 13:41	12/13/24 01:25	13252-13-6	
NEtFOSAA	ND	ug/kg	0.20	1	12/11/24 13:41	12/13/24 01:25	2991-50-6	
NEtFOSA	ND	ug/kg	0.20	1	12/11/24 13:41	12/13/24 01:25	4151-50-2	
NEtFOSE	ND	ug/kg	2.0	1	12/11/24 13:41	12/13/24 01:25	1691-99-2	
NFDHA	ND	ug/kg	0.41	1	12/11/24 13:41	12/13/24 01:25	151772-58-6	
NMeFOSAA	ND	ug/kg	0.20	1	12/11/24 13:41	12/13/24 01:25	2355-31-9	
NMeFOSA	ND	ug/kg	0.20	1	12/11/24 13:41	12/13/24 01:25	31506-32-8	
NMeFOSE	ND	ug/kg	2.0	1	12/11/24 13:41	12/13/24 01:25	24448-09-7	
PFBS	0.64	ug/kg	0.20	1	12/11/24 13:41	12/13/24 01:25	375-73-5	
PFDA	ND	ug/kg	0.20	1	12/11/24 13:41	12/13/24 01:25	335-76-2	
PFHxA	0.43	ug/kg	0.20	1	12/11/24 13:41	12/13/24 01:25	307-24-4	
PFBA	ND	ug/kg	0.81	1	12/11/24 13:41	12/13/24 01:25	375-22-4	

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ANALYTICAL RESULTS

Project: L1803414 WG2408649

Pace Project No.: 10717275

Sample: ATMT-BH2-SG-1.5 Lab ID: 10717275004 Collected: 11/18/24 11:50 Received: 11/27/24 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633 DRAFT Soil								
Analytical Method: EPA 1633 DRAFT Preparation Method: EPA 1633 DRAFT								
Initial Volume/Weight: 5.922 g Final Volume/Weight: 5 mL								
Pace Analytical Services - Minneapolis								
PFDS	ND	ug/kg	0.20	1	12/11/24 13:41	12/13/24 01:25	335-77-3	
PFDoS	ND	ug/kg	0.20	1	12/11/24 13:41	12/13/24 01:25	79780-39-5	
PFEESA	ND	ug/kg	0.41	1	12/11/24 13:41	12/13/24 01:25	113507-82-7	
PFHpS	0.28	ug/kg	0.20	1	12/11/24 13:41	12/13/24 01:25	375-92-8	
PFMBA	ND	ug/kg	0.41	1	12/11/24 13:41	12/13/24 01:25	863090-89-5	
PFMPA	ND	ug/kg	0.41	1	12/11/24 13:41	12/13/24 01:25	377-73-1	
PFNS	ND	ug/kg	0.20	1	12/11/24 13:41	12/13/24 01:25	68259-12-1	
PFOSA	ND	ug/kg	0.20	1	12/11/24 13:41	12/13/24 01:25	754-91-6	
PFPeA	0.62	ug/kg	0.41	1	12/11/24 13:41	12/13/24 01:25	2706-90-3	
PFPeS	0.33	ug/kg	0.20	1	12/11/24 13:41	12/13/24 01:25	2706-91-4	
PFDoA	ND	ug/kg	0.20	1	12/11/24 13:41	12/13/24 01:25	307-55-1	
PFHpA	ND	ug/kg	0.20	1	12/11/24 13:41	12/13/24 01:25	375-85-9	
PFHxS	4.5	ug/kg	0.20	1	12/11/24 13:41	12/13/24 01:25	355-46-4	M1
PFNA	ND	ug/kg	0.20	1	12/11/24 13:41	12/13/24 01:25	375-95-1	
PFOS	38.2	ug/kg	0.20	1	12/11/24 13:41	12/13/24 01:25	1763-23-1	M1
PFOA	0.26	ug/kg	0.20	1	12/11/24 13:41	12/13/24 01:25	335-67-1	
PFTeDA	ND	ug/kg	0.20	1	12/11/24 13:41	12/13/24 01:25	376-06-7	
PFTrDA	ND	ug/kg	0.20	1	12/11/24 13:41	12/13/24 01:25	72629-94-8	
PFUnA	ND	ug/kg	0.20	1	12/11/24 13:41	12/13/24 01:25	2058-94-8	
Surrogates								
13C2-PFDoA (S)	123	%	40-130	1	12/11/24 13:41	12/13/24 01:25		
13C3HFPO-DA (S)	108	%	40-130	1	12/11/24 13:41	12/13/24 01:25		
13C3-PFBS (S)	113	%	40-135	1	12/11/24 13:41	12/13/24 01:25		
13C3-PFHxS (S)	106	%	40-130	1	12/11/24 13:41	12/13/24 01:25		
13C4-PFBA (S)	101	%	8-130	1	12/11/24 13:41	12/13/24 01:25		
13C4-PFHpA (S)	100	%	40-130	1	12/11/24 13:41	12/13/24 01:25		
13C5-PFHxA (S)	101	%	40-130	1	12/11/24 13:41	12/13/24 01:25		
13C5-PFPeA (S)	107	%	35-130	1	12/11/24 13:41	12/13/24 01:25		
13C6-PFDA (S)	115	%	40-130	1	12/11/24 13:41	12/13/24 01:25		
13C8-PFOA (S)	96	%	40-130	1	12/11/24 13:41	12/13/24 01:25		
13C8-PFOS (S)	99	%	40-130	1	12/11/24 13:41	12/13/24 01:25		
13C8-PFOSA (S)	97	%	40-130	1	12/11/24 13:41	12/13/24 01:25		
13C9-PFNA (S)	116	%	40-130	1	12/11/24 13:41	12/13/24 01:25		
d3-MeFOSAA (S)	130	%	40-135	1	12/11/24 13:41	12/13/24 01:25		
d3-NMeFOSA (S)	87	%	10-130	1	12/11/24 13:41	12/13/24 01:25		
d5-EtFOSAA (S)	146	%	40-150	1	12/11/24 13:41	12/13/24 01:25		
d5-NEtFOSA (S)	83	%	10-130	1	12/11/24 13:41	12/13/24 01:25		
d7-NMeFOSE (S)	94	%	20-130	1	12/11/24 13:41	12/13/24 01:25		
d9-NEtFOSE (S)	104	%	15-130	1	12/11/24 13:41	12/13/24 01:25		
13C2-PFTA (S)	126	%	20-130	1	12/11/24 13:41	12/13/24 01:25		
13C7-PFUdA (S)	118	%	40-130	1	12/11/24 13:41	12/13/24 01:25		
13C24:2FTS (S)	90	%	40-165	1	12/11/24 13:41	12/13/24 01:25		
13C26:2FTS (S)	149	%	40-215	1	12/11/24 13:41	12/13/24 01:25		
13C28:2FTS (S)	201	%	40-275	1	12/11/24 13:41	12/13/24 01:25		

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ANALYTICAL RESULTS

Project: L1803414 WG2408649

Pace Project No.: 10717275

Sample: ATMT-BH2-SG-10 Lab ID: 10717275005 Collected: 11/18/24 11:55 Received: 11/27/24 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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Dry Weight / %M by ASTM D2974

Analytical Method: ASTM D2974
Pace Analytical Services - Minneapolis

Percent Moisture	17.5	%	0.10	1		12/05/24 16:08		N2
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EPA 1633 DRAFT Soil

Analytical Method: EPA 1633 DRAFT Preparation Method: EPA 1633 DRAFT
Initial Volume/Weight: 6.103 g Final Volume/Weight: 5 mL
Pace Analytical Services - Minneapolis

11CI-PF3OUdS	ND	ug/kg	0.79	1	12/11/24 13:41	12/13/24 02:12	763051-92-9	
3:3 FTCA	ND	ug/kg	0.99	1	12/11/24 13:41	12/13/24 02:12	356-02-5	
4:2 FTS	ND	ug/kg	0.79	1	12/11/24 13:41	12/13/24 02:12	757124-72-4	
5:3 FTCA	ND	ug/kg	5.0	1	12/11/24 13:41	12/13/24 02:12	914637-49-3	
6:2 FTS	ND	ug/kg	0.79	1	12/11/24 13:41	12/13/24 02:12	27619-97-2	
7:3 FTCA	ND	ug/kg	5.0	1	12/11/24 13:41	12/13/24 02:12	812-70-4	
8:2 FTS	ND	ug/kg	0.79	1	12/11/24 13:41	12/13/24 02:12	39108-34-4	
9CI-PF3ONS	ND	ug/kg	0.79	1	12/11/24 13:41	12/13/24 02:12	756426-58-1	
ADONA	ND	ug/kg	0.79	1	12/11/24 13:41	12/13/24 02:12	919005-14-4	
HFPO-DA	ND	ug/kg	0.79	1	12/11/24 13:41	12/13/24 02:12	13252-13-6	
NEtFOSAA	ND	ug/kg	0.20	1	12/11/24 13:41	12/13/24 02:12	2991-50-6	
NEtFOSA	ND	ug/kg	0.20	1	12/11/24 13:41	12/13/24 02:12	4151-50-2	
NEtFOSE	ND	ug/kg	2.0	1	12/11/24 13:41	12/13/24 02:12	1691-99-2	
NFDHA	ND	ug/kg	0.40	1	12/11/24 13:41	12/13/24 02:12	151772-58-6	
NMeFOSAA	ND	ug/kg	0.20	1	12/11/24 13:41	12/13/24 02:12	2355-31-9	
NMeFOSA	ND	ug/kg	0.20	1	12/11/24 13:41	12/13/24 02:12	31506-32-8	
NMeFOSE	ND	ug/kg	2.0	1	12/11/24 13:41	12/13/24 02:12	24448-09-7	
PFBS	ND	ug/kg	0.20	1	12/11/24 13:41	12/13/24 02:12	375-73-5	
PFDA	ND	ug/kg	0.20	1	12/11/24 13:41	12/13/24 02:12	335-76-2	
PFHxA	ND	ug/kg	0.20	1	12/11/24 13:41	12/13/24 02:12	307-24-4	
PFBA	ND	ug/kg	0.79	1	12/11/24 13:41	12/13/24 02:12	375-22-4	
PFDS	ND	ug/kg	0.20	1	12/11/24 13:41	12/13/24 02:12	335-77-3	
PFDoS	ND	ug/kg	0.20	1	12/11/24 13:41	12/13/24 02:12	79780-39-5	
PFEESA	ND	ug/kg	0.40	1	12/11/24 13:41	12/13/24 02:12	113507-82-7	
PFHpS	ND	ug/kg	0.20	1	12/11/24 13:41	12/13/24 02:12	375-92-8	
PFMBA	ND	ug/kg	0.40	1	12/11/24 13:41	12/13/24 02:12	863090-89-5	
PFMPA	ND	ug/kg	0.40	1	12/11/24 13:41	12/13/24 02:12	377-73-1	
PFNS	ND	ug/kg	0.20	1	12/11/24 13:41	12/13/24 02:12	68259-12-1	
PFOSA	ND	ug/kg	0.20	1	12/11/24 13:41	12/13/24 02:12	754-91-6	
PFPeA	ND	ug/kg	0.40	1	12/11/24 13:41	12/13/24 02:12	2706-90-3	
PFPeS	ND	ug/kg	0.20	1	12/11/24 13:41	12/13/24 02:12	2706-91-4	
PFDoA	ND	ug/kg	0.20	1	12/11/24 13:41	12/13/24 02:12	307-55-1	
PFHpA	ND	ug/kg	0.20	1	12/11/24 13:41	12/13/24 02:12	375-85-9	
PFHxS	ND	ug/kg	0.20	1	12/11/24 13:41	12/13/24 02:12	355-46-4	
PFNA	ND	ug/kg	0.20	1	12/11/24 13:41	12/13/24 02:12	375-95-1	
PFOS	ND	ug/kg	0.20	1	12/11/24 13:41	12/13/24 02:12	1763-23-1	
PFOA	ND	ug/kg	0.20	1	12/11/24 13:41	12/13/24 02:12	335-67-1	
PFTeDA	ND	ug/kg	0.20	1	12/11/24 13:41	12/13/24 02:12	376-06-7	
PFTTrDA	ND	ug/kg	0.20	1	12/11/24 13:41	12/13/24 02:12	72629-94-8	
PFUnA	ND	ug/kg	0.20	1	12/11/24 13:41	12/13/24 02:12	2058-94-8	

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**ANALYTICAL RESULTS**

Project: L1803414 WG2408649

Pace Project No.: 10717275

Sample: ATMT-BH2-SG-10 Lab ID: 10717275005 Collected: 11/18/24 11:55 Received: 11/27/24 08:50 Matrix: Solid*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633 DRAFT Soil								
Analytical Method: EPA 1633 DRAFT Preparation Method: EPA 1633 DRAFT								
Initial Volume/Weight: 6.103 g Final Volume/Weight: 5 mL								
Pace Analytical Services - Minneapolis								
Surrogates								
13C2-PFDoA (S)	98	%	40-130	1	12/11/24 13:41	12/13/24 02:12		
13C3HFPO-DA (S)	94	%	40-130	1	12/11/24 13:41	12/13/24 02:12		
13C3-PFBS (S)	108	%	40-135	1	12/11/24 13:41	12/13/24 02:12		
13C3-PFHxS (S)	106	%	40-130	1	12/11/24 13:41	12/13/24 02:12		
13C4-PFBA (S)	95	%	8-130	1	12/11/24 13:41	12/13/24 02:12		
13C4-PFHpA (S)	96	%	40-130	1	12/11/24 13:41	12/13/24 02:12		
13C5-PFHxA (S)	89	%	40-130	1	12/11/24 13:41	12/13/24 02:12		
13C5-PFPeA (S)	94	%	35-130	1	12/11/24 13:41	12/13/24 02:12		
13C6-PFDA (S)	101	%	40-130	1	12/11/24 13:41	12/13/24 02:12		
13C8-PFOA (S)	102	%	40-130	1	12/11/24 13:41	12/13/24 02:12		
13C8-PFOS (S)	102	%	40-130	1	12/11/24 13:41	12/13/24 02:12		
13C8-PFOSA (S)	90	%	40-130	1	12/11/24 13:41	12/13/24 02:12		
13C9-PFNA (S)	96	%	40-130	1	12/11/24 13:41	12/13/24 02:12		
d3-MeFOSAA (S)	117	%	40-135	1	12/11/24 13:41	12/13/24 02:12		
d3-NMeFOSA (S)	64	%	10-130	1	12/11/24 13:41	12/13/24 02:12		
d5-EtFOSAA (S)	123	%	40-150	1	12/11/24 13:41	12/13/24 02:12		
d5-NEtFOSA (S)	60	%	10-130	1	12/11/24 13:41	12/13/24 02:12		
d7-NMeFOSE (S)	67	%	20-130	1	12/11/24 13:41	12/13/24 02:12		
d9-NEtFOSE (S)	76	%	15-130	1	12/11/24 13:41	12/13/24 02:12		
13C2-PFTA (S)	103	%	20-130	1	12/11/24 13:41	12/13/24 02:12		
13C7-PFUdA (S)	94	%	40-130	1	12/11/24 13:41	12/13/24 02:12		
13C24:2FTS (S)	93	%	40-165	1	12/11/24 13:41	12/13/24 02:12		
13C26:2FTS (S)	147	%	40-215	1	12/11/24 13:41	12/13/24 02:12		
13C28:2FTS (S)	198	%	40-275	1	12/11/24 13:41	12/13/24 02:12		

Sample: ATMT-BH3-SG-1.5 Lab ID: 10717275006 Collected: 11/18/24 12:30 Received: 11/27/24 08:50 Matrix: Solid*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight / %M by ASTM D2974								
Analytical Method: ASTM D2974								
Pace Analytical Services - Minneapolis								
Percent Moisture	19.2	%	0.10	1		12/05/24 16:08		N2
EPA 1633 DRAFT Soil								
Analytical Method: EPA 1633 DRAFT Preparation Method: EPA 1633 DRAFT								
Initial Volume/Weight: 6.273 g Final Volume/Weight: 5 mL								
Pace Analytical Services - Minneapolis								
11CI-PF3OUdS	ND	ug/kg	0.79	1	12/14/24 19:15	12/16/24 15:39	763051-92-9	
3:3 FTCA	ND	ug/kg	0.99	1	12/14/24 19:15	12/16/24 15:39	356-02-5	
4:2 FTS	ND	ug/kg	0.79	1	12/14/24 19:15	12/16/24 15:39	757124-72-4	
5:3 FTCA	ND	ug/kg	4.9	1	12/14/24 19:15	12/16/24 15:39	914637-49-3	
6:2 FTS	ND	ug/kg	0.79	1	12/14/24 19:15	12/16/24 15:39	27619-97-2	

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ANALYTICAL RESULTS

Project: L1803414 WG2408649

Pace Project No.: 10717275

Sample: ATMT-BH3-SG-1.5 Lab ID: 10717275006 Collected: 11/18/24 12:30 Received: 11/27/24 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633 DRAFT Soil								
Analytical Method: EPA 1633 DRAFT Preparation Method: EPA 1633 DRAFT								
Initial Volume/Weight: 6.273 g Final Volume/Weight: 5 mL								
Pace Analytical Services - Minneapolis								
7:3 FTCA	ND	ug/kg	4.9	1	12/14/24 19:15	12/16/24 15:39	812-70-4	
8:2 FTS	ND	ug/kg	0.79	1	12/14/24 19:15	12/16/24 15:39	39108-34-4	
9CI-PF3ONS	ND	ug/kg	0.79	1	12/14/24 19:15	12/16/24 15:39	756426-58-1	
ADONA	ND	ug/kg	0.79	1	12/14/24 19:15	12/16/24 15:39	919005-14-4	
HFPO-DA	ND	ug/kg	0.79	1	12/14/24 19:15	12/16/24 15:39	13252-13-6	
NEtFOSAA	ND	ug/kg	0.20	1	12/14/24 19:15	12/16/24 15:39	2991-50-6	
NEtFOSA	ND	ug/kg	0.20	1	12/14/24 19:15	12/16/24 15:39	4151-50-2	
NEtFOSE	ND	ug/kg	2.0	1	12/14/24 19:15	12/16/24 15:39	1691-99-2	
NFDHA	ND	ug/kg	0.39	1	12/14/24 19:15	12/16/24 15:39	151772-58-6	
NMeFOSAA	ND	ug/kg	0.20	1	12/14/24 19:15	12/16/24 15:39	2355-31-9	
NMeFOSA	ND	ug/kg	0.20	1	12/14/24 19:15	12/16/24 15:39	31506-32-8	
NMeFOSE	ND	ug/kg	2.0	1	12/14/24 19:15	12/16/24 15:39	24448-09-7	
PFBS	ND	ug/kg	0.20	1	12/14/24 19:15	12/16/24 15:39	375-73-5	
PFDA	ND	ug/kg	0.20	1	12/14/24 19:15	12/16/24 15:39	335-76-2	
PFHxA	ND	ug/kg	0.20	1	12/14/24 19:15	12/16/24 15:39	307-24-4	
PFBA	ND	ug/kg	0.79	1	12/14/24 19:15	12/16/24 15:39	375-22-4	
PFDS	ND	ug/kg	0.20	1	12/14/24 19:15	12/16/24 15:39	335-77-3	
PFDoS	ND	ug/kg	0.20	1	12/14/24 19:15	12/16/24 15:39	79780-39-5	
PFEESA	ND	ug/kg	0.39	1	12/14/24 19:15	12/16/24 15:39	113507-82-7	
PFHpS	ND	ug/kg	0.20	1	12/14/24 19:15	12/16/24 15:39	375-92-8	
PFMBA	ND	ug/kg	0.39	1	12/14/24 19:15	12/16/24 15:39	863090-89-5	
PFMPA	ND	ug/kg	0.39	1	12/14/24 19:15	12/16/24 15:39	377-73-1	
PFNS	ND	ug/kg	0.20	1	12/14/24 19:15	12/16/24 15:39	68259-12-1	
PFOSA	ND	ug/kg	0.20	1	12/14/24 19:15	12/16/24 15:39	754-91-6	
PFPeA	ND	ug/kg	0.39	1	12/14/24 19:15	12/16/24 15:39	2706-90-3	
PFPeS	ND	ug/kg	0.20	1	12/14/24 19:15	12/16/24 15:39	2706-91-4	
PFDoA	ND	ug/kg	0.20	1	12/14/24 19:15	12/16/24 15:39	307-55-1	
PFHpA	ND	ug/kg	0.20	1	12/14/24 19:15	12/16/24 15:39	375-85-9	
PFHxS	ND	ug/kg	0.20	1	12/14/24 19:15	12/16/24 15:39	355-46-4	
PFNA	ND	ug/kg	0.20	1	12/14/24 19:15	12/16/24 15:39	375-95-1	
PFOS	0.50	ug/kg	0.20	1	12/14/24 19:15	12/16/24 15:39	1763-23-1	
PFOA	ND	ug/kg	0.20	1	12/14/24 19:15	12/16/24 15:39	335-67-1	
PFTeDA	ND	ug/kg	0.20	1	12/14/24 19:15	12/16/24 15:39	376-06-7	
PFTTrDA	ND	ug/kg	0.20	1	12/14/24 19:15	12/16/24 15:39	72629-94-8	
PFUnA	ND	ug/kg	0.20	1	12/14/24 19:15	12/16/24 15:39	2058-94-8	
Surrogates								
13C2-PFDoA (S)	82	%	40-130	1	12/14/24 19:15	12/16/24 15:39		
13C3HFPO-DA (S)	94	%	40-130	1	12/14/24 19:15	12/16/24 15:39		
13C3-PFBS (S)	93	%	40-135	1	12/14/24 19:15	12/16/24 15:39		
13C3-PFHxS (S)	94	%	40-130	1	12/14/24 19:15	12/16/24 15:39		
13C4-PFBA (S)	89	%	8-130	1	12/14/24 19:15	12/16/24 15:39		
13C4-PFHpA (S)	88	%	40-130	1	12/14/24 19:15	12/16/24 15:39		
13C5-PFHxA (S)	88	%	40-130	1	12/14/24 19:15	12/16/24 15:39		
13C5-PFPeA (S)	91	%	35-130	1	12/14/24 19:15	12/16/24 15:39		

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**ANALYTICAL RESULTS**

Project: L1803414 WG2408649

Pace Project No.: 10717275

Sample: ATMT-BH3-SG-1.5 Lab ID: **10717275006** Collected: 11/18/24 12:30 Received: 11/27/24 08:50 Matrix: Solid*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633 DRAFT Soil								
Analytical Method: EPA 1633 DRAFT Preparation Method: EPA 1633 DRAFT								
Initial Volume/Weight: 6.273 g Final Volume/Weight: 5 mL								
Pace Analytical Services - Minneapolis								
Surrogates								
13C6-PFDA (S)	88	%	40-130	1	12/14/24 19:15	12/16/24 15:39		
13C8-PFOA (S)	93	%	40-130	1	12/14/24 19:15	12/16/24 15:39		
13C8-PFOS (S)	93	%	40-130	1	12/14/24 19:15	12/16/24 15:39		
13C8-PFOA (S)	74	%	40-130	1	12/14/24 19:15	12/16/24 15:39		
13C9-PFNA (S)	88	%	40-130	1	12/14/24 19:15	12/16/24 15:39		
d3-MeFOSAA (S)	78	%	40-135	1	12/14/24 19:15	12/16/24 15:39		
d3-NMeFOSA (S)	46	%	10-130	1	12/14/24 19:15	12/16/24 15:39		
d5-EtFOSAA (S)	80	%	40-150	1	12/14/24 19:15	12/16/24 15:39		
d5-NEtFOSA (S)	36	%	10-130	1	12/14/24 19:15	12/16/24 15:39		
d7-NMeFOSE (S)	69	%	20-130	1	12/14/24 19:15	12/16/24 15:39		
d9-NEtFOSE (S)	64	%	15-130	1	12/14/24 19:15	12/16/24 15:39		
13C2-PFTA (S)	67	%	20-130	1	12/14/24 19:15	12/16/24 15:39		
13C7-PFUDa (S)	89	%	40-130	1	12/14/24 19:15	12/16/24 15:39		
13C24:2FTS (S)	109	%	40-165	1	12/14/24 19:15	12/16/24 15:39		
13C26:2FTS (S)	128	%	40-215	1	12/14/24 19:15	12/16/24 15:39		
13C28:2FTS (S)	125	%	40-275	1	12/14/24 19:15	12/16/24 15:39		

Sample: ATMT-BH3-SG-8 Lab ID: **10717275007** Collected: 11/18/24 15:05 Received: 11/27/24 08:50 Matrix: Solid*Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.*

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Dry Weight / %M by ASTM D2974								
Analytical Method: ASTM D2974								
Pace Analytical Services - Minneapolis								
Percent Moisture	31.3	%	0.10	1		12/05/24 16:08		N2
EPA 1633 DRAFT Soil								
Analytical Method: EPA 1633 DRAFT Preparation Method: EPA 1633 DRAFT								
Initial Volume/Weight: 7.369 g Final Volume/Weight: 5 mL								
Pace Analytical Services - Minneapolis								
11CI-PF3OUdS	ND	ug/kg	0.79	1	12/14/24 19:15	12/16/24 15:54	763051-92-9	
3:3 FTCA	ND	ug/kg	0.99	1	12/14/24 19:15	12/16/24 15:54	356-02-5	
4:2 FTS	ND	ug/kg	0.79	1	12/14/24 19:15	12/16/24 15:54	757124-72-4	
5:3 FTCA	ND	ug/kg	4.9	1	12/14/24 19:15	12/16/24 15:54	914637-49-3	
6:2 FTS	ND	ug/kg	0.79	1	12/14/24 19:15	12/16/24 15:54	27619-97-2	
7:3 FTCA	ND	ug/kg	4.9	1	12/14/24 19:15	12/16/24 15:54	812-70-4	
8:2 FTS	ND	ug/kg	0.79	1	12/14/24 19:15	12/16/24 15:54	39108-34-4	
9CI-PF3ONS	ND	ug/kg	0.79	1	12/14/24 19:15	12/16/24 15:54	756426-58-1	
ADONA	ND	ug/kg	0.79	1	12/14/24 19:15	12/16/24 15:54	919005-14-4	
HFPO-DA	ND	ug/kg	0.79	1	12/14/24 19:15	12/16/24 15:54	13252-13-6	
NEtFOSAA	ND	ug/kg	0.20	1	12/14/24 19:15	12/16/24 15:54	2991-50-6	
NEtFOSA	ND	ug/kg	0.20	1	12/14/24 19:15	12/16/24 15:54	4151-50-2	
NEtFOSE	ND	ug/kg	2.0	1	12/14/24 19:15	12/16/24 15:54	1691-99-2	

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ANALYTICAL RESULTS

Project: L1803414 WG2408649

Pace Project No.: 10717275

Sample: ATMT-BH3-SG-8 Lab ID: 10717275007 Collected: 11/18/24 15:05 Received: 11/27/24 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633 DRAFT Soil								
Analytical Method: EPA 1633 DRAFT Preparation Method: EPA 1633 DRAFT								
Initial Volume/Weight: 7.369 g Final Volume/Weight: 5 mL								
Pace Analytical Services - Minneapolis								
NFDHA	ND	ug/kg	0.40	1	12/14/24 19:15	12/16/24 15:54	151772-58-6	
NMeFOSAA	ND	ug/kg	0.20	1	12/14/24 19:15	12/16/24 15:54	2355-31-9	
NMeFOSA	ND	ug/kg	0.20	1	12/14/24 19:15	12/16/24 15:54	31506-32-8	
NMeFOSE	ND	ug/kg	2.0	1	12/14/24 19:15	12/16/24 15:54	24448-09-7	
PFBS	ND	ug/kg	0.20	1	12/14/24 19:15	12/16/24 15:54	375-73-5	
PFDA	ND	ug/kg	0.20	1	12/14/24 19:15	12/16/24 15:54	335-76-2	
PFHxA	ND	ug/kg	0.20	1	12/14/24 19:15	12/16/24 15:54	307-24-4	
PFBA	ND	ug/kg	0.79	1	12/14/24 19:15	12/16/24 15:54	375-22-4	
PFDS	ND	ug/kg	0.20	1	12/14/24 19:15	12/16/24 15:54	335-77-3	
PFDoS	ND	ug/kg	0.20	1	12/14/24 19:15	12/16/24 15:54	79780-39-5	
PFEESA	ND	ug/kg	0.40	1	12/14/24 19:15	12/16/24 15:54	113507-82-7	
PFHpS	ND	ug/kg	0.20	1	12/14/24 19:15	12/16/24 15:54	375-92-8	
PFMBA	ND	ug/kg	0.40	1	12/14/24 19:15	12/16/24 15:54	863090-89-5	
PFMPA	ND	ug/kg	0.40	1	12/14/24 19:15	12/16/24 15:54	377-73-1	
PFNS	ND	ug/kg	0.20	1	12/14/24 19:15	12/16/24 15:54	68259-12-1	
PFOSA	ND	ug/kg	0.20	1	12/14/24 19:15	12/16/24 15:54	754-91-6	
PFPeA	ND	ug/kg	0.40	1	12/14/24 19:15	12/16/24 15:54	2706-90-3	
PFPeS	ND	ug/kg	0.20	1	12/14/24 19:15	12/16/24 15:54	2706-91-4	
PFDoA	ND	ug/kg	0.20	1	12/14/24 19:15	12/16/24 15:54	307-55-1	
PFHpA	ND	ug/kg	0.20	1	12/14/24 19:15	12/16/24 15:54	375-85-9	
PFHxS	ND	ug/kg	0.20	1	12/14/24 19:15	12/16/24 15:54	355-46-4	
PFNA	ND	ug/kg	0.20	1	12/14/24 19:15	12/16/24 15:54	375-95-1	
PFOS	ND	ug/kg	0.20	1	12/14/24 19:15	12/16/24 15:54	1763-23-1	
PFOA	ND	ug/kg	0.20	1	12/14/24 19:15	12/16/24 15:54	335-67-1	
PFTeDA	ND	ug/kg	0.20	1	12/14/24 19:15	12/16/24 15:54	376-06-7	
PFTrDA	ND	ug/kg	0.20	1	12/14/24 19:15	12/16/24 15:54	72629-94-8	
PFUnA	ND	ug/kg	0.20	1	12/14/24 19:15	12/16/24 15:54	2058-94-8	
Surrogates								
13C2-PFDoA (S)	89	%	40-130	1	12/14/24 19:15	12/16/24 15:54		
13C3HFPO-DA (S)	98	%	40-130	1	12/14/24 19:15	12/16/24 15:54		
13C3-PFBS (S)	101	%	40-135	1	12/14/24 19:15	12/16/24 15:54		
13C3-PFHxS (S)	97	%	40-130	1	12/14/24 19:15	12/16/24 15:54		
13C4-PFBA (S)	90	%	8-130	1	12/14/24 19:15	12/16/24 15:54		
13C4-PFHpA (S)	89	%	40-130	1	12/14/24 19:15	12/16/24 15:54		
13C5-PFHxA (S)	92	%	40-130	1	12/14/24 19:15	12/16/24 15:54		
13C5-PFPeA (S)	94	%	35-130	1	12/14/24 19:15	12/16/24 15:54		
13C6-PFDA (S)	90	%	40-130	1	12/14/24 19:15	12/16/24 15:54		
13C8-PFOA (S)	93	%	40-130	1	12/14/24 19:15	12/16/24 15:54		
13C8-PFOS (S)	96	%	40-130	1	12/14/24 19:15	12/16/24 15:54		
13C8-PFOSA (S)	85	%	40-130	1	12/14/24 19:15	12/16/24 15:54		
13C9-PFNA (S)	89	%	40-130	1	12/14/24 19:15	12/16/24 15:54		
d3-MeFOSAA (S)	79	%	40-135	1	12/14/24 19:15	12/16/24 15:54		
d3-NMeFOSA (S)	58	%	10-130	1	12/14/24 19:15	12/16/24 15:54		
d5-EtFOSAA (S)	83	%	40-150	1	12/14/24 19:15	12/16/24 15:54		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: L1803414 WG2408649

Pace Project No.: 10717275

Sample: ATMT-BH3-SG-8 Lab ID: 10717275007 Collected: 11/18/24 15:05 Received: 11/27/24 08:50 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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EPA 1633 DRAFT Soil

Analytical Method: EPA 1633 DRAFT Preparation Method: EPA 1633 DRAFT

Initial Volume/Weight: 7.369 g Final Volume/Weight: 5 mL

Pace Analytical Services - Minneapolis

Surrogates

d5-NEtFOSA (S)	52	%.	10-130	1	12/14/24 19:15	12/16/24 15:54		
d7-NMeFOSE (S)	83	%.	20-130	1	12/14/24 19:15	12/16/24 15:54		
d9-NEtFOSE (S)	86	%.	15-130	1	12/14/24 19:15	12/16/24 15:54		
13C2-PFTA (S)	89	%.	20-130	1	12/14/24 19:15	12/16/24 15:54		
13C7-PFUdA (S)	93	%.	40-130	1	12/14/24 19:15	12/16/24 15:54		
13C24:2FTS (S)	106	%.	40-165	1	12/14/24 19:15	12/16/24 15:54		
13C26:2FTS (S)	109	%.	40-215	1	12/14/24 19:15	12/16/24 15:54		
13C28:2FTS (S)	102	%.	40-275	1	12/14/24 19:15	12/16/24 15:54		

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QUALITY CONTROL DATA

Project: L1803414 WG2408649

Pace Project No.: 10717275

QC Batch: 983070

Analysis Method: ASTM D2974

QC Batch Method: ASTM D2974

Analysis Description: Dry Weight / %M by ASTM D2974

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10717275001, 10717275002, 10717275003, 10717275004, 10717275005, 10717275006, 10717275007

SAMPLE DUPLICATE: 5135588

Parameter	Units	10717421001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	10.2	10.8	6	30	N2

SAMPLE DUPLICATE: 5135589

Parameter	Units	10717275004 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	16.8	16.6	1	30	N2

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QUALITY CONTROL DATA

Project: L1803414 WG2408649

Pace Project No.: 10717275

QC Batch: 983537 Analysis Method: EPA 1633 DRAFT

QC Batch Method: EPA 1633 DRAFT Analysis Description: 1633 SL

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10717275001, 10717275002, 10717275003, 10717275004, 10717275005

METHOD BLANK: 5138131 Matrix: Solid

Associated Lab Samples: 10717275001, 10717275002, 10717275003, 10717275004, 10717275005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
11CI-PF3OUdS	ug/kg	ND	0.80	12/12/24 19:42	
3:3 FTCA	ug/kg	ND	1.0	12/12/24 19:42	
4:2 FTS	ug/kg	ND	0.80	12/12/24 19:42	
5:3 FTCA	ug/kg	ND	5.0	12/12/24 19:42	
6:2 FTS	ug/kg	ND	0.80	12/12/24 19:42	
7:3 FTCA	ug/kg	ND	5.0	12/12/24 19:42	
8:2 FTS	ug/kg	ND	0.80	12/12/24 19:42	
9CI-PF3ONS	ug/kg	ND	0.80	12/12/24 19:42	
ADONA	ug/kg	ND	0.80	12/12/24 19:42	
HFPO-DA	ug/kg	ND	0.80	12/12/24 19:42	
NEtFOSA	ug/kg	ND	0.20	12/12/24 19:42	
NEtFOSAA	ug/kg	ND	0.20	12/12/24 19:42	
NEtFOSE	ug/kg	ND	2.0	12/12/24 19:42	
NFDHA	ug/kg	ND	0.40	12/12/24 19:42	
NMeFOSA	ug/kg	ND	0.20	12/12/24 19:42	
NMeFOSAA	ug/kg	ND	0.20	12/12/24 19:42	
NMeFOSE	ug/kg	ND	2.0	12/12/24 19:42	
PFBA	ug/kg	ND	0.80	12/12/24 19:42	
PFBS	ug/kg	ND	0.20	12/12/24 19:42	
PFDA	ug/kg	ND	0.20	12/12/24 19:42	
PFDoA	ug/kg	ND	0.20	12/12/24 19:42	
PFDoS	ug/kg	ND	0.20	12/12/24 19:42	
PFDS	ug/kg	ND	0.20	12/12/24 19:42	
PFEESA	ug/kg	ND	0.40	12/12/24 19:42	
PFHpA	ug/kg	ND	0.20	12/12/24 19:42	
PFHpS	ug/kg	ND	0.20	12/12/24 19:42	
PFHxA	ug/kg	ND	0.20	12/12/24 19:42	
PFHxS	ug/kg	ND	0.20	12/12/24 19:42	
PFMBA	ug/kg	ND	0.40	12/12/24 19:42	
PFMPA	ug/kg	ND	0.40	12/12/24 19:42	
PFNA	ug/kg	ND	0.20	12/12/24 19:42	
PFNS	ug/kg	ND	0.20	12/12/24 19:42	
PFOA	ug/kg	ND	0.20	12/12/24 19:42	
PFOS	ug/kg	ND	0.20	12/12/24 19:42	
PFOSA	ug/kg	ND	0.20	12/12/24 19:42	
PFPeA	ug/kg	ND	0.40	12/12/24 19:42	
PFPeS	ug/kg	ND	0.20	12/12/24 19:42	
PFTeDA	ug/kg	ND	0.20	12/12/24 19:42	
PFTrDA	ug/kg	ND	0.20	12/12/24 19:42	
PFUnA	ug/kg	ND	0.20	12/12/24 19:42	

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QUALITY CONTROL DATA

Project: L1803414 WG2408649

Pace Project No.: 10717275

METHOD BLANK: 5138131

Matrix: Solid

Associated Lab Samples: 10717275001, 10717275002, 10717275003, 10717275004, 10717275005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
13C2-PFDoA (S)	%	105	40-130	12/12/24 19:42	
13C2-PFTA (S)	%	108	20-130	12/12/24 19:42	
13C24:2FTS (S)	%	96	40-165	12/12/24 19:42	
13C26:2FTS (S)	%	178	40-215	12/12/24 19:42	
13C28:2FTS (S)	%	201	40-275	12/12/24 19:42	
13C3-PFBS (S)	%	105	40-135	12/12/24 19:42	
13C3-PFHxS (S)	%	107	40-130	12/12/24 19:42	
13C3HFPO-DA (S)	%	88	40-130	12/12/24 19:42	
13C4-PFBA (S)	%	92	8-130	12/12/24 19:42	
13C4-PFHpA (S)	%	91	40-130	12/12/24 19:42	
13C5-PFHxA (S)	%	93	40-130	12/12/24 19:42	
13C5-PFPeA (S)	%	94	35-130	12/12/24 19:42	
13C6-PFDA (S)	%	103	40-130	12/12/24 19:42	
13C7-PFUdA (S)	%	105	40-130	12/12/24 19:42	
13C8-PFOA (S)	%	94	40-130	12/12/24 19:42	
13C8-PFOS (S)	%	105	40-130	12/12/24 19:42	
13C8-PFOA (S)	%	79	40-130	12/12/24 19:42	
13C9-PFNA (S)	%	95	40-130	12/12/24 19:42	
d3-MeFOSAA (S)	%	130	40-135	12/12/24 19:42	
d3-NMeFOSA (S)	%	44	10-130	12/12/24 19:42	
d5-EtFOSAA (S)	%	126	40-150	12/12/24 19:42	
d5-NEtFOSA (S)	%	43	10-130	12/12/24 19:42	
d7-NMeFOSE (S)	%	61	20-130	12/12/24 19:42	
d9-NEtFOSE (S)	%	67	15-130	12/12/24 19:42	

LABORATORY CONTROL SAMPLE & LCSD: 5138132

5138133

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
11CI-PF3OUdS	ug/kg	9.1	10.2	9.2	112	102	45-160	9	30	
3:3 FTCA	ug/kg	12	9.6	9.6	80	80	45-130	0	30	
4:2 FTS	ug/kg	9	9.1	8.0	101	89	60-150	12	30	
5:3 FTCA	ug/kg	60	51.0	50.3	85	84	60-130	1	30	
6:2 FTS	ug/kg	9.1	9.0	8.3	98	91	55-200	7	30	
7:3 FTCA	ug/kg	60	51.5	51.1	86	85	60-150	1	30	
8:2 FTS	ug/kg	9.2	9.5	8.6	102	93	70-150	9	30	
9CI-PF3ONS	ug/kg	9	9.8	9.2	109	102	70-150	6	30	
ADONA	ug/kg	9.1	8.8	8.1	97	89	70-160	9	30	
HFPO-DA	ug/kg	9.6	9.0	8.2	94	86	70-145	9	30	
NEtFOSA	ug/kg	2.4	2.3	2.1	97	87	70-140	10	30	
NEtFOSAA	ug/kg	2.4	2.2	1.9	91	81	65-165	12	30	
NEtFOSE	ug/kg	24	23.7	21.8	99	91	70-135	8	30	
NFDHA	ug/kg	4.8	4.4	3.8	92	79	60-155	16	30	
NMeFOSA	ug/kg	2.4	2.4	2.2	98	91	70-155	7	30	
NMeFOSAA	ug/kg	2.4	2.4	2.0	100	85	65-155	16	30	

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QUALITY CONTROL DATA

Project: L1803414 WG2408649

Pace Project No.: 10717275

LABORATORY CONTROL SAMPLE & LCSD: 5138132			5138133								
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers	
NMeFOSE	ug/kg	24	23.4	20.6	97	86	70-140	13	30		
PFBA	ug/kg	9.6	9.0	8.0	94	84	70-140	11	30		
PFBS	ug/kg	2.1	2.0	1.8	92	84	65-145	9	30		
PFDA	ug/kg	2.4	2.2	2.0	90	84	70-155	7	30		
PFDaA	ug/kg	2.4	2.2	2.1	93	88	70-150	6	30		
PFDoS	ug/kg	2.3	2.2	1.8	97	79	25-160	20	30		
PFDS	ug/kg	2.3	2.2	2.0	96	85	40-155	13	30		
PFEESA	ug/kg	4.3	4.3	3.7	100	86	70-140	15	30		
PFHpA	ug/kg	2.4	2.3	2.0	97	84	65-145	14	30		
PFHpS	ug/kg	2.3	2.2	1.9	95	85	65-155	11	30		
PFHxA	ug/kg	2.4	2.3	2.1	94	86	65-140	9	30		
PFHxS	ug/kg	2.2	2.0	1.9	92	87	60-150	6	30		
PFMBA	ug/kg	4.8	4.5	4.0	94	84	60-150	12	30		
PFMPA	ug/kg	4.8	4.4	3.9	92	81	30-140	13	30		
PFNA	ug/kg	2.4	2.2	2.0	90	82	70-155	10	30		
PFNS	ug/kg	2.3	2.2	1.9	93	82	55-140	13	30		
PFOA	ug/kg	2.4	2.1	2.0	89	81	70-150	9	30		
PFOS	ug/kg	2.2	2.1	1.8	93	82	65-160	12	30		
PFOSA	ug/kg	2.4	2.2	2.0	92	84	70-140	9	30		
PFPeA	ug/kg	4.8	4.6	4.1	95	86	60-150	10	30		
PFPeS	ug/kg	2.3	2.2	1.9	96	86	55-160	12	30		
PFTeDA	ug/kg	2.4	2.3	2.1	95	87	65-150	8	30		
PFTrDA	ug/kg	2.4	2.4	2.2	102	93	65-150	9	30		
PFUnA	ug/kg	2.4	2.3	2.0	96	85	70-155	12	30		
13C2-PFDoA (S)	%				96	96	40-130				
13C2-PFTA (S)	%				102	100	20-130				
13C24:2FTS (S)	%				81	85	40-165				
13C26:2FTS (S)	%				134	136	40-215				
13C28:2FTS (S)	%				178	189	40-275				
13C3-PFBS (S)	%				99	97	40-135				
13C3-PFHxS (S)	%				95	95	40-130				
13C3HFPO-DA (S)	%				92	90	40-130				
13C4-PFBA (S)	%				92	91	8-130				
13C4-PFHpA (S)	%				92	94	40-130				
13C5-PFHxA (S)	%				92	90	40-130				
13C5-PFPeA (S)	%				92	91	35-130				
13C6-PFDA (S)	%				95	94	40-130				
13C7-PFUDa (S)	%				96	99	40-130				
13C8-PFOA (S)	%				98	91	40-130				
13C8-PFOS (S)	%				93	93	40-130				
13C8-PFOSA (S)	%				88	84	40-130				
13C9-PFNA (S)	%				96	97	40-130				
d3-MeFOSAA (S)	%				115	114	40-135				
d3-NMeFOSA (S)	%				48	47	10-130				
d5-EtFOSAA (S)	%				121	119	40-150				
d5-NEtFOSA (S)	%				47	46	10-130				
d7-NMeFOSE (S)	%				64	61	20-130				

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QUALITY CONTROL DATA

Project: L1803414 WG2408649

Pace Project No.: 10717275

LABORATORY CONTROL SAMPLE & LCSD: 5138132		5138133		LCS	LCSD	% Rec		Max		
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	% Rec	% Rec	Limits	RPD	RPD	Qualifiers
d9-NEtFOSE (S)	%				71	65	15-130			

LABORATORY CONTROL SAMPLE: 5138134		Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Parameter	Units					
11CI-PF3OUdS	ug/kg	0.76	.78J	103	45-160	
3:3 FTCA	ug/kg	1	.96J	96	45-130	
4:2 FTS	ug/kg	0.75	.71J	94	60-150	
5:3 FTCA	ug/kg	5	4.6J	93	60-130	
6:2 FTS	ug/kg	0.76	.71J	94	55-200	
7:3 FTCA	ug/kg	5	4.6J	92	60-150	
8:2 FTS	ug/kg	0.77	.72J	94	70-150	
9CI-PF3ONS	ug/kg	0.75	ND	106	70-150	
ADONA	ug/kg	0.76	.74J	98	70-160	
HFPO-DA	ug/kg	0.8	.7J	87	70-145	
NEtFOSA	ug/kg	0.2	.18J	88	70-140	
NEtFOSAA	ug/kg	0.2	.16J	82	65-165	
NEtFOSE	ug/kg	2	1.9J	96	70-135	
NFDHA	ug/kg	0.4	.35J	86	60-155	
NMeFOSA	ug/kg	0.2	0.22	109	70-155	
NMeFOSAA	ug/kg	0.2	0.22	109	65-155	
NMeFOSE	ug/kg	2	1.9J	96	70-140	
PFBA	ug/kg	0.8	.75J	93	70-140	
PFBS	ug/kg	0.18	.16J	88	65-145	
PFDA	ug/kg	0.2	.18J	88	70-155	
PFDoA	ug/kg	0.2	.17J	85	70-150	
PFDoS	ug/kg	0.19	.15J	78	25-160	
PFDS	ug/kg	0.19	.17J	88	40-155	
PFEESA	ug/kg	0.36	.32J	90	70-140	
PFHpA	ug/kg	0.2	.18J	89	65-145	
PFHpS	ug/kg	0.19	.16J	85	65-155	
PFHxA	ug/kg	0.2	.17J	87	65-140	
PFHxS	ug/kg	0.18	.17J	94	60-150	
PFMBA	ug/kg	0.4	.39J	96	60-150	
PFMPA	ug/kg	0.4	ND	99	30-140	
PFNA	ug/kg	0.2	.17J	84	70-155	
PFNS	ug/kg	0.19	.16J	85	55-140	
PFOA	ug/kg	0.2	.16J	80	70-150	
PFOS	ug/kg	0.19	.19J	101	65-160	
PFOSA	ug/kg	0.2	.18J	89	70-140	
PFPeA	ug/kg	0.4	.37J	94	60-150	
PFPeS	ug/kg	0.19	.16J	85	55-160	
PFTeDA	ug/kg	0.2	.17J	87	65-150	
PFTrDA	ug/kg	0.2	.18J	91	65-150	
PFUnA	ug/kg	0.2	.17J	87	70-155	

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QUALITY CONTROL DATA

Project: L1803414 WG2408649

Pace Project No.: 10717275

LABORATORY CONTROL SAMPLE: 5138134

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
13C2-PFDoA (S)	%			93	40-130	
13C2-PFTA (S)	%			95	20-130	
13C24:2FTS (S)	%			128	40-165	
13C26:2FTS (S)	%			202	40-215	
13C28:2FTS (S)	%			298	40-275	S0
13C3-PFBS (S)	%			98	40-135	
13C3-PFHxS (S)	%			96	40-130	
13C3HFPO-DA (S)	%			83	40-130	
13C4-PFBA (S)	%			88	8-130	
13C4-PFHpA (S)	%			89	40-130	
13C5-PFHxA (S)	%			89	40-130	
13C5-PFPeA (S)	%			87	35-130	
13C6-PFDA (S)	%			92	40-130	
13C7-PFUDa (S)	%			94	40-130	
13C8-PFOA (S)	%			97	40-130	
13C8-PFOS (S)	%			92	40-130	
13C8-PFOSA (S)	%			81	40-130	
13C9-PFNA (S)	%			89	40-130	
d3-MeFOSAA (S)	%			119	40-135	
d3-NMeFOSA (S)	%			36	10-130	
d5-EtFOSAA (S)	%			134	40-150	
d5-NEtFOSA (S)	%			36	10-130	
d7-NMeFOSE (S)	%			53	20-130	
d9-NEtFOSE (S)	%			55	15-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5138135 5138136

Parameter	Units	5138135		5138136		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		10717275004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
11CI-PF3OUdS	ug/kg	ND	8.9	9	8.9	9.2	101	102	40-150	3	30	
3:3 FTCA	ug/kg	ND	11.7	11.9	9.1	9.0	78	75	40-150	2	30	
4:2 FTS	ug/kg	ND	8.8	8.9	9.2	8.6	105	97	40-150	7	30	
5:3 FTCA	ug/kg	ND	58.5	59.4	42.4	41.8	72	70	40-150	1	30	
6:2 FTS	ug/kg	ND	8.9	9	9.5	9.0	107	99	40-150	6	30	
7:3 FTCA	ug/kg	ND	58.5	59.4	48.8	47.4	83	80	40-150	3	30	
8:2 FTS	ug/kg	ND	9	9.1	9.8	9.1	108	99	40-150	8	30	
9CI-PF3ONS	ug/kg	ND	8.8	8.9	8.6	8.7	98	98	40-150	1	30	
ADONA	ug/kg	ND	8.9	9	4.7	5.1	53	56	40-150	7	30	
HFPO-DA	ug/kg	ND	9.4	9.5	5.6	5.7	59	60	40-150	3	30	
NEtFOSA	ug/kg	ND	2.3	2.4	2.1	1.9	90	79	40-150	11	30	
NEtFOSAA	ug/kg	ND	2.3	2.4	2.0	1.8	85	76	40-150	9	30	
NEtFOSE	ug/kg	ND	23.4	23.8	22.0	20.1	94	85	40-150	9	30	
NFDHA	ug/kg	ND	4.7	4.8	4.1	4.2	87	88	40-150	2	30	
NMeFOSA	ug/kg	ND	2.3	2.4	2.2	2.0	95	82	40-150	13	30	
NMeFOSAA	ug/kg	ND	2.3	2.4	2.1	2.0	91	84	40-150	6	30	

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QUALITY CONTROL DATA

Project: L1803414 WG2408649

Pace Project No.: 10717275

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5138135 5138136												
Parameter	Units	MS		MSD		MS		MSD		% Rec Limits	Max RPD	Qual
		10717275004	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
NMeFOSE	ug/kg	ND	23.4	23.8	22.3	20.1	95	85	40-150	10	30	
PFBA	ug/kg	ND	9.4	9.5	9.0	8.2	92	82	40-150	9	30	
PFBS	ug/kg	0.64	2	2.2	2.7	2.5	99	87	40-150	9	30	
PFDA	ug/kg	ND	2.3	2.4	2.4	2.0	97	81	40-150	16	30	
PFDoA	ug/kg	ND	2.3	2.4	2.2	1.9	93	81	40-150	13	30	
PFDoS	ug/kg	ND	2.3	2.3	2.3	1.9	99	84	40-150	15	30	
PFDS	ug/kg	ND	2.3	2.3	2.3	2.1	100	89	40-150	9	30	
PFEESA	ug/kg	ND	4.2	4.2	3.7	3.8	88	89	40-150	2	30	
PFHpA	ug/kg	ND	2.3	2.4	2.1	2.1	84	85	40-150	2	30	
PFHpS	ug/kg	0.28	2.3	2.3	2.3	2.0	91	78	40-150	12	30	
PFHxA	ug/kg	0.43	2.3	2.4	2.6	2.4	94	84	40-150	9	30	
PFHxS	ug/kg	4.5	2.2	2.2	5.5	5.4	45	38	40-150	3	30	M1
PFMBA	ug/kg	ND	4.7	4.8	4.1	4.0	87	85	40-150	1	30	
PFMPA	ug/kg	ND	4.7	4.8	3.9	3.9	83	81	40-150	1	30	
PFNA	ug/kg	ND	2.3	2.4	2.3	2.0	93	81	40-150	12	30	
PFNS	ug/kg	ND	2.3	2.3	2.4	2.0	102	85	40-150	17	30	
PFOA	ug/kg	0.26	2.3	2.4	2.3	2.2	86	81	40-150	5	30	
PFOS	ug/kg	38.2	2.2	2.2	38.0	32.7	-8	-249	40-150	15	30	M1
PFOSA	ug/kg	ND	2.3	2.4	2.3	2.1	93	85	40-150	7	30	
PFPeA	ug/kg	0.62	4.7	4.8	5.0	4.6	93	83	40-150	8	30	
PFPeS	ug/kg	0.33	2.2	2.3	2.2	2.2	84	85	40-150	2	30	
PFTeDA	ug/kg	ND	2.3	2.4	2.3	2.0	99	85	40-150	13	30	
PFTrDA	ug/kg	ND	2.3	2.4	2.3	2.2	99	93	40-150	4	30	
PFUnA	ug/kg	ND	2.3	2.4	2.2	2.0	92	85	40-150	6	30	
13C2-PFDoA (S)	%						103	100	40-130			
13C2-PFTA (S)	%						104	105	20-130			
13C24:2FTS (S)	%						77	78	40-165			
13C26:2FTS (S)	%						134	132	40-215			
13C28:2FTS (S)	%						184	188	40-275			
13C3-PFBS (S)	%						105	102	40-135			
13C3-PFHxS (S)	%						111	110	40-130			
13C3HFPO-DA (S)	%						94	94	40-130			
13C4-PFBA (S)	%						93	93	8-130			
13C4-PFHpA (S)	%						101	96	40-130			
13C5-PFHxA (S)	%						90	95	40-130			
13C5-PFPeA (S)	%						94	97	35-130			
13C6-PFDA (S)	%						96	96	40-130			
13C7-PFUdA (S)	%						103	99	40-130			
13C8-PFOA (S)	%						103	97	40-130			
13C8-PFOS (S)	%						92	97	40-130			
13C8-PFOSA (S)	%						93	91	40-130			
13C9-PFNA (S)	%						96	98	40-130			
d3-MeFOSAA (S)	%						118	126	40-135			
d3-NMeFOSA (S)	%						83	85	10-130			
d5-EtFOSAA (S)	%						134	133	40-150			
d5-NEtFOSA (S)	%						81	81	10-130			

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QUALITY CONTROL DATA

Project: L1803414 WG2408649

Pace Project No.: 10717275

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5138135												5138136	
Parameter	Units	10717275004 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
			Spike Conc.	Spike Conc.									
d7-NMeFOSE (S)	%.							88	86	20-130			
d9-NEtFOSE (S)	%.							95	96	15-130			

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QUALITY CONTROL DATA

Project: L1803414 WG2408649

Pace Project No.: 10717275

QC Batch: 984202

Analysis Method: EPA 1633 DRAFT

QC Batch Method: EPA 1633 DRAFT

Analysis Description: 1633 SL

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10717275006, 10717275007

METHOD BLANK: 5141500

Matrix: Solid

Associated Lab Samples: 10717275006, 10717275007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
11CI-PF3OUdS	ug/kg	ND	0.80	12/16/24 14:04	
3:3 FTCA	ug/kg	ND	1.0	12/16/24 14:04	
4:2 FTS	ug/kg	ND	0.80	12/16/24 14:04	
5:3 FTCA	ug/kg	ND	5.0	12/16/24 14:04	
6:2 FTS	ug/kg	ND	0.80	12/16/24 14:04	
7:3 FTCA	ug/kg	ND	5.0	12/16/24 14:04	
8:2 FTS	ug/kg	ND	0.80	12/16/24 14:04	
9CI-PF3ONS	ug/kg	ND	0.80	12/16/24 14:04	
ADONA	ug/kg	ND	0.80	12/16/24 14:04	
HFPO-DA	ug/kg	ND	0.80	12/16/24 14:04	
NEtFOSA	ug/kg	ND	0.20	12/16/24 14:04	
NEtFOSAA	ug/kg	ND	0.20	12/16/24 14:04	
NEtFOSE	ug/kg	ND	2.0	12/16/24 14:04	
NFDHA	ug/kg	ND	0.40	12/16/24 14:04	
NMeFOSA	ug/kg	ND	0.20	12/16/24 14:04	
NMeFOSAA	ug/kg	ND	0.20	12/16/24 14:04	
NMeFOSE	ug/kg	ND	2.0	12/16/24 14:04	
PFBA	ug/kg	ND	0.80	12/16/24 14:04	
PFBS	ug/kg	ND	0.20	12/16/24 14:04	
PFDA	ug/kg	ND	0.20	12/16/24 14:04	
PFDoA	ug/kg	ND	0.20	12/16/24 14:04	
PFDoS	ug/kg	ND	0.20	12/16/24 14:04	
PFDS	ug/kg	ND	0.20	12/16/24 14:04	
PFEESA	ug/kg	ND	0.40	12/16/24 14:04	
PFHpA	ug/kg	ND	0.20	12/16/24 14:04	
PFHpS	ug/kg	ND	0.20	12/16/24 14:04	
PFHxA	ug/kg	ND	0.20	12/16/24 14:04	
PFHxS	ug/kg	ND	0.20	12/16/24 14:04	
PFMBA	ug/kg	ND	0.40	12/16/24 14:04	
PFMPA	ug/kg	ND	0.40	12/16/24 14:04	
PFNA	ug/kg	ND	0.20	12/16/24 14:04	
PFNS	ug/kg	ND	0.20	12/16/24 14:04	
PFOA	ug/kg	ND	0.20	12/16/24 14:04	
PFOS	ug/kg	ND	0.20	12/16/24 14:04	
PFOSA	ug/kg	ND	0.20	12/16/24 14:04	
PFPeA	ug/kg	ND	0.40	12/16/24 14:04	
PFPeS	ug/kg	ND	0.20	12/16/24 14:04	
PFTeDA	ug/kg	ND	0.20	12/16/24 14:04	
PFTrDA	ug/kg	ND	0.20	12/16/24 14:04	
PFUnA	ug/kg	ND	0.20	12/16/24 14:04	

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QUALITY CONTROL DATA

Project: L1803414 WG2408649

Pace Project No.: 10717275

METHOD BLANK: 5141500

Matrix: Solid

Associated Lab Samples: 10717275006, 10717275007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
13C2-PFDoA (S)	%	86	40-130	12/16/24 14:04	
13C2-PFTA (S)	%	82	20-130	12/16/24 14:04	
13C24:2FTS (S)	%	103	40-165	12/16/24 14:04	
13C26:2FTS (S)	%	109	40-215	12/16/24 14:04	
13C28:2FTS (S)	%	100	40-275	12/16/24 14:04	
13C3-PFBS (S)	%	97	40-135	12/16/24 14:04	
13C3-PFHxS (S)	%	93	40-130	12/16/24 14:04	
13C3HFPO-DA (S)	%	93	40-130	12/16/24 14:04	
13C4-PFBA (S)	%	88	8-130	12/16/24 14:04	
13C4-PFHpA (S)	%	89	40-130	12/16/24 14:04	
13C5-PFHxA (S)	%	90	40-130	12/16/24 14:04	
13C5-PFPeA (S)	%	92	35-130	12/16/24 14:04	
13C6-PFDA (S)	%	89	40-130	12/16/24 14:04	
13C7-PFUdA (S)	%	91	40-130	12/16/24 14:04	
13C8-PFOA (S)	%	90	40-130	12/16/24 14:04	
13C8-PFOS (S)	%	94	40-130	12/16/24 14:04	
13C8-PFOA (S)	%	77	40-130	12/16/24 14:04	
13C9-PFNA (S)	%	88	40-130	12/16/24 14:04	
d3-MeFOSAA (S)	%	78	40-135	12/16/24 14:04	
d3-NMeFOSA (S)	%	43	10-130	12/16/24 14:04	
d5-EtFOSAA (S)	%	79	40-150	12/16/24 14:04	
d5-NEtFOSA (S)	%	43	10-130	12/16/24 14:04	
d7-NMeFOSE (S)	%	61	20-130	12/16/24 14:04	
d9-NEtFOSE (S)	%	64	15-130	12/16/24 14:04	

LABORATORY CONTROL SAMPLE & LCSD: 5141501

5141502

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
11CI-PF3OUdS	ug/kg	9.1	8.9	8.7	98	96	45-160	2	30	
3:3 FTCA	ug/kg	12	10.6	10.4	89	87	45-130	2	30	
4:2 FTS	ug/kg	9	8.6	8.8	96	98	60-150	2	30	
5:3 FTCA	ug/kg	60	48.7	50.1	81	84	60-130	3	30	
6:2 FTS	ug/kg	9.1	8.7	8.9	96	98	55-200	2	30	
7:3 FTCA	ug/kg	60	48.7	50.5	81	84	60-150	4	30	
8:2 FTS	ug/kg	9.2	9.8	9.2	107	100	70-150	6	30	
9CI-PF3ONS	ug/kg	9	9.1	8.8	101	98	70-150	3	30	
ADONA	ug/kg	9.1	8.5	8.3	94	92	70-160	3	30	
HFPO-DA	ug/kg	9.6	9.9	9.5	103	99	70-145	4	30	
NEtFOSA	ug/kg	2.4	2.5	2.7	105	111	70-140	6	30	
NEtFOSAA	ug/kg	2.4	2.2	2.3	93	94	65-165	1	30	
NEtFOSE	ug/kg	24	23.4	24.0	98	100	70-135	2	30	
NFDHA	ug/kg	4.8	4.7	4.7	98	99	60-155	0	30	
NMeFOSA	ug/kg	2.4	2.5	2.7	103	113	70-155	9	30	
NMeFOSAA	ug/kg	2.4	2.2	2.3	93	97	65-155	4	30	

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QUALITY CONTROL DATA

Project: L1803414 WG2408649

Pace Project No.: 10717275

LABORATORY CONTROL SAMPLE & LCSD: 5141501

5141502

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
NMeFOSE	ug/kg	24	23.5	23.8	98	99	70-140	1	30	
PFBA	ug/kg	9.6	9.4	9.2	98	96	70-140	2	30	
PFBS	ug/kg	2.1	2.1	2.0	97	94	65-145	2	30	
PFDA	ug/kg	2.4	2.3	2.3	95	95	70-155	1	30	
PFDaA	ug/kg	2.4	2.4	2.4	99	100	70-150	1	30	
PFDoS	ug/kg	2.3	2.1	2.2	90	93	25-160	3	30	
PFDS	ug/kg	2.3	2.2	2.2	93	94	40-155	1	30	
PFEESA	ug/kg	4.3	4.0	4.0	94	93	70-140	0	30	
PFHpA	ug/kg	2.4	2.4	2.4	99	98	65-145	1	30	
PFHpS	ug/kg	2.3	2.1	2.2	92	95	65-155	4	30	
PFHxA	ug/kg	2.4	2.2	2.2	93	94	65-140	1	30	
PFHxS	ug/kg	2.2	2.1	2.1	93	96	60-150	3	30	
PFMBA	ug/kg	4.8	4.9	4.7	101	98	60-150	4	30	
PFMPA	ug/kg	4.8	5.2	5.0	109	105	30-140	4	30	
PFNA	ug/kg	2.4	2.4	2.4	99	99	70-155	0	30	
PFNS	ug/kg	2.3	2.2	2.2	93	95	55-140	1	30	
PFOA	ug/kg	2.4	2.2	2.2	92	91	70-150	1	30	
PFOS	ug/kg	2.2	2.0	2.1	91	95	65-160	5	30	
PFOSA	ug/kg	2.4	2.3	2.3	97	97	70-140	1	30	
PFPeA	ug/kg	4.8	4.7	4.7	98	98	60-150	0	30	
PFPeS	ug/kg	2.3	2.2	2.2	96	97	55-160	1	30	
PFTeDA	ug/kg	2.4	2.5	2.4	102	101	65-150	1	30	
PFTrDA	ug/kg	2.4	2.3	2.4	98	99	65-150	1	30	
PFUnA	ug/kg	2.4	2.3	2.3	97	97	70-155	0	30	
13C2-PFDoA (S)	%				87	89	40-130			
13C2-PFTA (S)	%				83	87	20-130			
13C24:2FTS (S)	%				102	102	40-165			
13C26:2FTS (S)	%				108	110	40-215			
13C28:2FTS (S)	%				94	100	40-275			
13C3-PFBS (S)	%				100	102	40-135			
13C3-PFHxS (S)	%				98	99	40-130			
13C3HFPO-DA (S)	%				93	95	40-130			
13C4-PFBA (S)	%				90	94	8-130			
13C4-PFHpA (S)	%				89	92	40-130			
13C5-PFHxA (S)	%				92	94	40-130			
13C5-PFPeA (S)	%				94	96	35-130			
13C6-PFDA (S)	%				89	92	40-130			
13C7-PFUDa (S)	%				90	95	40-130			
13C8-PFOA (S)	%				94	101	40-130			
13C8-PFOS (S)	%				97	95	40-130			
13C8-PFOSA (S)	%				81	83	40-130			
13C9-PFNA (S)	%				90	90	40-130			
d3-MeFOSAA (S)	%				81	83	40-135			
d3-NMeFOSA (S)	%				46	44	10-130			
d5-EtFOSAA (S)	%				83	85	40-150			
d5-NEtFOSA (S)	%				43	43	10-130			
d7-NMeFOSE (S)	%				64	65	20-130			

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QUALITY CONTROL DATA

Project: L1803414 WG2408649

Pace Project No.: 10717275

LABORATORY CONTROL SAMPLE & LCSD: 5141501

5141502

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
d9-NEtFOSE (S)	%				66	68	15-130			

LABORATORY CONTROL SAMPLE: 5141503

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
11CI-PF3OUdS	ug/kg	0.76	.62J	81	45-160	
3:3 FTCA	ug/kg	1	.88J	88	45-130	
4:2 FTS	ug/kg	0.75	.65J	86	60-150	
5:3 FTCA	ug/kg	5	3.6J	73	60-130	
6:2 FTS	ug/kg	0.76	.67J	88	55-200	
7:3 FTCA	ug/kg	5	3.5J	70	60-150	
8:2 FTS	ug/kg	0.77	.71J	92	70-150	
9CI-PF3ONS	ug/kg	0.75	.64J	85	70-150	
ADONA	ug/kg	0.76	.7J	93	70-160	
HFPO-DA	ug/kg	0.8	.73J	92	70-145	
NEtFOSA	ug/kg	0.2	0.21	106	70-140	
NEtFOSAA	ug/kg	0.2	.16J	80	65-165	
NEtFOSE	ug/kg	2	1.8J	92	70-135	
NFDHA	ug/kg	0.4	.37J	92	60-155	
NMeFOSA	ug/kg	0.2	.19J	94	70-155	
NMeFOSAA	ug/kg	0.2	0.20	101	65-155	
NMeFOSE	ug/kg	2	1.8J	92	70-140	
PFBA	ug/kg	0.8	.75J	94	70-140	
PFBS	ug/kg	0.18	.17J	94	65-145	
PFDA	ug/kg	0.2	ND	99	70-155	
PFDoA	ug/kg	0.2	.18J	88	70-150	
PFDoS	ug/kg	0.19	.18J	94	25-160	
PFDS	ug/kg	0.19	.16J	85	40-155	
PFEESA	ug/kg	0.36	.32J	89	70-140	
PFHpA	ug/kg	0.2	.18J	88	65-145	
PFHpS	ug/kg	0.19	.19J	97	65-155	
PFHxA	ug/kg	0.2	ND	98	65-140	
PFHxS	ug/kg	0.18	.18J	96	60-150	
PFMBA	ug/kg	0.4	.37J	92	60-150	
PFMPA	ug/kg	0.4	0.42	105	30-140	
PFNA	ug/kg	0.2	.17J	86	70-155	
PFNS	ug/kg	0.19	.18J	94	55-140	
PFOA	ug/kg	0.2	.18J	90	70-150	
PFOS	ug/kg	0.19	.18J	99	65-160	
PFOSA	ug/kg	0.2	.17J	87	70-140	
PFPeA	ug/kg	0.4	.36J	89	60-150	
PFPeS	ug/kg	0.19	.16J	86	55-160	
PFTeDA	ug/kg	0.2	.19J	93	65-150	
PFTrDA	ug/kg	0.2	.18J	89	65-150	
PFUnA	ug/kg	0.2	.18J	90	70-155	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: L1803414 WG2408649

Pace Project No.: 10717275

LABORATORY CONTROL SAMPLE: 5141503

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
13C2-PFDoA (S)	%.			88	40-130	
13C2-PFTA (S)	%.			84	20-130	
13C24:2FTS (S)	%.			115	40-165	
13C26:2FTS (S)	%.			116	40-215	
13C28:2FTS (S)	%.			106	40-275	
13C3-PFBS (S)	%.			102	40-135	
13C3-PFHxS (S)	%.			100	40-130	
13C3HFPO-DA (S)	%.			97	40-130	
13C4-PFBA (S)	%.			92	8-130	
13C4-PFHpA (S)	%.			91	40-130	
13C5-PFHxA (S)	%.			92	40-130	
13C5-PFPeA (S)	%.			94	35-130	
13C6-PFDA (S)	%.			93	40-130	
13C7-PFUdA (S)	%.			94	40-130	
13C8-PFOA (S)	%.			96	40-130	
13C8-PFOS (S)	%.			96	40-130	
13C8-PFOSA (S)	%.			80	40-130	
13C9-PFNA (S)	%.			94	40-130	
d3-MeFOSAA (S)	%.			82	40-135	
d3-NMeFOSA (S)	%.			45	10-130	
d5-EtFOSAA (S)	%.			84	40-150	
d5-NEtFOSA (S)	%.			41	10-130	
d7-NMeFOSE (S)	%.			60	20-130	
d9-NEtFOSE (S)	%.			64	15-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: L1803414 WG2408649

Pace Project No.: 10717275

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

N2 The lab does not hold NELAC/TNI accreditation for this parameter but other accreditations/certifications may apply. A complete list of accreditations/certifications is available upon request.

S0 Surrogate recovery outside laboratory control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: L1803414 WG2408649

Pace Project No.: 10717275

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10717275001	ATMT-BH1-SG-1.5	ASTM D2974	983070		
10717275002	ATMT-BH1-SG-1.5-DUP	ASTM D2974	983070		
10717275003	ATMT-BH1-SG-12	ASTM D2974	983070		
10717275004	ATMT-BH2-SG-1.5	ASTM D2974	983070		
10717275005	ATMT-BH2-SG-10	ASTM D2974	983070		
10717275006	ATMT-BH3-SG-1.5	ASTM D2974	983070		
10717275007	ATMT-BH3-SG-8	ASTM D2974	983070		
10717275001	ATMT-BH1-SG-1.5	EPA 1633 DRAFT	983537	EPA 1633 DRAFT	984397
10717275002	ATMT-BH1-SG-1.5-DUP	EPA 1633 DRAFT	983537	EPA 1633 DRAFT	984397
10717275003	ATMT-BH1-SG-12	EPA 1633 DRAFT	983537	EPA 1633 DRAFT	984397
10717275004	ATMT-BH2-SG-1.5	EPA 1633 DRAFT	983537	EPA 1633 DRAFT	984397
10717275005	ATMT-BH2-SG-10	EPA 1633 DRAFT	983537	EPA 1633 DRAFT	984397
10717275006	ATMT-BH3-SG-1.5	EPA 1633 DRAFT	984202	EPA 1633 DRAFT	984893
10717275007	ATMT-BH3-SG-8	EPA 1633 DRAFT	984202	EPA 1633 DRAFT	984893

REPORT OF LABORATORY ANALYSIS

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Sub-Contract Chain of Custody

Batch Date/Time: 11/26/24 08:21
Sub-Contract Lab: PACEMN
Address: 1700 Elm Street Suite 200
 SE
City/State: Minneapolis, MN 55414
Contact: Tong.Lee@pacelabs.com
Owner Lab: PACEMTJL
Address: 12065 Lebanon Rd.
City/State: Mt. Juliet, TN 37122
Phone: (615) 773-9756
Fax: (615) 758-5859

WO: WG2408649
Email: MTJLSuboutTeam@pacelabs.com
Results Due Date: 12/26/24
ESC Purchase Order #: L1803414
Send Reports to: Jeremy Watkins



Sample ID Container ID	Matrix	State	Collect Date	Description	Sample Number Lab Use Only	Sample Comments Lab Use Only
ATMT-BH1-SG-1.5 PFAS-90mlPP-NoPres - 50139455 PFAS-90mlPP-NoPres - 50139456	SS	ID	11/18/24 10:00	SUBPFAS1633	1. L1803414-01	01
ATMT-BH1-SG-1.5-DUP PFAS-90mlPP-NoPres - 50139457 PFAS-90mlPP-NoPres - 50139458	SS	ID	11/18/24 10:00	SUBPFAS1633	2. L1803414-03	02
ATMT-BH1-SG-12 PFAS-90mlPP-NoPres - 50139459 PFAS-90mlPP-NoPres - 50139460	SS	ID	11/18/24 10:40	SUBPFAS1633	3. L1803414-04	03
ATMT-BH2-SG-1.5 PFAS-90mlPP-NoPres - 50139461 PFAS-90mlPP-NoPres - 50139462 PFAS-90mlPP-NoPres - 50139469	SS	ID	11/18/24 11:50	SUBPFAS1633	4. L1803414-05	MS/MSD 04
ATMT-BH2-SG-10 PFAS-90mlPP-NoPres - 50139463 PFAS-90mlPP-NoPres - 50139464	SS	ID	11/18/24 11:55	SUBPFAS1633	5. L1803414-06	05
ATMT-BH3-SG-1.5 PFAS-90mlPP-NoPres - 50139465 PFAS-90mlPP-NoPres - 50139466	SS	ID	11/18/24 12:30	SUBPFAS1633	6. L1803414-07	06
ATMT-BH3-SG-8 PFAS-90mlPP-NoPres - 50139467 PFAS-90mlPP-NoPres - 50139468	SS	ID	11/18/24 15:05	SUBPFAS1633	7. L1803414-08	07

*= Container used for multiple Samples and/or Analyses

Relinquished by: Jeremy Lee Date: 11/26/24
 Received by: Smart Paul Date: 11/27/24 850
 Relinquished by: _____ Date: _____
 Received by: _____ Date: _____

WO# : 10717275



10717275

ENV-FRM-MIN4-0150 v17_Sample Condition Upon Receipt

CLIENT NAME: Pace MTJL PROJECT #:

WO#: 10717275

COURIER: Client Commercial FedEx Pace
 Speedee UPS USPS

PM: TKL Due Date: 12/30/24
 CLIENT: PASI-TN

TRACKING NUMBER: 4257 0935 5451 See Exceptions form ENV-FRM-MIN4-0142

Custody Seal on Cooler/Box Present: YES NO Seals Intact: YES NO Biological Tissue Frozen: YES NO
 Packing Material: Bubble Bags Bubble Wrap None Other Temp Blank: YES NO Type of Ice: Blue Dry Wet
 Thermometer: T1 (0461) T2 (0436) T3 (0459) T4 (0402) T5 (0178) T6 (0235)
 T7 (0042) T8 (0775) T9 (0727) 01339252 (1710) Melted None

Did Samples Originate in West Virginia: YES NO Were All Container Temps taken: YES NO N/A
 Correction Factor: -0.12 Cooler Temp Read w/Temp Blank: 4.13 °C Average Corrected Temp (no Temp Blank Only): _____ °C
 Cooler Temp Corrected w/Temp Blank: 4.11 °C
 NOTE: Temp should be above freezing to 6°C. See Exceptions Form ENV-FRM-MIN4-0142 1 Container

USDA Regulated Soil: N/A - Water Sample/Other (describe): _____ Initials & Date of Person Examining Contents: EC 11-27-24
 Did Samples originate from one of the following states (check maps) - AL, AR, AZ, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA: YES NO EC 11-27-24 Did samples originate from a foreign source (international, including Hawaii and Puerto Rico): YES NO
 NOTE: If YES to either question, fill out a Regulated Soil Checklist (ENV-FRM-MIN4-0154) and include with SCUR/COC paperwork.

LOCATION (check one):	DULUTH	MINNEAPOLIS	VIRGINIA	YES	NO	N/A	COMMENT(S)								
Chain of Custody Present and Filled Out?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.								
Chain of Custody Relinquished?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2.								
Sampler Name and/or Signature on COC?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3.								
Samples Arrived within Hold Time?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4. If Fecal: <input type="checkbox"/> <8 hrs <input type="checkbox"/> >8 hr, <24 hr <input type="checkbox"/> No								
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	5. <input type="checkbox"/> BOD / cBOD <input type="checkbox"/> Fecal coliform <input type="checkbox"/> Hex Chrom. <input type="checkbox"/> HPC <input type="checkbox"/> Nitrate <input type="checkbox"/> Nitrite <input type="checkbox"/> Ortho Phos <input type="checkbox"/> Total coliform/E. coli <input type="checkbox"/> Other: _____								
Rush Turn Around Time Requested?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	6.								
Sufficient Sample Volume?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7.								
Correct Containers Used?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8.								
- Pace Containers Used?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>									
Containers Intact?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9.								
Field Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	10. Is sediment visible in the dissolved container: <input type="checkbox"/> YES <input type="checkbox"/> NO								
Is sufficient information available to reconcile the samples to the COC? NOTE: If ID/Date/Time don't match fill out section 11. Matrix: <input type="checkbox"/> Oil <input checked="" type="checkbox"/> Soil <input type="checkbox"/> Water <input type="checkbox"/> Other	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11. If NO, write ID/Date/Time of container below: <input type="checkbox"/> See Exceptions form ENV-FRM-MIN4-0142								
All containers needing acid/base preservation have been checked? All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , < 2 pH, NaOH > 9 Sulfide, NaOH > 10 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil & Grease, DRO/8015 (water) and Dioxins/PFAS NOTE: If adding preservation to the container, verify with the PM first. Clients may require adding preservative to the field and equipment blanks when this occurs.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	12. Sample #: <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> Zinc Acetate Positive for Residual Chlorine: <input type="checkbox"/> YES <input type="checkbox"/> NO pH Paper Lot # <table border="1"> <tr> <th>Residual Chlorine</th> <th>0-6 Roll</th> <th>0-6 Strip</th> <th>0-14 Strip</th> </tr> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </table> <input type="checkbox"/> See Exceptions form ENV-FRM-MIN4-0142	Residual Chlorine	0-6 Roll	0-6 Strip	0-14 Strip				
Residual Chlorine	0-6 Roll	0-6 Strip	0-14 Strip												
Headspace in Methyl Mercury Container?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	13.								
Extra labels present on soil VOA or WIDRO containers?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	14.								
Headspace in VOA Vials (greater than 6mm)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> See Exceptions form ENV-FRM-MIN4-0140								
Trip Blanks Present?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	15.								
Trip Blank Custody Seals Present?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Pace Trip Blank Lot # (if purchased): _____								

CLIENT NOTIFICATION / RESOLUTION FIELD DATA REQUIRED: YES NO
 Person Contacted: _____ Date & Time: _____
 Comments / Resolution: _____

Project Manager Review: [Signature] Date: 12/02/24

NOTE: When there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEQ Certification Office (i.e., out of hold, incorrect preservative, out of temp, incorrect containers).
 Labeled By: EC Line: 2

ENV-FRM-MIN4-0154 v03_USDA Regulated Soil Checklist

SECTION TO BE COMPLETED BY SAMPLE RECEIVING:

WO #: 10717275 Date: 11-27-24 Initials: EC

Sample Origin (check one): DOMESTIC DOMESTIC REGULATED QUARANTINED FOREIGN

NOTE: Soil samples from Guam, Hawaii, Puerto Rico, and the US Virgin Islands are Foreign originated.

If DOMESTIC, circle state of origin: AL AR AZ CA FL GA LA MS NC NM NY OK **(OR)** SC TN TX VA List County: Klamath

NOTE: USDA Permit/Compliance Agreement authorizes movement of samples from these domestic regulated zones. Includes IFA, SOD, Golden Nematode, Karnal Bunt, and Witchweed.

If QUARANTINED, circle state of origin: CA ID NY TX List County: _____

NOTE: Movement is not authorized for Pale Cyst Nematode (ID)—remaining quarantines require additional paperwork.

If FOREIGN, list country of origin: _____

NOTE: Movement from some Canadian Provinces is not allowed. Refer to ENV-GUI-MIN4-0086 Regulated Soil Guide.

REQUIREMENT	ACTION	COMPLETED		
		YES	NO	N/A
PPQ-530 Paperwork must be included for any samples from counties with a Fruit Fly Quarantine in CA, NY, and TX. <i>Reference ENV-SOP-MIN4-0095.</i>	Scan PPQ-530 to the corresponding project folder on the X:drive. If PPQ-530 is not present, contact the laboratory's designated USDA permit holder. DO NOT continue processing samples.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Samples from ID may not be moved from the quarantined region. <i>Reference ENV-SOP-MIN4-0095.</i>	If samples originated in a quarantined zone, contact the laboratory's designated USDA permit holder. DO NOT continue processing samples.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
"Special Handling" stickers are to be placed on all samples.	Did "special handling" stickers get placed on all sample containers?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Samples must be segregated and stored in designated bins, shelves, and coolers.	Were samples placed in a designated cooler, containers, and shelves?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Samples must be double contained to prevent accidental release.	Were there any signs of breakage or leakage (check for broken glass and/or loose soil in the cooler)? NOTE: If NO, ice and melt water can be disposed of by normal process (ex: down the drain).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	If YES, were ice and melt water separated from the cooler and disposed of properly?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Any broken glass and/or loose soil are to be bagged and placed in a USDA Regulated satellite container or active drum (see Waste Coordinator). Ice and melt water should be baked at a temperature range of 121-154°F for 2 hours and then cooled before going down the drain.			
Equipment and supplies that have come into contact samples must be decontaminated.	Was the cooler(s) and/or countertop(s) decontaminated using either a fresh 10% bleach solution or 70% ethanol? NOTE: Gloves and other lab supplies will be bagged and placed in the USDA Regulated satellite container or active drum.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

COMMENT(S):

SECTION TO BE COMPLETED BY PROJECT MANAGEMENT (PM and/or PC):

Sample analysis will be completed by (check all that apply): MN SUBCONTRACT LAB

If SUBCONTRACT, list lab(s): _____

REQUIREMENT	ACTION	COMPLETED		
		YES	NO	N/A
Permission to ship untreated soil must be on file prior to shipping to any subcontract lab, including IR Pace Labs.	Go to: S:\CLIENTSVR\10_Client Services Department Documents\Regulated Soils Permits\Permission to Ship. If permission to ship letter is not there, contact the laboratory's designated USDA permit holder.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shipment must include a valid copy of the receiving lab's permit as well as permission to ship letter.	Is a copy of all needed paperwork included with the COC? DO NOT ship samples until all necessary paperwork is compiled.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

COMMENT(S):

PM Signature: [Signature] Date: 12/02/24

Address

1700 Elm Street Suite 200 SE
Minneapolis, MN 55414

January 06, 2025

Revised Report

Eastern Research Group Inc- Concord, MA

Sample Delivery Group: L1803661
Samples Received: 11/23/2024
Project Number: 0425.00.016.080
Description: 2450 Altamont Drive

Report To: Sarah Weppner
561 Virginia Road Bldg. 4
Suite 300
Concord, MA 01742

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Entire Report Reviewed By:



Kelly Mercer
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

ACCOUNT:

Eastern Research Group Inc- Concord, MA

PROJECT:

0425.00.016.080

SDG:

L1803661

DATE/TIME:

01/06/25 10:48

PAGE:

1 of 35

TABLE OF CONTENTS

Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	3
Cn: Case Narrative	5
Sr: Sample Results	6
ATMT-BH1-SG-12' L1803661-01	6
ATMT-BH1-SG-12'-DUP L1803661-02	8
ATMT-BH2-SG-10' L1803661-03	10
ATMT-BH3-SG-8' L1803661-04	12
ATMT-BH4-SG-8.5' L1803661-05	14
TRIP BLANK L1803661-06	16
Qc: Quality Control Summary	18
Total Solids by Method 2540 G-2011	18
Metals (ICP) by Method 6010B	20
Volatile Organic Compounds (GC) by Method NWTPHGX	21
Volatile Organic Compounds (GC/MS) by Method 8260B	23
Volatile Organic Compounds (GC/MS) by Method 8260D	27
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	28
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	29
Gl: Glossary of Terms	33
Al: Accreditations & Locations	34
Sc: Sample Chain of Custody	35

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

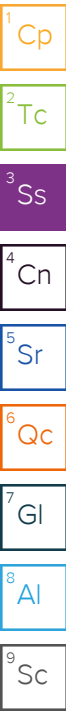
⁹ Sc

SAMPLE SUMMARY

ATMT-BH1-SG-12' L1803661-01 Solid

Collected by BB/SK Collected date/time 11/18/24 10:45 Received date/time 11/23/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2409127	1	11/27/24 09:14	11/27/24 09:20	MT	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2408984	1	12/02/24 11:01	12/03/24 11:14	MAP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2410970	25	11/18/24 10:45	12/02/24 00:09	CDD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2411610	25	11/18/24 10:45	12/02/24 22:48	GLN	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG2409424	1	11/27/24 08:01	11/28/24 01:26	KKS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2410538	1	12/01/24 08:20	12/02/24 21:57	LTB	Mt. Juliet, TN



ATMT-BH1-SG-12'-DUP L1803661-02 Solid

Collected by BB/SK Collected date/time 11/18/24 10:50 Received date/time 11/23/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2409127	1	11/27/24 09:14	11/27/24 09:20	MT	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2408984	1	12/02/24 11:01	12/03/24 11:21	MAP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2410970	25	11/18/24 10:50	12/02/24 00:32	CDD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2411610	25	11/18/24 10:50	12/02/24 23:07	GLN	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG2409424	1	11/27/24 08:01	11/27/24 23:09	KKS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2410538	1	12/01/24 08:20	12/02/24 22:14	LTB	Mt. Juliet, TN

ATMT-BH2-SG-10' L1803661-03 Solid

Collected by BB/SK Collected date/time 11/18/24 12:35 Received date/time 11/23/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2409127	1	11/27/24 09:14	11/27/24 09:20	MT	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2408984	1	12/02/24 11:01	12/03/24 10:42	MAP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2410970	25	11/18/24 12:35	12/02/24 00:55	CDD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2411610	25	11/18/24 12:35	12/02/24 23:26	GLN	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG2409424	1	11/27/24 08:01	11/27/24 23:34	KKS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2410538	1	12/01/24 08:20	12/02/24 22:49	LTB	Mt. Juliet, TN

ATMT-BH3-SG-8' L1803661-04 Solid

Collected by BB/SK Collected date/time 11/18/24 15:10 Received date/time 11/23/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2409129	1	11/27/24 09:06	11/27/24 09:12	KDW	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2408984	1	12/02/24 11:01	12/03/24 11:22	MAP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2410970	25	11/18/24 15:10	12/02/24 01:18	CDD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2411610	25	11/18/24 15:10	12/02/24 23:45	GLN	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG2409424	1	11/27/24 08:01	11/27/24 23:22	KKS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2410538	1	12/01/24 08:20	12/02/24 22:31	LTB	Mt. Juliet, TN

ATMT-BH4-SG-8.5' L1803661-05 Solid

Collected by BB/SK Collected date/time 11/19/24 09:20 Received date/time 11/23/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2409129	1	11/27/24 09:06	11/27/24 09:12	KDW	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2408984	1	12/02/24 11:01	12/03/24 11:24	MAP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2410978	27.3	11/19/24 09:20	12/02/24 05:00	CDD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2411610	27.3	11/19/24 09:20	12/03/24 00:04	GLN	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG2409424	1	11/27/24 08:01	11/27/24 23:34	KKS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2410751	1	12/02/24 07:43	12/02/24 22:01	JCH	Mt. Juliet, TN

SAMPLE SUMMARY

TRIP BLANK L1803661-06 GW

Collected by BB/SK
Collected date/time 11/18/24 00:00
Received date/time 11/23/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2410976	1	12/01/24 22:42	12/01/24 22:42	JAH	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



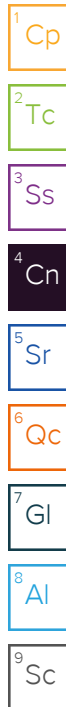
Kelly Mercer
Project Manager

Report Revision History

Level II Report - Version 1: 12/12/24 16:51
Level II Report - Version 2: 01/02/25 13:05

Project Narrative

revised parameter lists



Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	78.3		1	11/27/2024 09:20	WG2409127

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Lead	6.92		0.208	0.500	1	12/03/2024 11:14	WG2408984

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Gasoline Range Organics-NWTPH	1.43	J	0.848	2.50	25	12/02/2024 00:09	WG2410970
(S) a,a,a-Trifluorotoluene(FID)	100			77.0-120		12/02/2024 00:09	WG2410970

Volatile Organic Compounds (GC/MS) by Method 8260D

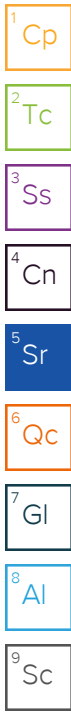
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.00938	0.0250	25	12/02/2024 22:48	WG2411610
1,2-Dibromoethane	U		0.00625	0.0250	25	12/02/2024 22:48	WG2411610
1,2-Dichloroethane	U		0.0113	0.0250	25	12/02/2024 22:48	WG2411610
Ethylbenzene	U		0.00750	0.0250	25	12/02/2024 22:48	WG2411610
Toluene	U		0.0308	0.125	25	12/02/2024 22:48	WG2411610
Xylenes, Total	U		0.0125	0.0750	25	12/02/2024 22:48	WG2411610
Methyl tert-butyl ether	U		0.00875	0.0250	25	12/02/2024 22:48	WG2411610
Naphthalene	U	C3 J4	0.125	0.125	25	12/02/2024 22:48	WG2411610
1,2,4-Trimethylbenzene	U		0.00528	0.0250	25	12/02/2024 22:48	WG2411610
1,3,5-Trimethylbenzene	U		0.00665	0.0250	25	12/02/2024 22:48	WG2411610
Isopropylbenzene	U		0.0106	0.0250	25	12/02/2024 22:48	WG2411610
n-Propylbenzene	U		0.00515	0.0250	25	12/02/2024 22:48	WG2411610
(S) Toluene-d8	98.8			75.0-131		12/02/2024 22:48	WG2411610
(S) 4-Bromofluorobenzene	93.8			67.0-138		12/02/2024 22:48	WG2411610
(S) 1,2-Dichloroethane-d4	112			70.0-130		12/02/2024 22:48	WG2411610

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	U		1.33	4.00	1	11/28/2024 01:26	WG2409424
Residual Range Organics (RRO)	U		3.33	10.0	1	11/28/2024 01:26	WG2409424
(S) o-Terphenyl	47.4			18.0-148		11/28/2024 01:26	WG2409424

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	U		0.00230	0.00600	1	12/02/2024 21:57	WG2410538
Acenaphthene	U		0.00209	0.00600	1	12/02/2024 21:57	WG2410538
Benzo(a)anthracene	U		0.00173	0.00600	1	12/02/2024 21:57	WG2410538
Benzo(a)pyrene	U		0.00179	0.00600	1	12/02/2024 21:57	WG2410538
Benzo(b)fluoranthene	U		0.00153	0.00600	1	12/02/2024 21:57	WG2410538
Benzo(k)fluoranthene	U		0.00215	0.00600	1	12/02/2024 21:57	WG2410538
Chrysene	U		0.00232	0.00600	1	12/02/2024 21:57	WG2410538
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	12/02/2024 21:57	WG2410538
Fluoranthene	U		0.00227	0.00600	1	12/02/2024 21:57	WG2410538
Fluorene	U		0.00205	0.00600	1	12/02/2024 21:57	WG2410538



Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	12/02/2024 21:57	WG2410538
Naphthalene	0.00516	J	0.00408	0.0200	1	12/02/2024 21:57	WG2410538
Pyrene	U		0.00200	0.00600	1	12/02/2024 21:57	WG2410538
(S) p-Terphenyl-d14	61.4			23.0-120		12/02/2024 21:57	WG2410538
(S) Nitrobenzene-d5	46.1			14.0-149		12/02/2024 21:57	WG2410538
(S) 2-Fluorobiphenyl	51.9			34.0-125		12/02/2024 21:57	WG2410538

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
Total Solids	80.4		1	11/27/2024 09:20	WG2409127

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Lead	5.91		0.208	0.500	1	12/03/2024 11:21	WG2408984

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Gasoline Range Organics-NWTPH	1.71	J	0.848	2.50	25	12/02/2024 00:32	WG2410970
(S) a,a,a-Trifluorotoluene(FID)	102			77.0-120		12/02/2024 00:32	WG2410970

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Benzene	U		0.00938	0.0250	25	12/02/2024 23:07	WG2411610
1,2-Dibromoethane	U		0.00625	0.0250	25	12/02/2024 23:07	WG2411610
1,2-Dichloroethane	U		0.0113	0.0250	25	12/02/2024 23:07	WG2411610
Ethylbenzene	U		0.00750	0.0250	25	12/02/2024 23:07	WG2411610
Toluene	U		0.0308	0.125	25	12/02/2024 23:07	WG2411610
Xylenes, Total	U		0.0125	0.0750	25	12/02/2024 23:07	WG2411610
Methyl tert-butyl ether	U		0.00875	0.0250	25	12/02/2024 23:07	WG2411610
Naphthalene	U	C3 J4	0.125	0.125	25	12/02/2024 23:07	WG2411610
1,2,4-Trimethylbenzene	U		0.00528	0.0250	25	12/02/2024 23:07	WG2411610
1,3,5-Trimethylbenzene	U		0.00665	0.0250	25	12/02/2024 23:07	WG2411610
Isopropylbenzene	U		0.0106	0.0250	25	12/02/2024 23:07	WG2411610
n-Propylbenzene	U		0.00515	0.0250	25	12/02/2024 23:07	WG2411610
(S) Toluene-d8	101			75.0-131		12/02/2024 23:07	WG2411610
(S) 4-Bromofluorobenzene	93.4			67.0-138		12/02/2024 23:07	WG2411610
(S) 1,2-Dichloroethane-d4	115			70.0-130		12/02/2024 23:07	WG2411610

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Diesel Range Organics (DRO)	U		1.33	4.00	1	11/27/2024 23:09	WG2409424
Residual Range Organics (RRO)	U		3.33	10.0	1	11/27/2024 23:09	WG2409424
(S) o-Terphenyl	68.3			18.0-148		11/27/2024 23:09	WG2409424

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Anthracene	U		0.00230	0.00600	1	12/02/2024 22:14	WG2410538
Acenaphthene	U		0.00209	0.00600	1	12/02/2024 22:14	WG2410538
Benzo(a)anthracene	U		0.00173	0.00600	1	12/02/2024 22:14	WG2410538
Benzo(a)pyrene	U		0.00179	0.00600	1	12/02/2024 22:14	WG2410538
Benzo(b)fluoranthene	U		0.00153	0.00600	1	12/02/2024 22:14	WG2410538
Benzo(k)fluoranthene	U		0.00215	0.00600	1	12/02/2024 22:14	WG2410538
Chrysene	U		0.00232	0.00600	1	12/02/2024 22:14	WG2410538
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	12/02/2024 22:14	WG2410538
Fluoranthene	U		0.00227	0.00600	1	12/02/2024 22:14	WG2410538
Fluorene	U		0.00205	0.00600	1	12/02/2024 22:14	WG2410538

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	12/02/2024 22:14	WG2410538
Naphthalene	U		0.00408	0.0200	1	12/02/2024 22:14	WG2410538
Pyrene	U		0.00200	0.00600	1	12/02/2024 22:14	WG2410538
(S) p-Terphenyl-d14	62.0			23.0-120		12/02/2024 22:14	WG2410538
(S) Nitrobenzene-d5	45.0			14.0-149		12/02/2024 22:14	WG2410538
(S) 2-Fluorobiphenyl	53.6			34.0-125		12/02/2024 22:14	WG2410538

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	71.0		1	11/27/2024 09:20	WG2409127

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Lead	6.64		0.208	0.500	1	12/03/2024 10:42	WG2408984

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Gasoline Range Organics-NWTPH	U		0.848	2.50	25	12/02/2024 00:55	WG2410970
(S) a,a,a-Trifluorotoluene(FID)	99.8			77.0-120		12/02/2024 00:55	WG2410970

Volatile Organic Compounds (GC/MS) by Method 8260D

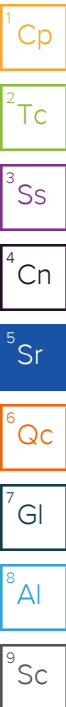
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.00938	0.0250	25	12/02/2024 23:26	WG2411610
1,2-Dibromoethane	U		0.00625	0.0250	25	12/02/2024 23:26	WG2411610
1,2-Dichloroethane	U		0.0113	0.0250	25	12/02/2024 23:26	WG2411610
Ethylbenzene	U		0.00750	0.0250	25	12/02/2024 23:26	WG2411610
Toluene	U		0.0308	0.125	25	12/02/2024 23:26	WG2411610
Xylenes, Total	U		0.0125	0.0750	25	12/02/2024 23:26	WG2411610
Methyl tert-butyl ether	U		0.00875	0.0250	25	12/02/2024 23:26	WG2411610
Naphthalene	U	C3 J4	0.125	0.125	25	12/02/2024 23:26	WG2411610
1,2,4-Trimethylbenzene	U		0.00528	0.0250	25	12/02/2024 23:26	WG2411610
1,3,5-Trimethylbenzene	U		0.00665	0.0250	25	12/02/2024 23:26	WG2411610
Isopropylbenzene	U		0.0106	0.0250	25	12/02/2024 23:26	WG2411610
n-Propylbenzene	U		0.00515	0.0250	25	12/02/2024 23:26	WG2411610
(S) Toluene-d8	101			75.0-131		12/02/2024 23:26	WG2411610
(S) 4-Bromofluorobenzene	92.2			67.0-138		12/02/2024 23:26	WG2411610
(S) 1,2-Dichloroethane-d4	113			70.0-130		12/02/2024 23:26	WG2411610

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	U		1.33	4.00	1	11/27/2024 23:34	WG2409424
Residual Range Organics (RRO)	U		3.33	10.0	1	11/27/2024 23:34	WG2409424
(S) o-Terphenyl	67.7			18.0-148		11/27/2024 23:34	WG2409424

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	U		0.00230	0.00600	1	12/02/2024 22:49	WG2410538
Acenaphthene	U		0.00209	0.00600	1	12/02/2024 22:49	WG2410538
Benzo(a)anthracene	U		0.00173	0.00600	1	12/02/2024 22:49	WG2410538
Benzo(a)pyrene	U		0.00179	0.00600	1	12/02/2024 22:49	WG2410538
Benzo(b)fluoranthene	U		0.00153	0.00600	1	12/02/2024 22:49	WG2410538
Benzo(k)fluoranthene	U		0.00215	0.00600	1	12/02/2024 22:49	WG2410538
Chrysene	U		0.00232	0.00600	1	12/02/2024 22:49	WG2410538
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	12/02/2024 22:49	WG2410538
Fluoranthene	U		0.00227	0.00600	1	12/02/2024 22:49	WG2410538
Fluorene	U		0.00205	0.00600	1	12/02/2024 22:49	WG2410538



Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	12/02/2024 22:49	WG2410538
Naphthalene	U		0.00408	0.0200	1	12/02/2024 22:49	WG2410538
Pyrene	U		0.00200	0.00600	1	12/02/2024 22:49	WG2410538
(S) p-Terphenyl-d14	52.5			23.0-120		12/02/2024 22:49	WG2410538
(S) Nitrobenzene-d5	41.3			14.0-149		12/02/2024 22:49	WG2410538
(S) 2-Fluorobiphenyl	47.5			34.0-125		12/02/2024 22:49	WG2410538

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	79.9		1	11/27/2024 09:12	WG2409129

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Lead	4.75		0.208	0.500	1	12/03/2024 11:22	WG2408984

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Gasoline Range Organics-NWTPH	U		0.848	2.50	25	12/02/2024 01:18	WG2410970
(S) a,a,a-Trifluorotoluene(FID)	101			77.0-120		12/02/2024 01:18	WG2410970

Volatile Organic Compounds (GC/MS) by Method 8260D

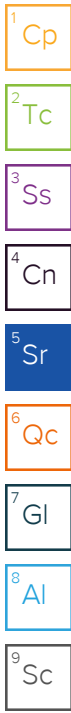
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.00938	0.0250	25	12/02/2024 23:45	WG2411610
1,2-Dibromoethane	U		0.00625	0.0250	25	12/02/2024 23:45	WG2411610
1,2-Dichloroethane	U		0.0113	0.0250	25	12/02/2024 23:45	WG2411610
Ethylbenzene	U		0.00750	0.0250	25	12/02/2024 23:45	WG2411610
Toluene	U		0.0308	0.125	25	12/02/2024 23:45	WG2411610
Xylenes, Total	U		0.0125	0.0750	25	12/02/2024 23:45	WG2411610
Methyl tert-butyl ether	U		0.00875	0.0250	25	12/02/2024 23:45	WG2411610
Naphthalene	U	C3 J4	0.125	0.125	25	12/02/2024 23:45	WG2411610
1,2,4-Trimethylbenzene	U		0.00528	0.0250	25	12/02/2024 23:45	WG2411610
1,3,5-Trimethylbenzene	U		0.00665	0.0250	25	12/02/2024 23:45	WG2411610
Isopropylbenzene	U		0.0106	0.0250	25	12/02/2024 23:45	WG2411610
n-Propylbenzene	U		0.00515	0.0250	25	12/02/2024 23:45	WG2411610
(S) Toluene-d8	99.7			75.0-131		12/02/2024 23:45	WG2411610
(S) 4-Bromofluorobenzene	92.1			67.0-138		12/02/2024 23:45	WG2411610
(S) 1,2-Dichloroethane-d4	113			70.0-130		12/02/2024 23:45	WG2411610

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	U		1.33	4.00	1	11/27/2024 23:22	WG2409424
Residual Range Organics (RRO)	U		3.33	10.0	1	11/27/2024 23:22	WG2409424
(S) o-Terphenyl	53.0			18.0-148		11/27/2024 23:22	WG2409424

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	U		0.00230	0.00600	1	12/02/2024 22:31	WG2410538
Acenaphthene	U		0.00209	0.00600	1	12/02/2024 22:31	WG2410538
Benzo(a)anthracene	U		0.00173	0.00600	1	12/02/2024 22:31	WG2410538
Benzo(a)pyrene	U		0.00179	0.00600	1	12/02/2024 22:31	WG2410538
Benzo(b)fluoranthene	U		0.00153	0.00600	1	12/02/2024 22:31	WG2410538
Benzo(k)fluoranthene	U		0.00215	0.00600	1	12/02/2024 22:31	WG2410538
Chrysene	U		0.00232	0.00600	1	12/02/2024 22:31	WG2410538
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	12/02/2024 22:31	WG2410538
Fluoranthene	U		0.00227	0.00600	1	12/02/2024 22:31	WG2410538
Fluorene	U		0.00205	0.00600	1	12/02/2024 22:31	WG2410538



Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	12/02/2024 22:31	WG2410538
Naphthalene	U		0.00408	0.0200	1	12/02/2024 22:31	WG2410538
Pyrene	U		0.00200	0.00600	1	12/02/2024 22:31	WG2410538
(S) p-Terphenyl-d14	45.7			23.0-120		12/02/2024 22:31	WG2410538
(S) Nitrobenzene-d5	42.6			14.0-149		12/02/2024 22:31	WG2410538
(S) 2-Fluorobiphenyl	49.6			34.0-125		12/02/2024 22:31	WG2410538

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
Total Solids	80.2		1	11/27/2024 09:12	WG2409129

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Lead	5.03		0.208	0.500	1	12/03/2024 11:24	WG2408984

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Gasoline Range Organics-NWTPH	4.38	<u>B</u>	0.925	2.73	27.3	12/02/2024 05:00	WG2410978
(S) a,a,a-Trifluorotoluene(FID)	92.0			77.0-120		12/02/2024 05:00	WG2410978

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Benzene	0.0128	<u>J</u>	0.0102	0.0273	27.3	12/03/2024 00:04	WG2411610
1,2-Dibromoethane	U		0.00683	0.0273	27.3	12/03/2024 00:04	WG2411610
1,2-Dichloroethane	U		0.0123	0.0273	27.3	12/03/2024 00:04	WG2411610
Ethylbenzene	U		0.00819	0.0273	27.3	12/03/2024 00:04	WG2411610
Toluene	U		0.0336	0.137	27.3	12/03/2024 00:04	WG2411610
Xylenes, Total	U		0.0137	0.0819	27.3	12/03/2024 00:04	WG2411610
Methyl tert-butyl ether	U		0.00956	0.0273	27.3	12/03/2024 00:04	WG2411610
Naphthalene	U	<u>C3 J4</u>	0.136	0.137	27.3	12/03/2024 00:04	WG2411610
1,2,4-Trimethylbenzene	U		0.00576	0.0273	27.3	12/03/2024 00:04	WG2411610
1,3,5-Trimethylbenzene	U		0.00726	0.0273	27.3	12/03/2024 00:04	WG2411610
Isopropylbenzene	U		0.0116	0.0273	27.3	12/03/2024 00:04	WG2411610
n-Propylbenzene	0.0117	<u>J</u>	0.00562	0.0273	27.3	12/03/2024 00:04	WG2411610
(S) Toluene-d8	99.1			75.0-131		12/03/2024 00:04	WG2411610
(S) 4-Bromofluorobenzene	93.3			67.0-138		12/03/2024 00:04	WG2411610
(S) 1,2-Dichloroethane-d4	106			70.0-130		12/03/2024 00:04	WG2411610

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Diesel Range Organics (DRO)	U		1.33	4.00	1	11/27/2024 23:34	WG2409424
Residual Range Organics (RRO)	U		3.33	10.0	1	11/27/2024 23:34	WG2409424
(S) o-Terphenyl	52.0			18.0-148		11/27/2024 23:34	WG2409424

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
Anthracene	U		0.00230	0.00600	1	12/02/2024 22:01	WG2410751
Acenaphthene	U		0.00209	0.00600	1	12/02/2024 22:01	WG2410751
Benzo(a)anthracene	U		0.00173	0.00600	1	12/02/2024 22:01	WG2410751
Benzo(a)pyrene	U		0.00179	0.00600	1	12/02/2024 22:01	WG2410751
Benzo(b)fluoranthene	U		0.00153	0.00600	1	12/02/2024 22:01	WG2410751
Benzo(k)fluoranthene	U		0.00215	0.00600	1	12/02/2024 22:01	WG2410751
Chrysene	U		0.00232	0.00600	1	12/02/2024 22:01	WG2410751
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	12/02/2024 22:01	WG2410751
Fluoranthene	U		0.00227	0.00600	1	12/02/2024 22:01	WG2410751
Fluorene	U		0.00205	0.00600	1	12/02/2024 22:01	WG2410751

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	12/02/2024 22:01	WG2410751
Naphthalene	U		0.00408	0.0200	1	12/02/2024 22:01	WG2410751
Pyrene	U		0.00200	0.00600	1	12/02/2024 22:01	WG2410751
(S) p-Terphenyl-d14	31.5			23.0-120		12/02/2024 22:01	WG2410751
(S) Nitrobenzene-d5	38.3			14.0-149		12/02/2024 22:01	WG2410751
(S) 2-Fluorobiphenyl	33.5	J2		34.0-125		12/02/2024 22:01	WG2410751

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0113	0.0500	1	12/01/2024 22:42	WG2410976
Acrolein	U		0.00254	0.0500	1	12/01/2024 22:42	WG2410976
Acrylonitrile	U		0.000671	0.0100	1	12/01/2024 22:42	WG2410976
Benzene	U		0.0000941	0.00100	1	12/01/2024 22:42	WG2410976
Bromobenzene	U		0.000118	0.00100	1	12/01/2024 22:42	WG2410976
Bromodichloromethane	U	J4	0.000136	0.00100	1	12/01/2024 22:42	WG2410976
Bromoform	U		0.000129	0.00100	1	12/01/2024 22:42	WG2410976
Bromomethane	U		0.000605	0.00500	1	12/01/2024 22:42	WG2410976
n-Butylbenzene	U		0.000157	0.00100	1	12/01/2024 22:42	WG2410976
sec-Butylbenzene	U		0.000125	0.00100	1	12/01/2024 22:42	WG2410976
tert-Butylbenzene	U		0.000127	0.00100	1	12/01/2024 22:42	WG2410976
Carbon tetrachloride	U		0.000128	0.00100	1	12/01/2024 22:42	WG2410976
Chlorobenzene	U		0.000116	0.00100	1	12/01/2024 22:42	WG2410976
Chlorodibromomethane	U		0.000140	0.00100	1	12/01/2024 22:42	WG2410976
Chloroethane	U		0.000192	0.00500	1	12/01/2024 22:42	WG2410976
Chloroform	U		0.000111	0.00500	1	12/01/2024 22:42	WG2410976
Chloromethane	U		0.000960	0.00250	1	12/01/2024 22:42	WG2410976
2-Chlorotoluene	U		0.000106	0.00100	1	12/01/2024 22:42	WG2410976
4-Chlorotoluene	U		0.000114	0.00100	1	12/01/2024 22:42	WG2410976
1,2-Dibromo-3-Chloropropane	U		0.000276	0.00500	1	12/01/2024 22:42	WG2410976
1,2-Dibromoethane	U		0.000126	0.00100	1	12/01/2024 22:42	WG2410976
Dibromomethane	U		0.000122	0.00100	1	12/01/2024 22:42	WG2410976
1,2-Dichlorobenzene	U		0.000107	0.00100	1	12/01/2024 22:42	WG2410976
1,3-Dichlorobenzene	U		0.000110	0.00100	1	12/01/2024 22:42	WG2410976
1,4-Dichlorobenzene	U		0.000120	0.00100	1	12/01/2024 22:42	WG2410976
Dichlorodifluoromethane	U		0.000374	0.00500	1	12/01/2024 22:42	WG2410976
1,1-Dichloroethane	U		0.000100	0.00100	1	12/01/2024 22:42	WG2410976
1,2-Dichloroethane	U		0.0000819	0.00100	1	12/01/2024 22:42	WG2410976
1,1-Dichloroethene	U		0.000188	0.00100	1	12/01/2024 22:42	WG2410976
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	12/01/2024 22:42	WG2410976
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	12/01/2024 22:42	WG2410976
1,2-Dichloropropane	U		0.000149	0.00100	1	12/01/2024 22:42	WG2410976
1,1-Dichloropropene	U		0.000142	0.00100	1	12/01/2024 22:42	WG2410976
1,3-Dichloropropane	U		0.000110	0.00100	1	12/01/2024 22:42	WG2410976
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	12/01/2024 22:42	WG2410976
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	12/01/2024 22:42	WG2410976
2,2-Dichloropropane	U		0.000161	0.00100	1	12/01/2024 22:42	WG2410976
Di-isopropyl ether	U		0.000105	0.00100	1	12/01/2024 22:42	WG2410976
Ethylbenzene	U		0.000137	0.00100	1	12/01/2024 22:42	WG2410976
Hexachloro-1,3-butadiene	U		0.000337	0.00100	1	12/01/2024 22:42	WG2410976
Isopropylbenzene	U		0.000105	0.00100	1	12/01/2024 22:42	WG2410976
p-Isopropyltoluene	U		0.000120	0.00100	1	12/01/2024 22:42	WG2410976
2-Butanone (MEK)	U		0.00119	0.0100	1	12/01/2024 22:42	WG2410976
Methylene Chloride	U		0.000430	0.00500	1	12/01/2024 22:42	WG2410976
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	12/01/2024 22:42	WG2410976
Methyl tert-butyl ether	U		0.000101	0.00100	1	12/01/2024 22:42	WG2410976
Naphthalene	U	J4	0.00100	0.00500	1	12/01/2024 22:42	WG2410976
n-Propylbenzene	U		0.0000993	0.00100	1	12/01/2024 22:42	WG2410976
Styrene	U		0.000118	0.00100	1	12/01/2024 22:42	WG2410976
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	12/01/2024 22:42	WG2410976
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	12/01/2024 22:42	WG2410976
1,1,2-Trichlorotrifluoroethane	U		0.000180	0.00100	1	12/01/2024 22:42	WG2410976
Tetrachloroethene	U		0.000300	0.00100	1	12/01/2024 22:42	WG2410976
Toluene	U		0.000278	0.00100	1	12/01/2024 22:42	WG2410976
1,2,3-Trichlorobenzene	U		0.000230	0.00100	1	12/01/2024 22:42	WG2410976
1,2,4-Trichlorobenzene	U		0.000481	0.00100	1	12/01/2024 22:42	WG2410976

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	U		0.000149	0.00100	1	12/01/2024 22:42	WG2410976
1,1,2-Trichloroethane	U		0.000158	0.00100	1	12/01/2024 22:42	WG2410976
Trichloroethene	U		0.000190	0.00100	1	12/01/2024 22:42	WG2410976
Trichlorofluoromethane	U		0.000160	0.00500	1	12/01/2024 22:42	WG2410976
1,2,3-Trichloropropane	U		0.000237	0.00250	1	12/01/2024 22:42	WG2410976
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	12/01/2024 22:42	WG2410976
1,2,3-Trimethylbenzene	U		0.000104	0.00100	1	12/01/2024 22:42	WG2410976
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	12/01/2024 22:42	WG2410976
Vinyl chloride	U		0.000234	0.00100	1	12/01/2024 22:42	WG2410976
Xylenes, Total	U		0.000174	0.00300	1	12/01/2024 22:42	WG2410976
(S) Toluene-d8	92.4			80.0-120		12/01/2024 22:42	WG2410976
(S) 4-Bromofluorobenzene	91.2			77.0-126		12/01/2024 22:42	WG2410976
(S) 1,2-Dichloroethane-d4	112			70.0-130		12/01/2024 22:42	WG2410976

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R4151928-1 11/27/24 09:20

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	%		%	%
Total Solids	0.000			

1 Cp

2 Tc

3 Ss

L1803639-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1803639-02 11/27/24 09:20 • (DUP) R4151928-3 11/27/24 09:20

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	%	%		%		%
Total Solids	89.4	89.1	1	0.233		10

4 Cn

5 Sr

Laboratory Control Sample (LCS)

(LCS) R4151928-2 11/27/24 09:20

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	%	%	%	%	
Total Solids	50.0	50.0	100	90.0-110	

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R4151924-1 11/27/24 09:12

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	%		%	%
Total Solids	0.00100			

1 Cp

2 Tc

3 Ss

L1803673-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1803673-06 11/27/24 09:12 • (DUP) R4151924-3 11/27/24 09:12

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	%	%		%		%
Total Solids	76.0	74.8	1	1.64		10

4 Cn

5 Sr

Laboratory Control Sample (LCS)

(LCS) R4151924-2 11/27/24 09:12

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	%	%	%	%	
Total Solids	50.0	50.0	100	90.0-110	

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R4153163-1 12/03/24 10:39

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Lead	U		0.208	0.500

¹Cp

²Tc

³Ss

Laboratory Control Sample (LCS)

(LCS) R4153163-2 12/03/24 10:40

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Lead	100	101	101	80.0-120	

⁴Cn

⁵Sr

L1803661-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1803661-03 12/03/24 10:42 • (MS) R4153163-5 12/03/24 10:47 • (MSD) R4153163-6 12/03/24 10:49

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Lead	100	6.64	100	108	93.6	102	1	75.0-125			7.93	20

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4155398-2 12/01/24 18:03

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Gasoline Range Organics-NWTPH	U		0.848	2.50
(S) a,a,a-Trifluorotoluene(FID)	99.5			77.0-120

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4155398-1 12/01/24 16:55 • (LCSD) R4155398-3 12/01/24 18:26

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Gasoline Range Organics-NWTPH	5.00	5.14	4.23	103	84.6	71.0-124			19.4	20
(S) a,a,a-Trifluorotoluene(FID)				99.4	96.7	77.0-120				

L1803661-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1803661-03 12/02/24 00:55 • (MS) R4155398-4 12/02/24 02:49 • (MSD) R4155398-5 12/02/24 03:11

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Gasoline Range Organics-NWTPH	123	U	133	129	108	105	25	50.0-150			3.05	27
(S) a,a,a-Trifluorotoluene(FID)					99.9	99.8		77.0-120				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R4153282-2 12/01/24 23:17

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Gasoline Range Organics-NWTPH	0.905	↓	0.848	2.50
(S) a,a,a-Trifluorotoluene(FID)	95.0			77.0-120

Laboratory Control Sample (LCS)

(LCS) R4153282-1 12/01/24 22:01

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Gasoline Range Organics-NWTPH	5.00	4.54	90.8	71.0-124	
(S) a,a,a-Trifluorotoluene(FID)			106	77.0-120	

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Method Blank (MB)

(MB) R4152283-3 12/01/24 17:28

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0113	0.0500
Acrolein	U		0.00254	0.0500
Acrylonitrile	U		0.000671	0.0100
Benzene	U		0.0000941	0.00100
Bromobenzene	U		0.000118	0.00100
Bromodichloromethane	U		0.000136	0.00100
Bromoform	U		0.000129	0.00100
Bromomethane	U		0.000605	0.00500
n-Butylbenzene	U		0.000157	0.00100
sec-Butylbenzene	U		0.000125	0.00100
tert-Butylbenzene	U		0.000127	0.00100
Carbon tetrachloride	U		0.000128	0.00100
Chlorobenzene	U		0.000116	0.00100
Chlorodibromomethane	U		0.000140	0.00100
Chloroethane	U		0.000192	0.00500
Chloroform	U		0.000111	0.00500
Chloromethane	U		0.000960	0.00250
2-Chlorotoluene	U		0.000106	0.00100
4-Chlorotoluene	U		0.000114	0.00100
1,2-Dibromo-3-Chloropropane	U		0.000276	0.00500
1,2-Dibromoethane	U		0.000126	0.00100
Dibromomethane	U		0.000122	0.00100
1,2-Dichlorobenzene	U		0.000107	0.00100
1,3-Dichlorobenzene	U		0.000110	0.00100
1,4-Dichlorobenzene	U		0.000120	0.00100
Dichlorodifluoromethane	U		0.000374	0.00500
1,1-Dichloroethane	U		0.000100	0.00100
1,2-Dichloroethane	U		0.0000819	0.00100
1,1-Dichloroethene	U		0.000188	0.00100
cis-1,2-Dichloroethene	U		0.000126	0.00100
trans-1,2-Dichloroethene	U		0.000149	0.00100
1,2-Dichloropropane	U		0.000149	0.00100
1,1-Dichloropropene	U		0.000142	0.00100
1,3-Dichloropropane	U		0.000110	0.00100
cis-1,3-Dichloropropene	U		0.000111	0.00100
trans-1,3-Dichloropropene	U		0.000118	0.00100
2,2-Dichloropropane	U		0.000161	0.00100
Di-isopropyl ether	U		0.000105	0.00100
Ethylbenzene	U		0.000137	0.00100
Hexachloro-1,3-butadiene	U		0.000337	0.00100

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4152283-3 12/01/24 17:28

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Isopropylbenzene	U		0.000105	0.00100
p-Isopropyltoluene	U		0.000120	0.00100
2-Butanone (MEK)	U		0.00119	0.0100
Methylene Chloride	U		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100
Methyl tert-butyl ether	U		0.000101	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.0000993	0.00100
Styrene	U		0.000118	0.00100
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100
1,1,2-Trichlorotrifluoroethane	U		0.000180	0.00100
Tetrachloroethene	U		0.000300	0.00100
Toluene	U		0.000278	0.00100
1,2,3-Trichlorobenzene	U		0.000230	0.00100
1,2,4-Trichlorobenzene	U		0.000481	0.00100
1,1,1-Trichloroethane	U		0.000149	0.00100
1,1,2-Trichloroethane	U		0.000158	0.00100
Trichloroethene	U		0.000190	0.00100
Trichlorofluoromethane	U		0.000160	0.00500
1,2,3-Trichloropropane	U		0.000237	0.00250
1,2,4-Trimethylbenzene	U		0.000322	0.00100
1,2,3-Trimethylbenzene	U		0.000104	0.00100
1,3,5-Trimethylbenzene	U		0.000104	0.00100
Vinyl chloride	U		0.000234	0.00100
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	95.5			80.0-120
(S) 4-Bromofluorobenzene	91.6			77.0-126
(S) 1,2-Dichloroethane-d4	99.2			70.0-130

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R4152283-1 12/01/24 16:27

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.0250	0.0215	86.0	19.0-160	J
Acrolein	0.0250	0.0298	119	10.0-160	J
Acrylonitrile	0.0250	0.0273	109	55.0-149	
Benzene	0.00500	0.00566	113	70.0-123	

Laboratory Control Sample (LCS)

(LCS) R4152283-1 12/01/24 16:27

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Bromobenzene	0.00500	0.00503	101	73.0-121	
Bromodichloromethane	0.00500	0.00606	121	75.0-120	J4
Bromoform	0.00500	0.00473	94.6	68.0-132	
Bromomethane	0.00500	0.00469	93.8	10.0-160	IJ
n-Butylbenzene	0.00500	0.00518	104	73.0-125	
sec-Butylbenzene	0.00500	0.00503	101	75.0-125	
tert-Butylbenzene	0.00500	0.00486	97.2	76.0-124	
Carbon tetrachloride	0.00500	0.00575	115	68.0-126	
Chlorobenzene	0.00500	0.00493	98.6	80.0-121	
Chlorodibromomethane	0.00500	0.00443	88.6	77.0-125	
Chloroethane	0.00500	0.00405	81.0	47.0-150	IJ
Chloroform	0.00500	0.00596	119	73.0-120	
Chloromethane	0.00500	0.00564	113	41.0-142	
2-Chlorotoluene	0.00500	0.00543	109	76.0-123	
4-Chlorotoluene	0.00500	0.00504	101	75.0-122	
1,2-Dibromo-3-Chloropropane	0.00500	0.00413	82.6	58.0-134	IJ
1,2-Dibromoethane	0.00500	0.00463	92.6	80.0-122	
Dibromomethane	0.00500	0.00583	117	80.0-120	
1,2-Dichlorobenzene	0.00500	0.00486	97.2	79.0-121	
1,3-Dichlorobenzene	0.00500	0.00500	100	79.0-120	
1,4-Dichlorobenzene	0.00500	0.00495	99.0	79.0-120	
Dichlorodifluoromethane	0.00500	0.00654	131	51.0-149	
1,1-Dichloroethane	0.00500	0.00570	114	70.0-126	
1,2-Dichloroethane	0.00500	0.00568	114	70.0-128	
1,1-Dichloroethene	0.00500	0.00500	100	71.0-124	
cis-1,2-Dichloroethene	0.00500	0.00559	112	73.0-120	
trans-1,2-Dichloroethene	0.00500	0.00561	112	73.0-120	
1,2-Dichloropropane	0.00500	0.00552	110	77.0-125	
1,1-Dichloropropene	0.00500	0.00600	120	74.0-126	
1,3-Dichloropropane	0.00500	0.00504	101	80.0-120	
cis-1,3-Dichloropropene	0.00500	0.00558	112	80.0-123	
trans-1,3-Dichloropropene	0.00500	0.00508	102	78.0-124	
2,2-Dichloropropane	0.00500	0.00571	114	58.0-130	
Di-isopropyl ether	0.00500	0.00524	105	58.0-138	
Ethylbenzene	0.00500	0.00476	95.2	79.0-123	
Hexachloro-1,3-butadiene	0.00500	0.00602	120	54.0-138	
Isopropylbenzene	0.00500	0.00486	97.2	76.0-127	
p-Isopropyltoluene	0.00500	0.00493	98.6	76.0-125	
2-Butanone (MEK)	0.0250	0.0255	102	44.0-160	
Methylene Chloride	0.00500	0.00560	112	67.0-120	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R4152283-1 12/01/24 16:27

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
4-Methyl-2-pentanone (MIBK)	0.0250	0.0237	94.8	68.0-142	
Methyl tert-butyl ether	0.00500	0.00495	99.0	68.0-125	
Naphthalene	0.00500	0.00264	52.8	54.0-135	JJ4
n-Propylbenzene	0.00500	0.00518	104	77.0-124	
Styrene	0.00500	0.00455	91.0	73.0-130	
1,1,1,2-Tetrachloroethane	0.00500	0.00461	92.2	75.0-125	
1,1,2,2-Tetrachloroethane	0.00500	0.00548	110	65.0-130	
1,1,2-Trichlorotrifluoroethane	0.00500	0.00517	103	69.0-132	
Tetrachloroethene	0.00500	0.00521	104	72.0-132	
Toluene	0.00500	0.00486	97.2	79.0-120	
1,2,3-Trichlorobenzene	0.00500	0.00337	67.4	50.0-138	
1,2,4-Trichlorobenzene	0.00500	0.00390	78.0	57.0-137	
1,1,1-Trichloroethane	0.00500	0.00612	122	73.0-124	
1,1,2-Trichloroethane	0.00500	0.00478	95.6	80.0-120	
Trichloroethene	0.00500	0.00519	104	78.0-124	
Trichlorofluoromethane	0.00500	0.00617	123	59.0-147	
1,2,3-Trichloropropane	0.00500	0.00572	114	73.0-130	
1,2,4-Trimethylbenzene	0.00500	0.00501	100	76.0-121	
1,2,3-Trimethylbenzene	0.00500	0.00509	102	77.0-120	
1,3,5-Trimethylbenzene	0.00500	0.00503	101	76.0-122	
Vinyl chloride	0.00500	0.00486	97.2	67.0-131	
Xylenes, Total	0.0150	0.0143	95.3	79.0-123	
(S) Toluene-d8			93.4	80.0-120	
(S) 4-Bromofluorobenzene			95.6	77.0-126	
(S) 1,2-Dichloroethane-d4			105	70.0-130	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R4152907-3 12/02/24 22:05

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.00938	0.0250
1,2-Dibromoethane	U		0.00625	0.0250
1,2-Dichloroethane	U		0.0113	0.0250
Ethylbenzene	U		0.00750	0.0250
Toluene	U		0.0308	0.125
Xylenes, Total	U		0.0125	0.0750
Methyl tert-butyl ether	U		0.00875	0.0250
Naphthalene	U		0.125	0.125
1,2,4-Trimethylbenzene	U		0.00528	0.0250
1,3,5-Trimethylbenzene	U		0.00665	0.0250
Isopropylbenzene	U		0.0106	0.0250
n-Propylbenzene	U		0.00515	0.0250
(S) Toluene-d8	101			75.0-131
(S) 4-Bromofluorobenzene	94.6			67.0-138
(S) 1,2-Dichloroethane-d4	114			70.0-130

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4152907-1 12/02/24 20:29 • (LCSD) R4152907-2 12/02/24 20:48

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.00500	0.00505	0.00457	101	91.4	70.0-123			9.98	20
1,2-Dibromoethane	0.00500	0.00472	0.00472	94.4	94.4	74.0-128			0.000	20
1,2-Dichloroethane	0.00500	0.00552	0.00555	110	111	65.0-131			0.542	20
Ethylbenzene	0.00500	0.00468	0.00434	93.6	86.8	74.0-126			7.54	20
Toluene	0.00500	0.00476	0.00434	95.2	86.8	75.0-121	J	J	9.23	20
Xylenes, Total	0.0150	0.0139	0.0128	92.7	85.3	72.0-127			8.24	20
Methyl tert-butyl ether	0.00500	0.00557	0.00543	111	109	66.0-132			2.55	20
Naphthalene	0.00500	0.00262	0.00249	52.4	49.8	59.0-130	J J4	J J4	5.09	20
1,2,4-Trimethylbenzene	0.00500	0.00416	0.00400	83.2	80.0	70.0-126			3.92	20
1,3,5-Trimethylbenzene	0.00500	0.00437	0.00409	87.4	81.8	73.0-127			6.62	20
Isopropylbenzene	0.00500	0.00473	0.00440	94.6	88.0	72.0-127			7.23	20
n-Propylbenzene	0.00500	0.00441	0.00410	88.2	82.0	74.0-126			7.29	20
(S) Toluene-d8				97.5	97.6	75.0-131				
(S) 4-Bromofluorobenzene				93.7	91.8	67.0-138				
(S) 1,2-Dichloroethane-d4				118	117	70.0-130				

Method Blank (MB)

(MB) R4151938-1 11/27/24 23:09

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Diesel Range Organics (DRO)	U		1.33	4.00
Residual Range Organics (RRO)	U		3.33	10.0
<i>(S) o-Terphenyl</i>	77.3			18.0-148

Laboratory Control Sample (LCS)

(LCS) R4151938-2 11/27/24 23:22

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Diesel Range Organics (DRO)	50.0	39.9	79.8	50.0-150	
<i>(S) o-Terphenyl</i>			79.4	18.0-148	

L1803661-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1803661-03 11/27/24 23:34 • (MS) R4151938-3 11/27/24 23:47 • (MSD) R4151938-4 11/27/24 23:59

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Diesel Range Organics (DRO)	48.8	U	37.6	31.3	77.0	64.1	1	50.0-150			18.3	20
<i>(S) o-Terphenyl</i>					76.6	63.4		18.0-148				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R4153215-2 12/03/24 14:58

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	U		0.00230	0.00600
Acenaphthene	U		0.00209	0.00600
Benzo(a)anthracene	U		0.00173	0.00600
Benzo(a)pyrene	U		0.00179	0.00600
Benzo(b)fluoranthene	U		0.00153	0.00600
Benzo(k)fluoranthene	U		0.00215	0.00600
Chrysene	U		0.00232	0.00600
Dibenz(a,h)anthracene	U		0.00172	0.00600
Fluoranthene	U		0.00227	0.00600
Fluorene	U		0.00205	0.00600
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600
Naphthalene	U		0.00408	0.0200
Pyrene	U		0.00200	0.00600
(S) p-Terphenyl-d14	63.3			23.0-120
(S) Nitrobenzene-d5	51.8			14.0-149
(S) 2-Fluorobiphenyl	57.2			34.0-125

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Laboratory Control Sample (LCS)

(LCS) R4153215-1 12/03/24 14:41

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.0800	0.0906	113	50.0-126	
Acenaphthene	0.0800	0.0838	105	50.0-120	
Benzo(a)anthracene	0.0800	0.0927	116	45.0-120	
Benzo(a)pyrene	0.0800	0.0806	101	42.0-120	
Benzo(b)fluoranthene	0.0800	0.0952	119	42.0-121	
Benzo(k)fluoranthene	0.0800	0.0942	118	49.0-125	
Chrysene	0.0800	0.0977	122	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0975	122	47.0-125	
Fluoranthene	0.0800	0.0980	123	49.0-129	
Fluorene	0.0800	0.0938	117	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0957	120	46.0-125	
Naphthalene	0.0800	0.0862	108	50.0-120	
Pyrene	0.0800	0.0958	120	43.0-123	
(S) p-Terphenyl-d14			64.6	23.0-120	
(S) Nitrobenzene-d5			57.9	14.0-149	
(S) 2-Fluorobiphenyl			62.8	34.0-125	

L1803661-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1803661-03 12/02/24 22:49 • (MS) R4154524-1 12/02/24 23:06 • (MSD) R4154524-2 12/02/24 23:23

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Anthracene	0.0780	U	0.0562	0.0614	72.1	78.7	1	10.0-145			8.84	30
Acenaphthene	0.0780	U	0.0628	0.0684	80.5	87.7	1	14.0-127			8.54	27
Benzo(a)anthracene	0.0780	U	0.0539	0.0604	69.1	77.4	1	10.0-139			11.4	30
Benzo(a)pyrene	0.0780	U	0.0588	0.0656	75.4	84.1	1	10.0-141			10.9	31
Benzo(b)fluoranthene	0.0780	U	0.0610	0.0709	78.2	90.9	1	10.0-140			15.0	36
Benzo(k)fluoranthene	0.0780	U	0.0594	0.0644	76.2	82.6	1	10.0-137			8.08	31
Chrysene	0.0780	U	0.0644	0.0724	82.6	92.8	1	10.0-145			11.7	30
Dibenz(a,h)anthracene	0.0780	U	0.0547	0.0631	70.1	80.9	1	10.0-132			14.3	31
Fluoranthene	0.0780	U	0.0652	0.0717	83.6	91.9	1	10.0-153			9.50	33
Fluorene	0.0780	U	0.0655	0.0706	84.0	90.5	1	11.0-130			7.49	29
Indeno(1,2,3-cd)pyrene	0.0780	U	0.0542	0.0622	69.5	79.7	1	10.0-137			13.7	32
Naphthalene	0.0780	U	0.0674	0.0714	86.4	91.5	1	10.0-135			5.76	27
Pyrene	0.0780	U	0.0701	0.0760	89.9	97.4	1	10.0-148			8.08	35
(S) p-Terphenyl-d14					47.1	51.3		23.0-120				
(S) Nitrobenzene-d5					38.9	41.6		14.0-149				
(S) 2-Fluorobiphenyl					49.4	52.9		34.0-125				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R4152842-2 12/02/24 18:12

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	U		0.00230	0.00600
Acenaphthene	U		0.00209	0.00600
Benzo(a)anthracene	U		0.00173	0.00600
Benzo(a)pyrene	U		0.00179	0.00600
Benzo(b)fluoranthene	U		0.00153	0.00600
Benzo(k)fluoranthene	U		0.00215	0.00600
Chrysene	U		0.00232	0.00600
Dibenz(a,h)anthracene	U		0.00172	0.00600
Fluoranthene	U		0.00227	0.00600
Fluorene	U		0.00205	0.00600
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600
Naphthalene	U		0.00408	0.0200
Pyrene	U		0.00200	0.00600
(S) p-Terphenyl-d14	44.6			23.0-120
(S) Nitrobenzene-d5	42.6			14.0-149
(S) 2-Fluorobiphenyl	41.4			34.0-125

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Laboratory Control Sample (LCS)

(LCS) R4152842-1 12/02/24 17:54

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.0800	0.0702	87.8	50.0-126	
Acenaphthene	0.0800	0.0591	73.9	50.0-120	
Benzo(a)anthracene	0.0800	0.0713	89.1	45.0-120	
Benzo(a)pyrene	0.0800	0.0591	73.9	42.0-120	
Benzo(b)fluoranthene	0.0800	0.0671	83.9	42.0-121	
Benzo(k)fluoranthene	0.0800	0.0649	81.1	49.0-125	
Chrysene	0.0800	0.0679	84.9	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0679	84.9	47.0-125	
Fluoranthene	0.0800	0.0716	89.5	49.0-129	
Fluorene	0.0800	0.0659	82.4	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0671	83.9	46.0-125	
Naphthalene	0.0800	0.0626	78.3	50.0-120	
Pyrene	0.0800	0.0618	77.3	43.0-123	
(S) p-Terphenyl-d14			41.0	23.0-120	
(S) Nitrobenzene-d5			40.9	14.0-149	
(S) 2-Fluorobiphenyl			36.8	34.0-125	

L1803680-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1803680-02 12/02/24 22:54 • (MS) R4152842-3 12/02/24 23:12 • (MSD) R4152842-4 12/02/24 23:29

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Anthracene	0.0784	U	0.0564	0.0572	71.9	73.0	1	10.0-145			1.41	30
Acenaphthene	0.0784	U	0.0498	0.0476	63.5	60.7	1	14.0-127			4.52	27
Benzo(a)anthracene	0.0784	U	0.0531	0.0541	67.7	69.0	1	10.0-139			1.87	30
Benzo(a)pyrene	0.0784	U	0.0478	0.0491	61.0	62.6	1	10.0-141			2.68	31
Benzo(b)fluoranthene	0.0784	U	0.0481	0.0495	61.4	63.1	1	10.0-140			2.87	36
Benzo(k)fluoranthene	0.0784	U	0.0465	0.0478	59.3	61.0	1	10.0-137			2.76	31
Chrysene	0.0784	U	0.0499	0.0519	63.6	66.2	1	10.0-145			3.93	30
Dibenz(a,h)anthracene	0.0784	U	0.0491	0.0508	62.6	64.8	1	10.0-132			3.40	31
Fluoranthene	0.0784	U	0.0547	0.0556	69.8	70.9	1	10.0-153			1.63	33
Fluorene	0.0784	U	0.0539	0.0543	68.8	69.3	1	11.0-130			0.739	29
Indeno(1,2,3-cd)pyrene	0.0784	U	0.0503	0.0500	64.2	63.8	1	10.0-137			0.598	32
Naphthalene	0.0784	U	0.0549	0.0490	70.0	62.5	1	10.0-135			11.4	27
Pyrene	0.0784	U	0.0474	0.0486	60.5	62.0	1	10.0-148			2.50	35
(S) p-Terphenyl-d14					29.7	35.9		23.0-120				
(S) Nitrobenzene-d5					32.8	39.0		14.0-149				
(S) 2-Fluorobiphenyl					30.7	37.2		34.0-125	J2			

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

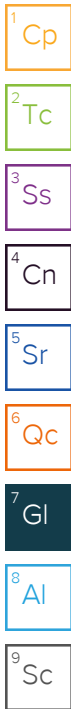
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits.
J4	The associated batch QC was outside the established quality control range for accuracy.



ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Company Name/Address:
Eastern Research Group Inc- Concord, MA
 561 Virginia Road Bldg. 4

Billing Information:
Accounts Payable
 561 Virginia Road Bldg. 4
 Suite 300
 Concord, MA 01742

Pres
 Chk

Analysis / Container / Preservative

Chain of Custody Page 1 of 1



MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at:
<https://info.pacelabs.com/hubs/pas-standard-terms.pdf>

Report to:
Sarah Weppner

Email To:
 sedrek.kovar@erg.com; sarah.weppner@alta-

Project Description:
 2450 Altamont Drive

City/State Collected: **Klamath Falls, OR**

Please Circle:
 MT CT ET

Phone:

Client Project #
0425.00.016.080

Lab Project #
EASRESCMA-ID

Collected by (print):
Brady Brantley / Sedrek Kovar

Site/Facility ID #

P.O. #

Collected by (signature):
[Signature]

Rush? (Lab MUST Be Notified)
 Same Day Five Day
 Next Day 5 Day (Rad Only)
 Two Day 10 Day (Rad Only)
 Three Day **STDTAT**

Quote #

Immediately Packed on Ice N Y

Date Results Needed

No. of Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	NWTPHDX 4ozClr-NoPres	NWTPHGX 40mlAmb/MeOH10ml/Syr	PFAS 1633 PFAS-90mlPP-NoPres	SV8270PAHSIM 4ozClr-NoPres	Total Pb 2ozClr-NoPres	V8260AP9 40ml/NaHSO4/Syr/MeOH	HCL Trip Blank 8260	Remarks	Sample # (lab only)
ATMT-BH1-SG-12'	Grab	SS	12'	11/18/24	1045	7	X	X	X	X	X	X			-01
ATMT-BH1-SG-12'-Dup	Grab	SS	12'	11/18/24	1050	7	X	X	X	X	X	X			-02
ATMT-BH2-SG-2-10"	Grab	SS	10'	11/18/24	1235	7	X	X	X	X	X	X			703
ATMT-BH2-SG-2-10"-ms/msd	Grab	SS	10'	11/18/24	1240	7	X	X	X	X	X	X		ms/msd	703
ATMT-BH3-SG-8'	Grab	SS	8'	11/18/24	1510	7	X	X	X	X	X	X			-04
ATMT-BH4-SG-8.5'	Grab	SS	8.5'	11/19/24	0920	7	X	X	X	X	X	X			-05
Trip Blank		SS											X	Trip Blank	-06
		SS													
		SS													
		SS													

* Matrix:
 SS - Soil AIR - Air F - Filter
 GW - Groundwater B - Bioassay
 WW - WasteWater
 DW - Drinking Water
 OT - Other _____

Remarks: *Run trip blank + ms/msd w/ own sample batch.*

pH _____ Temp _____
 Flow _____ Other _____

Sample Receipt Checklist
 COC Seal Present/Intact: NP Y N
 COC Signed/Accurate: Y N
 Bottles arrive intact: Y N
 Correct bottles used: Y N
 Sufficient volume sent: Y N
If Applicable
 VOA Zero Headspace: Y N
 Preservation Correct/Checked: Y N
 RAD Screen <0.5 mR/hr: Y N

Samples returned via:
 UPS FedEx Courier _____

Tracking # **4104/04939372**

Relinquished by: (Signature)
[Signature]

Date: **11/22/24**
 Time: **1208**

Received by: (Signature)

Trip Blank Received: Yes/No
 HCL MeOH
 TBR

Relinquished by: (Signature)

Date: _____
 Time: _____

Received by: (Signature)

Temp: **12.90** °C
 Bottles Received: **10-04/2**

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date: _____
 Time: _____

Received by: (Signature)
[Signature]

Date: **11/23/24**
 Time: **1508**

Hold: _____
 Condition: **NCF / OK**



ANALYTICAL REPORT

January 06, 2025

Revised Report

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Eastern Research Group Inc- Concord, MA

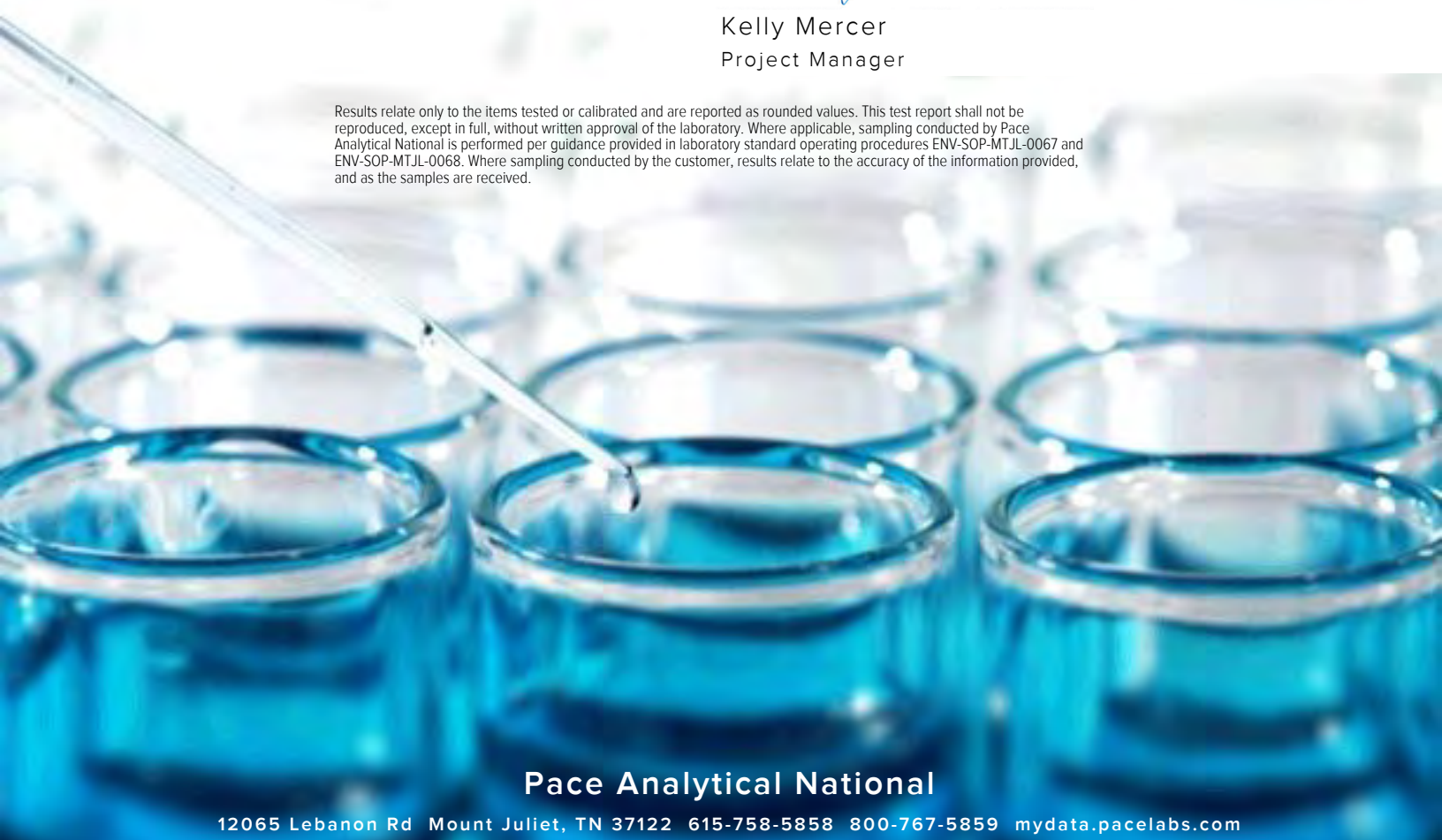
Sample Delivery Group: L1803680
 Samples Received: 11/23/2024
 Project Number: 0425.00.016.080
 Description: 2450 Altamont Drive

Report To: Sarah Weppner
 561 Virginia Road Bldg. 4
 Suite 300
 Concord, MA 01742

Entire Report Reviewed By:

Kelly Mercer
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

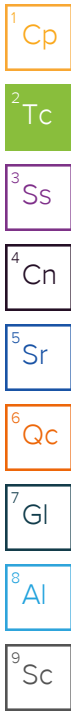


Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

TABLE OF CONTENTS

Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	3
Cn: Case Narrative	4
Sr: Sample Results	5
ATMT-BH4-SG-5' L1803680-01	5
ATMT-BH5-SG-7.5' L1803680-02	7
ATMT-BH6-SG-4' L1803680-03	9
ATMT-BH6-SG-8' L1803680-04	11
TRIP BLANK L1803680-05	13
Qc: Quality Control Summary	15
Total Solids by Method 2540 G-2011	15
Metals (ICP) by Method 6010B	16
Volatile Organic Compounds (GC) by Method NWTPHGX	17
Volatile Organic Compounds (GC/MS) by Method 8260B	18
Volatile Organic Compounds (GC/MS) by Method 8260D	22
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	23
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	25
Gl: Glossary of Terms	27
Al: Accreditations & Locations	28
Sc: Sample Chain of Custody	29

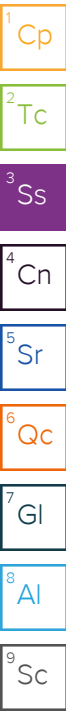


SAMPLE SUMMARY

ATMT-BH4-SG-5' L1803680-01 Solid

Collected by BB/SK Collected date/time 11/19/24 09:00 Received date/time 11/23/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2409131	1	11/27/24 11:11	11/27/24 11:27	MT	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2409041	1	12/03/24 17:59	12/04/24 10:22	DJS	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2411166	520	11/19/24 09:00	12/02/24 19:55	CDD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2411610	1040	11/19/24 09:00	12/03/24 01:22	GLN	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG2409424	1	11/27/24 08:01	11/30/24 14:10	JAS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2410751	1	12/02/24 07:43	12/02/24 22:19	JCH	Mt. Juliet, TN



ATMT-BH5-SG-7.5' L1803680-02 Solid

Collected by BB/SK Collected date/time 11/19/24 10:55 Received date/time 11/23/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2409131	1	11/27/24 11:11	11/27/24 11:27	MT	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2409041	1	12/03/24 17:59	12/04/24 10:24	DJS	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2411166	25	11/19/24 10:55	12/02/24 15:00	CDD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2411610	25	11/19/24 10:55	12/03/24 00:25	GLN	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG2409424	1	11/27/24 08:01	11/28/24 00:12	KKS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2410751	1	12/02/24 07:43	12/02/24 22:54	JCH	Mt. Juliet, TN

ATMT-BH6-SG-4' L1803680-03 Solid

Collected by BB/SK Collected date/time 11/19/24 12:10 Received date/time 11/23/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2409131	1	11/27/24 11:11	11/27/24 11:27	MT	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2409041	1	12/03/24 17:59	12/04/24 10:27	DJS	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2411166	25	11/19/24 12:10	12/02/24 15:22	CDD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2411610	25	11/19/24 12:10	12/03/24 00:44	GLN	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG2409424	100	11/27/24 08:01	11/30/24 14:52	JAS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2410751	1	12/02/24 07:43	12/02/24 23:47	ALM	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2410751	20	12/02/24 07:43	12/04/24 03:24	ALM	Mt. Juliet, TN

ATMT-BH6-SG-8' L1803680-04 Solid

Collected by BB/SK Collected date/time 11/19/24 12:20 Received date/time 11/23/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2409131	1	11/27/24 11:11	11/27/24 11:27	MT	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2409041	1	12/03/24 17:59	12/04/24 09:44	DJS	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2411166	25	11/19/24 12:20	12/02/24 15:45	CDD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2411610	25	11/19/24 12:20	12/03/24 01:03	GLN	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG2410762	1	12/02/24 09:09	12/02/24 22:00	KKS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2410751	1	12/02/24 07:43	12/02/24 22:37	JCH	Mt. Juliet, TN

TRIP BLANK L1803680-05 GW

Collected by BB/SK Collected date/time 11/19/24 00:00 Received date/time 11/23/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260B	WG2411635	1	12/03/24 02:17	12/03/24 02:17	JHH	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Kelly Mercer
Project Manager

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Report Revision History

Level II Report - Version 1: 12/11/24 14:09
Level II Report - Version 2: 01/02/25 13:04

Project Narrative

revised parameter lists

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	76.5		1	11/27/2024 11:27	WG2409131

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Lead	15.4		0.208	0.500	1	12/04/2024 10:22	WG2409041

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	1280		17.6	52.0	520	12/02/2024 19:55	WG2411166
(S) a,a,a-Trifluorotoluene(FID)	108			77.0-120		12/02/2024 19:55	WG2411166

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Benzene	13.1		0.390	1.04	1040	12/03/2024 01:22	WG2411610
1,2-Dibromoethane	U		0.260	1.04	1040	12/03/2024 01:22	WG2411610
1,2-Dichloroethane	U		0.468	1.04	1040	12/03/2024 01:22	WG2411610
Ethylbenzene	10.0		0.312	1.04	1040	12/03/2024 01:22	WG2411610
Toluene	U		1.28	5.20	1040	12/03/2024 01:22	WG2411610
Xylenes, Total	U		0.520	3.12	1040	12/03/2024 01:22	WG2411610
Methyl tert-butyl ether	U		0.364	1.04	1040	12/03/2024 01:22	WG2411610
Naphthalene	U	C3 J4	5.18	5.20	1040	12/03/2024 01:22	WG2411610
1,2,4-Trimethylbenzene	U		0.219	1.04	1040	12/03/2024 01:22	WG2411610
1,3,5-Trimethylbenzene	U		0.277	1.04	1040	12/03/2024 01:22	WG2411610
Isopropylbenzene	4.51		0.442	1.04	1040	12/03/2024 01:22	WG2411610
n-Propylbenzene	23.2		0.214	1.04	1040	12/03/2024 01:22	WG2411610
(S) Toluene-d8	94.1			75.0-131		12/03/2024 01:22	WG2411610
(S) 4-Bromofluorobenzene	88.6			67.0-138		12/03/2024 01:22	WG2411610
(S) 1,2-Dichloroethane-d4	117			70.0-130		12/03/2024 01:22	WG2411610

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

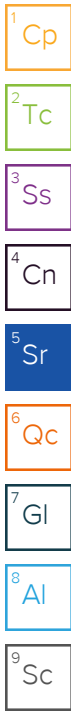
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	26.2		1.33	4.00	1	11/30/2024 14:10	WG2409424
Residual Range Organics (RRO)	36.2		3.33	10.0	1	11/30/2024 14:10	WG2409424
(S) o-Terphenyl	91.6			18.0-148		11/30/2024 14:10	WG2409424

Sample Narrative:

L1803680-01 WG2409424: Sample resembles laboratory standards for Diesel and Hydraulic Oil..

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Anthracene	U		0.00230	0.00600	1	12/02/2024 22:19	WG2410751
Acenaphthene	0.00397	J	0.00209	0.00600	1	12/02/2024 22:19	WG2410751
Benzo(a)anthracene	U		0.00173	0.00600	1	12/02/2024 22:19	WG2410751
Benzo(a)pyrene	U		0.00179	0.00600	1	12/02/2024 22:19	WG2410751
Benzo(b)fluoranthene	U		0.00153	0.00600	1	12/02/2024 22:19	WG2410751
Benzo(k)fluoranthene	U		0.00215	0.00600	1	12/02/2024 22:19	WG2410751
Chrysene	U		0.00232	0.00600	1	12/02/2024 22:19	WG2410751



Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	12/02/2024 22:19	WG2410751
Fluoranthene	U		0.00227	0.00600	1	12/02/2024 22:19	WG2410751
Fluorene	0.00489	<u>J</u>	0.00205	0.00600	1	12/02/2024 22:19	WG2410751
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	12/02/2024 22:19	WG2410751
Naphthalene	0.389		0.00408	0.0200	1	12/02/2024 22:19	WG2410751
Pyrene	0.00276	<u>J</u>	0.00200	0.00600	1	12/02/2024 22:19	WG2410751
<i>(S)</i> p-Terphenyl-d14	30.8			23.0-120		12/02/2024 22:19	WG2410751
<i>(S)</i> Nitrobenzene-d5	51.7			14.0-149		12/02/2024 22:19	WG2410751
<i>(S)</i> 2-Fluorobiphenyl	31.6	<u>J2</u>		34.0-125		12/02/2024 22:19	WG2410751

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	80.7		1	11/27/2024 11:27	WG2409131

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Lead	3.88		0.208	0.500	1	12/04/2024 10:24	WG2409041

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Gasoline Range Organics-NWTPH	U		0.848	2.50	25	12/02/2024 15:00	WG2411166
(S) a,a,a-Trifluorotoluene(FID)	103			77.0-120		12/02/2024 15:00	WG2411166

Volatile Organic Compounds (GC/MS) by Method 8260D

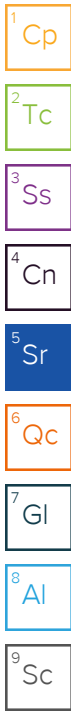
Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	U		0.00938	0.0250	25	12/03/2024 00:25	WG2411610
1,2-Dibromoethane	U		0.00625	0.0250	25	12/03/2024 00:25	WG2411610
1,2-Dichloroethane	U		0.0113	0.0250	25	12/03/2024 00:25	WG2411610
Ethylbenzene	U		0.00750	0.0250	25	12/03/2024 00:25	WG2411610
Toluene	U		0.0308	0.125	25	12/03/2024 00:25	WG2411610
Xylenes, Total	U		0.0125	0.0750	25	12/03/2024 00:25	WG2411610
Methyl tert-butyl ether	U		0.00875	0.0250	25	12/03/2024 00:25	WG2411610
Naphthalene	U	C3 J4	0.125	0.125	25	12/03/2024 00:25	WG2411610
1,2,4-Trimethylbenzene	U		0.00528	0.0250	25	12/03/2024 00:25	WG2411610
1,3,5-Trimethylbenzene	U		0.00665	0.0250	25	12/03/2024 00:25	WG2411610
Isopropylbenzene	U		0.0106	0.0250	25	12/03/2024 00:25	WG2411610
n-Propylbenzene	U		0.00515	0.0250	25	12/03/2024 00:25	WG2411610
(S) Toluene-d8	99.2			75.0-131		12/03/2024 00:25	WG2411610
(S) 4-Bromofluorobenzene	92.1			67.0-138		12/03/2024 00:25	WG2411610
(S) 1,2-Dichloroethane-d4	112			70.0-130		12/03/2024 00:25	WG2411610

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	U		1.33	4.00	1	11/28/2024 00:12	WG2409424
Residual Range Organics (RRO)	U		3.33	10.0	1	11/28/2024 00:12	WG2409424
(S) o-Terphenyl	71.6			18.0-148		11/28/2024 00:12	WG2409424

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	U		0.00230	0.00600	1	12/02/2024 22:54	WG2410751
Acenaphthene	U		0.00209	0.00600	1	12/02/2024 22:54	WG2410751
Benzo(a)anthracene	U		0.00173	0.00600	1	12/02/2024 22:54	WG2410751
Benzo(a)pyrene	U		0.00179	0.00600	1	12/02/2024 22:54	WG2410751
Benzo(b)fluoranthene	U		0.00153	0.00600	1	12/02/2024 22:54	WG2410751
Benzo(k)fluoranthene	U		0.00215	0.00600	1	12/02/2024 22:54	WG2410751
Chrysene	U		0.00232	0.00600	1	12/02/2024 22:54	WG2410751
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	12/02/2024 22:54	WG2410751
Fluoranthene	U		0.00227	0.00600	1	12/02/2024 22:54	WG2410751
Fluorene	U		0.00205	0.00600	1	12/02/2024 22:54	WG2410751



Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	12/02/2024 22:54	WG2410751
Naphthalene	U		0.00408	0.0200	1	12/02/2024 22:54	WG2410751
Pyrene	U		0.00200	0.00600	1	12/02/2024 22:54	WG2410751
(S) p-Terphenyl-d14	25.9			23.0-120		12/02/2024 22:54	WG2410751
(S) Nitrobenzene-d5	34.0			14.0-149		12/02/2024 22:54	WG2410751
(S) 2-Fluorobiphenyl	31.0	J2		34.0-125		12/02/2024 22:54	WG2410751

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	79.0		1	11/27/2024 11:27	WG2409131

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Lead	21.5		0.208	0.500	1	12/04/2024 10:27	WG2409041

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Gasoline Range Organics-NWTPH	113		0.848	2.50	25	12/02/2024 15:22	WG2411166
(S) a,a,a-Trifluorotoluene(FID)	119			77.0-120		12/02/2024 15:22	WG2411166

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Benzene	0.0516		0.00938	0.0250	25	12/03/2024 00:44	WG2411610
1,2-Dibromoethane	U		0.00625	0.0250	25	12/03/2024 00:44	WG2411610
1,2-Dichloroethane	U		0.0113	0.0250	25	12/03/2024 00:44	WG2411610
Ethylbenzene	U		0.00750	0.0250	25	12/03/2024 00:44	WG2411610
Toluene	U		0.0308	0.125	25	12/03/2024 00:44	WG2411610
Xylenes, Total	0.408		0.0125	0.0750	25	12/03/2024 00:44	WG2411610
Methyl tert-butyl ether	U		0.00875	0.0250	25	12/03/2024 00:44	WG2411610
Naphthalene	U	C3 J4	0.125	0.125	25	12/03/2024 00:44	WG2411610
1,2,4-Trimethylbenzene	0.0309		0.00528	0.0250	25	12/03/2024 00:44	WG2411610
1,3,5-Trimethylbenzene	0.0196	J	0.00665	0.0250	25	12/03/2024 00:44	WG2411610
Isopropylbenzene	0.0358		0.0106	0.0250	25	12/03/2024 00:44	WG2411610
n-Propylbenzene	0.0429		0.00515	0.0250	25	12/03/2024 00:44	WG2411610
(S) Toluene-d8	96.0			75.0-131		12/03/2024 00:44	WG2411610
(S) 4-Bromofluorobenzene	92.7			67.0-138		12/03/2024 00:44	WG2411610
(S) 1,2-Dichloroethane-d4	119			70.0-130		12/03/2024 00:44	WG2411610

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Diesel Range Organics (DRO)	1020		133	400	100	11/30/2024 14:52	WG2409424
Residual Range Organics (RRO)	9170		333	1000	100	11/30/2024 14:52	WG2409424
(S) o-Terphenyl	0.000	J7		18.0-148		11/30/2024 14:52	WG2409424

Sample Narrative:

L1803680-03 WG2409424: Sample resembles laboratory standard for Hydraulic Oil.

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Anthracene	0.00478	J	0.00230	0.00600	1	12/02/2024 23:47	WG2410751
Acenaphthene	0.00684		0.00209	0.00600	1	12/02/2024 23:47	WG2410751
Benzo(a)anthracene	0.00620		0.00173	0.00600	1	12/02/2024 23:47	WG2410751
Benzo(a)pyrene	0.0440	J	0.0358	0.120	20	12/04/2024 03:24	WG2410751
Benzo(b)fluoranthene	U		0.0306	0.120	20	12/04/2024 03:24	WG2410751
Benzo(k)fluoranthene	U		0.0430	0.120	20	12/04/2024 03:24	WG2410751
Chrysene	U		0.00232	0.00600	1	12/02/2024 23:47	WG2410751

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Dibenz(a,h)anthracene	U		0.0344	0.120	20	12/04/2024 03:24	WG2410751
Fluoranthene	0.0381		0.00227	0.00600	1	12/02/2024 23:47	WG2410751
Fluorene	0.0113		0.00205	0.00600	1	12/02/2024 23:47	WG2410751
Indeno(1,2,3-cd)pyrene	U		0.0362	0.120	20	12/04/2024 03:24	WG2410751
Naphthalene	0.0405		0.00408	0.0200	1	12/02/2024 23:47	WG2410751
Pyrene	0.0785		0.00200	0.00600	1	12/02/2024 23:47	WG2410751
(S) p-Terphenyl-d14	41.9			23.0-120		12/02/2024 23:47	WG2410751
(S) p-Terphenyl-d14	47.4	J7		23.0-120		12/04/2024 03:24	WG2410751
(S) Nitrobenzene-d5	46.6	J7		14.0-149		12/04/2024 03:24	WG2410751
(S) Nitrobenzene-d5	40.7			14.0-149		12/02/2024 23:47	WG2410751
(S) 2-Fluorobiphenyl	42.2	J7		34.0-125		12/04/2024 03:24	WG2410751
(S) 2-Fluorobiphenyl	41.3			34.0-125		12/02/2024 23:47	WG2410751

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	82.6		1	11/27/2024 11:27	WG2409131

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Lead	3.45		0.208	0.500	1	12/04/2024 09:44	WG2409041

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Gasoline Range Organics-NWTPH	U		0.848	2.50	25	12/02/2024 15:45	WG2411166
(S) a,a,a-Trifluorotoluene(FID)	104			77.0-120		12/02/2024 15:45	WG2411166

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Benzene	0.0209	J	0.00938	0.0250	25	12/03/2024 01:03	WG2411610
1,2-Dibromoethane	U		0.00625	0.0250	25	12/03/2024 01:03	WG2411610
1,2-Dichloroethane	U		0.0113	0.0250	25	12/03/2024 01:03	WG2411610
Ethylbenzene	U		0.00750	0.0250	25	12/03/2024 01:03	WG2411610
Toluene	U		0.0308	0.125	25	12/03/2024 01:03	WG2411610
Xylenes, Total	U		0.0125	0.0750	25	12/03/2024 01:03	WG2411610
Methyl tert-butyl ether	U		0.00875	0.0250	25	12/03/2024 01:03	WG2411610
Naphthalene	U	C3 J4	0.125	0.125	25	12/03/2024 01:03	WG2411610
1,2,4-Trimethylbenzene	U		0.00528	0.0250	25	12/03/2024 01:03	WG2411610
1,3,5-Trimethylbenzene	U		0.00665	0.0250	25	12/03/2024 01:03	WG2411610
Isopropylbenzene	U		0.0106	0.0250	25	12/03/2024 01:03	WG2411610
n-Propylbenzene	U		0.00515	0.0250	25	12/03/2024 01:03	WG2411610
(S) Toluene-d8	103			75.0-131		12/03/2024 01:03	WG2411610
(S) 4-Bromofluorobenzene	94.4			67.0-138		12/03/2024 01:03	WG2411610
(S) 1,2-Dichloroethane-d4	111			70.0-130		12/03/2024 01:03	WG2411610

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Diesel Range Organics (DRO)	U		1.33	4.00	1	12/02/2024 22:00	WG2410762
Residual Range Organics (RRO)	U		3.33	10.0	1	12/02/2024 22:00	WG2410762
(S) o-Terphenyl	63.4			18.0-148		12/02/2024 22:00	WG2410762

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Anthracene	U		0.00230	0.00600	1	12/02/2024 22:37	WG2410751
Acenaphthene	U		0.00209	0.00600	1	12/02/2024 22:37	WG2410751
Benzo(a)anthracene	U		0.00173	0.00600	1	12/02/2024 22:37	WG2410751
Benzo(a)pyrene	U		0.00179	0.00600	1	12/02/2024 22:37	WG2410751
Benzo(b)fluoranthene	U		0.00153	0.00600	1	12/02/2024 22:37	WG2410751
Benzo(k)fluoranthene	U		0.00215	0.00600	1	12/02/2024 22:37	WG2410751
Chrysene	U		0.00232	0.00600	1	12/02/2024 22:37	WG2410751
Dibenz(a,h)anthracene	U		0.00172	0.00600	1	12/02/2024 22:37	WG2410751
Fluoranthene	U		0.00227	0.00600	1	12/02/2024 22:37	WG2410751
Fluorene	U		0.00205	0.00600	1	12/02/2024 22:37	WG2410751



Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600	1	12/02/2024 22:37	WG2410751
Naphthalene	U		0.00408	0.0200	1	12/02/2024 22:37	WG2410751
Pyrene	U		0.00200	0.00600	1	12/02/2024 22:37	WG2410751
(S) p-Terphenyl-d14	30.0			23.0-120		12/02/2024 22:37	WG2410751
(S) Nitrobenzene-d5	46.3			14.0-149		12/02/2024 22:37	WG2410751
(S) 2-Fluorobiphenyl	41.7			34.0-125		12/02/2024 22:37	WG2410751

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Acetone	U		0.0113	0.0500	1	12/03/2024 02:17	WG2411635
Acrolein	U		0.00254	0.0500	1	12/03/2024 02:17	WG2411635
Acrylonitrile	U		0.000671	0.0100	1	12/03/2024 02:17	WG2411635
Benzene	U		0.0000941	0.00100	1	12/03/2024 02:17	WG2411635
Bromobenzene	U		0.000118	0.00100	1	12/03/2024 02:17	WG2411635
Bromodichloromethane	U		0.000136	0.00100	1	12/03/2024 02:17	WG2411635
Bromoform	U		0.000129	0.00100	1	12/03/2024 02:17	WG2411635
Bromomethane	U		0.000605	0.00500	1	12/03/2024 02:17	WG2411635
n-Butylbenzene	U		0.000157	0.00100	1	12/03/2024 02:17	WG2411635
sec-Butylbenzene	U		0.000125	0.00100	1	12/03/2024 02:17	WG2411635
tert-Butylbenzene	U		0.000127	0.00100	1	12/03/2024 02:17	WG2411635
Carbon tetrachloride	U		0.000128	0.00100	1	12/03/2024 02:17	WG2411635
Chlorobenzene	U		0.000116	0.00100	1	12/03/2024 02:17	WG2411635
Chlorodibromomethane	U		0.000140	0.00100	1	12/03/2024 02:17	WG2411635
Chloroethane	U		0.000192	0.00500	1	12/03/2024 02:17	WG2411635
Chloroform	U		0.000111	0.00500	1	12/03/2024 02:17	WG2411635
Chloromethane	U		0.000960	0.00250	1	12/03/2024 02:17	WG2411635
2-Chlorotoluene	U		0.000106	0.00100	1	12/03/2024 02:17	WG2411635
4-Chlorotoluene	U		0.000114	0.00100	1	12/03/2024 02:17	WG2411635
1,2-Dibromo-3-Chloropropane	U		0.000276	0.00500	1	12/03/2024 02:17	WG2411635
1,2-Dibromoethane	U		0.000126	0.00100	1	12/03/2024 02:17	WG2411635
Dibromomethane	U		0.000122	0.00100	1	12/03/2024 02:17	WG2411635
1,2-Dichlorobenzene	U		0.000107	0.00100	1	12/03/2024 02:17	WG2411635
1,3-Dichlorobenzene	U		0.000110	0.00100	1	12/03/2024 02:17	WG2411635
1,4-Dichlorobenzene	U		0.000120	0.00100	1	12/03/2024 02:17	WG2411635
Dichlorodifluoromethane	U		0.000374	0.00500	1	12/03/2024 02:17	WG2411635
1,1-Dichloroethane	U		0.000100	0.00100	1	12/03/2024 02:17	WG2411635
1,2-Dichloroethane	U		0.0000819	0.00100	1	12/03/2024 02:17	WG2411635
1,1-Dichloroethene	U		0.000188	0.00100	1	12/03/2024 02:17	WG2411635
cis-1,2-Dichloroethene	U		0.000126	0.00100	1	12/03/2024 02:17	WG2411635
trans-1,2-Dichloroethene	U		0.000149	0.00100	1	12/03/2024 02:17	WG2411635
1,2-Dichloropropane	U		0.000149	0.00100	1	12/03/2024 02:17	WG2411635
1,1-Dichloropropene	U		0.000142	0.00100	1	12/03/2024 02:17	WG2411635
1,3-Dichloropropane	U		0.000110	0.00100	1	12/03/2024 02:17	WG2411635
cis-1,3-Dichloropropene	U		0.000111	0.00100	1	12/03/2024 02:17	WG2411635
trans-1,3-Dichloropropene	U		0.000118	0.00100	1	12/03/2024 02:17	WG2411635
2,2-Dichloropropane	U		0.000161	0.00100	1	12/03/2024 02:17	WG2411635
Di-isopropyl ether	U		0.000105	0.00100	1	12/03/2024 02:17	WG2411635
Ethylbenzene	U		0.000137	0.00100	1	12/03/2024 02:17	WG2411635
Hexachloro-1,3-butadiene	U		0.000337	0.00100	1	12/03/2024 02:17	WG2411635
Isopropylbenzene	U		0.000105	0.00100	1	12/03/2024 02:17	WG2411635
p-Isopropyltoluene	U		0.000120	0.00100	1	12/03/2024 02:17	WG2411635
2-Butanone (MEK)	U		0.00119	0.0100	1	12/03/2024 02:17	WG2411635
Methylene Chloride	U		0.000430	0.00500	1	12/03/2024 02:17	WG2411635
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100	1	12/03/2024 02:17	WG2411635
Methyl tert-butyl ether	U		0.000101	0.00100	1	12/03/2024 02:17	WG2411635
Naphthalene	U		0.00100	0.00500	1	12/03/2024 02:17	WG2411635
n-Propylbenzene	U		0.0000993	0.00100	1	12/03/2024 02:17	WG2411635
Styrene	U		0.000118	0.00100	1	12/03/2024 02:17	WG2411635
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100	1	12/03/2024 02:17	WG2411635
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100	1	12/03/2024 02:17	WG2411635
1,1,2-Trichlorotrifluoroethane	U		0.000180	0.00100	1	12/03/2024 02:17	WG2411635
Tetrachloroethene	U		0.000300	0.00100	1	12/03/2024 02:17	WG2411635
Toluene	U		0.000278	0.00100	1	12/03/2024 02:17	WG2411635
1,2,3-Trichlorobenzene	U		0.000230	0.00100	1	12/03/2024 02:17	WG2411635
1,2,4-Trichlorobenzene	U		0.000481	0.00100	1	12/03/2024 02:17	WG2411635

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	U		0.000149	0.00100	1	12/03/2024 02:17	WG2411635
1,1,2-Trichloroethane	U		0.000158	0.00100	1	12/03/2024 02:17	WG2411635
Trichloroethene	U		0.000190	0.00100	1	12/03/2024 02:17	WG2411635
Trichlorofluoromethane	U		0.000160	0.00500	1	12/03/2024 02:17	WG2411635
1,2,3-Trichloropropane	U		0.000237	0.00250	1	12/03/2024 02:17	WG2411635
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	12/03/2024 02:17	WG2411635
1,2,3-Trimethylbenzene	U		0.000104	0.00100	1	12/03/2024 02:17	WG2411635
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	12/03/2024 02:17	WG2411635
Vinyl chloride	U		0.000234	0.00100	1	12/03/2024 02:17	WG2411635
Xylenes, Total	U		0.000174	0.00300	1	12/03/2024 02:17	WG2411635
(S) Toluene-d8	108			80.0-120		12/03/2024 02:17	WG2411635
(S) 4-Bromofluorobenzene	97.0			77.0-126		12/03/2024 02:17	WG2411635
(S) 1,2-Dichloroethane-d4	120			70.0-130		12/03/2024 02:17	WG2411635

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Method Blank (MB)

(MB) R4151980-1 11/27/24 11:27

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00100			

1 Cp

2 Tc

3 Ss

L1803683-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1803683-06 11/27/24 11:27 • (DUP) R4151980-3 11/27/24 11:27

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits
Total Solids	86.0	88.7	1	3.17		10

4 Cn

5 Sr

6 Qc

Laboratory Control Sample (LCS)

(LCS) R4151980-2 11/27/24 11:27

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	90.0-110	

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R4153419-1 12/04/24 10:03

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Lead	U		0.208	0.500

¹Cp

²Tc

³Ss

Laboratory Control Sample (LCS)

(LCS) R4153419-2 12/04/24 10:06

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Lead	100	93.5	93.5	80.0-120	

⁴Cn

⁵Sr

L1803683-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1803683-06 12/04/24 10:08 • (MS) R4153419-5 12/04/24 10:16 • (MSD) R4153419-6 12/04/24 10:19

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Lead	100	37.2	127	137	89.8	99.7	1	75.0-125			7.51	20

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4155375-3 12/02/24 11:35

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Gasoline Range Organics-NWTPH	U		0.848	2.50
(S) a,a,a-Trifluorotoluene(FID)	103			77.0-120

Laboratory Control Sample (LCS)

(LCS) R4155375-1 12/02/24 10:04

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Gasoline Range Organics-NWTPH	5.00	5.08	102	71.0-124	
(S) a,a,a-Trifluorotoluene(FID)			101	77.0-120	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R4152784-2 12/02/24 22:45

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0113	0.0500
Acrolein	U		0.00254	0.0500
Acrylonitrile	U		0.000671	0.0100
Benzene	U		0.0000941	0.00100
Bromobenzene	U		0.000118	0.00100
Bromodichloromethane	U		0.000136	0.00100
Bromoform	U		0.000129	0.00100
Bromomethane	U		0.000605	0.00500
n-Butylbenzene	U		0.000157	0.00100
sec-Butylbenzene	U		0.000125	0.00100
tert-Butylbenzene	U		0.000127	0.00100
Carbon tetrachloride	U		0.000128	0.00100
Chlorobenzene	U		0.000116	0.00100
Chlorodibromomethane	U		0.000140	0.00100
Chloroethane	U		0.000192	0.00500
Chloroform	U		0.000111	0.00500
Chloromethane	U		0.000960	0.00250
2-Chlorotoluene	U		0.000106	0.00100
4-Chlorotoluene	U		0.000114	0.00100
1,2-Dibromo-3-Chloropropane	U		0.000276	0.00500
1,2-Dibromoethane	U		0.000126	0.00100
Dibromomethane	U		0.000122	0.00100
1,2-Dichlorobenzene	U		0.000107	0.00100
1,3-Dichlorobenzene	U		0.000110	0.00100
1,4-Dichlorobenzene	U		0.000120	0.00100
Dichlorodifluoromethane	U		0.000374	0.00500
1,1-Dichloroethane	U		0.000100	0.00100
1,2-Dichloroethane	U		0.0000819	0.00100
1,1-Dichloroethene	U		0.000188	0.00100
cis-1,2-Dichloroethene	U		0.000126	0.00100
trans-1,2-Dichloroethene	U		0.000149	0.00100
1,2-Dichloropropane	U		0.000149	0.00100
1,1-Dichloropropene	U		0.000142	0.00100
1,3-Dichloropropane	U		0.000110	0.00100
cis-1,3-Dichloropropene	U		0.000111	0.00100
trans-1,3-Dichloropropene	U		0.000118	0.00100
2,2-Dichloropropane	U		0.000161	0.00100
Di-isopropyl ether	U		0.000105	0.00100
Ethylbenzene	U		0.000137	0.00100
Hexachloro-1,3-butadiene	U		0.000337	0.00100

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4152784-2 12/02/24 22:45

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Isopropylbenzene	U		0.000105	0.00100
p-Isopropyltoluene	U		0.000120	0.00100
2-Butanone (MEK)	U		0.00119	0.0100
Methylene Chloride	U		0.000430	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.000478	0.0100
Methyl tert-butyl ether	U		0.000101	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.0000993	0.00100
Styrene	U		0.000118	0.00100
1,1,1,2-Tetrachloroethane	U		0.000147	0.00100
1,1,2,2-Tetrachloroethane	U		0.000133	0.00100
1,1,2-Trichlorotrifluoroethane	U		0.000180	0.00100
Tetrachloroethene	U		0.000300	0.00100
Toluene	U		0.000278	0.00100
1,2,3-Trichlorobenzene	U		0.000230	0.00100
1,2,4-Trichlorobenzene	U		0.000481	0.00100
1,1,1-Trichloroethane	U		0.000149	0.00100
1,1,2-Trichloroethane	U		0.000158	0.00100
Trichloroethene	U		0.000190	0.00100
Trichlorofluoromethane	U		0.000160	0.00500
1,2,3-Trichloropropane	U		0.000237	0.00250
1,2,4-Trimethylbenzene	U		0.000322	0.00100
1,2,3-Trimethylbenzene	U		0.000104	0.00100
1,3,5-Trimethylbenzene	U		0.000104	0.00100
Vinyl chloride	U		0.000234	0.00100
Xylenes, Total	U		0.000174	0.00300
(S) Toluene-d8	107			80.0-120
(S) 4-Bromofluorobenzene	95.3			77.0-126
(S) 1,2-Dichloroethane-d4	113			70.0-130

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R4152784-1 12/02/24 22:02

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.0250	0.0304	122	19.0-160	J
Acrolein	0.0250	0.0299	120	10.0-160	J
Acrylonitrile	0.0250	0.0295	118	55.0-149	
Benzene	0.00500	0.00464	92.8	70.0-123	

Laboratory Control Sample (LCS)

(LCS) R4152784-1 12/02/24 22:02

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Bromobenzene	0.00500	0.00441	88.2	73.0-121	
Bromodichloromethane	0.00500	0.00524	105	75.0-120	
Bromoform	0.00500	0.00508	102	68.0-132	
Bromomethane	0.00500	0.00251	50.2	10.0-160	U
n-Butylbenzene	0.00500	0.00445	89.0	73.0-125	
sec-Butylbenzene	0.00500	0.00450	90.0	75.0-125	
tert-Butylbenzene	0.00500	0.00451	90.2	76.0-124	
Carbon tetrachloride	0.00500	0.00550	110	68.0-126	
Chlorobenzene	0.00500	0.00485	97.0	80.0-121	
Chlorodibromomethane	0.00500	0.00535	107	77.0-125	
Chloroethane	0.00500	0.00519	104	47.0-150	
Chloroform	0.00500	0.00506	101	73.0-120	
Chloromethane	0.00500	0.00381	76.2	41.0-142	
2-Chlorotoluene	0.00500	0.00480	96.0	76.0-123	
4-Chlorotoluene	0.00500	0.00477	95.4	75.0-122	
1,2-Dibromo-3-Chloropropane	0.00500	0.00489	97.8	58.0-134	U
1,2-Dibromoethane	0.00500	0.00486	97.2	80.0-122	
Dibromomethane	0.00500	0.00525	105	80.0-120	
1,2-Dichlorobenzene	0.00500	0.00479	95.8	79.0-121	
1,3-Dichlorobenzene	0.00500	0.00452	90.4	79.0-120	
1,4-Dichlorobenzene	0.00500	0.00475	95.0	79.0-120	
Dichlorodifluoromethane	0.00500	0.00347	69.4	51.0-149	U
1,1-Dichloroethane	0.00500	0.00518	104	70.0-126	
1,2-Dichloroethane	0.00500	0.00584	117	70.0-128	
1,1-Dichloroethene	0.00500	0.00427	85.4	71.0-124	
cis-1,2-Dichloroethene	0.00500	0.00492	98.4	73.0-120	
trans-1,2-Dichloroethene	0.00500	0.00457	91.4	73.0-120	
1,2-Dichloropropane	0.00500	0.00486	97.2	77.0-125	
1,1-Dichloropropene	0.00500	0.00549	110	74.0-126	
1,3-Dichloropropane	0.00500	0.00477	95.4	80.0-120	
cis-1,3-Dichloropropene	0.00500	0.00506	101	80.0-123	
trans-1,3-Dichloropropene	0.00500	0.00526	105	78.0-124	
2,2-Dichloropropane	0.00500	0.00589	118	58.0-130	
Di-isopropyl ether	0.00500	0.00541	108	58.0-138	
Ethylbenzene	0.00500	0.00481	96.2	79.0-123	
Hexachloro-1,3-butadiene	0.00500	0.00584	117	54.0-138	
Isopropylbenzene	0.00500	0.00406	81.2	76.0-127	
p-Isopropyltoluene	0.00500	0.00443	88.6	76.0-125	
2-Butanone (MEK)	0.0250	0.0290	116	44.0-160	
Methylene Chloride	0.00500	0.00472	94.4	67.0-120	U

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Laboratory Control Sample (LCS)

(LCS) R4152784-1 12/02/24 22:02

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
4-Methyl-2-pentanone (MIBK)	0.0250	0.0316	126	68.0-142	
Methyl tert-butyl ether	0.00500	0.00495	99.0	68.0-125	
Naphthalene	0.00500	0.00446	89.2	54.0-135	U
n-Propylbenzene	0.00500	0.00462	92.4	77.0-124	
Styrene	0.00500	0.00426	85.2	73.0-130	
1,1,1,2-Tetrachloroethane	0.00500	0.00494	98.8	75.0-125	
1,1,2,2-Tetrachloroethane	0.00500	0.00480	96.0	65.0-130	
1,1,2-Trichlorotrifluoroethane	0.00500	0.00434	86.8	69.0-132	
Tetrachloroethene	0.00500	0.00537	107	72.0-132	
Toluene	0.00500	0.00482	96.4	79.0-120	
1,2,3-Trichlorobenzene	0.00500	0.00480	96.0	50.0-138	
1,2,4-Trichlorobenzene	0.00500	0.00461	92.2	57.0-137	
1,1,1-Trichloroethane	0.00500	0.00551	110	73.0-124	
1,1,2-Trichloroethane	0.00500	0.00512	102	80.0-120	
Trichloroethene	0.00500	0.00502	100	78.0-124	
Trichlorofluoromethane	0.00500	0.00473	94.6	59.0-147	U
1,2,3-Trichloropropane	0.00500	0.00541	108	73.0-130	
1,2,4-Trimethylbenzene	0.00500	0.00440	88.0	76.0-121	
1,2,3-Trimethylbenzene	0.00500	0.00469	93.8	77.0-120	
1,3,5-Trimethylbenzene	0.00500	0.00449	89.8	76.0-122	
Vinyl chloride	0.00500	0.00407	81.4	67.0-131	
Xylenes, Total	0.0150	0.0138	92.0	79.0-123	
(S) Toluene-d8			102	80.0-120	
(S) 4-Bromofluorobenzene			95.0	77.0-126	
(S) 1,2-Dichloroethane-d4			109	70.0-130	

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Method Blank (MB)

(MB) R4152907-3 12/02/24 22:05

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Benzene	U		0.00938	0.0250
1,2-Dibromoethane	U		0.00625	0.0250
1,2-Dichloroethane	U		0.0113	0.0250
Ethylbenzene	U		0.00750	0.0250
Toluene	U		0.0308	0.125
Xylenes, Total	U		0.0125	0.0750
Methyl tert-butyl ether	U		0.00875	0.0250
Naphthalene	U		0.125	0.125
1,2,4-Trimethylbenzene	U		0.00528	0.0250
1,3,5-Trimethylbenzene	U		0.00665	0.0250
Isopropylbenzene	U		0.0106	0.0250
n-Propylbenzene	U		0.00515	0.0250
(S) Toluene-d8	101			75.0-131
(S) 4-Bromofluorobenzene	94.6			67.0-138
(S) 1,2-Dichloroethane-d4	114			70.0-130

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4152907-1 12/02/24 20:29 • (LCSD) R4152907-2 12/02/24 20:48

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.00500	0.00505	0.00457	101	91.4	70.0-123			9.98	20
1,2-Dibromoethane	0.00500	0.00472	0.00472	94.4	94.4	74.0-128			0.000	20
1,2-Dichloroethane	0.00500	0.00552	0.00555	110	111	65.0-131			0.542	20
Ethylbenzene	0.00500	0.00468	0.00434	93.6	86.8	74.0-126			7.54	20
Toluene	0.00500	0.00476	0.00434	95.2	86.8	75.0-121	J	J	9.23	20
Xylenes, Total	0.0150	0.0139	0.0128	92.7	85.3	72.0-127			8.24	20
Methyl tert-butyl ether	0.00500	0.00557	0.00543	111	109	66.0-132			2.55	20
Naphthalene	0.00500	0.00262	0.00249	52.4	49.8	59.0-130	J J4	J J4	5.09	20
1,2,4-Trimethylbenzene	0.00500	0.00416	0.00400	83.2	80.0	70.0-126			3.92	20
1,3,5-Trimethylbenzene	0.00500	0.00437	0.00409	87.4	81.8	73.0-127			6.62	20
Isopropylbenzene	0.00500	0.00473	0.00440	94.6	88.0	72.0-127			7.23	20
n-Propylbenzene	0.00500	0.00441	0.00410	88.2	82.0	74.0-126			7.29	20
(S) Toluene-d8				97.5	97.6	75.0-131				
(S) 4-Bromofluorobenzene				93.7	91.8	67.0-138				
(S) 1,2-Dichloroethane-d4				118	117	70.0-130				

Method Blank (MB)

(MB) R4151938-1 11/27/24 23:09

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Diesel Range Organics (DRO)	U		1.33	4.00
Residual Range Organics (RRO)	U		3.33	10.0
<i>(S) o-Terphenyl</i>	77.3			18.0-148

Laboratory Control Sample (LCS)

(LCS) R4151938-2 11/27/24 23:22

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Diesel Range Organics (DRO)	50.0	39.9	79.8	50.0-150	
<i>(S) o-Terphenyl</i>			79.4	18.0-148	

L1803661-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1803661-03 11/27/24 23:34 • (MS) R4151938-3 11/27/24 23:47 • (MSD) R4151938-4 11/27/24 23:59

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Diesel Range Organics (DRO)	48.8	U	37.6	31.3	77.0	64.1	1	50.0-150			18.3	20
<i>(S) o-Terphenyl</i>					76.6	63.4		18.0-148				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R4152878-1 12/02/24 20:21

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Diesel Range Organics (DRO)	U		1.33	4.00
Residual Range Organics (RRO)	U		3.33	10.0
<i>(S) o-Terphenyl</i>	81.1			18.0-148

Laboratory Control Sample (LCS)

(LCS) R4152878-2 12/02/24 20:33

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Diesel Range Organics (DRO)	50.0	46.9	93.8	50.0-150	
<i>(S) o-Terphenyl</i>			88.3	18.0-148	

L1803678-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1803678-03 12/02/24 20:58 • (MS) R4152878-3 12/02/24 21:10 • (MSD) R4152878-4 12/02/24 21:23

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Diesel Range Organics (DRO)	48.8	U	41.4	43.7	84.8	88.8	1	50.0-150			5.41	20
<i>(S) o-Terphenyl</i>					148	159		18.0-148		J1		

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R4152842-2 12/02/24 18:12

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	U		0.00230	0.00600
Acenaphthene	U		0.00209	0.00600
Benzo(a)anthracene	U		0.00173	0.00600
Benzo(a)pyrene	U		0.00179	0.00600
Benzo(b)fluoranthene	U		0.00153	0.00600
Benzo(k)fluoranthene	U		0.00215	0.00600
Chrysene	U		0.00232	0.00600
Dibenz(a,h)anthracene	U		0.00172	0.00600
Fluorene	U		0.00205	0.00600
Fluoranthene	U		0.00227	0.00600
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600
Naphthalene	U		0.00408	0.0200
Pyrene	U		0.00200	0.00600
(S) p-Terphenyl-d14	44.6			23.0-120
(S) Nitrobenzene-d5	42.6			14.0-149
(S) 2-Fluorobiphenyl	41.4			34.0-125

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R4152842-1 12/02/24 17:54

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.0800	0.0702	87.8	50.0-126	
Acenaphthene	0.0800	0.0591	73.9	50.0-120	
Benzo(a)anthracene	0.0800	0.0713	89.1	45.0-120	
Benzo(a)pyrene	0.0800	0.0591	73.9	42.0-120	
Benzo(b)fluoranthene	0.0800	0.0671	83.9	42.0-121	
Benzo(k)fluoranthene	0.0800	0.0649	81.1	49.0-125	
Chrysene	0.0800	0.0679	84.9	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0679	84.9	47.0-125	
Fluorene	0.0800	0.0659	82.4	49.0-120	
Fluoranthene	0.0800	0.0716	89.5	49.0-129	
Indeno(1,2,3-cd)pyrene	0.0800	0.0671	83.9	46.0-125	
Naphthalene	0.0800	0.0626	78.3	50.0-120	
Pyrene	0.0800	0.0618	77.3	43.0-123	
(S) p-Terphenyl-d14			41.0	23.0-120	
(S) Nitrobenzene-d5			40.9	14.0-149	
(S) 2-Fluorobiphenyl			36.8	34.0-125	

L1803680-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1803680-02 12/02/24 22:54 • (MS) R4152842-3 12/02/24 23:12 • (MSD) R4152842-4 12/02/24 23:29

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Anthracene	0.0784	U	0.0564	0.0572	71.9	73.0	1	10.0-145			1.41	30
Acenaphthene	0.0784	U	0.0498	0.0476	63.5	60.7	1	14.0-127			4.52	27
Benzo(a)anthracene	0.0784	U	0.0531	0.0541	67.7	69.0	1	10.0-139			1.87	30
Benzo(a)pyrene	0.0784	U	0.0478	0.0491	61.0	62.6	1	10.0-141			2.68	31
Benzo(b)fluoranthene	0.0784	U	0.0481	0.0495	61.4	63.1	1	10.0-140			2.87	36
Benzo(k)fluoranthene	0.0784	U	0.0465	0.0478	59.3	61.0	1	10.0-137			2.76	31
Chrysene	0.0784	U	0.0499	0.0519	63.6	66.2	1	10.0-145			3.93	30
Dibenz(a,h)anthracene	0.0784	U	0.0491	0.0508	62.6	64.8	1	10.0-132			3.40	31
Fluorene	0.0784	U	0.0539	0.0543	68.8	69.3	1	11.0-130			0.739	29
Fluoranthene	0.0784	U	0.0547	0.0556	69.8	70.9	1	10.0-153			1.63	33
Indeno(1,2,3-cd)pyrene	0.0784	U	0.0503	0.0500	64.2	63.8	1	10.0-137			0.598	32
Naphthalene	0.0784	U	0.0549	0.0490	70.0	62.5	1	10.0-135			11.4	27
Pyrene	0.0784	U	0.0474	0.0486	60.5	62.0	1	10.0-148			2.50	35
<i>(S) p-Terphenyl-d14</i>					29.7	35.9		23.0-120				
<i>(S) Nitrobenzene-d5</i>					32.8	39.0		14.0-149				
<i>(S) 2-Fluorobiphenyl</i>					30.7	37.2		34.0-125	<u>J2</u>			

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

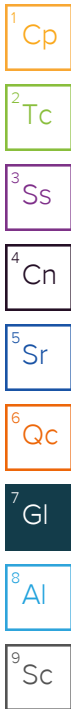
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits.
J4	The associated batch QC was outside the established quality control range for accuracy.
J7	Surrogate recovery cannot be used for control limit evaluation due to dilution.



ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Company Name/Address: **Eastern Research Group Inc- Concord, MA**
 561 Virginia Road Bldg. 4

Billing Information: **Accounts Payable**
 561 Virginia Road Bldg. 4
 Suite 300
 Concord, MA 01742

Report to: **Sarah Weppner**
 Email To: sedrek.kovar@erg.com;sarah.weppner@alta-

Project Description: **2450 Altamont Drive**
 City/State Collected: **Klamath Falls, OR**
 Please Circle: MT CT ET

Client Project #: **0425.00.016.080**
 Lab Project #: **EASRESCMA-ID**

Collected by (print): **Brady Brantley / Sedrek Kovar**
 Collected by (signature): **[Signature]**
 Immediately Packed on Ice N Y

Rush? (Lab MUST Be Notified)
 Same Day Five Day
 Next Day 5 Day (Rad Only)
 Two Day 10 Day (Rad Only)
 Three Day **STAT**

Date Results Needed: **STAT**

Analysis / Container / Preservative	
NWTPHDX 4ozClr-NoPres	
NWTPHGX 40mlAmb/MeOH10ml/Syr	
PFAS 1633 PFAS-90mlPP-NoPres	
SV8270PAHSIM 4ozClr-NoPres	
Total Pb 2ozClr-NoPres	
V8260AP9 40ml/NaHSO4/Syr/MeOH	
HCL Trip Blank - 8260	

Chain of Custody Page 1 of 1

Pace
 PEOPLE ADVANCING SCIENCE

MT JULIET, TN
 12065 Lebanon Rd Mount Juliet, TN 37122
 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at:
<https://info.pacelabs.com/hubs/pas-standard-terms.pdf>

SDG # **L1803680**
H235

Acctnum: **EASRESCMA**
 Template: **T263838**
 Prelogin: **P1114092**
 PM: **841 - Kelly Mercer**
 PB: **11-11-24**

Shipped Via: **FedEX Standard**

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	NWTPHDX 4ozClr-NoPres	NWTPHGX 40mlAmb/MeOH10ml/Syr	PFAS 1633 PFAS-90mlPP-NoPres	SV8270PAHSIM 4ozClr-NoPres	Total Pb 2ozClr-NoPres	V8260AP9 40ml/NaHSO4/Syr/MeOH	Remarks	Sample # (lab only)
ATMT-BH4-SG-5'	Grab	SS	5'	11/19/24	0900	7	X	X		X	X	X		- 01
ATMT-BH5-SG-7.5'	Grab	SS	7.5'	11/19/24	1055	7	X	X		X	X	X		- 02
ATMT-BH6-SG-4'	Grab	SS	4'	11/19/24	1210	7	X	X		X	X	X		- 03
ATMT-BH6-SG-8'	Grab	SS	8'	11/19/24	1220	7	X	X		X	X	X		- 04
Trip Blank		SS											Trip Blank	- 05
		SS												
		SS												
		SS												
		SS												
		SS												

* Matrix: **SS - Soil AIR - Air F - Filter**
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks: **Run Trip Blank w/ our sample batch**

pH _____ Temp _____
 Flow _____ Other _____

Samples returned via: UPS FedEx Courier

Tracking # **4041 0493 4280**

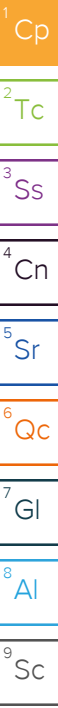
Relinquished by: (Signature) [Signature]	Date: 11/22/24	Time: 1208	Received by: (Signature)	Trip Blank Received: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> HCL <input type="checkbox"/> MeOH <input type="checkbox"/> TBR
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 22.9 °C Bottles Received: 28
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) [Signature]	Date: 11/23/24 Time: 900

If preservation required by Login: Date/Time

Condition: **NCF / OK**

Sample Receipt Checklist

COC Seal Present/Intact:	NP	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
COC Signed/Accurate:		<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Bottles arrive intact:		<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Correct bottles used:		<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Sufficient volume sent:		<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
If Applicable		
VOA Zero Headspace:		<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
Preservation Correct/Checked:		<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
RAD Screen <0.5 mR/hr:		<input checked="" type="checkbox"/> Y <input type="checkbox"/> N



Eastern Research Group Inc- Concord, MA

Sample Delivery Group: L1803551
Samples Received: 11/23/2024
Project Number: 0425.00.016.080
Description: 2450 Altamont Drive

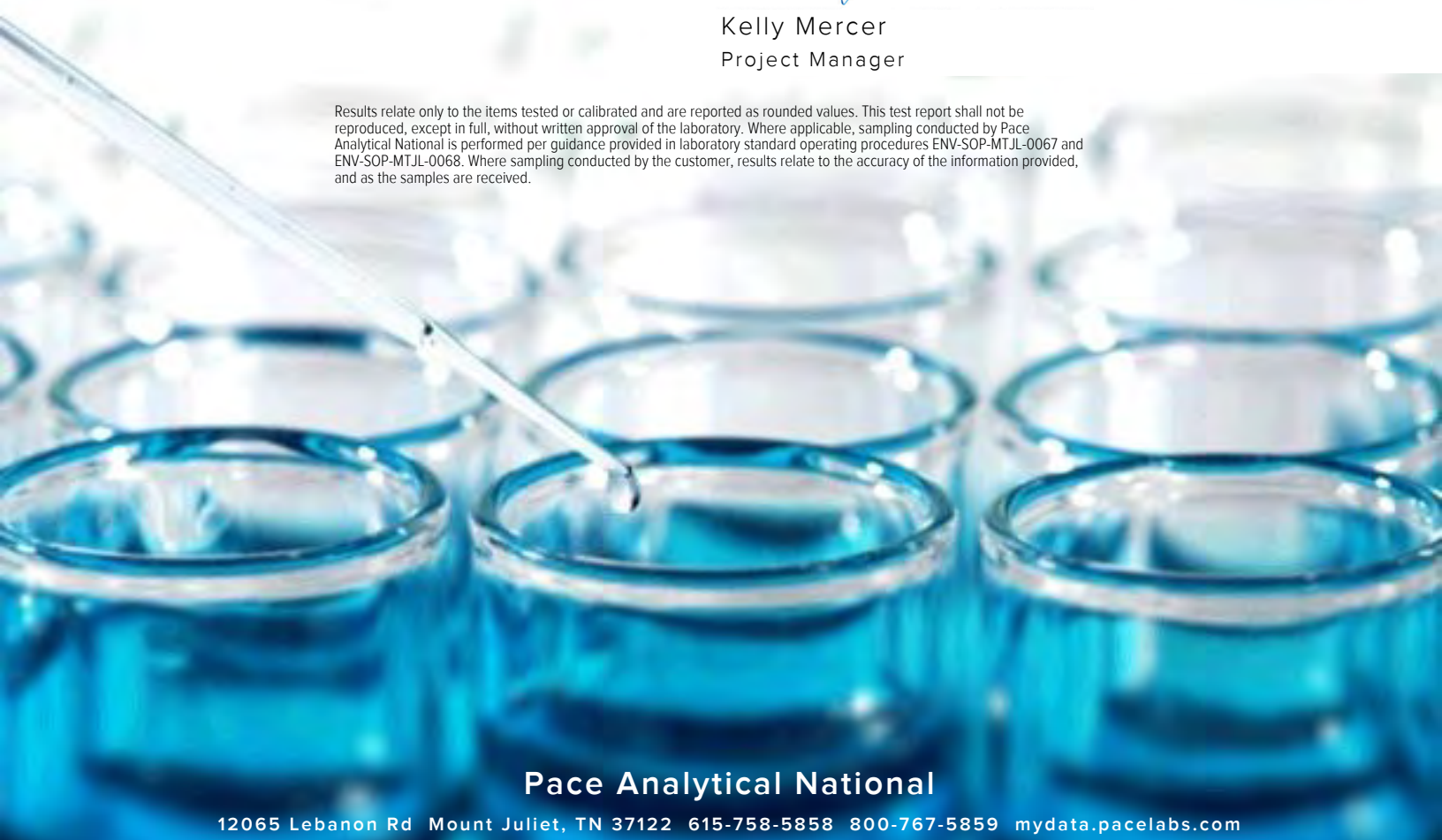
Report To: Sarah Weppner
561 Virginia Road Bldg. 4
Suite 300
Concord, MA 01742

Entire Report Reviewed By:



Kelly Mercer
Project Manager



Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

TABLE OF CONTENTS

Cp: Cover Page	1	
Tc: Table of Contents	2	
Ss: Sample Summary	3	
Cn: Case Narrative	4	
Sr: Sample Results	5	
ATMT-WB1-NS-C-0"-6" L1803551-01	5	
ATMT-WB1-SS-C-0"-6" L1803551-02	6	
ATMT-WB1-SS-C-0"-6"-DUP L1803551-03	7	
ATMT-WB1-ES-1-C-0"-6" L1803551-04	8	
ATMT-WB1-ES-2-C-0"-6" L1803551-05	9	
ATMT-WB1-WS-1-C-0"-6" L1803551-06	10	
ATMT-WB1-WS-1-C-0"-6" L1803551-07	11	
Qc: Quality Control Summary	12	
Total Solids by Method 2540 G-2011	12	
Metals (ICP) by Method 6010B	14	
Gl: Glossary of Terms	16	
Al: Accreditations & Locations	17	
Sc: Sample Chain of Custody	18	

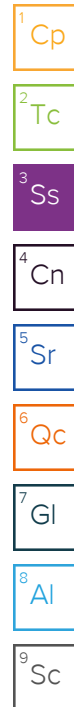
SAMPLE SUMMARY

ATMT-WB1-NS-C-0"-6" L1803551-01 Solid

Collected by
Collected date/time
Received date/time

11/18/24 16:15
11/23/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2408617	1	11/26/24 11:30	11/26/24 11:47	KDW	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2409011	1	11/27/24 08:01	11/27/24 20:29	DJS	Mt. Juliet, TN



ATMT-WB1-SS-C-0"-6" L1803551-02 Solid

Collected by
Collected date/time
Received date/time

11/18/24 16:30
11/23/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2408617	1	11/26/24 11:30	11/26/24 11:47	KDW	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2409011	1	11/27/24 08:01	11/27/24 20:58	DJS	Mt. Juliet, TN

ATMT-WB1-SS-C-0"-6"-DUP L1803551-03 Solid

Collected by
Collected date/time
Received date/time

11/18/24 16:30
11/23/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2408617	1	11/26/24 11:30	11/26/24 11:47	KDW	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2409011	1	11/27/24 08:01	11/27/24 21:00	DJS	Mt. Juliet, TN

ATMT-WB1-ES-1-C-0"-6" L1803551-04 Solid

Collected by
Collected date/time
Received date/time

11/18/24 17:00
11/23/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2408617	1	11/26/24 11:30	11/26/24 11:47	KDW	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2409005	1	12/01/24 09:34	12/01/24 17:49	MAP	Mt. Juliet, TN

ATMT-WB1-ES-2-C-0"-6" L1803551-05 Solid

Collected by
Collected date/time
Received date/time

11/18/24 17:10
11/23/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2408617	1	11/26/24 11:30	11/26/24 11:47	KDW	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2409011	1	11/27/24 08:01	11/27/24 21:02	DJS	Mt. Juliet, TN

ATMT-WB1-WS-1-C-0"-6" L1803551-06 Solid

Collected by
Collected date/time
Received date/time

11/18/24 17:05
11/23/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2408617	1	11/26/24 11:30	11/26/24 11:47	KDW	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2409011	1	11/27/24 08:01	11/27/24 21:07	DJS	Mt. Juliet, TN

ATMT-WB1-WS-1-C-0"-6" L1803551-07 Solid

Collected by
Collected date/time
Received date/time

11/18/24 17:15
11/23/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG2408618	1	11/26/24 11:11	11/26/24 11:26	KDW	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG2409011	1	11/27/24 08:01	11/27/24 21:09	DJS	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Kelly Mercer
Project Manager

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	75.0		1	11/26/2024 11:47	WG2408617

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Lead	199	J3 J5 J6 O1	0.208	0.500	1	11/27/2024 20:29	WG2409011

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	78.7		1	11/26/2024 11:47	WG2408617

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Lead	171		0.208	0.500	1	11/27/2024 20:58	WG2409011

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	88.9		1	11/26/2024 11:47	WG2408617

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Lead	234		0.208	0.500	1	11/27/2024 21:00	WG2409011

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	78.3		1	11/26/2024 11:47	WG2408617

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Lead	216		0.208	0.500	1	12/01/2024 17:49	WG2409005

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	82.9		1	11/26/2024 11:47	WG2408617

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Lead	153		0.208	0.500	1	11/27/2024 21:02	WG2409011

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	75.6		1	11/26/2024 11:47	WG2408617

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
Lead	64.1		0.208	0.500	1	11/27/2024 21:07	WG2409011

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	75.3		1	11/26/2024 11:26	WG2408618

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis date / time	Batch
Lead	48.8		0.208	0.500	1	11/27/2024 21:09	WG2409011

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Method Blank (MB)

(MB) R4151195-1 11/26/24 11:47

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	%		%	%
Total Solids	0.000			

1 Cp

2 Tc

3 Ss

L1803549-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1803549-01 11/26/24 11:47 • (DUP) R4151195-3 11/26/24 11:47

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	%	%		%		%
Total Solids	55.7	54.7	1	1.77		10

4 Cn

5 Sr

6 Qc

Laboratory Control Sample (LCS)

(LCS) R4151195-2 11/26/24 11:47

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	%	%	%	%	
Total Solids	50.0	50.0	100	90.0-110	

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R4151192-1 11/26/24 11:26

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.000			

¹Cp

²Tc

³Ss

L1803563-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1803563-05 11/26/24 11:26 • (DUP) R4151192-3 11/26/24 11:26

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits
Total Solids	82.9	84.8	1	2.34		10

⁴Cn

⁵Sr

⁶Qc

Laboratory Control Sample (LCS)

(LCS) R4151192-2 11/26/24 11:26

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	90.0-110	

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4152201-1 12/01/24 17:04

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Lead	U		0.208	0.500

Laboratory Control Sample (LCS)

(LCS) R4152201-2 12/01/24 17:06

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Lead	100	99.6	99.6	80.0-120	

L1803488-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1803488-11 12/01/24 17:08 • (MS) R4152201-5 12/01/24 17:13 • (MSD) R4152201-6 12/01/24 17:15

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Lead	99.8	14.6	123	119	109	104	1	75.0-125			3.48	20

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4151697-1 11/27/24 20:25

Analyte	MB Result mg/kg	<u>MB Qualifier</u>	MB MDL mg/kg	MB RDL mg/kg
Lead	U		0.208	0.500

¹Cp

²Tc

³Ss

Laboratory Control Sample (LCS)

(LCS) R4151697-2 11/27/24 20:27

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Lead	100	96.5	96.5	80.0-120	

⁴Cn

⁵Sr

L1803551-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1803551-01 11/27/24 20:29 • (MS) R4151697-5 11/27/24 20:34 • (MSD) R4151697-6 11/27/24 20:36

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Lead	100	199	370	156	171	0.000	1	75.0-125	<u>J5</u>	<u>J3 J6</u>	81.5	20

⁶Qc

⁷Gl

⁸Al

⁹Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

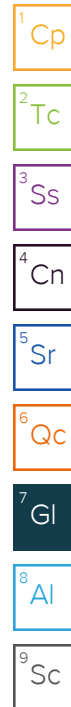
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J3	The associated batch QC was outside the established quality control range for precision.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
O1	The analyte failed the method required serial dilution test and/or subsequent post-spike criteria. These failures indicate matrix interference.



ACCREDITATIONS & LOCATIONS

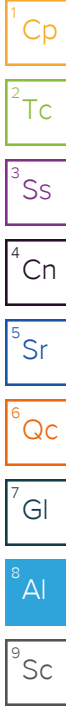
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



Company Name/Address:
Eastern Research Group Inc- Concord, MA
 561 Virginia Road Bldg. 4

Billing Information:
 Accounts Payable
 561 Virginia Road Bldg. 4
 Suite 300
 Concord, MA 01742

Report to:
Sarah Weppner

Email To:
 sedrek.kovar@erg.com;sarah.weppner@alta-

Project Description:
 2450 Altamont Drive

City/State Collected:
 Klamath Falls, OR

Please Circle:
 MT CT ET

Phone:

Client Project #
0425.00.016.080

Lab Project #
EASRESCMA-ID

Collected by (print):
 Brady Brantley / Sedrek Kovar

Site/Facility ID #

P.O. #

Collected by (signature):
 [Signature]

Rush? (Lab MUST Be Notified)
 ___ Same Day ___ Five Day
 ___ Next Day ___ 5 Day (Rad Only)
 ___ Two Day ___ 10 Day (Rad Only)
 ___ Three Day **JTD/TAT**

Quote #
 Date Results Needed

Immediately
 Packed on Ice N ___ Y **X**

No. of Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	NWTPHDX 4ozClr-NoPres	NWTPHGX 40mlAmb/MeOH10ml/Syr	PFAS 1633 PFAS-90mlPP-NoPres	SV8270PAHSIM 4ozClr-NoPres	Total Pb 2ozClr-NoPres	V8260AP9 40ml/NaHSO4/Syr/MeOH	Analysis / Container / Preservative	Chain of Custody Page 1 of 1
ATMT-WBI-NS-C-0"-6"	Comp	SS	0"-6"	11/18/24	1615	1					X			Pace PEOPLE ADVANCING SCIENCE MT JULIET, TN 12065 Lebanon Rd Mount Juliet, TN 37122 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: https://info.pacelabs.com/hubs/pas-standard-terms.pdf SDG # L1807551 D189 Accnum: EASRESCMA Template: T263838 Prelogin: P1114092 PM: 841 - Kelly Mercer PB: 11/11/24 Shipped Via: FedEX Standard
ATMT-WBI-NS-C-0"-6"-ms/msd	Comp	SS	0"-6"	11/18/24	1620	1					X		ms/msd	
ATMT-WBI-SS-C-0"-6"	Comp	SS	0"-6"	11/18/24	1630	1					X			
ATMT-WBI-SS-C-0"-6"-Dup	Comp	SS	0"-6"	11/18/24	1630	1					X			
ATMT-WBI-ES-1-C-0"-6"	Comp	SS	0"-6"	11/18/24	1700	1					X			
ATMT-WBI-ES-2-C-0"-6"	Comp	SS	0"-6"	11/18/24	1710	1					X			
ATMT-WBI-WS-1-C-0"-6"	Comp	SS	0"-6"	11/18/24	1705	1					X			
ATMT-WBI-WS-2-C-0"-6"	Comp	SS	0"-6"	11/18/24	1715	1					X			

* Matrix:
 SS - Soil AIR - Air F - Filter
 GW - Groundwater B - Bioassay
 WW - WasteWater
 DW - Drinking Water
 OT - Other

Remarks: **Run MS/MSD w/ GWR sample batch.**

pH _____ Temp _____
 Flow _____ Other _____

Samples returned via:
 UPS FedEx Courier

Tracking # **4041 0493 4269**

Sample Receipt Checklist	
COC Seal Present/Intact: <input type="checkbox"/> NP <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
COC Signed/Accurate: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Bottles arrive intact: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Correct bottles used: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Sufficient volume sent: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
If Applicable	
VOA Zero Headspace: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
Preservation Correct/Checked: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	
RAD Screen <0.5 mR/hr: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	

Relinquished by: (Signature)
 [Signature]

Date: **11/22/24** Time: **1200**

Received by: (Signature)

Trip Blank Received: Yes/No
 HCL/MeOH
 TBR

Relinquished by: (Signature)

Date: _____ Time: _____

Received by: (Signature)

Temp: **6.5 to 0.3** °C Bottles Received: **8**

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date: _____ Time: _____

Received for lab by: (Signature)
 [Signature]

Date: **11-23-24** Time: **0900**

Hold: _____ Condition: **NCF / OK**

Eastern Research Group Inc- Concord, MA

Sample Delivery Group: L1803418
Samples Received: 11/23/2024
Project Number: 0425.00.016.080
Description: 2450 Altamont Drive

Report To: Sarah Weppner
561 Virginia Road Bldg. 4
Suite 300
Concord, MA 01742

Entire Report Reviewed By:



Kelly Mercer
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

TABLE OF CONTENTS

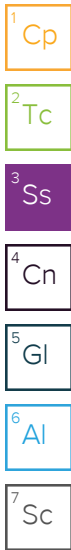
Cp: Cover Page	1	¹ Cp
Tc: Table of Contents	2	² Tc
Ss: Sample Summary	3	³ Ss
Cn: Case Narrative	4	⁴ Cn
Gl: Glossary of Terms	5	⁵ Gl
Al: Accreditations & Locations	6	⁶ Al
Sc: Sample Chain of Custody	7	⁷ Sc

SAMPLE SUMMARY

ATMT-TMW-1 L1803418-01 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2408664	1	12/18/24 00:00	12/18/24 00:00	-	Minneapolis, MN 55414

Collected by BB/SK
 Collected date/time 11/20/24 08:55
 Received date/time 11/23/24 09:00



ATMT-TMW-2 L1803418-02 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2408664	1	12/18/24 00:00	12/18/24 00:00	-	Minneapolis, MN 55414

Collected by BB/SK
 Collected date/time 11/20/24 10:20
 Received date/time 11/23/24 09:00

ATMT-TMW-2-DUP L1803418-03 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2408664	1	12/18/24 00:00	12/18/24 00:00	-	Minneapolis, MN 55414

Collected by BB/SK
 Collected date/time 11/20/24 10:20
 Received date/time 11/23/24 09:00

ATMT-TMW-3 L1803418-04 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2408664	1	12/18/24 00:00	12/18/24 00:00	-	Minneapolis, MN 55414

Collected by BB/SK
 Collected date/time 11/20/24 11:55
 Received date/time 11/23/24 09:00

ATMT-RINSATE L1803418-05 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2408664	1	12/18/24 00:00	12/18/24 00:00	-	Minneapolis, MN 55414

Collected by BB/SK
 Collected date/time 11/20/24 12:10
 Received date/time 11/23/24 09:00

ATMT-FB-1 L1803418-06 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2408664	1	12/18/24 00:00	12/18/24 00:00	-	Minneapolis, MN 55414

Collected by BB/SK
 Collected date/time 11/18/24 17:45
 Received date/time 11/23/24 09:00

ATMT-FB-2 L1803418-07 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG2408664	1	12/18/24 00:00	12/18/24 00:00	-	Minneapolis, MN 55414

Collected by BB/SK
 Collected date/time 11/20/24 09:50
 Received date/time 11/23/24 09:00

CASE NARRATIVE

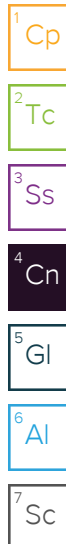
All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Kelly Mercer
Project Manager

Project Narrative

L1803418 -01, -02, -03, -04, -05, -06, -07 contains subout data that is included after the chain of custody.



GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

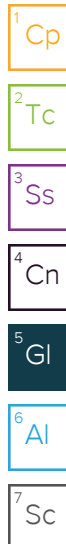
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

SDG	Sample Delivery Group.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier Description

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.



ACCREDITATIONS & LOCATIONS

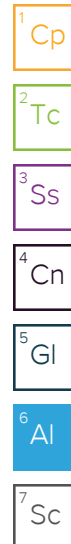
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



Company Name/Address:
Eastern Research Group Inc- Concord, MA
 561 Virginia Road Bldg. 4

Billing Information:
 Accounts Payable
 561 Virginia Road Bldg. 4
 Suite 300
 Concord, MA 01742

Report to:
Sarah Weppner

Email To:
 sedrek.kovar@erg.com;sarah.weppner@alta-

Project Description:
 2450 Altamont Drive

City/State Collected: **Klamath Falls, OR**

Please Circle:
 PD MT CT ET

Phone:

Client Project #
0425.00.016.080

Lab Project #
EASRESCMA-ID

Collected by (print):
Brady Brantley / Sedrek Kovar

Site/Facility ID #

P.O. #

Collected by (signature):
[Signature]
 Immediately Packed on Ice N Y X


Rush? (Lab MUST Be Notified)
 Same Day Five Day
 Next Day 5 Day (Rad Only)
 Two Day 10 Day (Rad Only)
 Three Day **STD TAT**

Quote #
 Date Results Needed
 No. of Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	Cntrs
ATMT-TMW-1	Grab	GW	-	11/20/24	0955	3
ATMT-TMW-2	Grab	GW	-	11/20/24	1020	3
ATMT-TMW-2-Dup	Grab	GW	-	11/20/24	1020	3
ATMT-TMW-2-MS/MSD	Grab	GW	-	11/20/24	1020	3
ATMT-TMW-3	Grab	GW	-	11/20/24	1155	3
ATMT-Rinse	Grab	GW	-	11/20/24	1210	3
ATMT-FB-1	Grab	GW	-	11/18/24	1745	3
ATMT-FB-2	Grab	GW	-	11/20/24	0950	3
		GW				

Analysis / Container / Preservative						
NWTPDXLVI 40mlAmb-HCl-BT	NWTPHGX 40mlAmb HCl	PAHSIMLVI 40mlAmb-NoPres-WT	PFAS1633 PFAS(2)500ml(1)125ml	Total Pb 250mlHDPE-HNO3	V8260AP9 40mlAmb-HCl	

Chain of Custody Page 1 of 1



MT JULIET, TN
 12065 Lebanon Rd Mount Juliet, TN 37122
 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <https://info.pacelabs.com/hubs/pas-standard-terms.pdf>

SDG # **U803418**
C146

Acctnum: **EASRESCMA**
 Template: **T263839**
 Prelogin: **P1114091**
 PM: **841 - Kelly Mercer**
 PB: **11-11-24**

Shipped Via: **FedEx Standard**

Remarks | Sample # (lab only)

* Matrix:
 SS - Soil AIR - Air F - Filter
 GW - Groundwater B - Bioassay
 WW - WasteWater
 DW - Drinking Water
 OT - Other

Remarks: **Run MS/MSD w/ own sample batch. Also run Rinse & Field blank w/ own sample batch.**

pH _____ Temp _____
 Flow _____ Other _____

Samples returned via:
 UPS FedEx Courier

Tracking # **4041 0493 4383**

Sample Receipt Checklist

COC Seal Present/Intact:	NP	<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N
COC Signed/Accurate:		<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N
Bottles arrive intact:		<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N
Correct bottles used:		<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N
Sufficient volume sent:		<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N
If Applicable			
VOA Zero Headspace:		<input type="checkbox"/> Y	<input type="checkbox"/> N
Preservation Correct/Checked:		<input type="checkbox"/> Y	<input type="checkbox"/> N
RAD Screen <0.5 mR/hr:		<input checked="" type="checkbox"/> Y	<input type="checkbox"/> N

Relinquished by: (Signature)
[Signature]

Relinquished by: (Signature)

Relinquished by: (Signature)

Date: **11/24/24** Time: **1200**

Received by: (Signature)

Received by: (Signature)

Received for lab by: (Signature)
Ashley Scott

Trip Blank Received: Yes No
 HCL/MeOH TBR

Temp: **14.6** °C Bottles Received: **24**

Date: **11/23/2024** Time: **0900**

If preservation required by Login: Date/Time

Hold:

Condition: **NCF / OK**



December 19, 2024

Client Services
Pace National
12065 Lebanon Rd
Mt. Juliet, TN 37122

RE: Project: L1803418 WG2408664
Pace Project No.: 10717247

Dear Client Services:

Enclosed are the analytical results for sample(s) received by the laboratory on November 27, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Minneapolis

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tong Lee
tong.lee@pacelabs.com
(612)473-6804
Project Manager

Enclosures

cc: Jimmy Huckaba, Pace Analytical National Center for
Testing & Innovation



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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CERTIFICATIONS

Project: L1803418 WG2408664

Pace Project No.: 10717247

Pace Analytical Services, LLC - Minneapolis MN

1700 Elm Street SE, Minneapolis, MN 55414

Alabama Certification #: 40770

Alaska Contaminated Sites Certification #: 17-009

Alaska DW Certification #: MN00064

Arizona Certification #: AZ0014

Arkansas DW Certification #: MN00064

Arkansas WW Certification #: 88-0680

California Certification #: 2929

Colorado Certification #: MN00064

Connecticut Certification #: PH-0256

DoD Certification via A2LA #: 2926.01

EPA Region 8 Tribal Water Systems+Wyoming DW

Certification #: via MN 027-053-137

Florida Certification #: E87605

Georgia Certification #: 959

GMP+ Certification #: GMP050884

Hawaii Certification #: MN00064

Idaho Certification #: MN00064

Illinois Certification #: 200011

Indiana Certification #: C-MN-01

Iowa Certification #: 368

ISO/IEC 17025 Certification via A2LA #: 2926.01

Kansas Certification #: E-10167

Kentucky DW Certification #: 90062

Kentucky WW Certification #: 90062

Louisiana DEQ Certification #: AI-03086

Louisiana DW Certification #: MN00064

Maine Certification #: MN00064

Maryland Certification #: 322

Michigan Certification #: 9909

Minnesota Certification #: 027-053-137

Minnesota Dept of Ag Approval: via MN 027-053-137

Minnesota Petrofund Registration #: 1240

Mississippi Certification #: MN00064

Missouri Certification #: 10100

Montana Certification #: CERT0092

Nebraska Certification #: NE-OS-18-06

Nevada Certification #: MN00064

New Hampshire Certification #: 2081

New Jersey Certification #: MN002

New York Certification #: 11647

North Carolina DW Certification #: 27700

North Carolina WW Certification #: 530

North Dakota Certification (A2LA) #: R-036

North Dakota Certification (MN) #: R-036

Ohio DW Certification #: 41244

Ohio VAP Certification (1700) #: CL101

Oklahoma Certification #: 9507

Oregon Primary Certification #: MN300001

Oregon Secondary Certification #: MN200001

Pennsylvania Certification #: 68-00563

Puerto Rico Certification #: MN00064

South Carolina Certification #: 74003001

Tennessee Certification #: TN02818

Texas Certification #: T104704192

Utah Certification #: MN00064

Vermont Certification #: VT-027053137

Virginia Certification #: 460163

Washington Certification #: C486

West Virginia DEP Certification #: 382

West Virginia DW Certification #: 9952 C

Wisconsin Certification #: 999407970

Wyoming UST Certification via A2LA #: 2926.01

USDA Permit #: P330-19-00208

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: L1803418 WG2408664
Pace Project No.: 10717247

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10717247001	ATMT-TMW-1	Water	11/20/24 08:55	11/27/24 08:50
10717247002	ATMT-TMW-2	Water	11/20/24 10:20	11/27/24 08:50
10717247003	ATMT-TMW-2-DUP	Water	11/20/24 10:20	11/27/24 08:50
10717247004	ATMT-TMW-3	Water	11/20/24 11:55	11/27/24 08:50
10717247005	ATMT-RINSATE	Water	11/20/24 12:10	11/27/24 08:50
10717247006	ATMT-FB-1	Water	11/18/24 17:45	11/27/24 08:50
10717247007	ATMT-FB-2	Water	11/20/24 09:50	11/27/24 08:50

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: L1803418 WG2408664
Pace Project No.: 10717247

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10717247001	ATMT-TMW-1	EPA 1633 DRAFT	NBH	64	PASI-M
10717247002	ATMT-TMW-2	EPA 1633 DRAFT	NBH	64	PASI-M
10717247003	ATMT-TMW-2-DUP	EPA 1633 DRAFT	MJL, NBH	64	PASI-M
10717247004	ATMT-TMW-3	EPA 1633 DRAFT	NBH	64	PASI-M
10717247005	ATMT-RINSATE	EPA 1633 DRAFT	NBH	64	PASI-M
10717247006	ATMT-FB-1	EPA 1633 DRAFT	NBH	64	PASI-M
10717247007	ATMT-FB-2	EPA 1633 DRAFT	NBH	64	PASI-M

PASI-M = Pace Analytical Services - Minneapolis

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: L1803418 WG2408664

Pace Project No.: 10717247

Sample: ATMT-TMW-1	Lab ID: 10717247001	Collected: 11/20/24 08:55	Received: 11/27/24 08:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633 DRAFT Water								
Analytical Method: EPA 1633 DRAFT Preparation Method: EPA 1633 DRAFT								
Initial Volume/Weight: 96.3 mL Final Volume/Weight: 5 mL								
Pace Analytical Services - Minneapolis								
11CI-PF3OUdS	ND	ng/L	20.8	1	12/12/24 06:59	12/13/24 15:24	763051-92-9	
3:3 FTCA	ND	ng/L	26.0	1	12/12/24 06:59	12/13/24 15:24	356-02-5	
4:2 FTS	ND	ng/L	20.8	1	12/12/24 06:59	12/13/24 15:24	757124-72-4	
5:3 FTCA	ND	ng/L	130	1	12/12/24 06:59	12/13/24 15:24	914637-49-3	
6:2 FTS	ND	ng/L	20.8	1	12/12/24 06:59	12/13/24 15:24	27619-97-2	
7:3 FTCA	ND	ng/L	130	1	12/12/24 06:59	12/13/24 15:24	812-70-4	
8:2 FTS	ND	ng/L	20.8	1	12/12/24 06:59	12/13/24 15:24	39108-34-4	
9CI-PF3ONS	ND	ng/L	20.8	1	12/12/24 06:59	12/13/24 15:24	756426-58-1	
ADONA	ND	ng/L	20.8	1	12/12/24 06:59	12/13/24 15:24	919005-14-4	
HFPO-DA	ND	ng/L	20.8	1	12/12/24 06:59	12/13/24 15:24	13252-13-6	
NEtFOSAA	ND	ng/L	5.2	1	12/12/24 06:59	12/13/24 15:24	2991-50-6	
NEtFOSA	ND	ng/L	5.2	1	12/12/24 06:59	12/13/24 15:24	4151-50-2	
NEtFOSE	ND	ng/L	51.9	1	12/12/24 06:59	12/13/24 15:24	1691-99-2	
NFDHA	ND	ng/L	10.4	1	12/12/24 06:59	12/13/24 15:24	151772-58-6	
NMeFOSAA	ND	ng/L	5.2	1	12/12/24 06:59	12/13/24 15:24	2355-31-9	
NMeFOSA	ND	ng/L	5.2	1	12/12/24 06:59	12/13/24 15:24	31506-32-8	
NMeFOSE	ND	ng/L	51.9	1	12/12/24 06:59	12/13/24 15:24	24448-09-7	
PFBS	45.1	ng/L	5.2	1	12/12/24 06:59	12/13/24 15:24	375-73-5	
PFDA	ND	ng/L	5.2	1	12/12/24 06:59	12/13/24 15:24	335-76-2	
PFHxA	42.6	ng/L	5.2	1	12/12/24 06:59	12/13/24 15:24	307-24-4	
PFBA	ND	ng/L	20.8	1	12/12/24 06:59	12/13/24 15:24	375-22-4	
PFDS	ND	ng/L	5.2	1	12/12/24 06:59	12/13/24 15:24	335-77-3	
PFDoS	ND	ng/L	5.2	1	12/12/24 06:59	12/13/24 15:24	79780-39-5	
PFEESA	ND	ng/L	10.4	1	12/12/24 06:59	12/13/24 15:24	113507-82-7	
PFHpS	30.2	ng/L	5.2	1	12/12/24 06:59	12/13/24 15:24	375-92-8	
PFMBA	ND	ng/L	10.4	1	12/12/24 06:59	12/13/24 15:24	863090-89-5	
PFMPA	ND	ng/L	10.4	1	12/12/24 06:59	12/13/24 15:24	377-73-1	
PFNS	ND	ng/L	5.2	1	12/12/24 06:59	12/13/24 15:24	68259-12-1	
PFOSA	ND	ng/L	5.2	1	12/12/24 06:59	12/13/24 15:24	754-91-6	
PFPeA	32.1	ng/L	10.4	1	12/12/24 06:59	12/13/24 15:24	2706-90-3	
PFPeS	81.2	ng/L	5.2	1	12/12/24 06:59	12/13/24 15:24	2706-91-4	
PFDoA	ND	ng/L	5.2	1	12/12/24 06:59	12/13/24 15:24	307-55-1	
PFHpA	18.9	ng/L	5.2	1	12/12/24 06:59	12/13/24 15:24	375-85-9	
PFHxS	872	ng/L	5.2	1	12/12/24 06:59	12/13/24 15:24	355-46-4	
PFNA	5.8	ng/L	5.2	1	12/12/24 06:59	12/13/24 15:24	375-95-1	
PFOS	1810	ng/L	5.2	1	12/12/24 06:59	12/13/24 15:24	1763-23-1	
PFOA	33.0	ng/L	5.2	1	12/12/24 06:59	12/13/24 15:24	335-67-1	
PFTeDA	ND	ng/L	5.2	1	12/12/24 06:59	12/13/24 15:24	376-06-7	
PFTrDA	ND	ng/L	5.2	1	12/12/24 06:59	12/13/24 15:24	72629-94-8	
PFUnA	ND	ng/L	5.2	1	12/12/24 06:59	12/13/24 15:24	2058-94-8	
Surrogates								
13C2-PFDoA (S)	84	%	10-130	1	12/12/24 06:59	12/13/24 15:24		
13C3HFPO-DA (S)	94	%	40-130	1	12/12/24 06:59	12/13/24 15:24		
13C3-PFBS (S)	100	%	40-135	1	12/12/24 06:59	12/13/24 15:24		
13C3-PFHxS (S)	96	%	40-130	1	12/12/24 06:59	12/13/24 15:24		

REPORT OF LABORATORY ANALYSIS

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**ANALYTICAL RESULTS**

Project: L1803418 WG2408664

Pace Project No.: 10717247

Sample: ATMT-TMW-1	Lab ID: 10717247001	Collected: 11/20/24 08:55	Received: 11/27/24 08:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633 DRAFT Water								
Analytical Method: EPA 1633 DRAFT Preparation Method: EPA 1633 DRAFT								
Initial Volume/Weight: 96.3 mL Final Volume/Weight: 5 mL								
Pace Analytical Services - Minneapolis								
Surrogates								
13C4-PFBA (S)	65	%	5-130	1	12/12/24 06:59	12/13/24 15:24		
13C4-PFHpA (S)	92	%	40-130	1	12/12/24 06:59	12/13/24 15:24		
13C5-PFHxA (S)	92	%	40-130	1	12/12/24 06:59	12/13/24 15:24		
13C5-PFPeA (S)	95	%	40-130	1	12/12/24 06:59	12/13/24 15:24		
13C6-PFDA (S)	90	%	40-130	1	12/12/24 06:59	12/13/24 15:24		
13C8-PFOA (S)	91	%	40-130	1	12/12/24 06:59	12/13/24 15:24		
13C8-PFOS (S)	92	%	40-130	1	12/12/24 06:59	12/13/24 15:24		
13C8-PFOA (S)	86	%	40-130	1	12/12/24 06:59	12/13/24 15:24		
13C9-PFNA (S)	90	%	40-130	1	12/12/24 06:59	12/13/24 15:24		
d3-MeFOSAA (S)	82	%	40-170	1	12/12/24 06:59	12/13/24 15:24		
d3-NMeFOSA (S)	70	%	10-130	1	12/12/24 06:59	12/13/24 15:24		
d5-EtFOSAA (S)	78	%	25-135	1	12/12/24 06:59	12/13/24 15:24		
d5-NEtFOSA (S)	72	%	10-130	1	12/12/24 06:59	12/13/24 15:24		
d7-NMeFOSE (S)	76	%	10-130	1	12/12/24 06:59	12/13/24 15:24		
d9-NEtFOSE (S)	84	%	10-130	1	12/12/24 06:59	12/13/24 15:24		
13C2-PFTA (S)	84	%	10-130	1	12/12/24 06:59	12/13/24 15:24		
13C7-PFUdA (S)	89	%	30-130	1	12/12/24 06:59	12/13/24 15:24		
13C24:2FTS (S)	123	%	40-200	1	12/12/24 06:59	12/13/24 15:24		
13C26:2FTS (S)	127	%	40-200	1	12/12/24 06:59	12/13/24 15:24		
13C28:2FTS (S)	107	%	40-300	1	12/12/24 06:59	12/13/24 15:24		

Sample: ATMT-TMW-2	Lab ID: 10717247002	Collected: 11/20/24 10:20	Received: 11/27/24 08:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633 DRAFT Water								
Analytical Method: EPA 1633 DRAFT Preparation Method: EPA 1633 DRAFT								
Initial Volume/Weight: 463.5 mL Final Volume/Weight: 5 mL								
Pace Analytical Services - Minneapolis								
11CI-PF3OUdS	ND	ng/L	4.3	1	12/12/24 06:59	12/13/24 15:40	763051-92-9	
3:3 FTCA	ND	ng/L	5.4	1	12/12/24 06:59	12/13/24 15:40	356-02-5	
4:2 FTS	ND	ng/L	4.3	1	12/12/24 06:59	12/13/24 15:40	757124-72-4	
5:3 FTCA	ND	ng/L	27.0	1	12/12/24 06:59	12/13/24 15:40	914637-49-3	
6:2 FTS	ND	ng/L	4.3	1	12/12/24 06:59	12/13/24 15:40	27619-97-2	
7:3 FTCA	ND	ng/L	27.0	1	12/12/24 06:59	12/13/24 15:40	812-70-4	
8:2 FTS	ND	ng/L	4.3	1	12/12/24 06:59	12/13/24 15:40	39108-34-4	
9CI-PF3ONS	ND	ng/L	4.3	1	12/12/24 06:59	12/13/24 15:40	756426-58-1	
ADONA	ND	ng/L	4.3	1	12/12/24 06:59	12/13/24 15:40	919005-14-4	
HFPO-DA	ND	ng/L	4.3	1	12/12/24 06:59	12/13/24 15:40	13252-13-6	
NEtFOSAA	ND	ng/L	1.1	1	12/12/24 06:59	12/13/24 15:40	2991-50-6	
NEtFOSA	ND	ng/L	1.1	1	12/12/24 06:59	12/13/24 15:40	4151-50-2	
NEtFOSE	ND	ng/L	10.8	1	12/12/24 06:59	12/13/24 15:40	1691-99-2	
NFDHA	ND	ng/L	2.2	1	12/12/24 06:59	12/13/24 15:40	151772-58-6	

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**ANALYTICAL RESULTS**

Project: L1803418 WG2408664

Pace Project No.: 10717247

Sample: ATMT-TMW-2	Lab ID: 10717247002	Collected: 11/20/24 10:20	Received: 11/27/24 08:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633 DRAFT Water		Analytical Method: EPA 1633 DRAFT Preparation Method: EPA 1633 DRAFT						
		Initial Volume/Weight: 463.5 mL Final Volume/Weight: 5 mL						
		Pace Analytical Services - Minneapolis						
NMeFOSAA	ND	ng/L	1.1	1	12/12/24 06:59	12/13/24 15:40	2355-31-9	
NMeFOSA	ND	ng/L	1.1	1	12/12/24 06:59	12/13/24 15:40	31506-32-8	
NMeFOSE	ND	ng/L	10.8	1	12/12/24 06:59	12/13/24 15:40	24448-09-7	
PFBS	12.0	ng/L	1.1	1	12/12/24 06:59	12/13/24 15:40	375-73-5	
PFDA	2.3	ng/L	1.1	1	12/12/24 06:59	12/13/24 15:40	335-76-2	
PFHxA	10.7	ng/L	1.1	1	12/12/24 06:59	12/13/24 15:40	307-24-4	
PFBA	5.0	ng/L	4.3	1	12/12/24 06:59	12/13/24 15:40	375-22-4	
PFDS	ND	ng/L	1.1	1	12/12/24 06:59	12/13/24 15:40	335-77-3	
PFDoS	ND	ng/L	1.1	1	12/12/24 06:59	12/13/24 15:40	79780-39-5	
PFEESA	ND	ng/L	2.2	1	12/12/24 06:59	12/13/24 15:40	113507-82-7	
PFHpS	18.7	ng/L	1.1	1	12/12/24 06:59	12/13/24 15:40	375-92-8	
PFMBA	ND	ng/L	2.2	1	12/12/24 06:59	12/13/24 15:40	863090-89-5	
PFMPA	ND	ng/L	2.2	1	12/12/24 06:59	12/13/24 15:40	377-73-1	
PFNS	2.8	ng/L	1.1	1	12/12/24 06:59	12/13/24 15:40	68259-12-1	
PFOSA	2.8	ng/L	1.1	1	12/12/24 06:59	12/13/24 15:40	754-91-6	
PFPeA	10.6	ng/L	2.2	1	12/12/24 06:59	12/13/24 15:40	2706-90-3	
PFPeS	19.5	ng/L	1.1	1	12/12/24 06:59	12/13/24 15:40	2706-91-4	
PFDoA	ND	ng/L	1.1	1	12/12/24 06:59	12/13/24 15:40	307-55-1	
PFHpA	3.7	ng/L	1.1	1	12/12/24 06:59	12/13/24 15:40	375-85-9	
PFHxS	266	ng/L	1.1	1	12/12/24 06:59	12/13/24 15:40	355-46-4	M1
PFNA	4.8	ng/L	1.1	1	12/12/24 06:59	12/13/24 15:40	375-95-1	
PFOS	2800	ng/L	10.8	10	12/12/24 06:59	12/16/24 14:38	1763-23-1	M1
PFOA	9.0	ng/L	1.1	1	12/12/24 06:59	12/13/24 15:40	335-67-1	
PFTeDA	ND	ng/L	1.1	1	12/12/24 06:59	12/13/24 15:40	376-06-7	
PFTrDA	ND	ng/L	1.1	1	12/12/24 06:59	12/13/24 15:40	72629-94-8	
PFUnA	ND	ng/L	1.1	1	12/12/24 06:59	12/13/24 15:40	2058-94-8	
Surrogates								
13C2-PFDoA (S)	87	%	10-130	1	12/12/24 06:59	12/13/24 15:40		
13C3HFPO-DA (S)	99	%	40-130	1	12/12/24 06:59	12/13/24 15:40		
13C3-PFBS (S)	103	%	40-135	1	12/12/24 06:59	12/13/24 15:40		
13C3-PFHxS (S)	98	%	40-130	1	12/12/24 06:59	12/13/24 15:40		
13C4-PFBA (S)	43	%	5-130	1	12/12/24 06:59	12/13/24 15:40		
13C4-PFHpA (S)	96	%	40-130	1	12/12/24 06:59	12/13/24 15:40		
13C5-PFHxA (S)	95	%	40-130	1	12/12/24 06:59	12/13/24 15:40		
13C5-PFPeA (S)	98	%	40-130	1	12/12/24 06:59	12/13/24 15:40		
13C6-PFDA (S)	93	%	40-130	1	12/12/24 06:59	12/13/24 15:40		
13C8-PFOA (S)	98	%	40-130	1	12/12/24 06:59	12/13/24 15:40		
13C8-PFOS (S)	96	%	40-130	1	12/12/24 06:59	12/13/24 15:40		
13C8-PFOSA (S)	127	%	40-130	1	12/12/24 06:59	12/13/24 15:40		
13C9-PFNA (S)	94	%	40-130	1	12/12/24 06:59	12/13/24 15:40		
d3-MeFOSAA (S)	102	%	40-170	1	12/12/24 06:59	12/13/24 15:40		
d3-NMeFOSA (S)	106	%	10-130	1	12/12/24 06:59	12/13/24 15:40		
d5-EtFOSAA (S)	63	%	25-135	1	12/12/24 06:59	12/13/24 15:40		
d5-NEtFOSA (S)	106	%	10-130	1	12/12/24 06:59	12/13/24 15:40		
d7-NMeFOSE (S)	110	%	10-130	1	12/12/24 06:59	12/13/24 15:40		

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ANALYTICAL RESULTS

Project: L1803418 WG2408664

Pace Project No.: 10717247

Sample: ATMT-TMW-2	Lab ID: 10717247002	Collected: 11/20/24 10:20	Received: 11/27/24 08:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

EPA 1633 DRAFT Water

Analytical Method: EPA 1633 DRAFT Preparation Method: EPA 1633 DRAFT

Initial Volume/Weight: 463.5 mL Final Volume/Weight: 5 mL

Pace Analytical Services - Minneapolis

Surrogates

d9-NEtFOSE (S)	120	%	10-130	1	12/12/24 06:59	12/13/24 15:40		
13C2-PFTA (S)	81	%	10-130	1	12/12/24 06:59	12/13/24 15:40		
13C7-PFUdA (S)	92	%	30-130	1	12/12/24 06:59	12/13/24 15:40		
13C24:2FTS (S)	148	%	40-200	1	12/12/24 06:59	12/13/24 15:40		
13C26:2FTS (S)	158	%	40-200	1	12/12/24 06:59	12/13/24 15:40		
13C28:2FTS (S)	131	%	40-300	1	12/12/24 06:59	12/13/24 15:40		

Sample: ATMT-TMW-2-DUP	Lab ID: 10717247003	Collected: 11/20/24 10:20	Received: 11/27/24 08:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

EPA 1633 DRAFT Water

Analytical Method: EPA 1633 DRAFT Preparation Method: EPA 1633 DRAFT

Initial Volume/Weight: 470 mL Final Volume/Weight: 5 mL

Pace Analytical Services - Minneapolis

11CI-PF3OUdS	ND	ng/L	4.3	1	12/12/24 06:59	12/13/24 16:27	763051-92-9	
3:3 FTCA	ND	ng/L	5.3	1	12/12/24 06:59	12/13/24 16:27	356-02-5	
4:2 FTS	ND	ng/L	4.3	1	12/12/24 06:59	12/13/24 16:27	757124-72-4	
5:3 FTCA	ND	ng/L	26.6	1	12/12/24 06:59	12/13/24 16:27	914637-49-3	
6:2 FTS	ND	ng/L	4.3	1	12/12/24 06:59	12/13/24 16:27	27619-97-2	
7:3 FTCA	ND	ng/L	26.6	1	12/12/24 06:59	12/13/24 16:27	812-70-4	
8:2 FTS	ND	ng/L	4.3	1	12/12/24 06:59	12/13/24 16:27	39108-34-4	
9CI-PF3ONS	ND	ng/L	4.3	1	12/12/24 06:59	12/13/24 16:27	756426-58-1	
ADONA	ND	ng/L	4.3	1	12/12/24 06:59	12/13/24 16:27	919005-14-4	
HFPO-DA	ND	ng/L	4.3	1	12/12/24 06:59	12/13/24 16:27	13252-13-6	
NEtFOSAA	ND	ng/L	1.1	1	12/12/24 06:59	12/13/24 16:27	2991-50-6	
NEtFOSA	ND	ng/L	1.1	1	12/12/24 06:59	12/13/24 16:27	4151-50-2	
NEtFOSE	ND	ng/L	10.6	1	12/12/24 06:59	12/13/24 16:27	1691-99-2	
NFDHA	ND	ng/L	2.1	1	12/12/24 06:59	12/13/24 16:27	151772-58-6	
NMeFOSAA	ND	ng/L	1.1	1	12/12/24 06:59	12/13/24 16:27	2355-31-9	
NMeFOSA	ND	ng/L	1.1	1	12/12/24 06:59	12/13/24 16:27	31506-32-8	
NMeFOSE	ND	ng/L	10.6	1	12/12/24 06:59	12/13/24 16:27	24448-09-7	
PFBS	10.1	ng/L	1.1	1	12/12/24 06:59	12/13/24 16:27	375-73-5	
PFDA	2.0	ng/L	1.1	1	12/12/24 06:59	12/13/24 16:27	335-76-2	
PFHxA	9.0	ng/L	1.1	1	12/12/24 06:59	12/13/24 16:27	307-24-4	
PFBA	ND	ng/L	4.3	1	12/12/24 06:59	12/13/24 16:27	375-22-4	
PFDS	ND	ng/L	1.1	1	12/12/24 06:59	12/13/24 16:27	335-77-3	
PFDoS	ND	ng/L	1.1	1	12/12/24 06:59	12/13/24 16:27	79780-39-5	
PFEESA	ND	ng/L	2.1	1	12/12/24 06:59	12/13/24 16:27	113507-82-7	
PFHpS	14.5	ng/L	1.1	1	12/12/24 06:59	12/13/24 16:27	375-92-8	
PFMBA	ND	ng/L	2.1	1	12/12/24 06:59	12/13/24 16:27	863090-89-5	
PFMPA	ND	ng/L	2.1	1	12/12/24 06:59	12/13/24 16:27	377-73-1	
PFNS	2.5	ng/L	1.1	1	12/12/24 06:59	12/13/24 16:27	68259-12-1	

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**ANALYTICAL RESULTS**

Project: L1803418 WG2408664

Pace Project No.: 10717247

Sample: ATMT-TMW-2-DUP	Lab ID: 10717247003	Collected: 11/20/24 10:20	Received: 11/27/24 08:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633 DRAFT Water								
Analytical Method: EPA 1633 DRAFT Preparation Method: EPA 1633 DRAFT								
Initial Volume/Weight: 470 mL Final Volume/Weight: 5 mL								
Pace Analytical Services - Minneapolis								
PFOSA	2.4	ng/L	1.1	1	12/12/24 06:59	12/13/24 16:27	754-91-6	
PFPeA	8.0	ng/L	2.1	1	12/12/24 06:59	12/13/24 16:27	2706-90-3	
PFPeS	15.0	ng/L	1.1	1	12/12/24 06:59	12/13/24 16:27	2706-91-4	
PFDoA	ND	ng/L	1.1	1	12/12/24 06:59	12/13/24 16:27	307-55-1	
PFHpA	2.9	ng/L	1.1	1	12/12/24 06:59	12/13/24 16:27	375-85-9	
PFHxS	203	ng/L	1.1	1	12/12/24 06:59	12/13/24 16:27	355-46-4	
PFNA	3.8	ng/L	1.1	1	12/12/24 06:59	12/13/24 16:27	375-95-1	
PFOS	2310	ng/L	10.6	10	12/12/24 06:59	12/18/24 05:23	1763-23-1	
PFOA	7.5	ng/L	1.1	1	12/12/24 06:59	12/13/24 16:27	335-67-1	
PFTeDA	ND	ng/L	1.1	1	12/12/24 06:59	12/13/24 16:27	376-06-7	
PFTrDA	ND	ng/L	1.1	1	12/12/24 06:59	12/13/24 16:27	72629-94-8	
PFUnA	ND	ng/L	1.1	1	12/12/24 06:59	12/13/24 16:27	2058-94-8	
Surrogates								
13C2-PFDoA (S)	84	%.	10-130	1	12/12/24 06:59	12/13/24 16:27		
13C3HFPO-DA (S)	98	%.	40-130	1	12/12/24 06:59	12/13/24 16:27		
13C3-PFBS (S)	103	%.	40-135	1	12/12/24 06:59	12/13/24 16:27		
13C3-PFHxS (S)	99	%.	40-130	1	12/12/24 06:59	12/13/24 16:27		
13C4-PFBA (S)	42	%.	5-130	1	12/12/24 06:59	12/13/24 16:27		
13C4-PFHpA (S)	97	%.	40-130	1	12/12/24 06:59	12/13/24 16:27		
13C5-PFHxA (S)	94	%.	40-130	1	12/12/24 06:59	12/13/24 16:27		
13C5-PFPeA (S)	97	%.	40-130	1	12/12/24 06:59	12/13/24 16:27		
13C6-PFDA (S)	93	%.	40-130	1	12/12/24 06:59	12/13/24 16:27		
13C8-PFOA (S)	96	%.	40-130	1	12/12/24 06:59	12/13/24 16:27		
13C8-PFOS (S)	99	%.	40-130	1	12/12/24 06:59	12/13/24 16:27		
13C8-PFOSA (S)	127	%.	40-130	1	12/12/24 06:59	12/13/24 16:27		
13C9-PFNA (S)	95	%.	40-130	1	12/12/24 06:59	12/13/24 16:27		
d3-MeFOSAA (S)	113	%.	40-170	1	12/12/24 06:59	12/13/24 16:27		
d3-NMeFOSA (S)	99	%.	10-130	1	12/12/24 06:59	12/13/24 16:27		
d5-EtFOSAA (S)	69	%.	25-135	1	12/12/24 06:59	12/13/24 16:27		
d5-NEtFOSA (S)	100	%.	10-130	1	12/12/24 06:59	12/13/24 16:27		
d7-NMeFOSE (S)	107	%.	10-130	1	12/12/24 06:59	12/13/24 16:27		
d9-NEtFOSE (S)	118	%.	10-130	1	12/12/24 06:59	12/13/24 16:27		
13C2-PFTA (S)	80	%.	10-130	1	12/12/24 06:59	12/13/24 16:27		
13C7-PFUdA (S)	88	%.	30-130	1	12/12/24 06:59	12/13/24 16:27		
13C24:2FTS (S)	145	%.	40-200	1	12/12/24 06:59	12/13/24 16:27		
13C26:2FTS (S)	150	%.	40-200	1	12/12/24 06:59	12/13/24 16:27		
13C28:2FTS (S)	118	%.	40-300	1	12/12/24 06:59	12/13/24 16:27		

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ANALYTICAL RESULTS

Project: L1803418 WG2408664

Pace Project No.: 10717247

Sample: ATMT-TMW-3 **Lab ID: 10717247004** Collected: 11/20/24 11:55 Received: 11/27/24 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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EPA 1633 DRAFT Water

Analytical Method: EPA 1633 DRAFT Preparation Method: EPA 1633 DRAFT

Initial Volume/Weight: 483.6 mL Final Volume/Weight: 5 mL

Pace Analytical Services - Minneapolis

11CI-PF3OUdS	ND	ng/L	4.1	1	12/12/24 06:59	12/13/24 16:42	763051-92-9	
3:3 FTCA	ND	ng/L	5.2	1	12/12/24 06:59	12/13/24 16:42	356-02-5	
4:2 FTS	ND	ng/L	4.1	1	12/12/24 06:59	12/13/24 16:42	757124-72-4	
5:3 FTCA	ND	ng/L	25.8	1	12/12/24 06:59	12/13/24 16:42	914637-49-3	
6:2 FTS	ND	ng/L	4.1	1	12/12/24 06:59	12/13/24 16:42	27619-97-2	
7:3 FTCA	ND	ng/L	25.8	1	12/12/24 06:59	12/13/24 16:42	812-70-4	
8:2 FTS	ND	ng/L	4.1	1	12/12/24 06:59	12/13/24 16:42	39108-34-4	
9CI-PF3ONS	ND	ng/L	4.1	1	12/12/24 06:59	12/13/24 16:42	756426-58-1	
ADONA	ND	ng/L	4.1	1	12/12/24 06:59	12/13/24 16:42	919005-14-4	
HFPO-DA	ND	ng/L	4.1	1	12/12/24 06:59	12/13/24 16:42	13252-13-6	
NEtFOSAA	ND	ng/L	1.0	1	12/12/24 06:59	12/13/24 16:42	2991-50-6	
NEtFOSA	ND	ng/L	1.0	1	12/12/24 06:59	12/13/24 16:42	4151-50-2	
NEtFOSE	ND	ng/L	10.3	1	12/12/24 06:59	12/13/24 16:42	1691-99-2	
NFDHA	ND	ng/L	2.1	1	12/12/24 06:59	12/13/24 16:42	151772-58-6	
NMeFOSAA	ND	ng/L	1.0	1	12/12/24 06:59	12/13/24 16:42	2355-31-9	
NMeFOSA	ND	ng/L	1.0	1	12/12/24 06:59	12/13/24 16:42	31506-32-8	
NMeFOSE	ND	ng/L	10.3	1	12/12/24 06:59	12/13/24 16:42	24448-09-7	
PFBS	ND	ng/L	1.0	1	12/12/24 06:59	12/13/24 16:42	375-73-5	
PFDA	ND	ng/L	1.0	1	12/12/24 06:59	12/13/24 16:42	335-76-2	
PFHxA	ND	ng/L	1.0	1	12/12/24 06:59	12/13/24 16:42	307-24-4	
PFBA	ND	ng/L	4.1	1	12/12/24 06:59	12/13/24 16:42	375-22-4	
PFDS	ND	ng/L	1.0	1	12/12/24 06:59	12/13/24 16:42	335-77-3	
PFDoS	ND	ng/L	1.0	1	12/12/24 06:59	12/13/24 16:42	79780-39-5	
PFEESA	ND	ng/L	2.1	1	12/12/24 06:59	12/13/24 16:42	113507-82-7	
PFHpS	ND	ng/L	1.0	1	12/12/24 06:59	12/13/24 16:42	375-92-8	
PFMBA	ND	ng/L	2.1	1	12/12/24 06:59	12/13/24 16:42	863090-89-5	
PFMPA	ND	ng/L	2.1	1	12/12/24 06:59	12/13/24 16:42	377-73-1	
PFNS	ND	ng/L	1.0	1	12/12/24 06:59	12/13/24 16:42	68259-12-1	
PFOSA	ND	ng/L	1.0	1	12/12/24 06:59	12/13/24 16:42	754-91-6	
PFPeA	ND	ng/L	2.1	1	12/12/24 06:59	12/13/24 16:42	2706-90-3	
PFPeS	ND	ng/L	1.0	1	12/12/24 06:59	12/13/24 16:42	2706-91-4	
PFDoA	ND	ng/L	1.0	1	12/12/24 06:59	12/13/24 16:42	307-55-1	
PFHpA	ND	ng/L	1.0	1	12/12/24 06:59	12/13/24 16:42	375-85-9	
PFHxS	ND	ng/L	1.0	1	12/12/24 06:59	12/13/24 16:42	355-46-4	
PFNA	ND	ng/L	1.0	1	12/12/24 06:59	12/13/24 16:42	375-95-1	
PFOS	1.5	ng/L	1.0	1	12/12/24 06:59	12/13/24 16:42	1763-23-1	
PFOA	ND	ng/L	1.0	1	12/12/24 06:59	12/13/24 16:42	335-67-1	
PFTeDA	ND	ng/L	1.0	1	12/12/24 06:59	12/13/24 16:42	376-06-7	
PFTrDA	ND	ng/L	1.0	1	12/12/24 06:59	12/13/24 16:42	72629-94-8	
PFUnA	ND	ng/L	1.0	1	12/12/24 06:59	12/13/24 16:42	2058-94-8	
Surrogates								
13C2-PFDoA (S)	89	%.	10-130	1	12/12/24 06:59	12/13/24 16:42		
13C3HFPO-DA (S)	97	%.	40-130	1	12/12/24 06:59	12/13/24 16:42		
13C3-PFBS (S)	102	%.	40-135	1	12/12/24 06:59	12/13/24 16:42		
13C3-PFHxS (S)	99	%.	40-130	1	12/12/24 06:59	12/13/24 16:42		

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**ANALYTICAL RESULTS**

Project: L1803418 WG2408664

Pace Project No.: 10717247

Sample: ATMT-TMW-3	Lab ID: 10717247004	Collected: 11/20/24 11:55	Received: 11/27/24 08:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633 DRAFT Water								
Analytical Method: EPA 1633 DRAFT Preparation Method: EPA 1633 DRAFT								
Initial Volume/Weight: 483.6 mL Final Volume/Weight: 5 mL								
Pace Analytical Services - Minneapolis								
Surrogates								
13C4-PFBA (S)	51	%	5-130	1	12/12/24 06:59	12/13/24 16:42		
13C4-PFHpA (S)	92	%	40-130	1	12/12/24 06:59	12/13/24 16:42		
13C5-PFHxA (S)	90	%	40-130	1	12/12/24 06:59	12/13/24 16:42		
13C5-PFPeA (S)	96	%	40-130	1	12/12/24 06:59	12/13/24 16:42		
13C6-PFDA (S)	94	%	40-130	1	12/12/24 06:59	12/13/24 16:42		
13C8-PFOA (S)	96	%	40-130	1	12/12/24 06:59	12/13/24 16:42		
13C8-PFOS (S)	96	%	40-130	1	12/12/24 06:59	12/13/24 16:42		
13C8-PFOA (S)	83	%	40-130	1	12/12/24 06:59	12/13/24 16:42		
13C9-PFNA (S)	92	%	40-130	1	12/12/24 06:59	12/13/24 16:42		
d3-MeFOSAA (S)	63	%	40-170	1	12/12/24 06:59	12/13/24 16:42		
d3-NMeFOSA (S)	74	%	10-130	1	12/12/24 06:59	12/13/24 16:42		
d5-EtFOSAA (S)	68	%	25-135	1	12/12/24 06:59	12/13/24 16:42		
d5-NEtFOSA (S)	74	%	10-130	1	12/12/24 06:59	12/13/24 16:42		
d7-NMeFOSE (S)	79	%	10-130	1	12/12/24 06:59	12/13/24 16:42		
d9-NEtFOSE (S)	85	%	10-130	1	12/12/24 06:59	12/13/24 16:42		
13C2-PFTA (S)	88	%	10-130	1	12/12/24 06:59	12/13/24 16:42		
13C7-PFUdA (S)	96	%	30-130	1	12/12/24 06:59	12/13/24 16:42		
13C24:2FTS (S)	108	%	40-200	1	12/12/24 06:59	12/13/24 16:42		
13C26:2FTS (S)	114	%	40-200	1	12/12/24 06:59	12/13/24 16:42		
13C28:2FTS (S)	116	%	40-300	1	12/12/24 06:59	12/13/24 16:42		

Sample: ATMT-RINSATE	Lab ID: 10717247005	Collected: 11/20/24 12:10	Received: 11/27/24 08:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
EPA 1633 DRAFT Water								
Analytical Method: EPA 1633 DRAFT Preparation Method: EPA 1633 DRAFT								
Initial Volume/Weight: 497.4 mL Final Volume/Weight: 5 mL								
Pace Analytical Services - Minneapolis								
11CI-PF3OUdS	ND	ng/L	4.0	1	12/12/24 06:59	12/13/24 16:58	763051-92-9	
3:3 FTCA	ND	ng/L	5.0	1	12/12/24 06:59	12/13/24 16:58	356-02-5	
4:2 FTS	ND	ng/L	4.0	1	12/12/24 06:59	12/13/24 16:58	757124-72-4	
5:3 FTCA	ND	ng/L	25.1	1	12/12/24 06:59	12/13/24 16:58	914637-49-3	
6:2 FTS	ND	ng/L	4.0	1	12/12/24 06:59	12/13/24 16:58	27619-97-2	
7:3 FTCA	ND	ng/L	25.1	1	12/12/24 06:59	12/13/24 16:58	812-70-4	
8:2 FTS	ND	ng/L	4.0	1	12/12/24 06:59	12/13/24 16:58	39108-34-4	
9CI-PF3ONS	ND	ng/L	4.0	1	12/12/24 06:59	12/13/24 16:58	756426-58-1	
ADONA	ND	ng/L	4.0	1	12/12/24 06:59	12/13/24 16:58	919005-14-4	
HFPO-DA	ND	ng/L	4.0	1	12/12/24 06:59	12/13/24 16:58	13252-13-6	
NEtFOSAA	ND	ng/L	1.0	1	12/12/24 06:59	12/13/24 16:58	2991-50-6	
NEtFOSA	ND	ng/L	1.0	1	12/12/24 06:59	12/13/24 16:58	4151-50-2	
NEtFOSE	ND	ng/L	10.1	1	12/12/24 06:59	12/13/24 16:58	1691-99-2	
NFDHA	ND	ng/L	2.0	1	12/12/24 06:59	12/13/24 16:58	151772-58-6	

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ANALYTICAL RESULTS

Project: L1803418 WG2408664

Pace Project No.: 10717247

Sample: ATMT-RINSATE Lab ID: 10717247005 Collected: 11/20/24 12:10 Received: 11/27/24 08:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
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EPA 1633 DRAFT Water

Analytical Method: EPA 1633 DRAFT Preparation Method: EPA 1633 DRAFT

Initial Volume/Weight: 497.4 mL Final Volume/Weight: 5 mL

Pace Analytical Services - Minneapolis

NMeFOSAA	ND	ng/L	1.0	1	12/12/24 06:59	12/13/24 16:58	2355-31-9	
NMeFOSA	ND	ng/L	1.0	1	12/12/24 06:59	12/13/24 16:58	31506-32-8	
NMeFOSE	ND	ng/L	10.1	1	12/12/24 06:59	12/13/24 16:58	24448-09-7	
PFBS	ND	ng/L	1.0	1	12/12/24 06:59	12/13/24 16:58	375-73-5	
PFDA	ND	ng/L	1.0	1	12/12/24 06:59	12/13/24 16:58	335-76-2	
PFHxA	ND	ng/L	1.0	1	12/12/24 06:59	12/13/24 16:58	307-24-4	
PFBA	ND	ng/L	4.0	1	12/12/24 06:59	12/13/24 16:58	375-22-4	
PFDS	ND	ng/L	1.0	1	12/12/24 06:59	12/13/24 16:58	335-77-3	
PFDoS	ND	ng/L	1.0	1	12/12/24 06:59	12/13/24 16:58	79780-39-5	
PFEESA	ND	ng/L	2.0	1	12/12/24 06:59	12/13/24 16:58	113507-82-7	
PFHpS	ND	ng/L	1.0	1	12/12/24 06:59	12/13/24 16:58	375-92-8	
PFMBA	ND	ng/L	2.0	1	12/12/24 06:59	12/13/24 16:58	863090-89-5	
PFMPA	ND	ng/L	2.0	1	12/12/24 06:59	12/13/24 16:58	377-73-1	
PFNS	ND	ng/L	1.0	1	12/12/24 06:59	12/13/24 16:58	68259-12-1	
PFOSA	ND	ng/L	1.0	1	12/12/24 06:59	12/13/24 16:58	754-91-6	
PFPeA	ND	ng/L	2.0	1	12/12/24 06:59	12/13/24 16:58	2706-90-3	
PFPeS	ND	ng/L	1.0	1	12/12/24 06:59	12/13/24 16:58	2706-91-4	
PFDoA	ND	ng/L	1.0	1	12/12/24 06:59	12/13/24 16:58	307-55-1	
PFHpA	ND	ng/L	1.0	1	12/12/24 06:59	12/13/24 16:58	375-85-9	
PFHxS	ND	ng/L	1.0	1	12/12/24 06:59	12/13/24 16:58	355-46-4	
PFNA	ND	ng/L	1.0	1	12/12/24 06:59	12/13/24 16:58	375-95-1	
PFOS	ND	ng/L	1.0	1	12/12/24 06:59	12/13/24 16:58	1763-23-1	
PFOA	ND	ng/L	1.0	1	12/12/24 06:59	12/13/24 16:58	335-67-1	
PFTeDA	ND	ng/L	1.0	1	12/12/24 06:59	12/13/24 16:58	376-06-7	
PFTrDA	ND	ng/L	1.0	1	12/12/24 06:59	12/13/24 16:58	72629-94-8	
PFUnA	ND	ng/L	1.0	1	12/12/24 06:59	12/13/24 16:58	2058-94-8	

Surrogates

13C2-PFDoA (S)	79	%	10-130	1	12/12/24 06:59	12/13/24 16:58		
13C3HFPO-DA (S)	97	%	40-130	1	12/12/24 06:59	12/13/24 16:58		
13C3-PFBS (S)	103	%	40-135	1	12/12/24 06:59	12/13/24 16:58		
13C3-PFHxS (S)	98	%	40-130	1	12/12/24 06:59	12/13/24 16:58		
13C4-PFBA (S)	93	%	5-130	1	12/12/24 06:59	12/13/24 16:58		
13C4-PFHpA (S)	93	%	40-130	1	12/12/24 06:59	12/13/24 16:58		
13C5-PFHxA (S)	93	%	40-130	1	12/12/24 06:59	12/13/24 16:58		
13C5-PFPeA (S)	97	%	40-130	1	12/12/24 06:59	12/13/24 16:58		
13C6-PFDA (S)	93	%	40-130	1	12/12/24 06:59	12/13/24 16:58		
13C8-PFOA (S)	95	%	40-130	1	12/12/24 06:59	12/13/24 16:58		
13C8-PFOS (S)	94	%	40-130	1	12/12/24 06:59	12/13/24 16:58		
13C8-PFOSA (S)	79	%	40-130	1	12/12/24 06:59	12/13/24 16:58		
13C9-PFNA (S)	92	%	40-130	1	12/12/24 06:59	12/13/24 16:58		
d3-MeFOSAA (S)	81	%	40-170	1	12/12/24 06:59	12/13/24 16:58		
d3-NMeFOSA (S)	67	%	10-130	1	12/12/24 06:59	12/13/24 16:58		
d5-EtFOSAA (S)	80	%	25-135	1	12/12/24 06:59	12/13/24 16:58		
d5-NEtFOSA (S)	70	%	10-130	1	12/12/24 06:59	12/13/24 16:58		
d7-NMeFOSE (S)	71	%	10-130	1	12/12/24 06:59	12/13/24 16:58		

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ANALYTICAL RESULTS

Project: L1803418 WG2408664

Pace Project No.: 10717247

Sample: ATMT-RINSATE	Lab ID: 10717247005	Collected: 11/20/24 12:10	Received: 11/27/24 08:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

EPA 1633 DRAFT Water
 Analytical Method: EPA 1633 DRAFT Preparation Method: EPA 1633 DRAFT
 Initial Volume/Weight: 497.4 mL Final Volume/Weight: 5 mL
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Surrogates

d9-NEtFOSE (S)	77	%	10-130	1	12/12/24 06:59	12/13/24 16:58		
13C2-PFTA (S)	69	%	10-130	1	12/12/24 06:59	12/13/24 16:58		
13C7-PFUdA (S)	92	%	30-130	1	12/12/24 06:59	12/13/24 16:58		
13C24:2FTS (S)	108	%	40-200	1	12/12/24 06:59	12/13/24 16:58		
13C26:2FTS (S)	120	%	40-200	1	12/12/24 06:59	12/13/24 16:58		
13C28:2FTS (S)	110	%	40-300	1	12/12/24 06:59	12/13/24 16:58		

Sample: ATMT-FB-1	Lab ID: 10717247006	Collected: 11/18/24 17:45	Received: 11/27/24 08:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

EPA 1633 DRAFT Water
 Analytical Method: EPA 1633 DRAFT Preparation Method: EPA 1633 DRAFT
 Initial Volume/Weight: 489.9 mL Final Volume/Weight: 5 mL
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11CI-PF3OUdS	ND	ng/L	4.1	1	12/12/24 06:59	12/13/24 17:13	763051-92-9	
3:3 FTCA	ND	ng/L	5.1	1	12/12/24 06:59	12/13/24 17:13	356-02-5	
4:2 FTS	ND	ng/L	4.1	1	12/12/24 06:59	12/13/24 17:13	757124-72-4	
5:3 FTCA	ND	ng/L	25.5	1	12/12/24 06:59	12/13/24 17:13	914637-49-3	
6:2 FTS	ND	ng/L	4.1	1	12/12/24 06:59	12/13/24 17:13	27619-97-2	
7:3 FTCA	ND	ng/L	25.5	1	12/12/24 06:59	12/13/24 17:13	812-70-4	
8:2 FTS	ND	ng/L	4.1	1	12/12/24 06:59	12/13/24 17:13	39108-34-4	
9CI-PF3ONS	ND	ng/L	4.1	1	12/12/24 06:59	12/13/24 17:13	756426-58-1	
ADONA	ND	ng/L	4.1	1	12/12/24 06:59	12/13/24 17:13	919005-14-4	
HFPO-DA	ND	ng/L	4.1	1	12/12/24 06:59	12/13/24 17:13	13252-13-6	
NEtFOSAA	ND	ng/L	1.0	1	12/12/24 06:59	12/13/24 17:13	2991-50-6	
NEtFOSA	ND	ng/L	1.0	1	12/12/24 06:59	12/13/24 17:13	4151-50-2	
NEtFOSE	ND	ng/L	10.2	1	12/12/24 06:59	12/13/24 17:13	1691-99-2	
NFDHA	ND	ng/L	2.0	1	12/12/24 06:59	12/13/24 17:13	151772-58-6	
NMeFOSAA	ND	ng/L	1.0	1	12/12/24 06:59	12/13/24 17:13	2355-31-9	
NMeFOSA	ND	ng/L	1.0	1	12/12/24 06:59	12/13/24 17:13	31506-32-8	
NMeFOSE	ND	ng/L	10.2	1	12/12/24 06:59	12/13/24 17:13	24448-09-7	
PFBS	ND	ng/L	1.0	1	12/12/24 06:59	12/13/24 17:13	375-73-5	
PFDA	ND	ng/L	1.0	1	12/12/24 06:59	12/13/24 17:13	335-76-2	
PFHxA	ND	ng/L	1.0	1	12/12/24 06:59	12/13/24 17:13	307-24-4	
PFBA	ND	ng/L	4.1	1	12/12/24 06:59	12/13/24 17:13	375-22-4	
PFDS	ND	ng/L	1.0	1	12/12/24 06:59	12/13/24 17:13	335-77-3	
PFDoS	ND	ng/L	1.0	1	12/12/24 06:59	12/13/24 17:13	79780-39-5	
PFEESA	ND	ng/L	2.0	1	12/12/24 06:59	12/13/24 17:13	113507-82-7	
PFHpS	ND	ng/L	1.0	1	12/12/24 06:59	12/13/24 17:13	375-92-8	
PFMBA	ND	ng/L	2.0	1	12/12/24 06:59	12/13/24 17:13	863090-89-5	
PFMPA	ND	ng/L	2.0	1	12/12/24 06:59	12/13/24 17:13	377-73-1	
PFNS	ND	ng/L	1.0	1	12/12/24 06:59	12/13/24 17:13	68259-12-1	

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ANALYTICAL RESULTS

Project: L1803418 WG2408664

Pace Project No.: 10717247

Sample: ATMT-FB-1	Lab ID: 10717247006	Collected: 11/18/24 17:45	Received: 11/27/24 08:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

EPA 1633 DRAFT Water

Analytical Method: EPA 1633 DRAFT Preparation Method: EPA 1633 DRAFT

Initial Volume/Weight: 489.9 mL Final Volume/Weight: 5 mL

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PFOSA	ND	ng/L	1.0	1	12/12/24 06:59	12/13/24 17:13	754-91-6	
PFPeA	ND	ng/L	2.0	1	12/12/24 06:59	12/13/24 17:13	2706-90-3	
PFPeS	ND	ng/L	1.0	1	12/12/24 06:59	12/13/24 17:13	2706-91-4	
PFDoA	ND	ng/L	1.0	1	12/12/24 06:59	12/13/24 17:13	307-55-1	
PFHpA	ND	ng/L	1.0	1	12/12/24 06:59	12/13/24 17:13	375-85-9	
PFHxS	ND	ng/L	1.0	1	12/12/24 06:59	12/13/24 17:13	355-46-4	
PFNA	ND	ng/L	1.0	1	12/12/24 06:59	12/13/24 17:13	375-95-1	
PFOS	ND	ng/L	1.0	1	12/12/24 06:59	12/13/24 17:13	1763-23-1	
PFOA	ND	ng/L	1.0	1	12/12/24 06:59	12/13/24 17:13	335-67-1	
PFTeDA	ND	ng/L	1.0	1	12/12/24 06:59	12/13/24 17:13	376-06-7	
PFTrDA	ND	ng/L	1.0	1	12/12/24 06:59	12/13/24 17:13	72629-94-8	
PFUnA	ND	ng/L	1.0	1	12/12/24 06:59	12/13/24 17:13	2058-94-8	

Surrogates

13C2-PFDoA (S)	89	%.	10-130	1	12/12/24 06:59	12/13/24 17:13		
13C3HFPO-DA (S)	97	%.	40-130	1	12/12/24 06:59	12/13/24 17:13		
13C3-PFBS (S)	99	%.	40-135	1	12/12/24 06:59	12/13/24 17:13		
13C3-PFHxS (S)	94	%.	40-130	1	12/12/24 06:59	12/13/24 17:13		
13C4-PFBA (S)	92	%.	5-130	1	12/12/24 06:59	12/13/24 17:13		
13C4-PFHpA (S)	91	%.	40-130	1	12/12/24 06:59	12/13/24 17:13		
13C5-PFHxA (S)	93	%.	40-130	1	12/12/24 06:59	12/13/24 17:13		
13C5-PFPeA (S)	96	%.	40-130	1	12/12/24 06:59	12/13/24 17:13		
13C6-PFDA (S)	93	%.	40-130	1	12/12/24 06:59	12/13/24 17:13		
13C8-PFOA (S)	91	%.	40-130	1	12/12/24 06:59	12/13/24 17:13		
13C8-PFOS (S)	93	%.	40-130	1	12/12/24 06:59	12/13/24 17:13		
13C8-PFOSA (S)	80	%.	40-130	1	12/12/24 06:59	12/13/24 17:13		
13C9-PFNA (S)	91	%.	40-130	1	12/12/24 06:59	12/13/24 17:13		
d3-MeFOSAA (S)	82	%.	40-170	1	12/12/24 06:59	12/13/24 17:13		
d3-NMeFOSA (S)	66	%.	10-130	1	12/12/24 06:59	12/13/24 17:13		
d5-EtFOSAA (S)	83	%.	25-135	1	12/12/24 06:59	12/13/24 17:13		
d5-NEtFOSA (S)	70	%.	10-130	1	12/12/24 06:59	12/13/24 17:13		
d7-NMeFOSE (S)	77	%.	10-130	1	12/12/24 06:59	12/13/24 17:13		
d9-NEtFOSE (S)	86	%.	10-130	1	12/12/24 06:59	12/13/24 17:13		
13C2-PFTA (S)	89	%.	10-130	1	12/12/24 06:59	12/13/24 17:13		
13C7-PFUdA (S)	92	%.	30-130	1	12/12/24 06:59	12/13/24 17:13		
13C24:2FTS (S)	104	%.	40-200	1	12/12/24 06:59	12/13/24 17:13		
13C26:2FTS (S)	111	%.	40-200	1	12/12/24 06:59	12/13/24 17:13		
13C28:2FTS (S)	99	%.	40-300	1	12/12/24 06:59	12/13/24 17:13		

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ANALYTICAL RESULTS

Project: L1803418 WG2408664

Pace Project No.: 10717247

Sample: ATMT-FB-2 Lab ID: 10717247007 Collected: 11/20/24 09:50 Received: 11/27/24 08:50 Matrix: Water

Parameters Results Units Report Limit DF Prepared Analyzed CAS No. Qual

EPA 1633 DRAFT Water

Analytical Method: EPA 1633 DRAFT Preparation Method: EPA 1633 DRAFT

Initial Volume/Weight: 504.1 mL Final Volume/Weight: 5 mL

Pace Analytical Services - Minneapolis

Table with 9 columns: Parameters, Results, Units, Report Limit, DF, Prepared, Analyzed, CAS No., Qual. Rows include various chemical compounds like 11CI-PF3OUdS, 3:3 FTCA, 4:2 FTS, etc., with results mostly 'ND' and some numerical values.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: L1803418 WG2408664

Pace Project No.: 10717247

Sample: ATMT-FB-2	Lab ID: 10717247007	Collected: 11/20/24 09:50	Received: 11/27/24 08:50	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

EPA 1633 DRAFT Water

Analytical Method: EPA 1633 DRAFT Preparation Method: EPA 1633 DRAFT

Initial Volume/Weight: 504.1 mL Final Volume/Weight: 5 mL

Pace Analytical Services - Minneapolis

Surrogates

13C4-PFBA (S)	93	%.	5-130	1	12/12/24 06:59	12/13/24 17:29		
13C4-PFHpA (S)	94	%.	40-130	1	12/12/24 06:59	12/13/24 17:29		
13C5-PFHxA (S)	97	%.	40-130	1	12/12/24 06:59	12/13/24 17:29		
13C5-PFPeA (S)	99	%.	40-130	1	12/12/24 06:59	12/13/24 17:29		
13C6-PFDA (S)	93	%.	40-130	1	12/12/24 06:59	12/13/24 17:29		
13C8-PFOA (S)	94	%.	40-130	1	12/12/24 06:59	12/13/24 17:29		
13C8-PFOS (S)	94	%.	40-130	1	12/12/24 06:59	12/13/24 17:29		
13C8-PFOSA (S)	80	%.	40-130	1	12/12/24 06:59	12/13/24 17:29		
13C9-PFNA (S)	93	%.	40-130	1	12/12/24 06:59	12/13/24 17:29		
d3-MeFOSAA (S)	82	%.	40-170	1	12/12/24 06:59	12/13/24 17:29		
d3-NMeFOSA (S)	61	%.	10-130	1	12/12/24 06:59	12/13/24 17:29		
d5-EtFOSAA (S)	82	%.	25-135	1	12/12/24 06:59	12/13/24 17:29		
d5-NEtFOSA (S)	67	%.	10-130	1	12/12/24 06:59	12/13/24 17:29		
d7-NMeFOSE (S)	75	%.	10-130	1	12/12/24 06:59	12/13/24 17:29		
d9-NEtFOSE (S)	84	%.	10-130	1	12/12/24 06:59	12/13/24 17:29		
13C2-PFTA (S)	85	%.	10-130	1	12/12/24 06:59	12/13/24 17:29		
13C7-PFUdA (S)	90	%.	30-130	1	12/12/24 06:59	12/13/24 17:29		
13C24:2FTS (S)	105	%.	40-200	1	12/12/24 06:59	12/13/24 17:29		
13C26:2FTS (S)	116	%.	40-200	1	12/12/24 06:59	12/13/24 17:29		
13C28:2FTS (S)	107	%.	40-300	1	12/12/24 06:59	12/13/24 17:29		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: L1803418 WG2408664

Pace Project No.: 10717247

QC Batch: 983604 Analysis Method: EPA 1633 DRAFT

QC Batch Method: EPA 1633 DRAFT Analysis Description: 1633 W

Laboratory: Pace Analytical Services - Minneapolis

Associated Lab Samples: 10717247001, 10717247002, 10717247003, 10717247004, 10717247005, 10717247006, 10717247007

METHOD BLANK: 5138370 Matrix: Water

Associated Lab Samples: 10717247001, 10717247002, 10717247003, 10717247004, 10717247005, 10717247006, 10717247007

Table with 6 columns: Parameter, Units, Blank Result, Reporting Limit, Analyzed, Qualifiers. Lists various chemical compounds like 11CI-PF3OUdS, 3:3 FTCA, etc., with their respective units and results.

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: L1803418 WG2408664

Pace Project No.: 10717247

METHOD BLANK: 5138370

Matrix: Water

Associated Lab Samples: 10717247001, 10717247002, 10717247003, 10717247004, 10717247005, 10717247006, 10717247007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
13C2-PFDoA (S)	%	90	10-130	12/13/24 14:22	
13C2-PFTA (S)	%	90	10-130	12/13/24 14:22	
13C24:2FTS (S)	%	106	40-200	12/13/24 14:22	
13C26:2FTS (S)	%	114	40-200	12/13/24 14:22	
13C28:2FTS (S)	%	106	40-300	12/13/24 14:22	
13C3-PFBS (S)	%	103	40-135	12/13/24 14:22	
13C3-PFHxS (S)	%	100	40-130	12/13/24 14:22	
13C3HFPO-DA (S)	%	99	40-130	12/13/24 14:22	
13C4-PFBA (S)	%	94	5-130	12/13/24 14:22	
13C4-PFHpA (S)	%	94	40-130	12/13/24 14:22	
13C5-PFHxA (S)	%	94	40-130	12/13/24 14:22	
13C5-PFPeA (S)	%	99	40-130	12/13/24 14:22	
13C6-PFDA (S)	%	96	40-130	12/13/24 14:22	
13C7-PFUdA (S)	%	95	30-130	12/13/24 14:22	
13C8-PFOA (S)	%	96	40-130	12/13/24 14:22	
13C8-PFOS (S)	%	98	40-130	12/13/24 14:22	
13C8-PFOA (S)	%	84	40-130	12/13/24 14:22	
13C9-PFNA (S)	%	95	40-130	12/13/24 14:22	
d3-MeFOSAA (S)	%	88	40-170	12/13/24 14:22	
d3-NMeFOSA (S)	%	62	10-130	12/13/24 14:22	
d5-EtFOSAA (S)	%	90	25-135	12/13/24 14:22	
d5-NEtFOSA (S)	%	68	10-130	12/13/24 14:22	
d7-NMeFOSE (S)	%	76	10-130	12/13/24 14:22	
d9-NEtFOSE (S)	%	82	10-130	12/13/24 14:22	

LABORATORY CONTROL SAMPLE & LCSD: 5138371

5138372

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
11CI-PF3OUdS	ng/L	93.6	82.7	78.8	88	85	55-160	5	30	
3:3 FTCA	ng/L	124	107	103	87	84	65-130	4	30	
4:2 FTS	ng/L	93	83.1	79.5	89	86	70-145	4	30	
5:3 FTCA	ng/L	620	474	453	76	74	70-135	5	30	
6:2 FTS	ng/L	94.3	85.2	82.6	90	89	65-155	3	30	
7:3 FTCA	ng/L	620	466	453	75	74	50-145	3	30	
8:2 FTS	ng/L	95.5	92.6	87.1	97	92	60-150	6	30	
9CI-PF3ONS	ng/L	93	84.4	81.3	91	89	70-155	4	30	
ADONA	ng/L	93.6	75.3	73.5	80	79	65-145	2	30	
HFPO-DA	ng/L	99.2	89.2	83.8	90	86	70-140	6	30	
NEtFOSA	ng/L	24.8	22.1	21.1	89	86	65-145	5	30	
NEtFOSAA	ng/L	24.8	21.1	19.9	85	81	70-145	6	30	
NEtFOSE	ng/L	248	220	209	89	85	70-135	5	30	
NFDHA	ng/L	49.6	44.5	43.8	90	89	50-150	2	30	
NMeFOSA	ng/L	24.8	21.8	21.0	88	86	60-150	4	30	
NMeFOSAA	ng/L	24.8	20.4	19.3	82	79	50-140	6	30	

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QUALITY CONTROL DATA

Project: L1803418 WG2408664

Pace Project No.: 10717247

LABORATORY CONTROL SAMPLE & LCSD: 5138371			5138372							
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
NMeFOSE	ng/L	248	219	211	88	86	70-145	4	30	
PFBA	ng/L	99.2	87.1	82.3	88	84	70-140	6	30	
PFBS	ng/L	22	19.6	18.6	89	85	60-145	5	30	
PFDA	ng/L	24.8	21.3	20.4	86	83	70-140	4	30	
PFDoA	ng/L	24.8	21.9	20.9	88	85	70-140	5	30	
PFDoS	ng/L	24.1	20.4	19.2	85	81	50-145	6	30	
PFDS	ng/L	23.9	20.4	18.9	85	80	60-145	8	30	
PFEESA	ng/L	44.2	39.4	36.1	89	83	70-140	9	30	
PFHpA	ng/L	24.8	21.8	20.6	88	84	70-150	5	30	
PFHpS	ng/L	23.6	20.4	19.5	86	84	70-150	4	30	
PFHxA	ng/L	24.8	21.7	20.1	87	82	70-145	8	30	
PFHxS	ng/L	22.7	20.3	18.7	90	83	65-145	8	30	
PFMBA	ng/L	49.6	43.0	39.9	87	81	60-150	8	30	
PFMPA	ng/L	49.6	46.7	43.3	94	88	55-140	8	30	
PFNA	ng/L	24.8	21.5	20.5	87	84	70-150	5	30	
PFNS	ng/L	23.9	20.5	19.3	86	82	65-145	6	30	
PFOA	ng/L	24.8	21.3	20.2	86	82	70-150	5	30	
PFOS	ng/L	23	19.9	18.5	87	81	55-150	7	30	
PFOSA	ng/L	24.8	21.5	20.4	87	83	70-145	6	30	
PFPeA	ng/L	49.6	43.8	41.6	88	85	65-135	5	30	
PFPeS	ng/L	23.3	20.9	19.3	89	84	65-140	8	30	
PFTeDA	ng/L	24.8	22.1	20.9	89	85	60-140	6	30	
PFTrDA	ng/L	24.8	22.2	21.5	90	88	65-140	3	30	
PFUnA	ng/L	24.8	21.6	21.0	87	86	70-145	2	30	
13C2-PFDoA (S)	%				94	94	10-130			
13C2-PFTA (S)	%				97	98	10-130			
13C24:2FTS (S)	%				101	103	40-200			
13C26:2FTS (S)	%				109	114	40-200			
13C28:2FTS (S)	%				98	102	40-300			
13C3-PFBS (S)	%				104	106	40-135			
13C3-PFHxS (S)	%				97	102	40-130			
13C3HFPO-DA (S)	%				100	99	40-130			
13C4-PFBA (S)	%				95	94	5-130			
13C4-PFHpA (S)	%				94	93	40-130			
13C5-PFHxA (S)	%				95	94	40-130			
13C5-PFPeA (S)	%				99	98	40-130			
13C6-PFDA (S)	%				96	97	40-130			
13C7-PFUdA (S)	%				98	98	30-130			
13C8-PFOA (S)	%				99	95	40-130			
13C8-PFOS (S)	%				101	98	40-130			
13C8-PFOSA (S)	%				88	85	40-130			
13C9-PFNA (S)	%				98	94	40-130			
d3-MeFOSAA (S)	%				92	88	40-170			
d3-NMeFOSA (S)	%				76	74	10-130			
d5-EtFOSAA (S)	%				91	90	25-135			
d5-NEtFOSA (S)	%				81	77	10-130			
d7-NMeFOSE (S)	%				86	81	10-130			

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QUALITY CONTROL DATA

Project: L1803418 WG2408664

Pace Project No.: 10717247

LABORATORY CONTROL SAMPLE & LCSD: 5138371		5138372		LCS	LCSD	% Rec	RPD	Max RPD	Qualifiers
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	% Rec	% Rec	Limits		
d9-NEtFOSE (S)	%				93	89	10-130		

LABORATORY CONTROL SAMPLE: 5138373		Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Parameter	Units					
11CI-PF3OUdS	ng/L	7.8	6.9	88	55-160	
3:3 FTCA	ng/L	10.4	9.4	91	65-130	
4:2 FTS	ng/L	7.8	6.4	82	70-145	
5:3 FTCA	ng/L	51.9	46.4	89	70-135	
6:2 FTS	ng/L	7.9	6.6	83	65-155	
7:3 FTCA	ng/L	51.9	43.8	84	50-145	
8:2 FTS	ng/L	8	6.6	83	60-150	
9CI-PF3ONS	ng/L	7.8	7.2	92	70-155	
ADONA	ng/L	7.8	6.9	88	65-145	
HFPO-DA	ng/L	8.3	6.6	79	70-140	
NEtFOSA	ng/L	2.1	1.7	81	65-145	
NEtFOSAA	ng/L	2.1	1.6	76	70-145	
NEtFOSE	ng/L	20.8	17.1	82	70-135	
NFDHA	ng/L	4.2	3.5	84	50-150	
NMeFOSA	ng/L	2.1	1.7	82	60-150	
NMeFOSAA	ng/L	2.1	1.8	88	50-140	
NMeFOSE	ng/L	20.8	17.2	83	70-145	
PFBA	ng/L	8.3	6.9	83	70-140	
PFBS	ng/L	1.8	1.4	77	60-145	
PFDA	ng/L	2.1	1.6	79	70-140	
PFDoA	ng/L	2.1	1.6	78	70-140	
PFDoS	ng/L	2	1.7	86	50-145	
PFDS	ng/L	2	1.5	76	60-145	
PFEESA	ng/L	3.7	3.1	83	70-140	
PFHpA	ng/L	2.1	1.6	79	70-150	
PFHpS	ng/L	2	1.6	80	70-150	
PFHxA	ng/L	2.1	1.5	74	70-145	
PFHxS	ng/L	1.9	1.7	88	65-145	
PFMBA	ng/L	4.2	3.7	88	60-150	
PFMPA	ng/L	4.2	3.6	86	55-140	
PFNA	ng/L	2.1	1.6	76	70-150	
PFNS	ng/L	2	1.5	78	65-145	
PFOA	ng/L	2.1	1.5	74	70-150	
PFOS	ng/L	1.9	1.8	93	55-150	
PFOSA	ng/L	2.1	1.6	78	70-145	
PFPeA	ng/L	4.2	3.4	82	65-135	
PFPeS	ng/L	2	1.7	85	65-140	
PFTeDA	ng/L	2.1	1.7	82	60-140	
PFTrDA	ng/L	2.1	1.8	87	65-140	
PFUnA	ng/L	2.1	1.7	80	70-145	

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QUALITY CONTROL DATA

Project: L1803418 WG2408664

Pace Project No.: 10717247

LABORATORY CONTROL SAMPLE: 5138373

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
13C2-PFDoA (S)	%			90	10-130	
13C2-PFTA (S)	%			99	10-130	
13C24:2FTS (S)	%			131	40-200	
13C26:2FTS (S)	%			210	40-200	S0
13C28:2FTS (S)	%			303	40-300	S0
13C3-PFBS (S)	%			99	40-135	
13C3-PFHxS (S)	%			97	40-130	
13C3HFPO-DA (S)	%			87	40-130	
13C4-PFBA (S)	%			92	5-130	
13C4-PFHpA (S)	%			93	40-130	
13C5-PFHxA (S)	%			90	40-130	
13C5-PFPeA (S)	%			89	40-130	
13C6-PFDA (S)	%			88	40-130	
13C7-PFUdA (S)	%			92	30-130	
13C8-PFOA (S)	%			100	40-130	
13C8-PFOS (S)	%			93	40-130	
13C8-PFOSA (S)	%			85	40-130	
13C9-PFNA (S)	%			93	40-130	
d3-MeFOSAA (S)	%			123	40-170	
d3-NMeFOSA (S)	%			62	10-130	
d5-EtFOSAA (S)	%			134	25-135	
d5-NEtFOSA (S)	%			65	10-130	
d7-NMeFOSE (S)	%			76	10-130	
d9-NEtFOSE (S)	%			81	10-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5138374 5138375

Parameter	Units	10717247002		MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Conc.	Result	Result	% Rec	% Rec						
11CI-PF3OUdS	ng/L	ND	98.1	95.1	84.7	73.5	86	77	50-150	14	30				
3:3 FTCA	ng/L	ND	130	126	111	93.9	85	75	50-150	17	30				
4:2 FTS	ng/L	ND	97.4	94.5	84.6	83.3	87	88	50-150	2	30				
5:3 FTCA	ng/L	ND	649	630	500	486	77	77	50-150	3	30				
6:2 FTS	ng/L	ND	98.7	95.8	88.8	84.8	89	88	50-150	5	30				
7:3 FTCA	ng/L	ND	649	630	514	499	79	79	50-150	3	30				
8:2 FTS	ng/L	ND	100	97	95.5	91.3	95	94	50-150	5	30				
9CI-PF3ONS	ng/L	ND	97.4	94.5	89.0	80.3	91	85	50-150	10	30				
ADONA	ng/L	ND	98.1	95.1	80.6	74.3	82	78	50-150	8	30				
HFPO-DA	ng/L	ND	104	101	95.8	85.9	92	85	50-150	11	30				
NEtFOSA	ng/L	ND	26	25.2	22.3	22.0	86	87	50-150	1	30				
NEtFOSAA	ng/L	ND	26	25.2	23.4	22.6	90	89	50-150	4	30				
NEtFOSE	ng/L	ND	260	252	226	218	87	86	50-150	4	30				
NFDHA	ng/L	ND	52	50.4	45.2	43.6	87	87	50-150	3	30				
NMeFOSA	ng/L	ND	26	25.2	23.0	21.2	88	84	50-150	8	30				
NMeFOSAA	ng/L	ND	26	25.2	22.2	21.3	85	85	50-150	4	30				

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QUALITY CONTROL DATA

Project: L1803418 WG2408664

Pace Project No.: 10717247

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 5138374 5138375												
Parameter	Units	MS		MSD		MS		MSD		% Rec Limits	Max RPD	Qual
		10717247002	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
NMeFOSE	ng/L	ND	260	252	225	219	87	87	50-150	3	30	
PFBA	ng/L	5.0	104	101	93.2	91.3	85	86	50-150	2	30	
PFBS	ng/L	12.0	23.1	22.4	31.6	31.6	85	88	50-150	0	30	
PFDA	ng/L	2.3	26	25.2	23.0	23.2	80	83	50-150	1	30	
PFDoA	ng/L	ND	26	25.2	22.9	22.2	88	88	50-150	3	30	
PFDoS	ng/L	ND	25.2	24.4	25.8	24.3	103	99	50-150	6	30	
PFDS	ng/L	ND	25.1	24.3	29.0	26.5	114	108	50-150	9	30	
PFEESA	ng/L	ND	46.2	44.9	39.3	38.6	85	86	50-150	2	30	
PFHpA	ng/L	3.7	26	25.2	25.7	25.6	85	87	50-150	0	30	
PFHpS	ng/L	18.7	24.7	24	45.6	49.2	109	127	50-150	8	30	
PFHxA	ng/L	10.7	26	25.2	31.3	32.8	79	88	50-150	5	30	
PFHxS	ng/L	266	23.8	23.1	234	286	-136	85	50-150	20	30	M1
PFMBA	ng/L	ND	52	50.4	43.3	42.1	83	83	50-150	3	30	
PFMPA	ng/L	ND	52	50.4	43.3	37.6	83	75	50-150	14	30	
PFNA	ng/L	4.8	26	25.2	26.7	27.0	85	88	50-150	1	30	
PFNS	ng/L	2.8	25	24.3	32.9	27.5	120	102	50-150	18	30	
PFOA	ng/L	9.0	26	25.2	28.9	30.6	76	85	50-150	6	30	
PFOS	ng/L	2800	24.1	23.4	2520	2920	-1150	522	50-150	15	30	M1
PFOSA	ng/L	2.8	26	25.2	24.8	23.9	85	84	50-150	4	30	
PFPeA	ng/L	10.6	52	50.4	53.9	54.7	83	88	50-150	1	30	
PFPeS	ng/L	19.5	24.4	23.7	37.0	39.3	72	84	50-150	6	30	
PFTeDA	ng/L	ND	26	25.2	23.2	22.6	89	90	50-150	3	30	
PFTTrDA	ng/L	ND	26	25.2	22.8	21.7	88	86	50-150	5	30	
PFUnA	ng/L	ND	26	25.2	22.3	22.5	85	89	50-150	1	30	
13C2-PFDoA (S)	%						86	80	10-130			
13C2-PFTA (S)	%						83	75	10-130			
13C24:2FTS (S)	%						137	134	40-200			
13C26:2FTS (S)	%						139	139	40-200			
13C28:2FTS (S)	%						115	115	40-300			
13C3-PFBS (S)	%						101	100	40-135			
13C3-PFHxS (S)	%						97	95	40-130			
13C3HFPO-DA (S)	%						96	93	40-130			
13C4-PFBA (S)	%						41	35	5-130			
13C4-PFHpA (S)	%						95	92	40-130			
13C5-PFHxA (S)	%						94	91	40-130			
13C5-PFPeA (S)	%						96	92	40-130			
13C6-PFDA (S)	%						97	91	40-130			
13C7-PFUdA (S)	%						91	83	30-130			
13C8-PFOA (S)	%						95	94	40-130			
13C8-PFOS (S)	%						98	96	40-130			
13C8-PFOSA (S)	%						122	122	40-130			
13C9-PFNA (S)	%						92	91	40-130			
d3-MeFOSAA (S)	%						107	98	40-170			
d3-NMeFOSA (S)	%						102	100	10-130			
d5-EtFOSAA (S)	%						68	61	25-135			
d5-NEtFOSA (S)	%						103	97	10-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: L1803418 WG2408664

Pace Project No.: 10717247

Parameter	Units	5138374		5138375		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		10717247002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
d7-NMeFOSE (S)	%.					106	102	10-130			
d9-NEtFOSE (S)	%.					115	109	10-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: L1803418 WG2408664

Pace Project No.: 10717247

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

S0 Surrogate recovery outside laboratory control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: L1803418 WG2408664

Pace Project No.: 10717247

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10717247006	ATMT-FB-1	EPA 1633 DRAFT	983604	EPA 1633 DRAFT	984596
10717247001	ATMT-TMW-1	EPA 1633 DRAFT	983604	EPA 1633 DRAFT	984596
10717247007	ATMT-FB-2	EPA 1633 DRAFT	983604	EPA 1633 DRAFT	984596
10717247002	ATMT-TMW-2	EPA 1633 DRAFT	983604	EPA 1633 DRAFT	984596
10717247003	ATMT-TMW-2-DUP	EPA 1633 DRAFT	983604	EPA 1633 DRAFT	984596
10717247004	ATMT-TMW-3	EPA 1633 DRAFT	983604	EPA 1633 DRAFT	984596
10717247005	ATMT-RINSATE	EPA 1633 DRAFT	983604	EPA 1633 DRAFT	984596

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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Sub-Contract Chain of Custody

Batch Date/Time: 11/26/24 08:26
Sub-Contract Lab: PACEMN
Address: 1700 Elm Street Suite 200
 SE
City/State: Minneapolis, MN 55414
Contact: Tong.Lee@pacelabs.com
Owner Lab: PACEMTJL
Address: 12065 Lebanon Rd.
City/State: Mt. Juliet, TN 37122
Phone: (615) 773-9756
Fax: (615) 758-5859

WO: WG2408664
Email: MTJLSuboutTeam@pacelabs.com
Results Due Date: 12/26/24
ESC Purchase Order #: L1803418
Send Reports to: Jeremy Watkins



12065 Lebanon Rd.
 Mt. Juliet, TN 37122
 Phone: (615) 773-9756
 Fax: (615) 758-5859

Sample ID Container ID	Matrix	State	Collect Date	Description	Sample Number Lab Use Only	Sample Comments Lab Use Only
ATMT-TMW-1 PFAS(2)500ml(1)125ml - 50139505 PFAS(2)500ml(1)125ml - 50139506 PFAS(2)500ml(1)125ml - 50139507	GW	ID	11/20/24 08:55	SUBPFAS1633	1. L1803418-01	001
ATMT-TMW-2 PFAS(2)500ml(1)125ml - 50139508 PFAS(2)500ml(1)125ml - 50139509 PFAS(2)500ml(1)125ml - 50139510	GW	ID	11/20/24 10:20	SUBPFAS1633	2. L1803418-02	MS/MSD 002
ATMT-TMW-2-DUP PFAS(2)500ml(1)125ml - 50139511 PFAS(2)500ml(1)125ml - 50139512 PFAS(2)500ml(1)125ml - 50139513	GW	ID	11/20/24 10:20	SUBPFAS1633	3. L1803418-03	003
ATMT-TMW-3 PFAS(2)500ml(1)125ml - 50139514 PFAS(2)500ml(1)125ml - 50139515 PFAS(2)500ml(1)125ml - 50139516	GW	ID	11/20/24 11:55	SUBPFAS1633	4. L1803418-04	004
ATMT-RINSATE PFAS(2)500ml(1)125ml - 50139517 PFAS(2)500ml(1)125ml - 50139518 PFAS(2)500ml(1)125ml - 50139519	GW	ID	11/20/24 12:10	SUBPFAS1633	5. L1803418-05	005
ATMT-FB-1 PFAS(2)500ml(1)125ml - 50139520 PFAS(2)500ml(1)125ml - 50139521 PFAS(2)500ml(1)125ml - 50139522	GW	ID	11/18/24 17:45	SUBPFAS1633	6. L1803418-06	006
ATMT-FB-2 PFAS(2)500ml(1)125ml - 50139523 PFAS(2)500ml(1)125ml - 50139524 PFAS(2)500ml(1)125ml - 50139525	GW	ID	11/20/24 09:50	SUBPFAS1633	7. L1803418-07	007

*= Container used for multiple Samples and/or Analyses

Relinquished by: Jeremy Watkins Date: 11/26/24
 Received by: David Par Date: 11/27/24 850
 Relinquished by: _____ Date: _____
 Received by: _____ Date: _____

WO#: 10717247



10717247

ENV-FRM-MIN4-0150 v17_Sample Condition Upon Receipt

CLIENT NAME: Pace National

PROJECT #:

WO#: **10717247**

COURIER: Client Commercial FedEx Pace
 SpeeDee UPS USPS

PM: TKL

Due Date: 12/30/24

CLIENT: PASI-TN

TRACKING NUMBER: See Exceptions form ENV-FRM-MIN4-0142

Custody Seal on Cooler/Box Present: YES NO Seals Intact: YES NO Biological Tissue Frozen: YES NO N/A
 Packing Material: Bubble Bags Bubble Wrap None Other Temp Blank: YES NO Type of Ice: Blue Dry Wet
 Thermometer: T1 (0461) T2 (0436) T3 (0459) T4 (0402) T5 (0178) T6 (0235)
 T7 (0042) T8 (0775) T9 (0727) 01339252 (1710) Melted None

Did Samples Originate in West Virginia: <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Were All Container Temps taken: <input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A
Correction Factor: <u>-0.2</u> Cooler Temp Read w/Temp Blank: <u>1.9, 3.7</u> °C	Average Corrected Temp (no Temp Blank Only): _____ °C
Cooler Temp Corrected w/Temp Blank: <u>1.7, 3.5</u> °C	<input type="checkbox"/> See Exceptions Form ENV-FRM-MIN4-0142 <input type="checkbox"/> 1 Container

USDA Regulated Soil: <input checked="" type="checkbox"/> N/A - Water Sample/Other (describe): _____	Initials & Date of Person Examining Contents: <u>DGS 11/27/24</u>
Did Samples originate from one of the following states (check maps) - AL, AR, AZ, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA: <input type="checkbox"/> YES <input type="checkbox"/> NO	Did samples originate from a foreign source (international, including Hawaii and Puerto Rico): <input type="checkbox"/> YES <input type="checkbox"/> NO

LOCATION (check one): <input type="checkbox"/> DULUTH <input checked="" type="checkbox"/> MINNEAPOLIS <input type="checkbox"/> VIRGINIA	YES	NO	N/A	COMMENT(S)												
Chain of Custody Present and Filled Out?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.												
Chain of Custody Relinquished?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2.												
Sampler Name and/or Signature on COC?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	3.												
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4. If Fecal: <input type="checkbox"/> <8 hrs <input type="checkbox"/> >8 hr, <24 hr <input type="checkbox"/> No												
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	5. <input type="checkbox"/> BOD / cBOD. <input type="checkbox"/> Fecal coliform <input type="checkbox"/> Hex Chrom <input type="checkbox"/> HPC <input type="checkbox"/> Nitrate <input type="checkbox"/> Nitrite <input type="checkbox"/> Ortho Phos <input type="checkbox"/> Total coliform/E. coli <input type="checkbox"/> Other: _____												
Rush Turn Around Time Requested?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	6.												
Sufficient Sample Volume?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7.												
Correct Containers Used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8.												
- Pace Containers Used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>													
Containers Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9.												
Field Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	10. Is sediment visible in the dissolved container: <input type="checkbox"/> YES <input type="checkbox"/> NO												
Is sufficient information available to reconcile the samples to the COC? NOTE: If ID/Date/Time don't match fill out section 11. Matrix: <input type="checkbox"/> Oil <input type="checkbox"/> Soil <input checked="" type="checkbox"/> Water <input type="checkbox"/> Other	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11. If NO, write ID/Date/Time of container below: <input checked="" type="checkbox"/> See Exceptions form ENV-FRM-MIN4-0142												
All containers needing acid/base preservation have been checked? All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , < 2 pH, NaOH > 9 Sulfide, NaOH > 10 Cyanide) Exceptions: VOA, Coliform, TOC/DOC, Oil & Grease, DRO/8015 (water) and Dioxins/PFAS	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	12. Sample #: <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> Zinc Acetate Positive for Residual Chlorine: <input type="checkbox"/> YES <input type="checkbox"/> NO												
NOTE: If adding preservation to the container, verify with the PM first. Clients may require adding preservative to the field and equipment blanks when this occurs.				<table border="1"> <thead> <tr> <th colspan="4">pH Paper Lot #</th> </tr> <tr> <th>Residual Chlorine</th> <th>0-6 Roll</th> <th>0-6 Strip</th> <th>0/4 Strip</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <input type="checkbox"/> See Exceptions form ENV-FRM-MIN4-0142	pH Paper Lot #				Residual Chlorine	0-6 Roll	0-6 Strip	0/4 Strip				
pH Paper Lot #																
Residual Chlorine	0-6 Roll	0-6 Strip	0/4 Strip													
Headspace in Methyl Mercury Container?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	13.												
Extra labels present on soil VOA or WIDRO containers?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	14.												
Headspace in VOA Vials (greater than 6mm)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/> See Exceptions form ENV-FRM-MIN4-0140												
Trip Blanks Present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	15.												
Trip Blank Custody Seals Present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Pace Trip Blank Lot # (if purchased): _____												

CLIENT NOTIFICATION / RESOLUTION FIELD DATA REQUIRED: YES NO
 Person Contacted: _____ Date & Time: _____
 Comments / Resolution: _____

Project Manager Review: [Signature] Date: 11/27/24

NOTE: When there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEQ Certification office (i.e., out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled By: DGS Line: [Signature]

ENV-FRM-MIN4-0142 v03_Sample Condition Upon Receipt - Exceptions

Workorder #: _____

No Temp Blank		
Read Temp	Corrected Temp	Average temp

PM Notified of Out of Temp Cooler? <input type="checkbox"/> YES <input type="checkbox"/> NO If yes, indicate who was contacted, date and time. If no, indicate reason why. _____
Multiple Cooler Project? <input type="checkbox"/> YES <input type="checkbox"/> NO

If anything is OVER 6.0°C, you MUST document containers in this section HERE



Tracking Number	Temperature
4257 0935 5418	3.5
4257 0935 5429	1.7

Out of Temp Sample ID	Container Type	# of Containers

pH Adjustment Log for Preserved Samples										
Sample ID	Type Of Preserve	pH Upon Receipt	Date Adjusted	Time Adjusted	Amount Added (mL)	Lot # Added	pH After	In Compliance After Addition?		Initials
								YES	NO	
								<input type="checkbox"/>	<input type="checkbox"/>	
								<input type="checkbox"/>	<input type="checkbox"/>	
								<input type="checkbox"/>	<input type="checkbox"/>	
								<input type="checkbox"/>	<input type="checkbox"/>	
								<input type="checkbox"/>	<input type="checkbox"/>	
								<input type="checkbox"/>	<input type="checkbox"/>	
								<input type="checkbox"/>	<input type="checkbox"/>	
								<input type="checkbox"/>	<input type="checkbox"/>	
								<input type="checkbox"/>	<input type="checkbox"/>	

Comments:

Address

1700 Elm Street Suite 200 SE
Minneapolis, MN 55414



ANALYTICAL REPORT

January 09, 2025

Revised Report

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Eastern Research Group Inc- Concord, MA

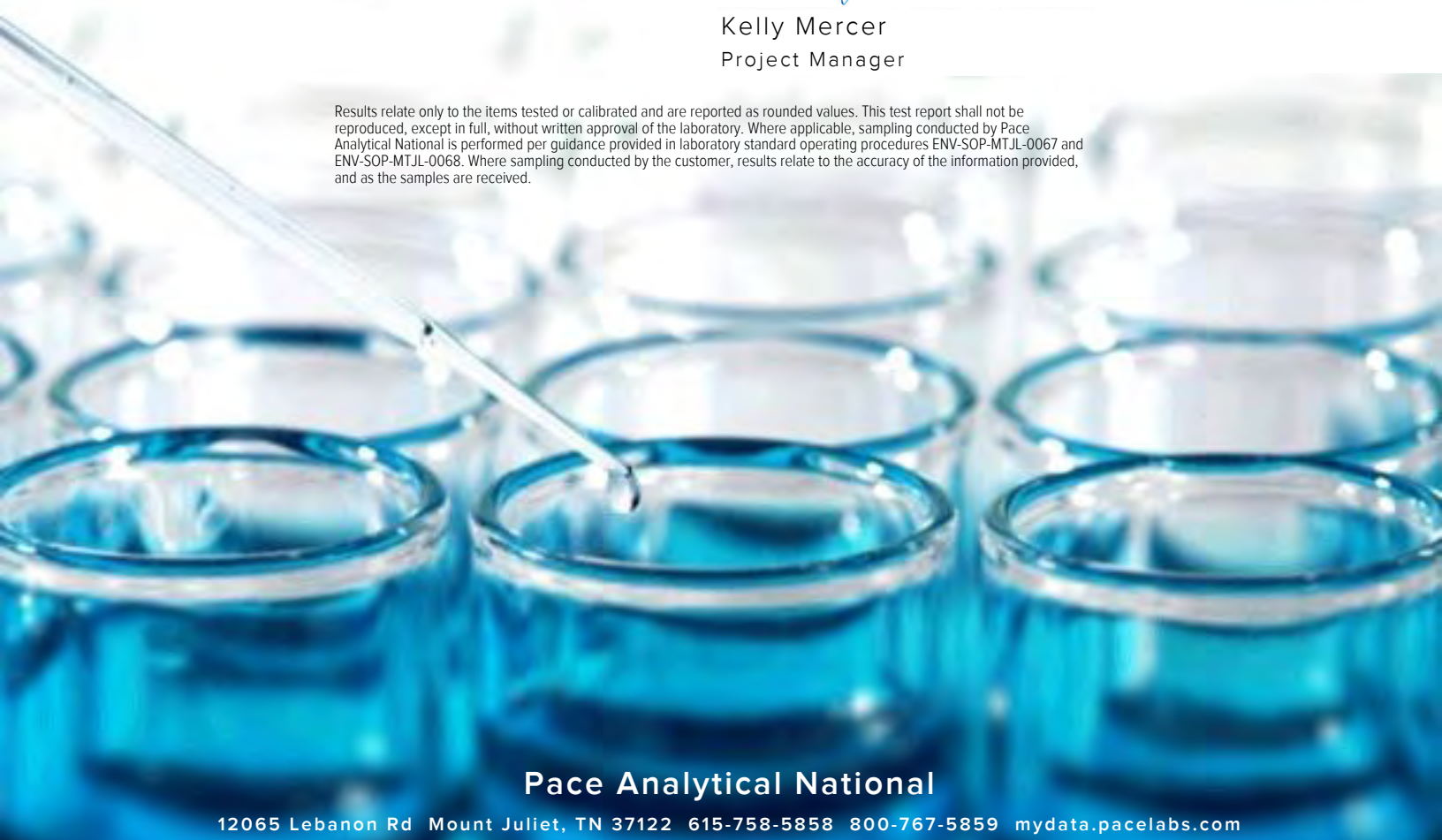
Sample Delivery Group: L1804697
 Samples Received: 11/27/2024
 Project Number: 0425.00.016.080
 Description: 2450 Altamont Drive

Report To: Sarah Weppner
 561 Virginia Road Bldg. 4
 Suite 300
 Concord, MA 01742

Entire Report Reviewed By:

Kelly Mercer
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

TABLE OF CONTENTS

Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	3
Cn: Case Narrative	5
Sr: Sample Results	6
ATMT-TMW-1 L1804697-01	6
ATMT-TMW-2 L1804697-02	8
ATMT-TMW-2-DUP L1804697-03	9
ATMT-TMW-3 L1804697-04	10
ATMT-TMW-4 L1804697-05	11
TRIP BLANK L1804697-06	13
Qc: Quality Control Summary	14
Metals (ICP) by Method 6010B	14
Volatile Organic Compounds (GC) by Method NWTPHGX	16
Volatile Organic Compounds (GC/MS) by Method 8260D	17
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	20
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	22
Gl: Glossary of Terms	24
Al: Accreditations & Locations	25
Sc: Sample Chain of Custody	26

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

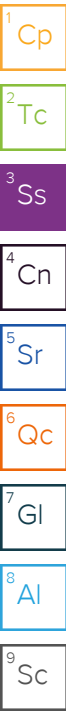
⁹ Sc

SAMPLE SUMMARY

ATMT-TMW-1 L1804697-01 GW

Collected by
BB/SK Collected date/time
11/20/24 08:55 Received date/time
11/27/24 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010B	WG2413475	1	12/06/24 12:39	12/06/24 15:28	JTM	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2412366	5	12/04/24 10:59	12/04/24 10:59	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2412880	1	12/04/24 19:03	12/04/24 19:03	JBE	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG2410773	1	12/03/24 07:47	12/06/24 02:35	DMG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2410542	1	11/30/24 09:27	12/01/24 17:50	ADF	Mt. Juliet, TN



ATMT-TMW-2 L1804697-02 GW

Collected by
BB/SK Collected date/time
11/20/24 10:20 Received date/time
11/27/24 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010B	WG2413279	1	12/05/24 08:07	12/05/24 12:53	MAP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2412366	1	12/04/24 09:05	12/04/24 09:05	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2412880	1	12/04/24 19:24	12/04/24 19:24	JBE	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG2410773	1	12/03/24 07:47	12/04/24 00:51	DMG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2410542	1	11/30/24 09:27	12/01/24 18:07	ADF	Mt. Juliet, TN

ATMT-TMW-2-DUP L1804697-03 GW

Collected by
BB/SK Collected date/time
11/20/24 10:20 Received date/time
11/27/24 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010B	WG2413279	1	12/05/24 08:07	12/05/24 13:00	MAP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2412366	1	12/04/24 09:27	12/04/24 09:27	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2412880	1	12/04/24 19:44	12/04/24 19:44	JBE	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG2410773	1	12/03/24 07:47	12/04/24 01:51	DMG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2410542	1	11/30/24 09:27	12/01/24 20:29	ADF	Mt. Juliet, TN

ATMT-TMW-3 L1804697-04 GW

Collected by
BB/SK Collected date/time
11/20/24 11:55 Received date/time
11/27/24 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010B	WG2413279	1	12/05/24 08:07	12/05/24 13:01	MAP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2412366	1	12/04/24 09:50	12/04/24 09:50	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2412880	1	12/04/24 20:04	12/04/24 20:04	JBE	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG2412036	1	12/03/24 16:42	12/04/24 19:48	MAA	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2410542	1	11/30/24 09:27	12/01/24 19:01	ADF	Mt. Juliet, TN

ATMT-TMW-4 L1804697-05 GW

Collected by
BB/SK Collected date/time
11/20/24 13:35 Received date/time
11/27/24 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010B	WG2413279	1	12/05/24 08:07	12/05/24 13:03	MAP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2412366	1	12/04/24 10:13	12/04/24 10:13	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2412880	1	12/04/24 20:24	12/04/24 20:24	GLN	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2414330	20	12/06/24 18:58	12/06/24 18:58	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG2412036	1	12/03/24 16:42	12/04/24 20:08	MAA	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2410542	1	11/30/24 09:27	12/01/24 20:47	ADF	Mt. Juliet, TN

SAMPLE SUMMARY

TRIP BLANK L1804697-06 GW

Collected by BB/SK
Collected date/time 11/20/24 00:00
Received date/time 11/27/24 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2412880	1	12/04/24 16:43	12/04/24 16:43	JBE	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Kelly Mercer
Project Manager

Report Revision History

Level II Report - Version 1: 12/09/24 15:03
Level II Report - Version 2: 12/26/24 09:42

Project Narrative

In hold for benzene and ethylbenzene reporting for -05

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Lead	0.00320	J	0.00299	0.00600	1	12/06/2024 15:28	WG2413475

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Gasoline Range Organics-NWTPH	0.528		0.158	0.500	5	12/04/2024 10:59	WG2412366
(S) a,a,a-Trifluorotoluene(FID)	104			78.0-120		12/04/2024 10:59	WG2412366

6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Benzene	0.000155	J	0.0000941	0.00100	1	12/04/2024 19:03	WG2412880
1,2-Dibromoethane	U		0.000126	0.00100	1	12/04/2024 19:03	WG2412880
1,2-Dichloroethane	U		0.0000819	0.00100	1	12/04/2024 19:03	WG2412880
Ethylbenzene	U		0.000137	0.00100	1	12/04/2024 19:03	WG2412880
Toluene	U		0.000278	0.00100	1	12/04/2024 19:03	WG2412880
Xylenes, Total	U		0.000174	0.00300	1	12/04/2024 19:03	WG2412880
Methyl tert-butyl ether	0.000235	J	0.000101	0.00100	1	12/04/2024 19:03	WG2412880
Naphthalene	U		0.00100	0.00500	1	12/04/2024 19:03	WG2412880
Isopropylbenzene	0.00299		0.000105	0.00100	1	12/04/2024 19:03	WG2412880
n-Propylbenzene	0.00851		0.0000993	0.00100	1	12/04/2024 19:03	WG2412880
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	12/04/2024 19:03	WG2412880
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	12/04/2024 19:03	WG2412880
(S) Toluene-d8	109			80.0-120		12/04/2024 19:03	WG2412880
(S) 4-Bromofluorobenzene	105			77.0-126		12/04/2024 19:03	WG2412880
(S) 1,2-Dichloroethane-d4	92.3			70.0-130		12/04/2024 19:03	WG2412880

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Diesel Range Organics (DRO)	0.383		0.0667	0.200	1	12/06/2024 02:35	WG2410773
Residual Range Organics (RRO)	U		0.0833	0.250	1	12/06/2024 02:35	WG2410773
(S) o-Terphenyl	107			52.0-156		12/06/2024 02:35	WG2410773

Sample Narrative:

L1804697-01 WG2410773: Sample resembles laboratory standard for Diesel & Gasoline.

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Anthracene	U	T8	0.0000190	0.0000500	1	12/01/2024 17:50	WG2410542
Acenaphthene	U	T8	0.0000190	0.0000500	1	12/01/2024 17:50	WG2410542
Benzo(a)anthracene	0.0000221	J T8	0.0000203	0.0000500	1	12/01/2024 17:50	WG2410542
Benzo(a)pyrene	U	T8	0.0000184	0.0000500	1	12/01/2024 17:50	WG2410542
Benzo(b)fluoranthene	U	T8	0.0000168	0.0000500	1	12/01/2024 17:50	WG2410542
Benzo(k)fluoranthene	U	T8	0.0000202	0.0000500	1	12/01/2024 17:50	WG2410542
Dibenz(a,h)anthracene	U	T8	0.0000160	0.0000500	1	12/01/2024 17:50	WG2410542
Chrysene	U	T8	0.0000179	0.0000500	1	12/01/2024 17:50	WG2410542
Fluoranthene	U	T8	0.0000270	0.000100	1	12/01/2024 17:50	WG2410542
Fluorene	U	T8	0.0000169	0.0000500	1	12/01/2024 17:50	WG2410542
Indeno(1,2,3-cd)pyrene	U	T8	0.0000158	0.0000500	1	12/01/2024 17:50	WG2410542
Naphthalene	U	T8	0.0000917	0.000250	1	12/01/2024 17:50	WG2410542
Pyrene	0.0000204	J T8	0.0000169	0.0000500	1	12/01/2024 17:50	WG2410542

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
(S) Nitrobenzene-d5	157			31.0-160		12/01/2024 17:50	WG2410542
(S) 2-Fluorobiphenyl	97.9			48.0-148		12/01/2024 17:50	WG2410542
(S) p-Terphenyl-d14	117			37.0-146		12/01/2024 17:50	WG2410542

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Lead	0.00308	J	0.00299	0.00600	1	12/05/2024 12:53	WG2413279

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Gasoline Range Organics-NWTPH	0.0843	J J3	0.0316	0.100	1	12/04/2024 09:05	WG2412366
(S) a,a,a-Trifluorotoluene(FID)	105			78.0-120		12/04/2024 09:05	WG2412366

6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Benzene	U		0.0000941	0.00100	1	12/04/2024 19:24	WG2412880
1,2-Dibromoethane	U		0.000126	0.00100	1	12/04/2024 19:24	WG2412880
1,2-Dichloroethane	U		0.0000819	0.00100	1	12/04/2024 19:24	WG2412880
Ethylbenzene	U		0.000137	0.00100	1	12/04/2024 19:24	WG2412880
Toluene	U		0.000278	0.00100	1	12/04/2024 19:24	WG2412880
Xylenes, Total	U		0.000174	0.00300	1	12/04/2024 19:24	WG2412880
Methyl tert-butyl ether	U		0.000101	0.00100	1	12/04/2024 19:24	WG2412880
Naphthalene	U		0.00100	0.00500	1	12/04/2024 19:24	WG2412880
Isopropylbenzene	U		0.000105	0.00100	1	12/04/2024 19:24	WG2412880
n-Propylbenzene	U		0.0000993	0.00100	1	12/04/2024 19:24	WG2412880
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	12/04/2024 19:24	WG2412880
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	12/04/2024 19:24	WG2412880
(S) Toluene-d8	109			80.0-120		12/04/2024 19:24	WG2412880
(S) 4-Bromofluorobenzene	105			77.0-126		12/04/2024 19:24	WG2412880
(S) 1,2-Dichloroethane-d4	94.5			70.0-130		12/04/2024 19:24	WG2412880

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Diesel Range Organics (DRO)	U		0.0667	0.200	1	12/04/2024 00:51	WG2410773
Residual Range Organics (RRO)	U		0.0833	0.250	1	12/04/2024 00:51	WG2410773
(S) o-Terphenyl	108			52.0-156		12/04/2024 00:51	WG2410773

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Anthracene	U	T8	0.0000190	0.0000500	1	12/01/2024 18:07	WG2410542
Acenaphthene	U	T8	0.0000190	0.0000500	1	12/01/2024 18:07	WG2410542
Benzo(a)anthracene	U	T8	0.0000203	0.0000500	1	12/01/2024 18:07	WG2410542
Benzo(a)pyrene	U	T8	0.0000184	0.0000500	1	12/01/2024 18:07	WG2410542
Benzo(b)fluoranthene	U	T8	0.0000168	0.0000500	1	12/01/2024 18:07	WG2410542
Benzo(k)fluoranthene	U	T8	0.0000202	0.0000500	1	12/01/2024 18:07	WG2410542
Dibenz(a,h)anthracene	U	T8	0.0000160	0.0000500	1	12/01/2024 18:07	WG2410542
Chrysene	U	T8	0.0000179	0.0000500	1	12/01/2024 18:07	WG2410542
Fluoranthene	U	T8	0.0000270	0.000100	1	12/01/2024 18:07	WG2410542
Fluorene	U	T8	0.0000169	0.0000500	1	12/01/2024 18:07	WG2410542
Indeno(1,2,3-cd)pyrene	U	T8	0.0000158	0.0000500	1	12/01/2024 18:07	WG2410542
Naphthalene	U	T8	0.0000917	0.000250	1	12/01/2024 18:07	WG2410542
Pyrene	U	T8	0.0000169	0.0000500	1	12/01/2024 18:07	WG2410542
(S) Nitrobenzene-d5	153			31.0-160		12/01/2024 18:07	WG2410542
(S) 2-Fluorobiphenyl	109			48.0-148		12/01/2024 18:07	WG2410542
(S) p-Terphenyl-d14	119			37.0-146		12/01/2024 18:07	WG2410542

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Lead	U		0.00299	0.00600	1	12/05/2024 13:00	WG2413279

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Gasoline Range Organics-NWTPH	0.0463	J	0.0316	0.100	1	12/04/2024 09:27	WG2412366
(S) a,a,a-Trifluorotoluene(FID)	106			78.0-120		12/04/2024 09:27	WG2412366

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Benzene	U		0.0000941	0.00100	1	12/04/2024 19:44	WG2412880
1,2-Dibromoethane	U		0.000126	0.00100	1	12/04/2024 19:44	WG2412880
1,2-Dichloroethane	U		0.0000819	0.00100	1	12/04/2024 19:44	WG2412880
Ethylbenzene	U		0.000137	0.00100	1	12/04/2024 19:44	WG2412880
Toluene	U		0.000278	0.00100	1	12/04/2024 19:44	WG2412880
Xylenes, Total	U		0.000174	0.00300	1	12/04/2024 19:44	WG2412880
Methyl tert-butyl ether	U		0.000101	0.00100	1	12/04/2024 19:44	WG2412880
Naphthalene	U		0.00100	0.00500	1	12/04/2024 19:44	WG2412880
Isopropylbenzene	U		0.000105	0.00100	1	12/04/2024 19:44	WG2412880
n-Propylbenzene	U		0.0000993	0.00100	1	12/04/2024 19:44	WG2412880
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	12/04/2024 19:44	WG2412880
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	12/04/2024 19:44	WG2412880
(S) Toluene-d8	107			80.0-120		12/04/2024 19:44	WG2412880
(S) 4-Bromofluorobenzene	103			77.0-126		12/04/2024 19:44	WG2412880
(S) 1,2-Dichloroethane-d4	95.7			70.0-130		12/04/2024 19:44	WG2412880

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Diesel Range Organics (DRO)	U		0.0667	0.200	1	12/04/2024 01:51	WG2410773
Residual Range Organics (RRO)	U		0.0833	0.250	1	12/04/2024 01:51	WG2410773
(S) o-Terphenyl	112			52.0-156		12/04/2024 01:51	WG2410773

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Anthracene	U	T8	0.0000190	0.0000500	1	12/01/2024 20:29	WG2410542
Acenaphthene	U	T8	0.0000190	0.0000500	1	12/01/2024 20:29	WG2410542
Benzo(a)anthracene	U	T8	0.0000203	0.0000500	1	12/01/2024 20:29	WG2410542
Benzo(a)pyrene	U	T8	0.0000184	0.0000500	1	12/01/2024 20:29	WG2410542
Benzo(b)fluoranthene	U	T8	0.0000168	0.0000500	1	12/01/2024 20:29	WG2410542
Benzo(k)fluoranthene	U	T8	0.0000202	0.0000500	1	12/01/2024 20:29	WG2410542
Dibenz(a,h)anthracene	U	T8	0.0000160	0.0000500	1	12/01/2024 20:29	WG2410542
Chrysene	U	T8	0.0000179	0.0000500	1	12/01/2024 20:29	WG2410542
Fluoranthene	U	T8	0.0000270	0.000100	1	12/01/2024 20:29	WG2410542
Fluorene	U	T8	0.0000169	0.0000500	1	12/01/2024 20:29	WG2410542
Indeno(1,2,3-cd)pyrene	U	T8	0.0000158	0.0000500	1	12/01/2024 20:29	WG2410542
Naphthalene	U	T8	0.0000917	0.000250	1	12/01/2024 20:29	WG2410542
Pyrene	U	T8	0.0000169	0.0000500	1	12/01/2024 20:29	WG2410542
(S) Nitrobenzene-d5	155			31.0-160		12/01/2024 20:29	WG2410542
(S) 2-Fluorobiphenyl	113			48.0-148		12/01/2024 20:29	WG2410542
(S) p-Terphenyl-d14	116			37.0-146		12/01/2024 20:29	WG2410542

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Lead	U		0.00299	0.00600	1	12/05/2024 13:01	WG2413279

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Gasoline Range Organics-NWTPH	0.0579	J	0.0316	0.100	1	12/04/2024 09:50	WG2412366
(S) a,a,a-Trifluorotoluene(FID)	106			78.0-120		12/04/2024 09:50	WG2412366

6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Benzene	U		0.0000941	0.00100	1	12/04/2024 20:04	WG2412880
1,2-Dibromoethane	U		0.000126	0.00100	1	12/04/2024 20:04	WG2412880
1,2-Dichloroethane	U		0.0000819	0.00100	1	12/04/2024 20:04	WG2412880
Ethylbenzene	U		0.000137	0.00100	1	12/04/2024 20:04	WG2412880
Toluene	U		0.000278	0.00100	1	12/04/2024 20:04	WG2412880
Xylenes, Total	U		0.000174	0.00300	1	12/04/2024 20:04	WG2412880
Methyl tert-butyl ether	0.0268		0.000101	0.00100	1	12/04/2024 20:04	WG2412880
Naphthalene	U		0.00100	0.00500	1	12/04/2024 20:04	WG2412880
Isopropylbenzene	U		0.000105	0.00100	1	12/04/2024 20:04	WG2412880
n-Propylbenzene	U		0.0000993	0.00100	1	12/04/2024 20:04	WG2412880
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	12/04/2024 20:04	WG2412880
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	12/04/2024 20:04	WG2412880
(S) Toluene-d8	113			80.0-120		12/04/2024 20:04	WG2412880
(S) 4-Bromofluorobenzene	108			77.0-126		12/04/2024 20:04	WG2412880
(S) 1,2-Dichloroethane-d4	94.9			70.0-130		12/04/2024 20:04	WG2412880

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Diesel Range Organics (DRO)	U		0.0667	0.200	1	12/04/2024 19:48	WG2412036
Residual Range Organics (RRO)	U		0.0833	0.250	1	12/04/2024 19:48	WG2412036
(S) o-Terphenyl	79.5			52.0-156		12/04/2024 19:48	WG2412036

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Anthracene	U	T8	0.0000190	0.0000500	1	12/01/2024 19:01	WG2410542
Acenaphthene	U	T8	0.0000190	0.0000500	1	12/01/2024 19:01	WG2410542
Benzo(a)anthracene	U	T8	0.0000203	0.0000500	1	12/01/2024 19:01	WG2410542
Benzo(a)pyrene	U	T8	0.0000184	0.0000500	1	12/01/2024 19:01	WG2410542
Benzo(b)fluoranthene	U	T8	0.0000168	0.0000500	1	12/01/2024 19:01	WG2410542
Benzo(k)fluoranthene	U	T8	0.0000202	0.0000500	1	12/01/2024 19:01	WG2410542
Dibenz(a,h)anthracene	U	T8	0.0000160	0.0000500	1	12/01/2024 19:01	WG2410542
Chrysene	U	T8	0.0000179	0.0000500	1	12/01/2024 19:01	WG2410542
Fluoranthene	U	T8	0.0000270	0.000100	1	12/01/2024 19:01	WG2410542
Fluorene	U	T8	0.0000169	0.0000500	1	12/01/2024 19:01	WG2410542
Indeno(1,2,3-cd)pyrene	U	T8	0.0000158	0.0000500	1	12/01/2024 19:01	WG2410542
Naphthalene	U	T8	0.0000917	0.000250	1	12/01/2024 19:01	WG2410542
Pyrene	U	T8	0.0000169	0.0000500	1	12/01/2024 19:01	WG2410542
(S) Nitrobenzene-d5	160			31.0-160		12/01/2024 19:01	WG2410542
(S) 2-Fluorobiphenyl	115			48.0-148		12/01/2024 19:01	WG2410542
(S) p-Terphenyl-d14	122			37.0-146		12/01/2024 19:01	WG2410542

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Lead	0.00604		0.00299	0.00600	1	12/05/2024 13:03	WG2413279

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Gasoline Range Organics-NWTPH	5.56		0.0316	0.100	1	12/04/2024 10:13	WG2412366
(S) a,a,a-Trifluorotoluene(FID)	113			78.0-120		12/04/2024 10:13	WG2412366

6 Qc
7 Gl
8 Al
9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Benzene	0.516	E	0.0000941	0.00100	1	12/04/2024 20:24	WG2412880
Benzene	0.737	T8	0.00188	0.0200	20	12/06/2024 18:58	WG2414330
1,2-Dibromoethane	U		0.000126	0.00100	1	12/04/2024 20:24	WG2412880
1,2-Dichloroethane	U		0.0000819	0.00100	1	12/04/2024 20:24	WG2412880
Ethylbenzene	0.220	E	0.000137	0.00100	1	12/04/2024 20:24	WG2412880
Ethylbenzene	0.204	T8	0.00274	0.0200	20	12/06/2024 18:58	WG2414330
Toluene	0.00279		0.000278	0.00100	1	12/04/2024 20:24	WG2412880
Xylenes, Total	0.00485		0.000174	0.00300	1	12/04/2024 20:24	WG2412880
Methyl tert-butyl ether	0.0119		0.000101	0.00100	1	12/04/2024 20:24	WG2412880
Naphthalene	0.0694		0.00100	0.00500	1	12/04/2024 20:24	WG2412880
Isopropylbenzene	0.0235		0.000105	0.00100	1	12/04/2024 20:24	WG2412880
n-Propylbenzene	0.0874		0.0000993	0.00100	1	12/04/2024 20:24	WG2412880
1,2,4-Trimethylbenzene	0.000951	J	0.000322	0.00100	1	12/04/2024 20:24	WG2412880
1,3,5-Trimethylbenzene	0.000933	J	0.000104	0.00100	1	12/04/2024 20:24	WG2412880
(S) Toluene-d8	99.7			80.0-120		12/04/2024 20:24	WG2412880
(S) Toluene-d8	106			80.0-120		12/06/2024 18:58	WG2414330
(S) 4-Bromofluorobenzene	99.1			77.0-126		12/04/2024 20:24	WG2412880
(S) 4-Bromofluorobenzene	84.7			77.0-126		12/06/2024 18:58	WG2414330
(S) 1,2-Dichloroethane-d4	92.6			70.0-130		12/04/2024 20:24	WG2412880
(S) 1,2-Dichloroethane-d4	115			70.0-130		12/06/2024 18:58	WG2414330

Sample Narrative:

L1804697-05 WG2412880: Reporting OOH to confirm E result.

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Diesel Range Organics (DRO)	0.342		0.0667	0.200	1	12/04/2024 20:08	WG2412036
Residual Range Organics (RRO)	U		0.0833	0.250	1	12/04/2024 20:08	WG2412036
(S) o-Terphenyl	70.5			52.0-156		12/04/2024 20:08	WG2412036

Sample Narrative:

L1804697-05 WG2412036: Sample resembles laboratory standard for Gasoline.

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Anthracene	U	T8	0.0000190	0.0000500	1	12/01/2024 20:47	WG2410542
Acenaphthene	0.000159	T8	0.0000190	0.0000500	1	12/01/2024 20:47	WG2410542
Benzo(a)anthracene	U	T8	0.0000203	0.0000500	1	12/01/2024 20:47	WG2410542
Benzo(a)pyrene	U	T8	0.0000184	0.0000500	1	12/01/2024 20:47	WG2410542
Benzo(b)fluoranthene	U	T8	0.0000168	0.0000500	1	12/01/2024 20:47	WG2410542

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzo(k)fluoranthene	U	<u>T8</u>	0.0000202	0.0000500	1	12/01/2024 20:47	WG2410542
Dibenz(a,h)anthracene	U	<u>T8</u>	0.0000160	0.0000500	1	12/01/2024 20:47	WG2410542
Chrysene	U	<u>T8</u>	0.0000179	0.0000500	1	12/01/2024 20:47	WG2410542
Fluoranthene	U	<u>T8</u>	0.0000270	0.000100	1	12/01/2024 20:47	WG2410542
Fluorene	0.000128	<u>T8</u>	0.0000169	0.0000500	1	12/01/2024 20:47	WG2410542
Indeno(1,2,3-cd)pyrene	U	<u>T8</u>	0.0000158	0.0000500	1	12/01/2024 20:47	WG2410542
Naphthalene	U	<u>T8</u>	0.0000917	0.000250	1	12/01/2024 20:47	WG2410542
Pyrene	0.0000234	<u>J T8</u>	0.0000169	0.0000500	1	12/01/2024 20:47	WG2410542
<i>(S)</i> Nitrobenzene-d5	145			31.0-160		12/01/2024 20:47	WG2410542
<i>(S)</i> 2-Fluorobiphenyl	105			48.0-148		12/01/2024 20:47	WG2410542
<i>(S)</i> p-Terphenyl-d14	112			37.0-146		12/01/2024 20:47	WG2410542

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0000941	0.00100	1	12/04/2024 16:43	WG2412880
1,2-Dibromoethane	U		0.000126	0.00100	1	12/04/2024 16:43	WG2412880
1,2-Dichloroethane	U		0.0000819	0.00100	1	12/04/2024 16:43	WG2412880
Ethylbenzene	U		0.000137	0.00100	1	12/04/2024 16:43	WG2412880
Toluene	U		0.000278	0.00100	1	12/04/2024 16:43	WG2412880
Xylenes, Total	U		0.000174	0.00300	1	12/04/2024 16:43	WG2412880
Methyl tert-butyl ether	U		0.000101	0.00100	1	12/04/2024 16:43	WG2412880
Naphthalene	U		0.00100	0.00500	1	12/04/2024 16:43	WG2412880
Isopropylbenzene	U		0.000105	0.00100	1	12/04/2024 16:43	WG2412880
n-Propylbenzene	U		0.0000993	0.00100	1	12/04/2024 16:43	WG2412880
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	12/04/2024 16:43	WG2412880
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	12/04/2024 16:43	WG2412880
(S) Toluene-d8	111			80.0-120		12/04/2024 16:43	WG2412880
(S) 4-Bromofluorobenzene	102			77.0-126		12/04/2024 16:43	WG2412880
(S) 1,2-Dichloroethane-d4	98.0			70.0-130		12/04/2024 16:43	WG2412880

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R4154237-1 12/05/24 12:50

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Lead	U		0.00299	0.00600

Laboratory Control Sample (LCS)

(LCS) R4154237-2 12/05/24 12:51

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Lead	1.00	0.976	97.6	80.0-120	

L1804697-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1804697-02 12/05/24 12:53 • (MS) R4154237-4 12/05/24 12:56 • (MSD) R4154237-5 12/05/24 12:58

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Lead	1.00	0.00308	1.00	1.00	99.8	100	1	75.0-125			0.363	20

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Method Blank (MB)

(MB) R4154903-1 12/06/24 15:25

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Lead	U		0.00299	0.00600

¹Cp

²Tc

³Ss

Laboratory Control Sample (LCS)

(LCS) R4154903-2 12/06/24 15:26

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Lead	1.00	0.967	96.7	80.0-120	

⁴Cn

⁵Sr

L1804697-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1804697-01 12/06/24 15:28 • (MS) R4154903-4 12/06/24 15:31 • (MSD) R4154903-5 12/06/24 15:33

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Lead	1.00	0.00320	0.962	0.962	95.9	95.9	1	75.0-125			0.00769	20

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4153596-2 12/04/24 01:52

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Gasoline Range Organics-NWTPH	U		0.0316	0.100
(S) a,a,a-Trifluorotoluene(FID)	106			78.0-120

Laboratory Control Sample (LCS)

(LCS) R4153596-1 12/04/24 00:38

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Gasoline Range Organics-NWTPH	5.00	5.46	109	70.0-124	
(S) a,a,a-Trifluorotoluene(FID)			112	78.0-120	

L1804697-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1804697-02 12/04/24 09:05 • (MS) R4153596-3 12/04/24 11:22 • (MSD) R4153596-4 12/04/24 11:44

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Gasoline Range Organics-NWTPH	5.00	0.0843	1.13	2.07	20.9	39.7	1	10.0-155		J3	58.7	21
(S) a,a,a-Trifluorotoluene(FID)					108	109		78.0-120				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R4153619-6 12/04/24 14:54

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.0000941	0.00100
1,2-Dibromoethane	U		0.000126	0.00100
1,2-Dichloroethane	U		0.0000819	0.00100
Ethylbenzene	U		0.000137	0.00100
Toluene	U		0.000278	0.00100
Xylenes, Total	U		0.000174	0.00300
Methyl tert-butyl ether	U		0.000101	0.00100
Naphthalene	U		0.00100	0.00500
Isopropylbenzene	U		0.000105	0.00100
n-Propylbenzene	U		0.0000993	0.00100
1,2,4-Trimethylbenzene	U		0.000322	0.00100
1,3,5-Trimethylbenzene	U		0.000104	0.00100
(S) Toluene-d8	115			80.0-120
(S) 4-Bromofluorobenzene	110			77.0-126
(S) 1,2-Dichloroethane-d4	96.5			70.0-130

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4153619-1 12/04/24 11:15 • (LCSD) R4153619-2 12/04/24 11:35

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.00500	0.00518	0.00494	104	98.8	70.0-123			4.74	20
1,2-Dibromoethane	0.00500	0.00506	0.00511	101	102	80.0-122			0.983	20
1,2-Dichloroethane	0.00500	0.00514	0.00491	103	98.2	70.0-128			4.58	20
Ethylbenzene	0.00500	0.00525	0.00535	105	107	79.0-123			1.89	20
Toluene	0.00500	0.00521	0.00513	104	103	79.0-120			1.55	20
Xylenes, Total	0.0150	0.0151	0.0151	101	101	79.0-123			0.000	20
Methyl tert-butyl ether	0.00500	0.00503	0.00476	101	95.2	68.0-125			5.52	20
Naphthalene	0.00500	0.00410	0.00399	82.0	79.8	54.0-135	J	J	2.72	20
Isopropylbenzene	0.00500	0.00521	0.00517	104	103	76.0-127			0.771	20
n-Propylbenzene	0.00500	0.00532	0.00486	106	97.2	77.0-124			9.04	20
1,2,4-Trimethylbenzene	0.00500	0.00530	0.00502	106	100	76.0-121			5.43	20
1,3,5-Trimethylbenzene	0.00500	0.00524	0.00487	105	97.4	76.0-122			7.32	20
(S) Toluene-d8				99.1	101	80.0-120				
(S) 4-Bromofluorobenzene				97.6	98.6	77.0-126				
(S) 1,2-Dichloroethane-d4				96.7	95.0	70.0-130				

L1804697-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1804697-02 12/04/24 19:24 • (MS) R4153619-7 12/04/24 22:44 • (MSD) R4153619-8 12/04/24 23:04

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	0.00500	U	0.00583	0.00591	117	118	1	17.0-158			1.36	27
1,2-Dibromoethane	0.00500	U	0.00527	0.00556	105	111	1	34.0-147			5.36	27
1,2-Dichloroethane	0.00500	U	0.00541	0.00548	108	110	1	29.0-151			1.29	27
Ethylbenzene	0.00500	U	0.00571	0.00613	114	123	1	30.0-155			7.09	27
Toluene	0.00500	U	0.00566	0.00593	113	119	1	26.0-154			4.66	28
Xylenes, Total	0.0150	U	0.0167	0.0174	111	116	1	29.0-154			4.11	28
Methyl tert-butyl ether	0.00500	U	0.00536	0.00538	107	108	1	28.0-150			0.372	29
Naphthalene	0.00500	U	0.00438	0.00468	87.6	93.6	1	12.0-156	↓	↓	6.62	35
Isopropylbenzene	0.00500	U	0.00558	0.00589	112	118	1	28.0-157			5.41	27
n-Propylbenzene	0.00500	U	0.00563	0.00584	113	117	1	31.0-154			3.66	28
1,2,4-Trimethylbenzene	0.00500	U	0.00547	0.00572	109	114	1	26.0-154			4.47	27
1,3,5-Trimethylbenzene	0.00500	U	0.00535	0.00562	107	112	1	28.0-153			4.92	27
(S) Toluene-d8					95.4	100		80.0-120				
(S) 4-Bromofluorobenzene					95.7	96.1		77.0-126				
(S) 1,2-Dichloroethane-d4					94.6	95.8		70.0-130				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R4155316-4 12/06/24 12:19

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Benzene	U		0.0000941	0.00100
Ethylbenzene	U		0.000137	0.00100
(S) Toluene-d8	105			80.0-120
(S) 4-Bromofluorobenzene	86.8			77.0-126
(S) 1,2-Dichloroethane-d4	111			70.0-130

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4155316-1 12/06/24 10:55 • (LCSD) R4155316-2 12/06/24 11:16

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Benzene	0.00500	0.00507	0.00516	101	103	70.0-123			1.76	20
Ethylbenzene	0.00500	0.00499	0.00506	99.8	101	79.0-123			1.39	20
(S) Toluene-d8				107	106	80.0-120				
(S) 4-Bromofluorobenzene				94.7	92.0	77.0-126				
(S) 1,2-Dichloroethane-d4				114	112	70.0-130				

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4153337-1 12/03/24 17:58

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Diesel Range Organics (DRO)	U		0.0667	0.200
Residual Range Organics (RRO)	U		0.0833	0.250
<i>(S) o-Terphenyl</i>	94.5			52.0-156

Laboratory Control Sample (LCS)

(LCS) R4153337-2 12/03/24 18:18

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/l	mg/l	%	%	
Diesel Range Organics (DRO)	1.50	1.36	90.7	50.0-150	
<i>(S) o-Terphenyl</i>			111	52.0-156	

L1804697-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1804697-02 12/04/24 00:51 • (MS) R4153337-3 12/04/24 01:11 • (MSD) R4153337-4 12/04/24 01:31

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Diesel Range Organics (DRO)	1.50	U	1.26	1.44	84.0	96.0	1	50.0-150			13.3	20
<i>(S) o-Terphenyl</i>					114	117		52.0-156				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R4153734-1 12/04/24 12:47

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Diesel Range Organics (DRO)	U		0.0667	0.200
Residual Range Organics (RRO)	U		0.0833	0.250
<i>(S) o-Terphenyl</i>	72.0			52.0-156

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4153734-2 12/04/24 13:06 • (LCSD) R4153734-3 12/04/24 13:26

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Diesel Range Organics (DRO)	1.50	1.34	1.33	89.3	88.7	50.0-150			0.749	20
<i>(S) o-Terphenyl</i>				81.5	77.0	52.0-156				

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Method Blank (MB)

(MB) R4153665-2 12/01/24 16:03

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Anthracene	U		0.0000190	0.0000500
Acenaphthene	U		0.0000190	0.0000500
Benzo(a)anthracene	U		0.0000203	0.0000500
Benzo(a)pyrene	U		0.0000184	0.0000500
Benzo(b)fluoranthene	U		0.0000168	0.0000500
Benzo(k)fluoranthene	U		0.0000202	0.0000500
Dibenz(a,h)anthracene	U		0.0000160	0.0000500
Chrysene	U		0.0000179	0.0000500
Fluoranthene	U		0.0000270	0.000100
Fluorene	U		0.0000169	0.0000500
Indeno(1,2,3-cd)pyrene	U		0.0000158	0.0000500
Naphthalene	U		0.0000917	0.000250
Pyrene	U		0.0000169	0.0000500
<i>(S) Nitrobenzene-d5</i>	147			31.0-160
<i>(S) 2-Fluorobiphenyl</i>	103			48.0-148
<i>(S) p-Terphenyl-d14</i>	110			37.0-146

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Laboratory Control Sample (LCS)

(LCS) R4153665-1 12/01/24 15:46

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.00200	0.00207	104	67.0-150	
Acenaphthene	0.00200	0.00217	108	65.0-138	
Benzo(a)anthracene	0.00200	0.00232	116	61.0-140	
Benzo(a)pyrene	0.00200	0.00215	107	60.0-143	
Benzo(b)fluoranthene	0.00200	0.00208	104	58.0-141	
Benzo(k)fluoranthene	0.00200	0.00200	100	58.0-148	
Dibenz(a,h)anthracene	0.00200	0.00193	96.5	52.0-155	
Chrysene	0.00200	0.00219	109	64.0-144	
Fluoranthene	0.00200	0.00226	113	69.0-153	
Fluorene	0.00200	0.00232	116	64.0-136	
Indeno(1,2,3-cd)pyrene	0.00200	0.00190	95.0	54.0-153	
Naphthalene	0.00200	0.00222	111	61.0-137	
Pyrene	0.00200	0.00215	107	60.0-142	
<i>(S) Nitrobenzene-d5</i>			155	31.0-160	
<i>(S) 2-Fluorobiphenyl</i>			114	48.0-148	
<i>(S) p-Terphenyl-d14</i>			118	37.0-146	

L1804697-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1804697-02 12/01/24 18:07 • (MS) R4153665-3 12/01/24 18:25 • (MSD) R4153665-4 12/01/24 18:43

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Anthracene	0.00200	U	0.00197	0.00206	98.5	103	1	56.0-156			4.47	20
Acenaphthene	0.00200	U	0.00205	0.00213	103	106	1	44.0-153			3.83	20
Benzo(a)anthracene	0.00200	U	0.00220	0.00229	110	115	1	47.0-151			4.01	20
Benzo(a)pyrene	0.00200	U	0.00205	0.00205	103	103	1	45.0-146			0.000	20
Benzo(b)fluoranthene	0.00200	U	0.00196	0.00202	98.0	101	1	43.0-142			3.02	20
Benzo(k)fluoranthene	0.00200	U	0.00190	0.00192	95.0	96.0	1	43.0-148			1.05	21
Dibenz(a,h)anthracene	0.00200	U	0.00187	0.00190	93.5	95.0	1	37.0-151			1.59	20
Chrysene	0.00200	U	0.00209	0.00213	104	106	1	50.0-148			1.90	20
Fluoranthene	0.00200	U	0.00221	0.00230	111	115	1	56.0-157			3.99	20
Fluorene	0.00200	U	0.00215	0.00218	107	109	1	48.0-148			1.39	20
Indeno(1,2,3-cd)pyrene	0.00200	U	0.00182	0.00190	91.0	95.0	1	41.0-148			4.30	20
Naphthalene	0.00200	U	0.00212	0.00218	106	109	1	10.0-160			2.79	20
Pyrene	0.00200	U	0.00210	0.00215	105	107	1	51.0-148			2.35	20
(S) Nitrobenzene-d5					146	153		31.0-160				
(S) 2-Fluorobiphenyl					103	109		48.0-148				
(S) p-Terphenyl-d14					108	113		37.0-146				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

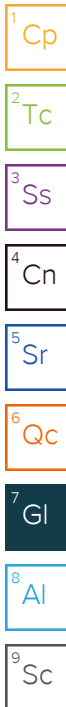
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier Description

E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
T8	Sample(s) received past/too close to holding time expiration.



ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Company Name/Address:
Eastern Research Group Inc- Concord, MA
 561 Virginia Road Bldg. 4

Billing Information:
 Accounts Payable
 561 Virginia Road Bldg. 4
 Suite 300
 Concord, MA 01742

Pres
 Chk

Report to:
Sarah Weppner

Email To:
 sedrek.kovar@erg.com;sarah.weppner@alta-

Project Description:
 2450 Altamont Drive

City/State Collected: **Klamath Falls, OR**
 Please Circle: MT CT ET

Phone:

Client Project #
0425.00.016.080

Lab Project #
EASRESCMA-ID

Collected by (print):
Brady Brantley / Sedrek Kovar

Site/Facility ID #

P.O. #

Collected by (signature):
Brady Brantley

Rush? (Lab MUST Be Notified)
 Same Day Five Day
 Next Day 5 Day (Rad Only)
 Two Day 10 Day (Rad Only)
 Three Day **STDTAT**

Quote #

Immediately Packed on Ice N Y

Sample ID Comp/Grab Matrix * Depth Date Time No. of Cntrs

Analysis / Container / Preservative	
NWTPHDXLVI 40miAmb-HCl-BT	
NWTPHGX 40miAmb HCl	
PAHSIMLVI 40miAmb-NoPres-WT	
PFAS1633 PFAS(2)500ml(1)125ml	
Total Pb 250mlHDPE-HNO3	
V8260AP9 40miAmb-HCl	
HCL Trip Blank - 8260	



MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <https://info.pacelabs.com/hubs/pas-standard-terms.pdf>

SDG # **180469**
B052

Acctnum: **EASRESCMA**
 Template: **T263839**
 Prelogin: **P1114091**
 PM: **841 - Kelly Mercer**
 PB: **11-1-24**

Shipped Via: **FedEX Standard**

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	NWTPHDXLVI 40miAmb-HCl-BT	NWTPHGX 40miAmb HCl	PAHSIMLVI 40miAmb-NoPres-WT	PFAS1633 PFAS(2)500ml(1)125ml	Total Pb 250mlHDPE-HNO3	V8260AP9 40miAmb-HCl	HCL Trip Blank - 8260	Remarks	Sample # (lab only)
ATMT-TMW-1	Grab	GW	-	11/20/24	0855	11	X	X	X	X	X	X			-01
ATMT-TMW-2	Grab	GW	-	11/20/24	1020	11	X	X	X	X	X	X			-02
ATMT-TMW-2-Dup	Grab	GW	-	11/20/24	1020	11	X	X	X	X	X	X			-03
ATMT-TMW-2-MS/MSD	Grab	GW	-	11/20/24	1020	11	X	X	X	X	X	X		MS/MSD	-02
ATMT-TMW-3*	Grab	GW	-	11/20/24	1155	11	X	X	X	X	X	X			-04
ATMT-TMW-4	Grab	GW	-	11/20/24	1335	11	X	X	X	X	X	X			-05
Trip Blank		GW											X	Trip Blank	-06

* Matrix:
 SS - Soil AIR - Air F - Filter
 GW - Groundwater B - Bioassay
 WW - WasteWater
 DW - Drinking Water
 OT - Other

Remarks: **Run trip blank + MS/MSD w/ our sample batch.**

pH _____ Temp _____
 Flow _____ Other _____

Samples returned via:
 UPS FedEx Courier

Tracking # **2822 9970 4928**

Sample Receipt Checklist	
COC Seal Present/Intact:	<input type="checkbox"/> NP <input checked="" type="checkbox"/> Y <input type="checkbox"/> N
COC Signed/Accurate:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Bottles arrive intact:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Correct bottles used:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Sufficient volume sent:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
If Applicable	
VOA Zero Headpace:	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
Preservation Correct/Checked:	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
RAD Screen <0.5 mR/hr:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N

Relinquished by: (Signature)
Brady Brantley
 Relinquished by: (Signature)
 Relinquished by: (Signature)

Date: **11/22/24**
 Time: **1200**

Received by: (Signature)
 Received by: (Signature)
 Received for lab by: (Signature)
Alva Mithen

Trip Blank Received: Yes / No
 HCL / MeOH
 TBR
 Temp: **DRAG**
18.1 to 18.1 C
 Date: **11/27/24**
 Time: **0930**

If preservation required by Login: Date/Time
 Hold:
 Condition:
 NCF / OK

11/27-NCF-11804697-EASRESCMA PM

R5

Time estimate: 0h

Time spent: 0h

Members



Paul Minnich (responsible)



Kelly Mercer

Due on 2 December 2024 5:00 PM for target Done

- Parameter(s) past holding time
- Temperature not in range
- Improper container type
- pH not in range
- Insufficient sample volume
- Sample is biphasic
- Vials received with headspace
- Broken container
- Sufficient sample remains
- If broken container: Insufficient packing material around container
- If broken container: Insufficient packing material inside cooler
- If broken container: Improper handling by carrier: _____
- If broken container: Sample was frozen
- If broken container: Container lid not intact
- Client informed by Call
- Client informed by Email
- Client informed by Voicemail
- Date/Time: _____
- PM initials: _____
- Client Contact: _____

Comments

Paul Minnich

28 November 2024 12:35 AM

All ice melted with a temp of 18.1

Kelly Mercer

2 December 2024 12:30 PM

Client informed and wanted to proceed

Matthew Shacklock

2 December 2024 1:43 PM

Done



ANALYTICAL REPORT

December 26, 2024

Revised Report

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Eastern Research Group Inc- Concord, MA

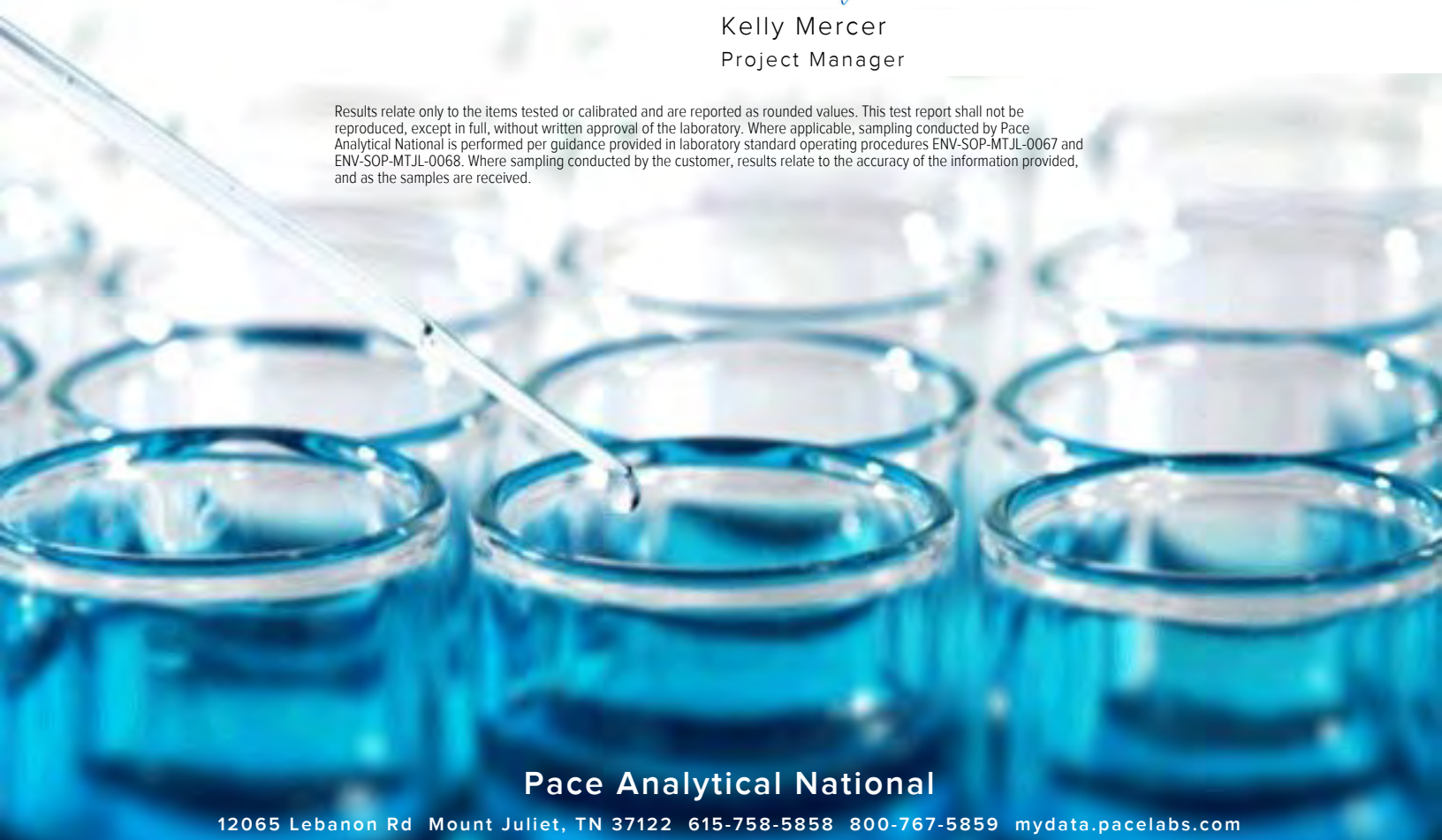
Sample Delivery Group: L1803636
 Samples Received: 11/23/2024
 Project Number: 0425.00.016.080
 Description: 2450 Altamont Drive

Report To: Sarah Weppner
 561 Virginia Road Bldg. 4
 Suite 300
 Concord, MA 01742

Entire Report Reviewed By:

Kelly Mercer
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

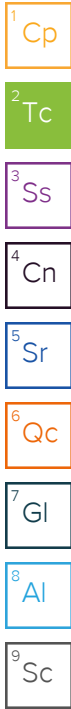


Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 mydata.pacelabs.com

TABLE OF CONTENTS

Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	3
Cn: Case Narrative	4
Sr: Sample Results	5
ATMT-TMW-5 L1803636-01	5
ATMT-TMW-6 L1803636-02	6
ATMT-RINSATE L1803636-03	7
TRIP BLANK L1803636-04	8
Qc: Quality Control Summary	9
Metals (ICP) by Method 6010B	9
Volatile Organic Compounds (GC) by Method NWTPHGX	10
Volatile Organic Compounds (GC/MS) by Method 8260D	11
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	14
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	15
Gl: Glossary of Terms	17
Al: Accreditations & Locations	18
Sc: Sample Chain of Custody	19



SAMPLE SUMMARY

ATMT-TMW-5 L1803636-01 GW

Collected by BB/SB Collected date/time 11/20/24 15:00 Received date/time 11/23/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010B	WG2411312	1	12/04/24 13:36	12/04/24 20:17	MAP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2410847	1	12/01/24 12:37	12/01/24 12:37	DYW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2412880	1	12/04/24 17:43	12/04/24 17:43	JBE	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG2408248	1	11/25/24 16:43	12/02/24 18:52	DMG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2408601	1	11/26/24 08:42	11/28/24 09:04	ADF	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

ATMT-TMW-6 L1803636-02 GW

Collected by BB/SB Collected date/time 11/20/24 15:45 Received date/time 11/23/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010B	WG2411312	1	12/04/24 13:36	12/04/24 20:19	MAP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2410847	1	12/01/24 12:59	12/01/24 12:59	DYW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2412880	1	12/04/24 18:03	12/04/24 18:03	JBE	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG2408248	1	11/25/24 16:43	12/02/24 19:12	DMG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2408601	1	11/26/24 08:42	11/28/24 09:21	ADF	Mt. Juliet, TN

ATMT-RINSATE L1803636-03 GW

Collected by BB/SB Collected date/time 11/20/24 12:10 Received date/time 11/23/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Metals (ICP) by Method 6010B	WG2411312	1	12/04/24 13:36	12/04/24 19:56	MAP	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method NWTPHGX	WG2410847	1	12/01/24 13:22	12/01/24 13:22	DYW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2412880	1	12/04/24 18:23	12/04/24 18:23	JBE	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT	WG2408248	1	11/25/24 16:43	12/02/24 19:32	DMG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM	WG2408601	1	11/26/24 08:42	11/28/24 09:38	ADF	Mt. Juliet, TN

TRIP BLANK L1803636-04 GW

Collected by BB/SB Collected date/time 11/20/24 00:00 Received date/time 11/23/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC/MS) by Method 8260D	WG2414870	1	12/08/24 01:52	12/08/24 01:52	JHH	Mt. Juliet, TN

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Kelly Mercer
Project Manager

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Report Revision History

Level II Report - Version 1: 12/12/24 12:29

Project Narrative

added

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Lead	U		0.00299	0.00600	1	12/04/2024 20:17	WG2411312

1 Cp

2 Tc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Gasoline Range Organics-NWTPH	U		0.0316	0.100	1	12/01/2024 12:37	WG2410847
(S) a,a,a-Trifluorotoluene(FID)	100			78.0-120		12/01/2024 12:37	WG2410847

3 Ss

4 Cn

5 Sr

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Benzene	U		0.0000941	0.00100	1	12/04/2024 17:43	WG2412880
1,2-Dibromoethane	U		0.000126	0.00100	1	12/04/2024 17:43	WG2412880
1,2-Dichloroethane	U		0.0000819	0.00100	1	12/04/2024 17:43	WG2412880
Ethylbenzene	U		0.000137	0.00100	1	12/04/2024 17:43	WG2412880
Toluene	U		0.000278	0.00100	1	12/04/2024 17:43	WG2412880
Xylenes, Total	U		0.000174	0.00300	1	12/04/2024 17:43	WG2412880
Methyl tert-butyl ether	0.0113		0.000101	0.00100	1	12/04/2024 17:43	WG2412880
Naphthalene	U		0.00100	0.00500	1	12/04/2024 17:43	WG2412880
Isopropylbenzene	U		0.000105	0.00100	1	12/04/2024 17:43	WG2412880
n-Propylbenzene	U		0.0000993	0.00100	1	12/04/2024 17:43	WG2412880
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	12/04/2024 17:43	WG2412880
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	12/04/2024 17:43	WG2412880
(S) Toluene-d8	110			80.0-120		12/04/2024 17:43	WG2412880
(S) 4-Bromofluorobenzene	104			77.0-126		12/04/2024 17:43	WG2412880
(S) 1,2-Dichloroethane-d4	95.8			70.0-130		12/04/2024 17:43	WG2412880

6 Qc

7 Gl

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Diesel Range Organics (DRO)	U		0.0667	0.200	1	12/02/2024 18:52	WG2408248
Residual Range Organics (RRO)	U		0.0833	0.250	1	12/02/2024 18:52	WG2408248
(S) o-Terphenyl	98.9			52.0-156		12/02/2024 18:52	WG2408248

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Anthracene	U		0.0000190	0.0000500	1	11/28/2024 09:04	WG2408601
Acenaphthene	U		0.0000190	0.0000500	1	11/28/2024 09:04	WG2408601
Benzo(a)anthracene	U		0.0000203	0.0000500	1	11/28/2024 09:04	WG2408601
Benzo(a)pyrene	U		0.0000184	0.0000500	1	11/28/2024 09:04	WG2408601
Benzo(b)fluoranthene	U		0.0000168	0.0000500	1	11/28/2024 09:04	WG2408601
Benzo(k)fluoranthene	U		0.0000202	0.0000500	1	11/28/2024 09:04	WG2408601
Dibenz(a,h)anthracene	U		0.0000160	0.0000500	1	11/28/2024 09:04	WG2408601
Chrysene	U		0.0000179	0.0000500	1	11/28/2024 09:04	WG2408601
Fluoranthene	U		0.0000270	0.000100	1	11/28/2024 09:04	WG2408601
Fluorene	U		0.0000169	0.0000500	1	11/28/2024 09:04	WG2408601
Indeno(1,2,3-cd)pyrene	U		0.0000158	0.0000500	1	11/28/2024 09:04	WG2408601
Naphthalene	U		0.0000917	0.000250	1	11/28/2024 09:04	WG2408601
Pyrene	U		0.0000169	0.0000500	1	11/28/2024 09:04	WG2408601
(S) Nitrobenzene-d5	89.5			31.0-160		11/28/2024 09:04	WG2408601
(S) 2-Fluorobiphenyl	111			48.0-148		11/28/2024 09:04	WG2408601
(S) p-Terphenyl-d14	117			37.0-146		11/28/2024 09:04	WG2408601

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Lead	U		0.00299	0.00600	1	12/04/2024 20:19	WG2411312

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Gasoline Range Organics-NWTPH	0.0629	<u>B</u> <u>J</u>	0.0316	0.100	1	12/01/2024 12:59	WG2410847
(S) a,a,a-Trifluorotoluene(FID)	99.2			78.0-120		12/01/2024 12:59	WG2410847

6 Qc

7 Gl

8 Al

9 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Benzene	0.000184	<u>J</u>	0.0000941	0.00100	1	12/04/2024 18:03	WG2412880
1,2-Dibromoethane	U		0.000126	0.00100	1	12/04/2024 18:03	WG2412880
1,2-Dichloroethane	U		0.0000819	0.00100	1	12/04/2024 18:03	WG2412880
Ethylbenzene	U		0.000137	0.00100	1	12/04/2024 18:03	WG2412880
Toluene	U		0.000278	0.00100	1	12/04/2024 18:03	WG2412880
Xylenes, Total	0.000233	<u>J</u>	0.000174	0.00300	1	12/04/2024 18:03	WG2412880
Methyl tert-butyl ether	0.0120		0.000101	0.00100	1	12/04/2024 18:03	WG2412880
Naphthalene	U		0.00100	0.00500	1	12/04/2024 18:03	WG2412880
Isopropylbenzene	U		0.000105	0.00100	1	12/04/2024 18:03	WG2412880
n-Propylbenzene	U		0.0000993	0.00100	1	12/04/2024 18:03	WG2412880
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	12/04/2024 18:03	WG2412880
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	12/04/2024 18:03	WG2412880
(S) Toluene-d8	110			80.0-120		12/04/2024 18:03	WG2412880
(S) 4-Bromofluorobenzene	106			77.0-126		12/04/2024 18:03	WG2412880
(S) 1,2-Dichloroethane-d4	96.1			70.0-130		12/04/2024 18:03	WG2412880

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Diesel Range Organics (DRO)	U		0.0667	0.200	1	12/02/2024 19:12	WG2408248
Residual Range Organics (RRO)	U		0.0833	0.250	1	12/02/2024 19:12	WG2408248
(S) o-Terphenyl	98.4			52.0-156		12/02/2024 19:12	WG2408248

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Anthracene	U		0.0000190	0.0000500	1	11/28/2024 09:21	WG2408601
Acenaphthene	U		0.0000190	0.0000500	1	11/28/2024 09:21	WG2408601
Benzo(a)anthracene	U		0.0000203	0.0000500	1	11/28/2024 09:21	WG2408601
Benzo(a)pyrene	U		0.0000184	0.0000500	1	11/28/2024 09:21	WG2408601
Benzo(b)fluoranthene	U		0.0000168	0.0000500	1	11/28/2024 09:21	WG2408601
Benzo(k)fluoranthene	U		0.0000202	0.0000500	1	11/28/2024 09:21	WG2408601
Dibenz(a,h)anthracene	U		0.0000160	0.0000500	1	11/28/2024 09:21	WG2408601
Chrysene	U		0.0000179	0.0000500	1	11/28/2024 09:21	WG2408601
Fluoranthene	U		0.0000270	0.000100	1	11/28/2024 09:21	WG2408601
Fluorene	U		0.0000169	0.0000500	1	11/28/2024 09:21	WG2408601
Indeno(1,2,3-cd)pyrene	U		0.0000158	0.0000500	1	11/28/2024 09:21	WG2408601
Naphthalene	U		0.0000917	0.000250	1	11/28/2024 09:21	WG2408601
Pyrene	U		0.0000169	0.0000500	1	11/28/2024 09:21	WG2408601
(S) Nitrobenzene-d5	86.8			31.0-160		11/28/2024 09:21	WG2408601
(S) 2-Fluorobiphenyl	107			48.0-148		11/28/2024 09:21	WG2408601
(S) p-Terphenyl-d14	117			37.0-146		11/28/2024 09:21	WG2408601

Metals (ICP) by Method 6010B

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Lead	U		0.00299	0.00600	1	12/04/2024 19:56	WG2411312

1 Cp

2 Tc

Volatile Organic Compounds (GC) by Method NWTPHGX

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Gasoline Range Organics-NWTPH	U		0.0316	0.100	1	12/01/2024 13:22	WG2410847
(S) a,a,a-Trifluorotoluene(FID)	100			78.0-120		12/01/2024 13:22	WG2410847

3 Ss

4 Cn

5 Sr

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Benzene	U		0.0000941	0.00100	1	12/04/2024 18:23	WG2412880
1,2-Dibromoethane	U		0.000126	0.00100	1	12/04/2024 18:23	WG2412880
1,2-Dichloroethane	U		0.0000819	0.00100	1	12/04/2024 18:23	WG2412880
Ethylbenzene	U		0.000137	0.00100	1	12/04/2024 18:23	WG2412880
Toluene	U		0.000278	0.00100	1	12/04/2024 18:23	WG2412880
Xylenes, Total	U		0.000174	0.00300	1	12/04/2024 18:23	WG2412880
Methyl tert-butyl ether	U		0.000101	0.00100	1	12/04/2024 18:23	WG2412880
Naphthalene	U		0.00100	0.00500	1	12/04/2024 18:23	WG2412880
Isopropylbenzene	U		0.000105	0.00100	1	12/04/2024 18:23	WG2412880
n-Propylbenzene	U		0.0000993	0.00100	1	12/04/2024 18:23	WG2412880
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	12/04/2024 18:23	WG2412880
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	12/04/2024 18:23	WG2412880
(S) Toluene-d8	113			80.0-120		12/04/2024 18:23	WG2412880
(S) 4-Bromofluorobenzene	105			77.0-126		12/04/2024 18:23	WG2412880
(S) 1,2-Dichloroethane-d4	96.6			70.0-130		12/04/2024 18:23	WG2412880

6 Qc

7 Gl

8 Al

9 Sc

Semi-Volatile Organic Compounds (GC) by Method NWTPHDX-SGT

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Diesel Range Organics (DRO)	U		0.0667	0.200	1	12/02/2024 19:32	WG2408248
Residual Range Organics (RRO)	U		0.0833	0.250	1	12/02/2024 19:32	WG2408248
(S) o-Terphenyl	94.2			52.0-156		12/02/2024 19:32	WG2408248

Semi Volatile Organic Compounds (GC/MS) by Method 8270C-SIM

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/l		mg/l	mg/l		date / time	
Anthracene	U		0.0000190	0.0000500	1	11/28/2024 09:38	WG2408601
Acenaphthene	U		0.0000190	0.0000500	1	11/28/2024 09:38	WG2408601
Benzo(a)anthracene	U		0.0000203	0.0000500	1	11/28/2024 09:38	WG2408601
Benzo(a)pyrene	U		0.0000184	0.0000500	1	11/28/2024 09:38	WG2408601
Benzo(b)fluoranthene	U		0.0000168	0.0000500	1	11/28/2024 09:38	WG2408601
Benzo(k)fluoranthene	U		0.0000202	0.0000500	1	11/28/2024 09:38	WG2408601
Dibenz(a,h)anthracene	U		0.0000160	0.0000500	1	11/28/2024 09:38	WG2408601
Chrysene	U		0.0000179	0.0000500	1	11/28/2024 09:38	WG2408601
Fluoranthene	U		0.0000270	0.000100	1	11/28/2024 09:38	WG2408601
Fluorene	U		0.0000169	0.0000500	1	11/28/2024 09:38	WG2408601
Indeno(1,2,3-cd)pyrene	U		0.0000158	0.0000500	1	11/28/2024 09:38	WG2408601
Naphthalene	U		0.0000917	0.000250	1	11/28/2024 09:38	WG2408601
Pyrene	U		0.0000169	0.0000500	1	11/28/2024 09:38	WG2408601
(S) Nitrobenzene-d5	85.8			31.0-160		11/28/2024 09:38	WG2408601
(S) 2-Fluorobiphenyl	106			48.0-148		11/28/2024 09:38	WG2408601
(S) p-Terphenyl-d14	118			37.0-146		11/28/2024 09:38	WG2408601

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result mg/l	Qualifier	MDL mg/l	RDL mg/l	Dilution	Analysis date / time	Batch
Benzene	U		0.0000941	0.00100	1	12/08/2024 01:52	WG2414870
1,2-Dibromoethane	U		0.000126	0.00100	1	12/08/2024 01:52	WG2414870
1,2-Dichloroethane	U		0.0000819	0.00100	1	12/08/2024 01:52	WG2414870
Ethylbenzene	U		0.000137	0.00100	1	12/08/2024 01:52	WG2414870
Toluene	U		0.000278	0.00100	1	12/08/2024 01:52	WG2414870
Xylenes, Total	U		0.000174	0.00300	1	12/08/2024 01:52	WG2414870
Methyl tert-butyl ether	U		0.000101	0.00100	1	12/08/2024 01:52	WG2414870
Naphthalene	U	C3 J4	0.00100	0.00500	1	12/08/2024 01:52	WG2414870
Isopropylbenzene	U	C3	0.000105	0.00100	1	12/08/2024 01:52	WG2414870
n-Propylbenzene	U		0.0000993	0.00100	1	12/08/2024 01:52	WG2414870
1,2,4-Trimethylbenzene	U		0.000322	0.00100	1	12/08/2024 01:52	WG2414870
1,3,5-Trimethylbenzene	U		0.000104	0.00100	1	12/08/2024 01:52	WG2414870
(S) Toluene-d8	92.6			80.0-120		12/08/2024 01:52	WG2414870
(S) 4-Bromofluorobenzene	94.4			77.0-126		12/08/2024 01:52	WG2414870
(S) 1,2-Dichloroethane-d4	98.8			70.0-130		12/08/2024 01:52	WG2414870

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R4153727-1 12/04/24 19:52

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Lead	U		0.00299	0.00600

¹Cp

²Tc

³Ss

Laboratory Control Sample (LCS)

(LCS) R4153727-2 12/04/24 19:54

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Lead	1.00	0.917	91.7	80.0-120	

⁴Cn

⁵Sr

L1803636-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1803636-03 12/04/24 19:56 • (MS) R4153727-4 12/04/24 19:59 • (MSD) R4153727-5 12/04/24 20:01

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Lead	1.00	U	0.945	0.962	94.5	96.2	1	75.0-125			1.80	20

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4153673-2 12/01/24 11:39

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Gasoline Range Organics-NWTPH	0.0480	↓	0.0316	0.100
(S) a,a,a-Trifluorotoluene(FID)	99.1			78.0-120

Laboratory Control Sample (LCS)

(LCS) R4153673-1 12/01/24 10:24

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Gasoline Range Organics-NWTPH	5.00	4.67	93.4	70.0-124	
(S) a,a,a-Trifluorotoluene(FID)			105	78.0-120	

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Method Blank (MB)

(MB) R4153619-6 12/04/24 14:54

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.0000941	0.00100
1,2-Dibromoethane	U		0.000126	0.00100
1,2-Dichloroethane	U		0.0000819	0.00100
Ethylbenzene	U		0.000137	0.00100
Toluene	U		0.000278	0.00100
Xylenes, Total	U		0.000174	0.00300
Methyl tert-butyl ether	U		0.000101	0.00100
Naphthalene	U		0.00100	0.00500
Isopropylbenzene	U		0.000105	0.00100
n-Propylbenzene	U		0.0000993	0.00100
1,2,4-Trimethylbenzene	U		0.000322	0.00100
1,3,5-Trimethylbenzene	U		0.000104	0.00100
(S) Toluene-d8	115			80.0-120
(S) 4-Bromofluorobenzene	110			77.0-126
(S) 1,2-Dichloroethane-d4	96.5			70.0-130

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4153619-1 12/04/24 11:15 • (LCSD) R4153619-2 12/04/24 11:35

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Benzene	0.00500	0.00518	0.00494	104	98.8	70.0-123			4.74	20
1,2-Dibromoethane	0.00500	0.00506	0.00511	101	102	80.0-122			0.983	20
1,2-Dichloroethane	0.00500	0.00514	0.00491	103	98.2	70.0-128			4.58	20
Ethylbenzene	0.00500	0.00525	0.00535	105	107	79.0-123			1.89	20
Toluene	0.00500	0.00521	0.00513	104	103	79.0-120			1.55	20
Xylenes, Total	0.0150	0.0151	0.0151	101	101	79.0-123			0.000	20
Methyl tert-butyl ether	0.00500	0.00503	0.00476	101	95.2	68.0-125			5.52	20
Naphthalene	0.00500	0.00410	0.00399	82.0	79.8	54.0-135	J	J	2.72	20
Isopropylbenzene	0.00500	0.00521	0.00517	104	103	76.0-127			0.771	20
n-Propylbenzene	0.00500	0.00532	0.00486	106	97.2	77.0-124			9.04	20
1,2,4-Trimethylbenzene	0.00500	0.00530	0.00502	106	100	76.0-121			5.43	20
1,3,5-Trimethylbenzene	0.00500	0.00524	0.00487	105	97.4	76.0-122			7.32	20
(S) Toluene-d8				99.1	101	80.0-120				
(S) 4-Bromofluorobenzene				97.6	98.6	77.0-126				
(S) 1,2-Dichloroethane-d4				96.7	95.0	70.0-130				

L1804697-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1804697-02 12/04/24 19:24 • (MS) R4153619-7 12/04/24 22:44 • (MSD) R4153619-8 12/04/24 23:04

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Benzene	0.00500	U	0.00583	0.00591	117	118	1	17.0-158			1.36	27
1,2-Dibromoethane	0.00500	U	0.00527	0.00556	105	111	1	34.0-147			5.36	27
1,2-Dichloroethane	0.00500	U	0.00541	0.00548	108	110	1	29.0-151			1.29	27
Ethylbenzene	0.00500	U	0.00571	0.00613	114	123	1	30.0-155			7.09	27
Toluene	0.00500	U	0.00566	0.00593	113	119	1	26.0-154			4.66	28
Xylenes, Total	0.0150	U	0.0167	0.0174	111	116	1	29.0-154			4.11	28
Methyl tert-butyl ether	0.00500	U	0.00536	0.00538	107	108	1	28.0-150			0.372	29
Naphthalene	0.00500	U	0.00438	0.00468	87.6	93.6	1	12.0-156	↓	↓	6.62	35
Isopropylbenzene	0.00500	U	0.00558	0.00589	112	118	1	28.0-157			5.41	27
n-Propylbenzene	0.00500	U	0.00563	0.00584	113	117	1	31.0-154			3.66	28
1,2,4-Trimethylbenzene	0.00500	U	0.00547	0.00572	109	114	1	26.0-154			4.47	27
1,3,5-Trimethylbenzene	0.00500	U	0.00535	0.00562	107	112	1	28.0-153			4.92	27
(S) Toluene-d8					95.4	100		80.0-120				
(S) 4-Bromofluorobenzene					95.7	96.1		77.0-126				
(S) 1,2-Dichloroethane-d4					94.6	95.8		70.0-130				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R4155830-3 12/08/24 01:11

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Benzene	U		0.0000941	0.00100
1,2-Dibromoethane	U		0.000126	0.00100
1,2-Dichloroethane	U		0.0000819	0.00100
Ethylbenzene	U		0.000137	0.00100
Toluene	U		0.000278	0.00100
Xylenes, Total	U		0.000174	0.00300
Methyl tert-butyl ether	U		0.000101	0.00100
Naphthalene	U		0.00100	0.00500
Isopropylbenzene	U		0.000105	0.00100
n-Propylbenzene	U		0.0000993	0.00100
1,2,4-Trimethylbenzene	U		0.000322	0.00100
1,3,5-Trimethylbenzene	U		0.000104	0.00100
(S) Toluene-d8	92.3			80.0-120
(S) 4-Bromofluorobenzene	93.8			77.0-126
(S) 1,2-Dichloroethane-d4	99.1			70.0-130

Laboratory Control Sample (LCS)

(LCS) R4155830-1 12/08/24 00:10

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Benzene	0.00500	0.00546	109	70.0-123	
1,2-Dibromoethane	0.00500	0.00418	83.6	80.0-122	
1,2-Dichloroethane	0.00500	0.00542	108	70.0-128	
Ethylbenzene	0.00500	0.00433	86.6	79.0-123	
Toluene	0.00500	0.00460	92.0	79.0-120	
Xylenes, Total	0.0150	0.0133	88.7	79.0-123	
Methyl tert-butyl ether	0.00500	0.00510	102	68.0-125	
Naphthalene	0.00500	0.00269	53.8	54.0-135	J J4
Isopropylbenzene	0.00500	0.00389	77.8	76.0-127	
n-Propylbenzene	0.00500	0.00495	99.0	77.0-124	
1,2,4-Trimethylbenzene	0.00500	0.00455	91.0	76.0-121	
1,3,5-Trimethylbenzene	0.00500	0.00473	94.6	76.0-122	
(S) Toluene-d8			89.4	80.0-120	
(S) 4-Bromofluorobenzene			94.5	77.0-126	
(S) 1,2-Dichloroethane-d4			100	70.0-130	

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R4152615-1 12/02/24 09:07

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Diesel Range Organics (DRO)	U		0.0667	0.200
Residual Range Organics (RRO)	U		0.0833	0.250
<i>(S) o-Terphenyl</i>	90.0			52.0-156

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4152615-2 12/02/24 09:27 • (LCSD) R4152615-3 12/02/24 09:47

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Diesel Range Organics (DRO)	1.50	1.19	1.22	79.3	81.3	50.0-150			2.49	20
<i>(S) o-Terphenyl</i>				102	103	52.0-156				

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R4153475-3 11/28/24 03:36

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Anthracene	U		0.0000190	0.0000500
Acenaphthene	U		0.0000190	0.0000500
Benzo(a)anthracene	U		0.0000203	0.0000500
Benzo(a)pyrene	U		0.0000184	0.0000500
Benzo(b)fluoranthene	U		0.0000168	0.0000500
Benzo(k)fluoranthene	U		0.0000202	0.0000500
Dibenz(a,h)anthracene	U		0.0000160	0.0000500
Chrysene	U		0.0000179	0.0000500
Fluoranthene	U		0.0000270	0.000100
Fluorene	U		0.0000169	0.0000500
Indeno(1,2,3-cd)pyrene	U		0.0000158	0.0000500
Naphthalene	U		0.0000917	0.000250
Pyrene	U		0.0000169	0.0000500
(S) Nitrobenzene-d5	93.0			31.0-160
(S) 2-Fluorobiphenyl	109			48.0-148
(S) p-Terphenyl-d14	117			37.0-146

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

Method Blank (MB)

(MB) R4155287-1 12/07/24 13:41

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Anthracene	U		0.0000190	0.0000500
Acenaphthene	U		0.0000190	0.0000500
Benzo(a)anthracene	U		0.0000203	0.0000500
Benzo(a)pyrene	U		0.0000184	0.0000500
Benzo(b)fluoranthene	U		0.0000168	0.0000500
Benzo(k)fluoranthene	U		0.0000202	0.0000500
Dibenz(a,h)anthracene	0.0000166	↓	0.0000160	0.0000500
Chrysene	U		0.0000179	0.0000500
Fluoranthene	U		0.0000270	0.000100
Fluorene	U		0.0000169	0.0000500
Indeno(1,2,3-cd)pyrene	0.0000162	↓	0.0000158	0.0000500
Naphthalene	U		0.0000917	0.000250
Pyrene	U		0.0000169	0.0000500
(S) Nitrobenzene-d5	117			31.0-160
(S) 2-Fluorobiphenyl	111			48.0-148
(S) p-Terphenyl-d14	120			37.0-146

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R4153475-1 11/28/24 03:02 • (LCSD) R4153475-2 11/28/24 03:19

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Anthracene	0.00200	0.00214	0.00200	107	100	67.0-150			6.76	20
Acenaphthene	0.00200	0.00210	0.00202	105	101	65.0-138			3.88	20
Benzo(a)anthracene	0.00200	0.00215	0.00199	107	99.5	61.0-140			7.73	20
Benzo(a)pyrene	0.00200	0.00223	0.00215	111	107	60.0-143			3.65	20
Benzo(b)fluoranthene	0.00200	0.00218	0.00208	109	104	58.0-141			4.69	20
Benzo(k)fluoranthene	0.00200	0.00221	0.00217	111	108	58.0-148			1.83	20
Dibenz(a,h)anthracene	0.00200	0.00218	0.00214	109	107	52.0-155			1.85	20
Chrysene	0.00200	0.00232	0.00221	116	111	64.0-144			4.86	20
Fluoranthene	0.00200	0.00245	0.00228	122	114	69.0-153			7.19	20
Fluorene	0.00200	0.00233	0.00220	117	110	64.0-136			5.74	20
Indeno(1,2,3-cd)pyrene	0.00200	0.00210	0.00200	105	100	54.0-153			4.88	20
Naphthalene	0.00200	0.00218	0.00211	109	105	61.0-137			3.26	20
Pyrene	0.00200	0.00217	0.00193	108	96.5	60.0-142			11.7	20
<i>(S) Nitrobenzene-d5</i>				96.0	92.5	31.0-160				
<i>(S) 2-Fluorobiphenyl</i>				112	108	48.0-148				
<i>(S) p-Terphenyl-d14</i>				116	108	37.0-146				

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Qc

⁷ Gl

⁸ Al

⁹ Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

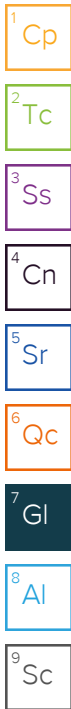
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDL	Method Detection Limit.
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J4	The associated batch QC was outside the established quality control range for accuracy.



ACCREDITATIONS & LOCATIONS

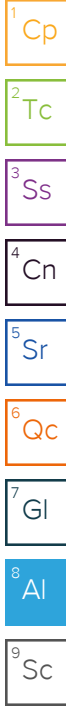
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



Company Name/Address:
Eastern Research Group Inc- Concord, MA
 561 Virginia Road Bldg. 4

Billing Information:
Accounts Payable
 561 Virginia Road Bldg. 4
 Suite 300
 Concord, MA 01742

Analysis / Container / Preservative	
NWTPHDXLVI 40mlAmb-HCl-BT	LR
NWTPHGX 40mlAmb HCl	
PAHSIMLVI 40mlAmb-NoPres-WT	
PFAS1633 PFAS(2)500ml(1)125ml	
Total Pb 250mlHDPE-HNO3	
V8260AP9 40mlAmb-HCl	
HCL Trip Blank - 8Luo	

Chain of Custody Page 1 of 1



MT JULIET, TN
 12065 Lebanon Rd Mount Juliet, TN 37122
 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <https://info.pacelabs.com/hubs/pas-standard-terms.pdf>

SDG # **180 3636**
D216

Acctnum: **EASRESCMA**
 Template: **T263839**
 Prelogin: **P1114091**
 PM: **841 - Kelly Mercer**
 PB: **11-11-24**

Shipped Via: **FedEX Standard**

Report to:
Sarah Weppner

Project Description:
 2450 Altamont Drive

Email To:
 sedrek.kovar@erg.com;sarah.weppner@alta-

City/State Collected: **Clawson Falls, OR**

Please Circle:
 MT CT ET

Client Project #
0425.00.016.080

Lab Project #
EASRESCMA-ID

Collected by (print): **Sedrek Brady Brantley / Kovar**

Site/Facility ID #

P.O. #

Collected by (signature): **Brady Brantley**

Rush? (Lab MUST Be Notified)

___ Same Day ___ Five Day
 ___ Next Day ___ 5 Day (Rad Only)
 ___ Two Day ___ 10 Day (Rad Only)
 ___ Three Day **STD 744**

Date Results Needed

Immediately Packed on Ice N ___ Y

No. of Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	NWTPHDXLVI 40mlAmb-HCl-BT	NWTPHGX 40mlAmb HCl	PAHSIMLVI 40mlAmb-NoPres-WT	PFAS1633 PFAS(2)500ml(1)125ml	Total Pb 250mlHDPE-HNO3	V8260AP9 40mlAmb-HCl	HCL Trip Blank - 8Luo
ATMT-TMW-5	Grab	GW	-	11/20/24	1500	11	X	X	X	X	X	X	
ATMT-TMW-6	Grab	GW	-	11/20/24	1545	11	X	X	X	X	X	X	
ATMT-Rinsate	Grab	GW	-	11/20/24	1210	11	X	X	X	X	X	X	
Trip Blank		GW				1							X

* Matrix:
 SS - Soil AIR - Air F - Filter
 GW - Groundwater B - Bioassay
 WW - WasteWater
 DW - Drinking Water
 OT - Other

Remarks: **Rinse trip blank w/ own sample batch - Rinse**

pH _____ Temp _____
 Flow _____ Other _____

Samples returned via:
 ___ UPS FedEx ___ Courier

Tracking # **4041 0493 4291**

Sample Receipt Checklist

COC Seal Present/Intact:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
COC Signed/Accurate:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Bottles arrive intact:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Correct bottles used:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Sufficient volume used:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
If Applicable	
VOA Zero Headspace:	<input type="checkbox"/> Y <input type="checkbox"/> N
Preservation Correct/Checked:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
RAD Screen <0.5 mR/hr:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N

Relinquished by: (Signature)
Brady Brantley

Date: **11/22/2024**

Time: **1200**

Received by: (Signature)

Date:

Time:

Received by: (Signature)

Date:

Time:

Trip Blank Received: Yes No
 HCL / MeOH TBR

Temp: **7.49 °C** Bottles Received: **33**

Date: **11.23.24** Time: **0900**

If preservation required by Login: Date/Time

Hold:

Condition: **NCF / (OK)**

12/13/2024
Ms. Brook McKeown
Eastern Research Group (ERG)
14555 Avion Parkway
Suite 200
Chantilly VA 20151

Project Name: 2450 Altamont Dr
Project #: 22136
Workorder #: 2411741

Dear Ms. Brook McKeown

The following report includes the data for the above referenced project for sample(s) received on 11/26/2024 at Eurofins Air Toxics LLC.

The data and associated QC analyzed by TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics LLC. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Monica Tran at 916-985-1000 if you have any questions regarding the data in this report.

Regards,



Monica Tran
Project Manager

WORK ORDER #: 2411741

Work Order Summary

CLIENT:	Ms. Brook McKeown Eastern Research Group (ERG) 14555 Avion Parkway Suite 200 Chantilly, VA 20151	BILL TO:	Mr. Sedrek Kovar Eastern Research Group (ERG) 1600 Perimeter Park Dr. Morrisville, NC 27560
PHONE:	(410) 459]5811	P.O. #	0425.00.016/35
FAX:		PROJECT #	22136 2450 Altamont Dr
DATE RECEIVED:	11/26/2024	CONTACT:	Monica Tran
DATE COMPLETED:	12/13/2024		

<u>FRACTION #</u>	<u>NAME</u>	<u>TEST</u>	<u>RECEIPT VAC./PRES.</u>	<u>FINAL PRESSURE</u>
01A	ATMT-VP-1	TO-15	5.5 "Hg	2 psi
01B	ATMT-VP-1	TO-15	5.5 "Hg	2 psi
02A	ATMT-VP-1-Rep	TO-15	5.5 "Hg	2 psi
02B	ATMT-VP-1-Rep	TO-15	5.5 "Hg	2 psi
03A	ATMT-VP-2	TO-15	4.0 "Hg	2 psi
03B	ATMT-VP-2	TO-15	4.0 "Hg	2 psi
04A	Lab Blank	TO-15	NA	NA
04B	Lab Blank	TO-15	NA	NA
05A	CCV	TO-15	NA	NA
05B	CCV	TO-15	NA	NA
06A	LCS	TO-15	NA	NA
06AA	LCSD	TO-15	NA	NA
06B	LCS	TO-15	NA	NA
06BB	LCSD	TO-15	NA	NA

CERTIFIED BY: 

 Technical Director

DATE: 12/13/24

Cert. No.: AZ Licensure-AZ0775, FL NELAP-E87680, LA NELAP-02089, MN NELAP-2703122, NH NELAP-209223-B, NJ NELAP-CA016, NY NELAP-11291, TX NELAP-T104704434, UT NELAP-CA009332023-16, VA NELAP-12695, WA NELAP-C935
 Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program) CA300005-20
 Eurofins Environment Testing Northern California, LLC certifies that the test results contained in this report meet all requirements of the 2016 TNI Standard.

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, LLC.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
 (916) 985-1000

LABORATORY NARRATIVE
EPA Method TO-15 (Hybrid)
Eastern Research Group (ERG)
Workorder# 2411741

Three 6 Liter Summa Canister (100% Certified) samples were received on November 26, 2024. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the Full Scan and SIM acquisition modes.

Receiving Notes

Sample identification for samples ATMT-VP-1, ATMT-VP-1-Rep and ATMT-VP-2 were not provided on the sample tag. Therefore the information on the Chain of Custody was used to process and report the sample.

Analytical Notes

The results for each sample in this report were acquired from two separate data files originating from the same analytical run. The two data files have the same base file name and are differentiated with a "sim" extension on the SIM data file.

Total Xylenes concentration is calculated by summing the individual concentrations of m,p-Xylene and O-Xylene.

As per client project requirements, the laboratory has reported estimated values for target compound hits that are below the Reporting Limit but greater than the Method Detection Limit. Concentrations that are below the level at which the canister was certified may be false positives.

Definition of Data Qualifying Flags

Ten qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

M - Reported value may be biased due to apparent matrix interferences.

CN - See Case Narrative.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

EPA METHOD TO-15 GC/MS FULL SCAN
2450 Altamont Dr

Client ID:	ATMT-VP-1	Date/Time Analyzed:	12/12/24 07:18 PM
Lab ID:	2411741-01A	Dilution Factor:	1.39
Date/Time Collected:	11/20/24 11:00 AM	Instrument/Filename:	msd3.i / 3121217
Media:	6 Liter Summa Canister (100% Certified)		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
m,p-Xylene	108-38-3	1.1	2.7	6.0	1.3 J
o-Xylene	95-47-6	1.0	2.7	3.0	Not Detected
Toluene	108-88-3	0.58	2.4	5.2	Not Detected
Total Xylene	1330-20-7	NA	D	9.0	Not Detected

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	95
4-Bromofluorobenzene	460-00-4	70-130	93
Toluene-d8	2037-26-5	70-130	100

EPA METHOD TO-15 GC/MS FULL SCAN
2450 Altamont Dr

Client ID:	ATMT-VP-1	Date/Time Analyzed:	12/12/24 07:18 PM
Lab ID:	2411741-01B	Dilution Factor:	1.39
Date/Time Collected:	11/20/24 11:00 AM	Instrument/Filename:	msd3.i / 3121217sim
Media:	6 Liter Summa Canister (100% Certified)		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	71-43-2	0.068	0.18	0.89	0.48 J
Ethyl Benzene	100-41-4	0.061	0.24	1.2	0.26 J
Naphthalene	91-20-3	0.11	0.26	1.4	Not Detected

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	94
4-Bromofluorobenzene	460-00-4	70-130	97
Toluene-d8	2037-26-5	70-130	100

EPA METHOD TO-15 GC/MS FULL SCAN
2450 Altamont Dr

Client ID:	ATMT-VP-1-Rep	Date/Time Analyzed:	12/12/24 07:46 PM
Lab ID:	2411741-02A	Dilution Factor:	1.39
Date/Time Collected:	11/20/24 11:00 AM	Instrument/Filename:	msd3.i / 3121218
Media:	6 Liter Summa Canister (100% Certified)		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
m,p-Xylene	108-38-3	1.1	2.7	6.0	Not Detected
o-Xylene	95-47-6	1.0	2.7	3.0	Not Detected
Toluene	108-88-3	0.58	2.4	5.2	Not Detected
Total Xylene	1330-20-7	NA	D	9.0	Not Detected

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	91
4-Bromofluorobenzene	460-00-4	70-130	94
Toluene-d8	2037-26-5	70-130	102

EPA METHOD TO-15 GC/MS FULL SCAN
2450 Altamont Dr

Client ID:	ATMT-VP-1-Rep	Date/Time Analyzed:	12/12/24 07:46 PM
Lab ID:	2411741-02B	Dilution Factor:	1.39
Date/Time Collected:	11/20/24 11:00 AM	Instrument/Filename:	msd3.i / 3121218sim
Media:	6 Liter Summa Canister (100% Certified)		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	71-43-2	0.068	0.18	0.89	0.35 J
Ethyl Benzene	100-41-4	0.061	0.24	1.2	0.27 J
Naphthalene	91-20-3	0.11	0.26	1.4	Not Detected

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	94
4-Bromofluorobenzene	460-00-4	70-130	97
Toluene-d8	2037-26-5	70-130	101

EPA METHOD TO-15 GC/MS FULL SCAN
2450 Altamont Dr

Client ID:	ATMT-VP-2	Date/Time Analyzed:	12/12/24 08:14 PM
Lab ID:	2411741-03A	Dilution Factor:	1.31
Date/Time Collected:	11/20/24 11:00 AM	Instrument/Filename:	msd3.i / 3121219
Media:	6 Liter Summa Canister (100% Certified)		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
m,p-Xylene	108-38-3	1.0	2.6	5.7	1.4 J
o-Xylene	95-47-6	1.0	2.6	2.8	Not Detected
Toluene	108-88-3	0.54	2.2	4.9	1.1 J
Total Xylene	1330-20-7	NA	D	8.5	Not Detected

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	94
4-Bromofluorobenzene	460-00-4	70-130	96
Toluene-d8	2037-26-5	70-130	100

EPA METHOD TO-15 GC/MS FULL SCAN
2450 Altamont Dr

Client ID:	ATMT-VP-2	Date/Time Analyzed:	12/12/24 08:14 PM
Lab ID:	2411741-03B	Dilution Factor:	1.31
Date/Time Collected:	11/20/24 11:00 AM	Instrument/Filename:	msd3.i / 3121219sim
Media:	6 Liter Summa Canister (100% Certified)		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	71-43-2	0.064	0.17	0.84	0.70 J
Ethyl Benzene	100-41-4	0.057	0.23	1.1	0.33 J
Naphthalene	91-20-3	0.10	0.24	1.4	Not Detected

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	93
4-Bromofluorobenzene	460-00-4	70-130	98
Toluene-d8	2037-26-5	70-130	100

EPA METHOD TO-15 GC/MS FULL SCAN
2450 Altamont Dr

Client ID:	Lab Blank	Date/Time Analyzed:	12/12/24 01:06 PM
Lab ID:	2411741-04A	Dilution Factor:	1.00
Date/Time Collected:	NA - Not Applicable	Instrument/Filename:	msd3.i / 3121207c
Media:	NA - Not Applicable		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
m,p-Xylene	108-38-3	0.78	2.0	4.3	Not Detected
o-Xylene	95-47-6	0.76	2.0	2.2	Not Detected
Toluene	108-88-3	0.41	1.7	3.8	Not Detected
Total Xylene	1330-20-7	NA	D	6.5	Not Detected

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	88
4-Bromofluorobenzene	460-00-4	70-130	96
Toluene-d8	2037-26-5	70-130	101

EPA METHOD TO-15 GC/MS FULL SCAN
2450 Altamont Dr

Client ID:	Lab Blank	Date/Time Analyzed:	12/12/24 01:06 PM
Lab ID:	2411741-04B	Dilution Factor:	1.00
Date/Time Collected:	NA - Not Applicable	Instrument/Filename:	msd3.i / 3121207simc
Media:	NA - Not Applicable		

Compound	CAS#	MDL (ug/m3)	LOD (ug/m3)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	71-43-2	0.049	0.13	0.64	Not Detected
Ethyl Benzene	100-41-4	0.044	0.17	0.87	0.053 J
Naphthalene	91-20-3	0.077	0.18	1.0	Not Detected

J = Estimated value.

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	90
4-Bromofluorobenzene	460-00-4	70-130	100
Toluene-d8	2037-26-5	70-130	100

EPA METHOD TO-15 GC/MS FULL SCAN
2450 Altamont Dr

Client ID:	CCV	Date/Time Analyzed:	12/12/24 11:22 AM
Lab ID:	2411741-05A	Dilution Factor:	1.00
Date/Time Collected:	NA - Not Applicable	Instrument/Filename:	msd3.i / 3121203
Media:	NA - Not Applicable		

Compound	CAS#	%Recovery
m,p-Xylene	108-38-3	95
o-Xylene	95-47-6	100
Toluene	108-88-3	101
Total Xylene	1330-20-7	98

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	95
4-Bromofluorobenzene	460-00-4	70-130	100
Toluene-d8	2037-26-5	70-130	102

EPA METHOD TO-15 GC/MS FULL SCAN
2450 Altamont Dr

Client ID:	CCV	Date/Time Analyzed:	12/12/24 11:22 AM
Lab ID:	2411741-05B	Dilution Factor:	1.00
Date/Time Collected:	NA - Not Applicable	Instrument/Filename:	msd3.i / 3121203sim
Media:	NA - Not Applicable		

Compound	CAS#	%Recovery
Benzene	71-43-2	100
Ethyl Benzene	100-41-4	96
Naphthalene	91-20-3	102

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	95
4-Bromofluorobenzene	460-00-4	70-130	101
Toluene-d8	2037-26-5	70-130	100

EPA METHOD TO-15 GC/MS FULL SCAN
2450 Altamont Dr

Client ID:	LCS	Date/Time Analyzed:	12/12/24 11:47 AM
Lab ID:	2411741-06A	Dilution Factor:	1.00
Date/Time Collected:	NA - Not Applicable	Instrument/Filename:	msd3.i / 3121204
Media:	NA - Not Applicable		

Compound	CAS#	%Recovery
m,p-Xylene	108-38-3	96
o-Xylene	95-47-6	96
Toluene	108-88-3	99
Total Xylene	1330-20-7	96

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	92
4-Bromofluorobenzene	460-00-4	70-130	97
Toluene-d8	2037-26-5	70-130	102

* % Recovery is calculated using unrounded analytical results.

EPA METHOD TO-15 GC/MS FULL SCAN
2450 Altamont Dr

Client ID:	LCSD	Date/Time Analyzed:	12/12/24 12:13 PM
Lab ID:	2411741-06AA	Dilution Factor:	1.00
Date/Time Collected:	NA - Not Applicable	Instrument/Filename:	msd3.i / 3121205
Media:	NA - Not Applicable		

Compound	CAS#	%Recovery
m,p-Xylene	108-38-3	93
o-Xylene	95-47-6	97
Toluene	108-88-3	98
Total Xylene	1330-20-7	95

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	92
4-Bromofluorobenzene	460-00-4	70-130	98
Toluene-d8	2037-26-5	70-130	100

* % Recovery is calculated using unrounded analytical results.

EPA METHOD TO-15 GC/MS FULL SCAN
2450 Altamont Dr

Client ID:	LCS	Date/Time Analyzed:	12/12/24 11:47 AM
Lab ID:	2411741-06B	Dilution Factor:	1.00
Date/Time Collected:	NA - Not Applicable	Instrument/Filename:	msd3.i / 3121204sim
Media:	NA - Not Applicable		

Compound	CAS#	%Recovery
Benzene	71-43-2	101
Ethyl Benzene	100-41-4	97
Naphthalene	91-20-3	118

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	92
4-Bromofluorobenzene	460-00-4	70-130	102
Toluene-d8	2037-26-5	70-130	100

* % Recovery is calculated using unrounded analytical results.

EPA METHOD TO-15 GC/MS FULL SCAN
2450 Altamont Dr

Client ID:	LCSD	Date/Time Analyzed:	12/12/24 12:13 PM
Lab ID:	2411741-06BB	Dilution Factor:	1.00
Date/Time Collected:	NA - Not Applicable	Instrument/Filename:	msd3.i / 3121205sim
Media:	NA - Not Applicable		

Compound	CAS#	%Recovery
Benzene	71-43-2	102
Ethyl Benzene	100-41-4	96
Naphthalene	91-20-3	122

D: Analyte not within the DoD scope of accreditation.

Surrogates	CAS#	Limits	%Recovery
1,2-Dichloroethane-d4	17060-07-0	70-130	91
4-Bromofluorobenzene	460-00-4	70-130	100
Toluene-d8	2037-26-5	70-130	98

* % Recovery is calculated using unrounded analytical results.

Method : TO-15 (Hybrid) (Sp)-BTEX & Naph (Total Xylenes)

CAS Number	Compound	Rpt. Limit (ppbv)
71-43-2	Benzene	0.20
108-88-3	Toluene	1.0
100-41-4	Ethyl Benzene	0.20
108-38-3	m,p-Xylene	1.0
95-47-6	o-Xylene	0.50
91-20-3	Naphthalene	0.20
1330-20-7	Total Xylene	1.5

	Surrogate	Method Limits
2037-26-5	Toluene-d8	70-130
17060-07-0	1,2-Dichloroethane-d4	70-130
460-00-4	4-Bromofluorobenzene	70-130

**Appendix E –
Boring & Well Logs and Groundwater Sampling Forms**

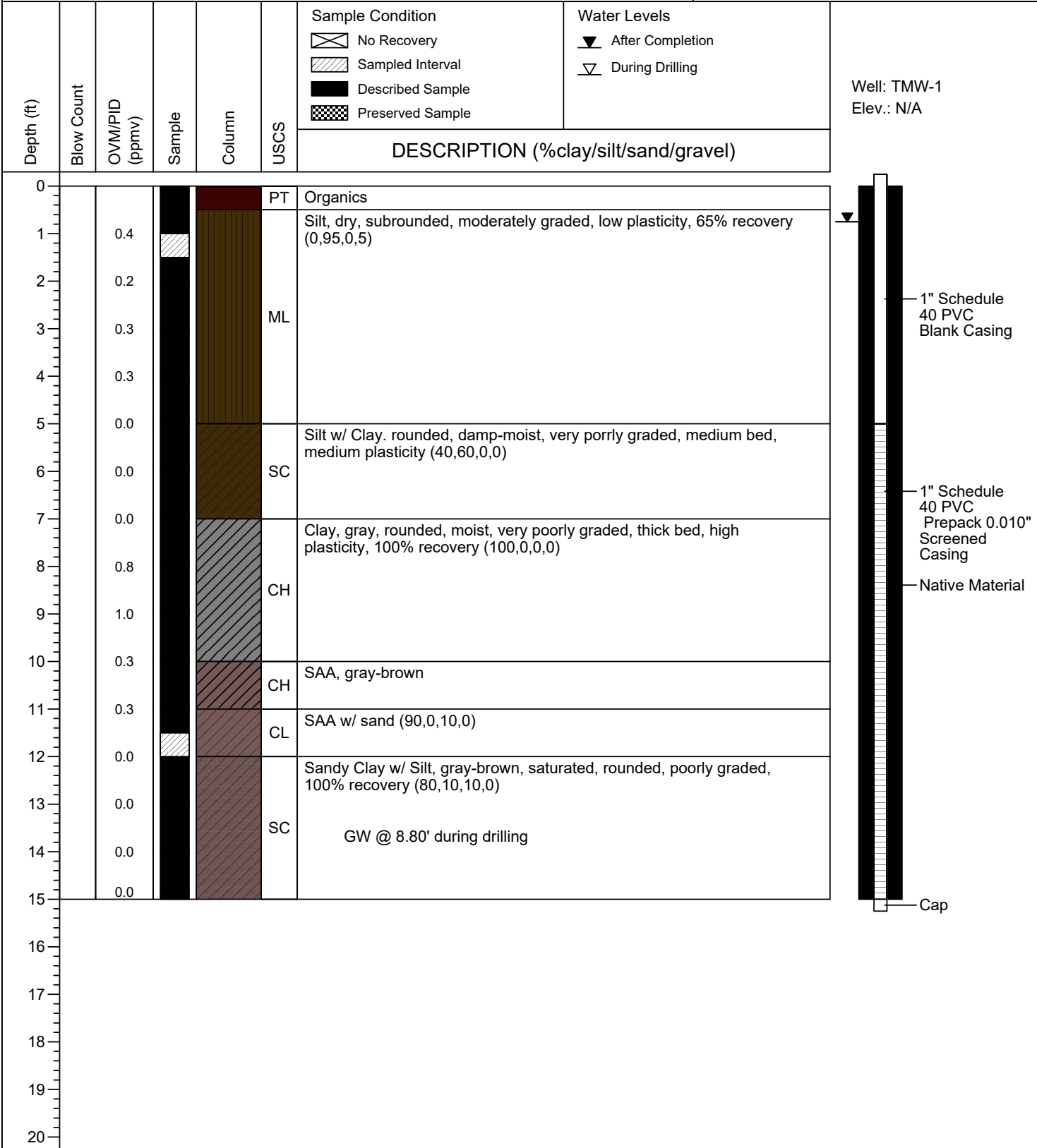


Temp. Monitoring Well TMW-1

(Page 1 of 1)

Date Drilled: : 11/18/2024
 Drilling Co.: : Holt
 Drilling Method: : Direct Push
 Sampling Method: : Continuous Core
 Borehole Diameter: : 2"
 Casing Diameter: : 1"
 Total Depth: : 15'
 First GW Depth: : 8.80'
 IDWR Well ID: : N/A

Project No.: : 22136.090
 Site: : Klamath Falls, OR
 Logged By: : Brady Brantley
 Reviewed By: :
 Signature: : _____



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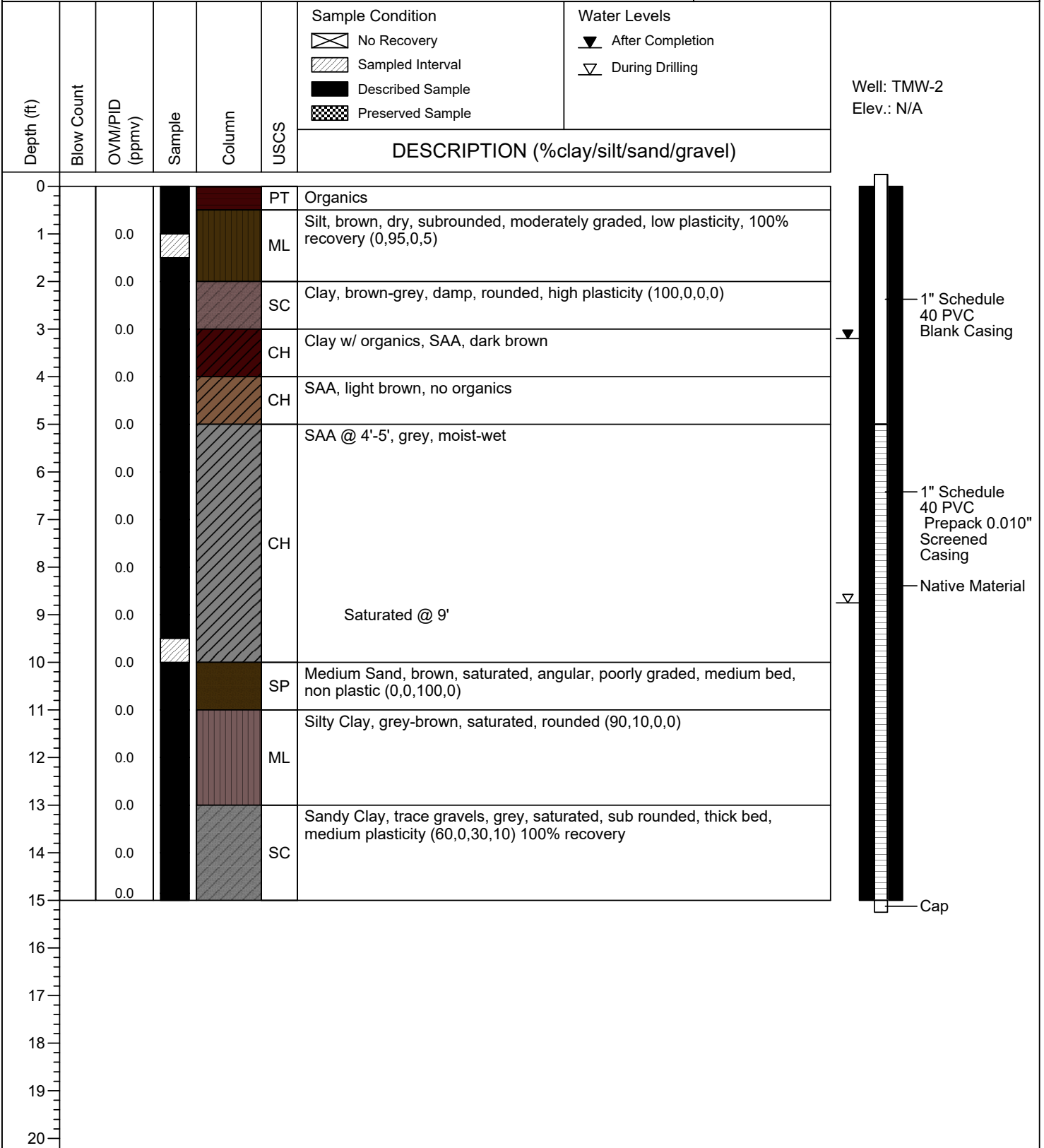


Temp. Monitoring Well TMW-2

(Page 1 of 1)

Date Drilled: : 11/18/2024
 Drilling Co.: : Holt
 Drilling Method: : Direct Push
 Sampling Method: : Continuous Core
 Borehole Diameter: : 2"
 Casing Diameter: : 1"
 Total Depth: : 15'
 First GW Depth: : 9.0'
 IDWR Well ID: : N/A

Project No.: : 22136.090
 Site: : Klamath Falls, OR
 Logged By: : Brady Brantley
 Reviewed By: :
 Signature: : _____



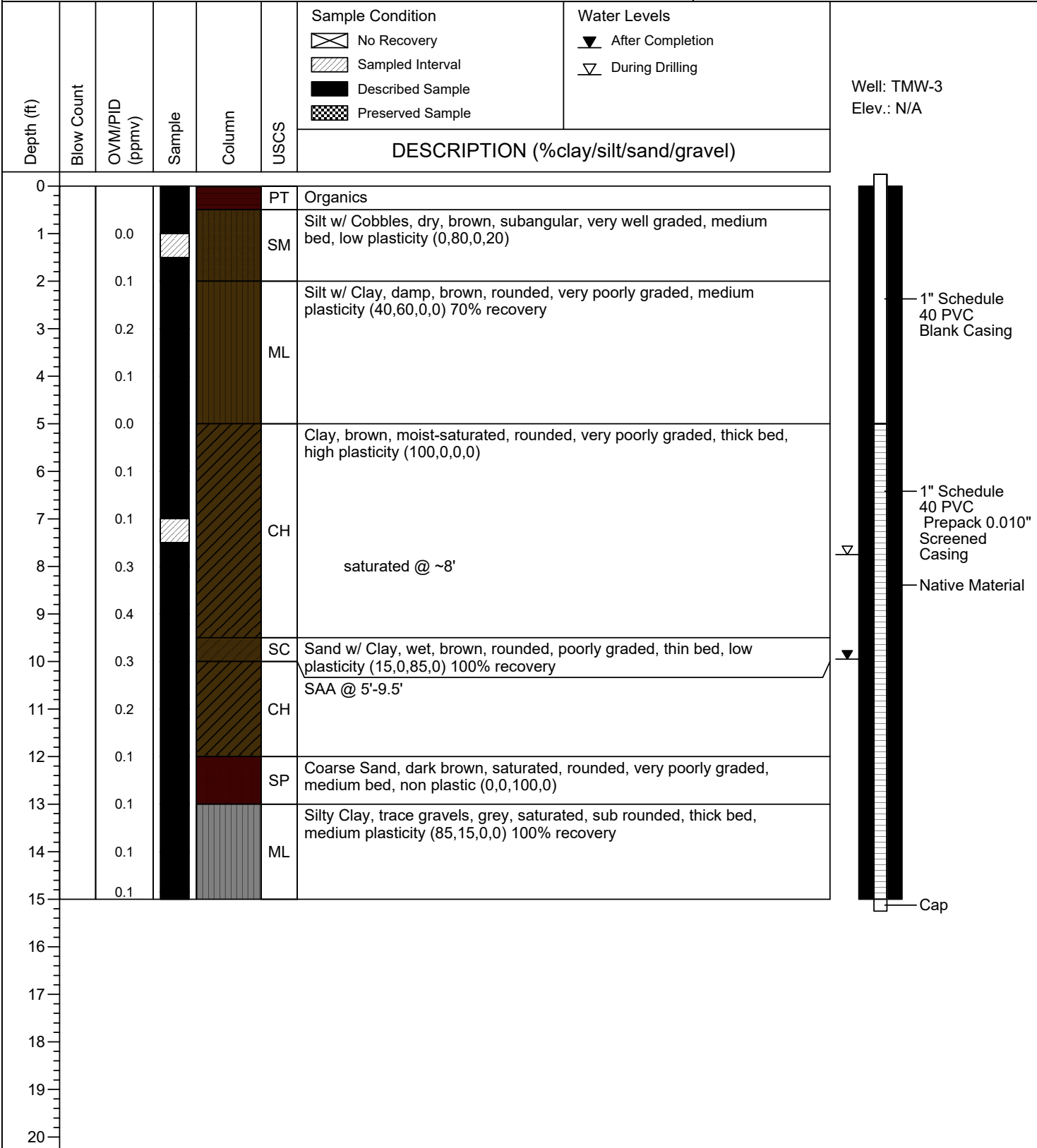


Temp. Monitoring Well TMW-3

(Page 1 of 1)

Date Drilled: : 11/18/2024
 Drilling Co.: : Holt
 Drilling Method: : Direct Push
 Sampling Method: : Continuous Core
 Borehole Diameter: : 2"
 Casing Diameter: : 1"
 Total Depth: : 15'
 First GW Depth: : 8.0'
 IDWR Well ID: : N/A

Project No.: : 22136.090
 Site: : Klamath Falls, OR
 Logged By: : Brady Brantley
 Reviewed By: :
 Signature: : _____



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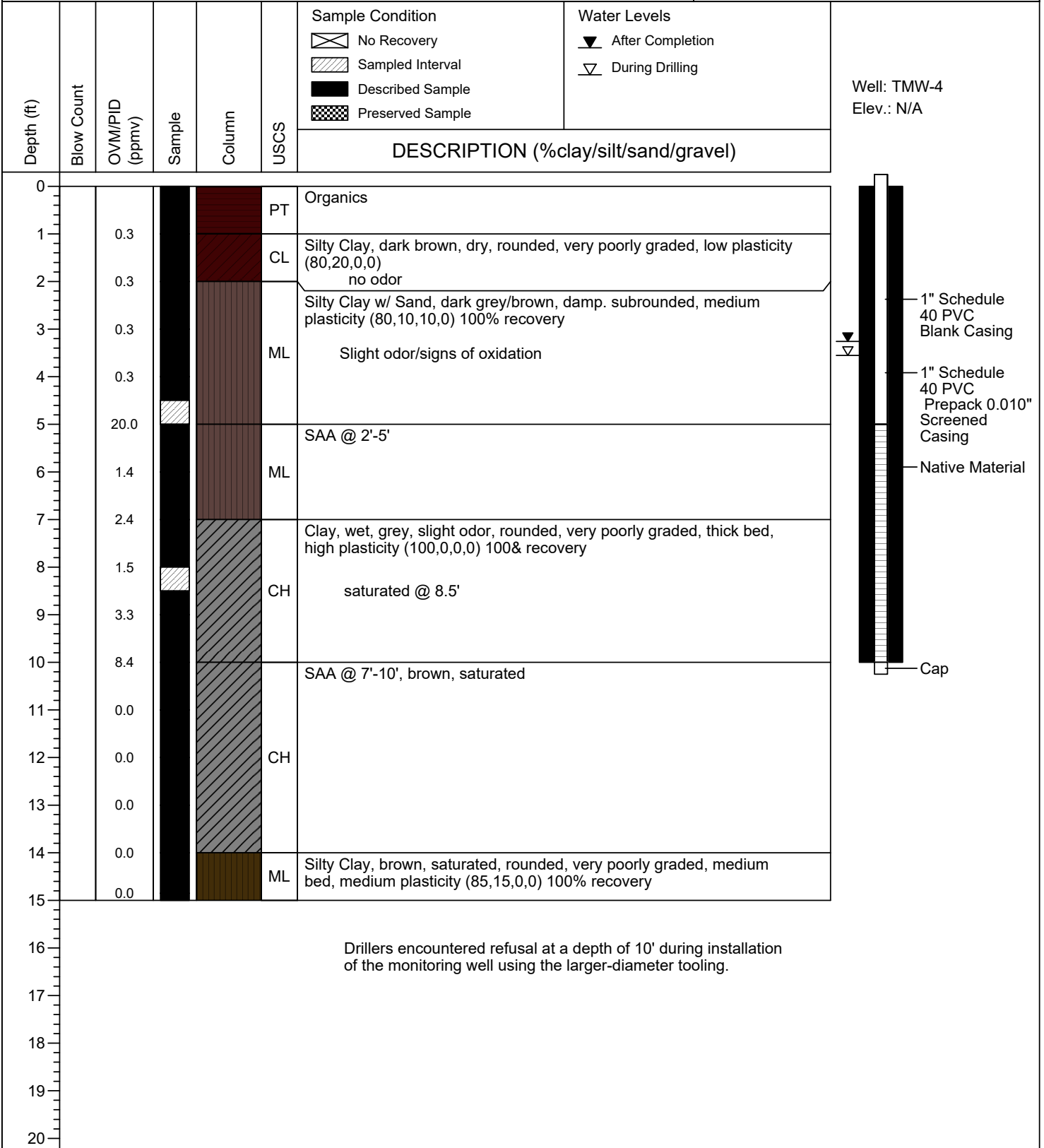


Temp. Monitoring Well TMW-4

(Page 1 of 1)

Date Drilled: : 11/19/2024
 Drilling Co.: : Holt
 Drilling Method: : Direct Push
 Sampling Method: : Continuous Core
 Borehole Diameter: : 2"
 Casing Diameter: : 1"
 Total Depth: : 15'
 First GW Depth: : 3.8'
 IDWR Well ID: : N/A

Project No.: : 22136.090
 Site: : Klamath Falls, OR
 Logged By: : Brady Brantley
 Reviewed By: :
 Signature: : _____



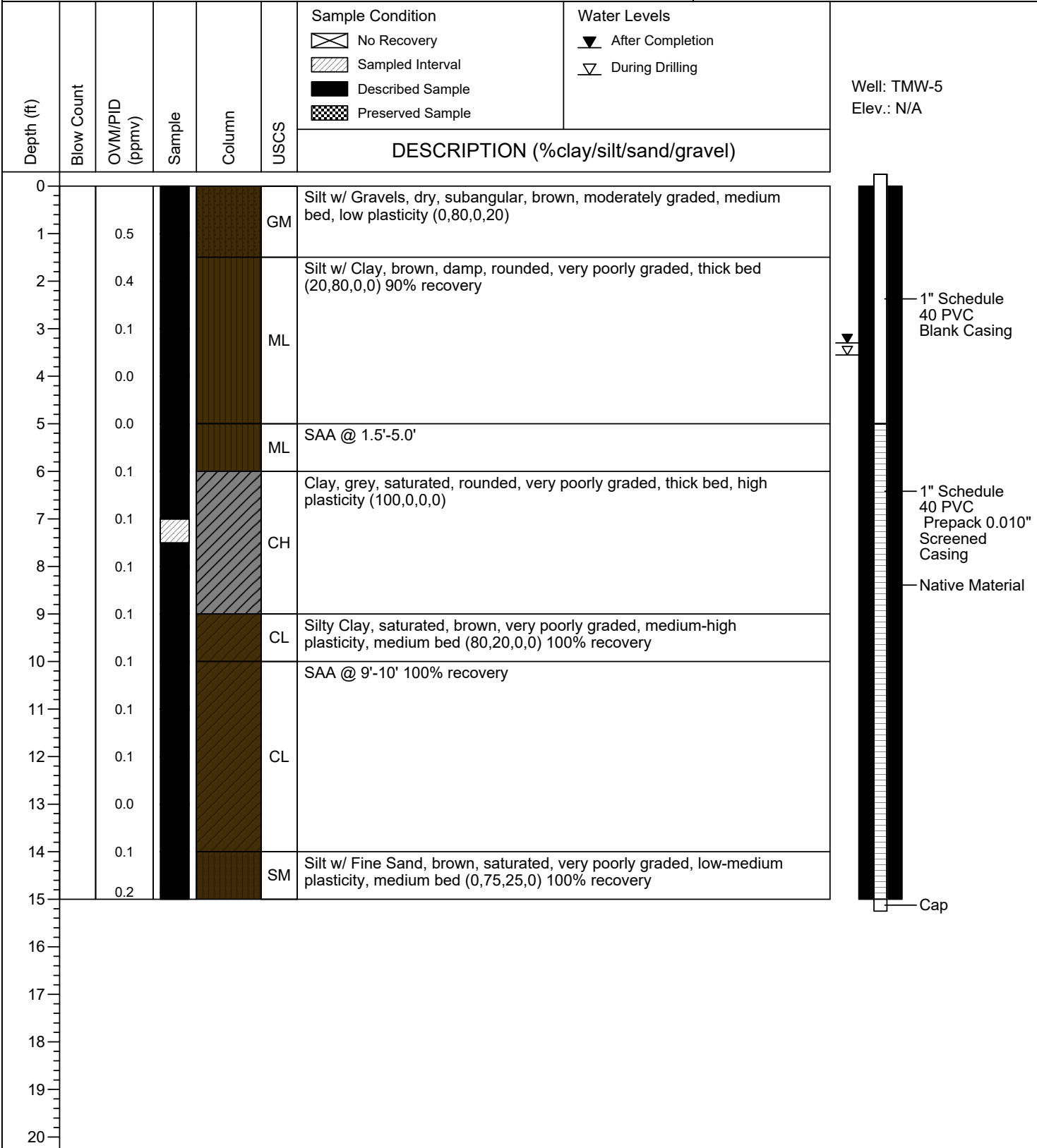


Temp. Monitoring Well TMW-5

(Page 1 of 1)

Date Drilled: : 11/19/2024
 Drilling Co.: : Holt
 Drilling Method: : Direct Push
 Sampling Method: : Continuous Core
 Borehole Diameter: : 2"
 Casing Diameter: : 1"
 Total Depth: : 15'
 First GW Depth: : 3.8'
 IDWR Well ID: : N/A

Project No.: : 22136.090
 Site: : Klamath Falls, OR
 Logged By: : Brady Brantley
 Reviewed By: :
 Signature: : _____



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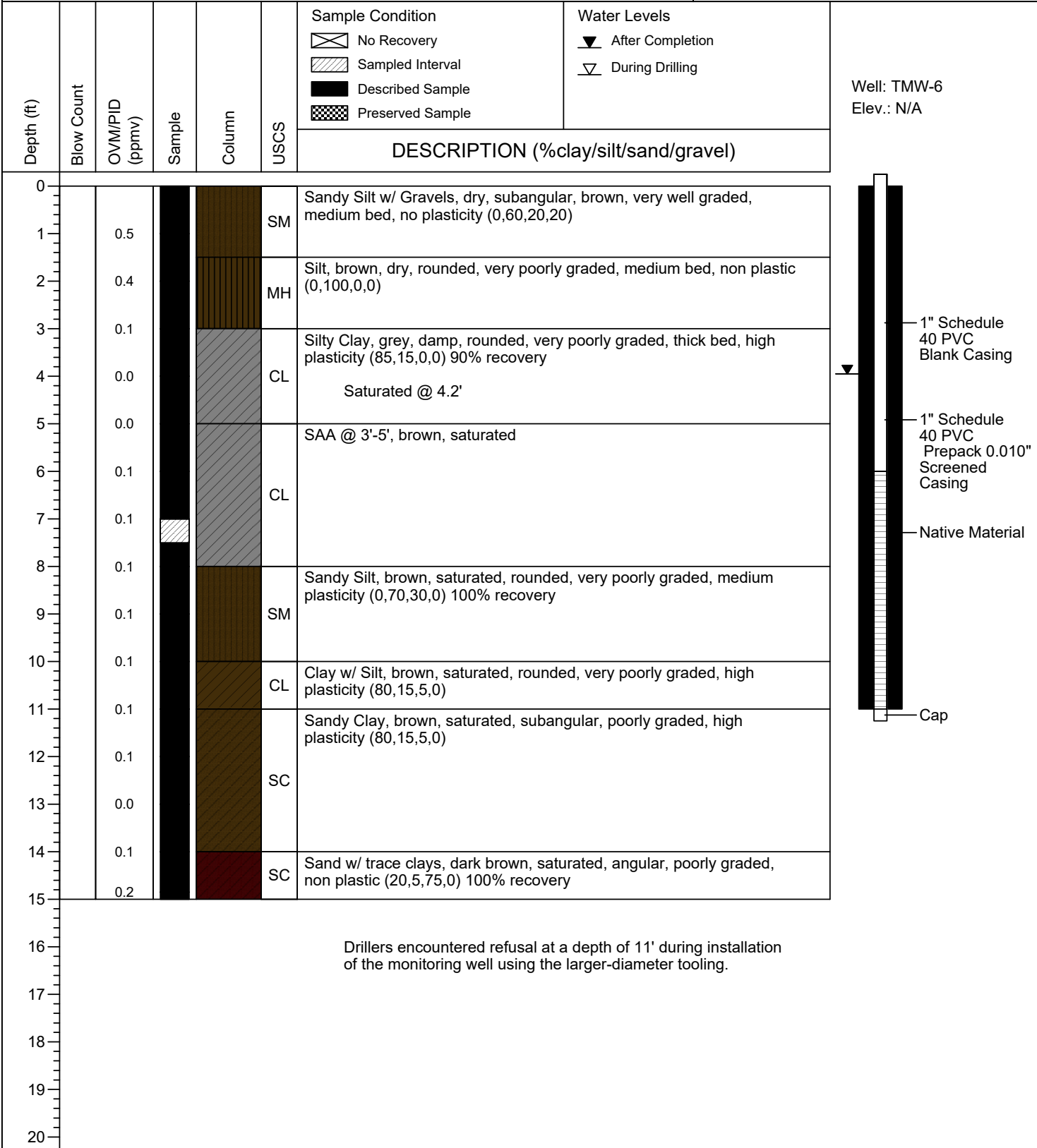


Temp. Monitoring Well TMW-6

(Page 1 of 1)

Date Drilled: : 11/19/2024
 Drilling Co.: : Holt
 Drilling Method: : Direct Push
 Sampling Method: : Continuous Core
 Borehole Diameter: : 2"
 Casing Diameter: : 1"
 Total Depth: : 15'
 First GW Depth: : 4.2'
 IDWR Well ID: : N/A

Project No.: : 22136.090
 Site: : Klamath Falls, OR
 Logged By: : Brady Brantley
 Reviewed By: :
 Signature: : _____



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**Appendix F –
QA/QC Memorandum**

INTERNAL MEMORANDUM

To: Sarah Weppner, Program Manager
From: Allison Marshall, Quality Assurance Officer
Rachel Gibeault, Data Validator
Date: January 23, 2025
Contract No./Title: Regional 10 Targeted Brownfields Assessment
Alta Project No.: 22136.090
Subject: **QA/QC Review of the November 2024 Phase II Site Assessment –
2450 Altamont Drive, Klamath Falls, OR**

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 November 2024 at 2450 Altamont Drive located in Klamath Falls, OR. These sampling efforts included:

- Groundwater sampling: November 18-20, 2024.
- Soil grab sampling from soil borings: November 18-19, 2024.
- Soil composite sampling from driplines: November 18, 2024.
- Soil vapor sampling: November 20, 2024.

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 – 2450 Altamont Drive, Klamath Falls, OR* (ERG 2024), hereinafter referred to as the QAPP.
- *National Functional Guidelines for Inorganic Superfund Methods Data Review* (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^a Data Validation Summary Conducted by Alta

Laboratory ^b	SDG	Matrix	COCs ^c	NFG Guidance ^d
Pace TN	L1804697 & L1803636	Groundwater	Total lead	Inorganic: AES
			VOCs	Organic: Volatiles
			PAHs	Organic: Semivolatiles
			TPHs	Organic: Volatiles and Semivolatiles
Pace MN	L1803418		PFAS	Organic and Inorganic
Pace TN	L1803661 & L1803680	Grab subsurface soil	Total lead	Inorganic: AES
			VOCs	Organic: Volatiles
			PAHs	Organic: Semivolatiles
			TPHs	Organic: Volatiles and Semivolatiles
Pace MN	L1803414		PFAS	Organic and Inorganic
Pace TN	L1803551	Composite dripline soil	Total lead	Inorganic: AES
Eurofins	2411741	Soil Vapor	VOCs	NFG Organic: Volatiles

Footnotes:^a Data validation level based on EPA 2009.^b Pace TN = Pace National Analytical Laboratory, Inc. in Mt. Juliet, TN.

Pace MN = Pace Analytical Services, LLC in Minneapolis, MN.

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

^c Constituents of concern (COCs) included:

- Total lead in groundwater and soil analyzed using EPA Method 6010B (EPA 1996c).
- 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 U.S. Environmental Protection Agency (EPA) Method 8260D (EPA 2018a).
- 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).
- Per- and polyfluoroalkyl substances (PFAS) including, but not limited to: PFOA, PFBS, PFHxS, PFNA, GenX, PFPrA, PFBA, PFHxA, PFUFA, PFDoDA, PFTetDA, PFADA analyzed using EPA Method 1633 (EPA 2024c). *Note there is not a specific NFG solely dedicated to PFAS within the EPA Contract Laboratory Program. However, Alta utilized the above referenced NFGs along with EPA Method 1633 to assess PFAS in the project samples. More specifically, Alta used the NFG-Organic for guidance on quality control, data validation, and method performance and the NFG-Inorganic for certain PFAS precursors or transformation products.*

^d Data qualifications applied per National Functional Guidelines (NFG) 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? ^a	Acceptable Performance? ^b	Data Qualified?	Discussion Item Number
General Data Review				
Sample condition upon receipt at laboratory	--	Y	N	
Preservation (temperature and in-field preservative, if applicable)	--	N	Y	1
Laboratory followed specified analytical methods, preparation methods, and shows analysis dates	--	Y	N	
Holding times	--	N	Y	2
Requested target analyte results are reported with lab qualifiers and units	--	Y	N	
Sensitivity Assessment				
Requested reporting limits are present	--	N	N	3
Field parameter stabilization	Y	Y	N	
Method Blanks	Y	N	Y	4
Trip Blanks	Y	N	N	5
Rinsate Blanks	Y	Y	N	
Field Blanks (for PFAS analysis only)	Y	Y	N	
Accuracy Assessment				
Surrogate %Recoveries / Deuterated Monitoring Compounds %Recoveries	Y	N	N	6
Laboratory Control Sample (LCS) %Recoveries	Y	N	Y	7
Matrix Spike (MS) %Recoveries	Y	N	Y	8

Table 2. Data Quality Review Summary for Groundwater

Data Validation Procedure or Check	Acceptable Frequency? ^a	Acceptable Performance? ^b	Data Qualified?	Discussion Item Number
Precision Assessment				
Laboratory Control Sample Duplicate (LCSD) RPDs	N	Y	N	7
Site-specific Matrix Spike Duplicate (MSD) RPDs ^c	Y	N	Y	8
Field Duplicate (Table 3) RPDs	Y	N	Y	9

^a Frequencies as defined in the QAPP (ERG 2024).

^b As defined in the QAPP (ERG 2024) or based on professional judgment of the data validator.

^c 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

RPD = relative percent difference

Discussion Item

1. **Preservation (temperature):** Due to a shipping carrier delay, one of the three sample coolers containing groundwater samples (SDG L1804697) was delivered to the laboratory outside the temperature range specified in the QAPP (0°C-6°C) with a recorded temperature of 18.1°C upon receipt at the laboratory. Therefore, the Alta data validator and Quality Assurance Officer (QAO) will qualify the associated groundwater data for samples ATMT-TMW-1 through -TMW-4 as follows:
 - a. For organic analytes (volatile organic compounds [VOCs], polycyclic aromatic hydrocarbons (PAHs), total petroleum hydrocarbons as gasoline range organics (TPH-GRO), and total petroleum hydrocarbons as diesel range organics [TPH-DRO]), based on the NFG-Organics: Volatiles and Semivolatiles and professional judgment, concentrations greater than the method detection limit (MDL) are qualified as estimates (J) and concentrations less than the MDL are qualified as non-detect estimates (UJ).
 - b. For lead analysis, there are no temperature requirements for properly preserved aqueous samples. None of the samples submitted for analysis of per- and polyfluoroalkyl substances (PFAS) were included in the affected cooler. Therefore, no qualifications are necessary.
2. **Holding times:** Most samples met their respective analytical methods' holding times except for the following analytes in certain samples:
 - a. Due to the shipping delay noted in Discussion Item #1, the 7-day holding time for sample extraction/analysis for PAHs was exceeded in samples ATMT-TMW-1 through -TMW-4. Therefore:
 - i. Concentrations of PAHs greater than the MDL in these samples were qualified as estimates (J) due to the temperature exceedance noted in Discussion Item #1 and therefore, no additional qualifications are necessary.
 - ii. For the associated sample results where PAHs were not detected above the MDL, the Alta data validator compared the MDLs to the applicable regulatory standards (i.e., screening levels [SLs]). The MDLs for most of the associated results are at least one order of

magnitude below their respective SLs. Notably, the MDLs for benzo(a)anthracene and dibenz(a,h)anthracene were less than one order of magnitude below the respective EPA Regional Screening Levels (RSLs) for Resident Tapwater and the Oregon Department of Environmental Quality (DEQ) Risk-Based Concentrations (RBCs) for Residential Tapwater. However, the MDLs for these analytes are greater than one order of magnitude below the respective DEQ RBCs for Groundwater in Excavation and the DEQ RBC for Occupational Tapwater. Therefore, based on professional judgment, these results do not require further qualification above the non-detect estimate (UJ) qualification noted in Discussion Item #1.

- b. In sample ATMT-TMW-4 (SDG L1804697), the concentrations of benzene and ethylbenzene exceeded the instrument calibration range and were subsequently diluted and re-analyzed 16 days after the collection date, which exceeds the QAPP guidelines of 14 days. As mentioned in Discussion Item #1, these analytes are already qualified as estimates (J) and no further qualifications are necessary.
3. **Requested reporting limits are present:** The requested MDLs and reporting limits (RLs) are present except for 1,2-dibromoethane (EDB), naphthalene, HFPO-DA, PFOS, and PFOA in certain samples. 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 (or RLs for PFAS) are less than the lowest applicable SL and therefore, sensitivity is not a concern except for the following instances:
 - a. EDB and HFPO-DA: the MDLs and/or RLs exceed the respective EPA Maximum Contaminant Levels (MCLs) in certain samples. EDB and HFPO-DA were not detected in any groundwater samples; therefore, there is no indication that these analytes are present in groundwater at the site.
 - b. Naphthalene (analyzed using EPA Method 8260D): the MDL and RL exceed the EPA RSL for Resident Tapwater in all samples. In these 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.
 - c. PFOA and PFOS: the RLs exceed their respective MCLs in certain samples; however, these analytes were detected at concentrations greater than the RLs in the associated samples and therefore, sensitivity is not a concern.
4. **Method blanks:** The laboratory analyzed a method blank for each analytical method, which meets QAPP guidelines. Certain analytes were detected in the method blanks as summarized below:
 - a. In SDG L1803636, TPH-GRO, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene were detected in method blanks at concentrations above the MDLs but below the RLs. Associated field samples are those samples that were analyzed in the same batch, which includes samples ATMT-TMW-5, ATMT-TMW-6, and the rinsate blank. Based on the NFG-Organics: Volatiles and Semivolatiles and professional judgment, the Alta data validator and 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).
5. **Trip blanks:** No analytes were detected in either of the trip blanks submitted for analysis with the groundwater samples. However, the laboratory noted that the continuing calibration standards responded low for analysis of naphthalene and isopropylbenzene in the trip blank analyzed in SDG L180636. Therefore, the concentrations of isopropylbenzene and naphthalene, which were not detected above the MDL, were qualified as non-detect estimated (UJ) in the trip blank sample. No field samples were qualified.
6. **Surrogate %Recoveries / Deuterated Monitoring Compounds %Recoveries:** The laboratory analyzed surrogates or deuterated monitoring compounds (DMCs) for all volatile, semivolatile, and PFAS analytes, which meets QAPP requirements. Most %Recoveries were within acceptable ranges except for the following instance:
 - a. For EPA Method 1633 (SDG L1803418), the %Recoveries in the surrogates 13C26:2FTS and 13C28:2FTS were greater than the laboratory acceptance limit in the laboratory control sample (LCS). However, surrogate %Recoveries do not require qualification if outside acceptable limits in QC samples such as method blanks or LCS/laboratory control sample duplicate (LCSD) pairs.
7. **Laboratory Control Sample (LCS)/Laboratory Control Sample Duplicate (LCSD) Pairs:**
 - a. **Frequency Assessment:** The laboratory analyzed an LCS/LCSD pair for most analytical methods except for Method NWTPHGX and EPA Method 6010B. However, the QAPP states that an LCSD or MSD can be used to evaluate precision. All analytical methods listed above had a Site-specific MS/MSD pair; therefore, no qualifications are necessary based on LCS/LCSD frequency.
 - b. **%Recoveries (Accuracy Assessment):** All LCS %Recoveries were within acceptable laboratory limits except for EPA Method 8260D in SDG L1803636, where the naphthalene %Recovery was below the lower limit. Associated field samples are samples that were analyzed in the same batch (trip blank). Based on the NFG-Organics: Volatiles and professional judgment, the Alta data validator and QAO applied the following actions to the associated field samples:
 - i. Concentrations less than the MDL are qualified as non-detect estimates (UJ).
 - ii. Concentrations greater than the MDL are qualified as estimates (J).
 - c. **Relative Percent Differences (RPDs) (Precision Assessment):** All LCSD RPDs were within acceptable ranges.
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 as follows:
 - i. From 6 groundwater samples analyzed for TPH-GRO, TPH-DRO, VOCs, PAHs, and lead, 1 MS/MSD sample was collected, which meets the QAPP guidance of 1:20.
 - ii. From 3 groundwater samples analyzed for PFAS, 1 MS/MSD sample was collected, which meets the QAPP guidance of 1:20.
 - b. **%Recoveries (Accuracy Assessment):** Most %Recoveries were within acceptable laboratory limits except for the following analytical methods:

Table 3. Field Duplicate Sample Analysis - Groundwater Samples

Sample Date	Analyte	Original Concentration (mg/L)		Duplicate Concentration (mg/L)		RPD
	Sample ID	ATMT-TMW-2		ATMT-TMW-2-DUP		
11/18/2024	EPA Method 6010B					
	LEAD	0.00308	J	0.00299	U	NC
	EPA Method 8260D					
	BENZENE	0.0000941	UJ	0.0000941	UJ	NC
	1,2-DIBROMOETHANE	0.000126	UJ	0.000126	UJ	NC
	1,2-DICHLOROETHANE	0.0000819	UJ	0.0000819	UJ	NC
	ETHYLBENZENE	0.000137	UJ	0.000137	UJ	NC
	TOLUENE	0.000278	UJ	0.000278	UJ	NC
	XYLENES, TOTAL	0.000174	UJ	0.000174	UJ	NC
	METHYL TERT-BUTYL ETHER	0.000101	UJ	0.000101	UJ	NC
	NAPHTHALENE	0.00100	UJ	0.001	UJ	NC
	ISOPROPYLBENZENE	0.000105	UJ	0.000105	UJ	NC
	N-PROPYLBENZENE	0.0000993	UJ	0.0000993	UJ	NC
	1,2,4-TRIMETHYLBENZENE	0.000322	UJ	0.000322	UJ	NC
	1,3,5-TRIMETHYLBENZENE	0.000104	UJ	0.000104	UJ	NC
	EPA Method 8270C-SIM					
	ANTHRACENE	0.000019	UJ	0.000019	UJ	NC
	ACENAPHTHENE	0.000019	UJ	0.000019	UJ	NC
	BENZO(A)ANTHRACENE	0.0000203	UJ	0.0000203	UJ	NC
	BENZO(A)PYRENE	0.0000184	UJ	0.0000184	UJ	NC
	BENZO(B)FLUORANTHENE	0.0000168	UJ	0.0000168	UJ	NC
	BENZO(K)FLUORANTHENE	0.0000202	UJ	0.0000202	UJ	NC
	DIBENZ(A,H)ANTHRACENE	0.000016	UJ	0.000016	UJ	NC
	CHRYSENE	0.0000179	UJ	0.0000179	UJ	NC
	FLUORANTHENE	0.000027	UJ	0.000027	UJ	NC
	FLUORENE	0.0000169	UJ	0.0000169	UJ	NC
	INDENO(1,2,3-CD)PYRENE	0.0000158	UJ	0.0000158	UJ	NC
	NAPHTHALENE	0.0000917	UJ	0.0000917	UJ	NC
	PYRENE	0.0000169	UJ	0.0000169	UJ	NC
	NWTPHGX					
	TPHG C6 - C12	0.0843	J	0.0463	J	NC
	NWTPHDX-SGT					
	DIESEL RANGE ORGANICS	0.0667	UJ	0.0667	UJ	NC

Table 3. Field Duplicate Sample Analysis - Groundwater Samples

Sample Date	Analyte	Original Concentration (mg/L)	Duplicate Concentration (mg/L)	RPD
	Sample ID	ATMT-TMW-2	ATMT-TMW-2-DUP	
11/18/2024	EPA Method 1633 (in ng/L)			
	PFBS	12	10.1	17%
	PFDA	2.3	2	NC
	PFHxA	10.7	9	17%
	PFBA	5	4.3 U	NC
	PFHpS	18.7	14.5	25%
	PFNS	2.8	2.5	NC
	PFOSA	2.8	2.4	NC
	PFPeA	10.6	8	NC-P
	PFPeS	19.5	15	26%
	PFHpA	3.7	2.9	NC
	PFHxS	266 J	203 J	27%
	PFNA	4.8	3.8	NC
	PFOS	2800 J	2310 J	19%
PFOA	9	7.5	18%	

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.

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/L = milligrams per liter

ng/L = nanograms per liter

U = less than the reporting limit shown for EPA Method 1633 and less than the method detection limit for all other analytical methods

UJ = concentration is a non-detect estimate

J = concentration is an estimate

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 ^a	Acceptable Performance ^b	Data Qualified	Discussion Item Number
General Data Review				
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	
Sensitivity Assessment				
Requested reporting limits are present	--	N	N	1
Method blanks	Y	N	Y	2
Trip Blank	Y	Y	N	
Accuracy Assessment				
Surrogate %Recoveries/Deuterated Monitoring Compounds %Recoveries	Y	N	Y	3
Laboratory Control Sample (LCS) %Recoveries	Y	N	Y	4
Site-specific Matrix Spike (MS) %Recoveries ^c	N	N	Y	5
Precision Assessment				
Laboratory Control Sample Duplicate (LCSDs) RPDs	N	Y	N	4
Site-specific Matrix Spike Duplicate (MSD) RPD ^c	N	Y	N	5
Field Duplicate (Table 5) RPDs	Y	N	Y	6

^a Frequencies as defined in the QAPP (ERG 2024).

^b As defined in the QAPP (ERG 2024), or based on professional judgment of the data validator.

^c 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

RPD = relative percent difference

Discussion Items:

1. **Requested reporting limits 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., screening level) as presented in Appendix A of the QAPP. Most MDLs and RLs are less than the lowest screening level except:
 - a. EDB and EDC: the MDLs and RLs exceeded certain screening levels in field sample ATMT-BH4-SG-5' due to dilution. The EDB MDL and RL in that sample exceeded the Oregon DEQ RBC for Residential Soil-direct contact, the EPA RSL for Residential Soil, and the EPA RSL for Industrial Soil. The EDC MDL and RL exceeded the respective EPA RSLs for Residential Soil. However, EDB and EDC were not detected in any soil samples collected from the site and therefore, there is no indication that these analytes are present in site soils.
 - b. Naphthalene: the MDL and RL exceeded the EPA RSL for Residential Soil in field sample ATMT-BH4-SG-5' due to dilution. Naphthalene was not detected in that sample above the MDL; therefore, it is possible for naphthalene to be present at that location at a concentration less than the MDL and greater than the RSL for Residential Soil.
2. **Method blanks:** The laboratory analyzed a method blank for each analytical method, which meets QAPP guidelines. Certain analytes were detected in the method blanks as summarized below:
 - a. In SDG L1803661, TPH-GRO was detected above the MDL but below the RL in one method blank. Associated field samples are those samples that were analyzed in the same batch, which includes sample ATMT-BH4-SG-8.5'. Based on the NFG-Organic: Volatiles, the concentration of TPH-GRO in the above-mentioned grab soil sample, which is greater than the RL but less than 10 times the blank concentration, will be qualified as an estimate, biased high (J+).
3. **Surrogate %Recoveries/Deuterated Monitoring Compounds %Recoveries:** Most surrogate and DMC %Recoveries were within acceptable limits except for the following instances:
 - a. The %Recovery for surrogate o-terphenyl failed (0.0%) for its surrogate analyte TPH-DRO in sample ATMT-BH6-SG-4' (SDG L1803680). However, the laboratory noted that due to dilution, the surrogate recovery cannot be used for control limit evaluation. Therefore, no qualifiers are necessary.
 - b. The %Recovery for surrogate 2-fluorobiphenyl was less than the acceptable laboratory limit in samples BH4-SG-8.5' (SDG L1803661), BH4-SG-5', and BH5-SG-7.5' (SDG L1803680). Therefore, based on the NFG-Organics: Semivolatiles and the professional judgment of the data validator and QAO, the following actions will be applied to concentrations of PAHs similar to this surrogate (i.e., acenaphthene and fluorene) as follows:
 - i. Concentrations greater than the MDL will be qualified as estimates, biased low (J-).
 - ii. Concentrations less than the MDL will be qualified as non-detect estimates (UJ).
 - c. In SDG L1803680, the laboratory qualified certain surrogate %Recovery results for sample BH6-SG-4' as J7, indicating that the recovery cannot be used for control limit evaluation due to dilution. Despite this, the %Recovery results were within laboratory limits and no qualification is necessary.

4. **LCS/LCSD Pairs:**

- a. **Frequency Assessment:** The laboratory analyzed an LCS/LCSD pair for most analytical methods except for Method NWTPHDX and EPA Method 8270C-SIM, and EPA Method 6010B (the laboratory only analyzed an LCS for these analytical methods). However, the QAPP states that an LCSD or MSD could be used to evaluate precision. All above-listed analytical methods had a Site-specific MS/MSD pair; therefore, no qualifications are necessary.
- b. **%Recoveries (Accuracy Assessment):** Most LCS %Recoveries were within acceptable ranges except for naphthalene analyzed by EPA Method 8260D in SDGs L1803661 and L1803680, where the naphthalene %Recovery was below the laboratory lower limit. The laboratory also qualified these results with “C3”, indicating that a continuing calibration standard responded low. Based on the NFG-Organics: Volatiles and professional judgment, the Alta data validator and QAO qualified concentrations less than the MDL as non-detect estimates (UJ) in the associated field samples. Naphthalene was not detected above the MDL in any soil grab field sample in the above listed SDGs.
- c. **RPDs (Precision Assessment):** All LCSD RPDs were within acceptable ranges.

5. **Site-specific MS/MSD Pairs:**

- a. **Frequency Assessment:** From a total of 8 grab soil field samples, the Field Team collected 1 Site-specific MS/MSD sample pair, which meets the QAPP guidance of 1:20. However, the laboratory did not analyze the MS/MSD sample pair for VOCs by EPA Method 8260D. To meet accuracy and precision requirements, the laboratory analyzed an LCS/LCSD sample pair for VOCs; therefore, no data were qualified due to MS/MSD frequency.
- b. **%Recoveries (Accuracy Assessment):** All Site-specific MS/MSD %Recoveries were within acceptable laboratory limits except for the PFHxS MSD %Recovery and the PFOS MS/MSD %Recoveries, which were less than their respective acceptable laboratory limits. Therefore, based on the NFG-Organics and professional judgment, the Alta data validator and QAO qualified concentrations of PFHxS and PFOS in all soil samples greater than the MDL as estimates (J), while concentrations less than the MDL are qualified as non-detect estimates (UJ).
- c. **Relative Percent Differences (RPDs) (Precision Assessment):** All site-specific MS/MSD RPDs were within acceptable limits.

6. **Field Duplicate:** From 8 grab soil samples, the Field Team collected 1 field duplicate sample, which meets the QAPP requirement of 1 duplicate sample for every 20 field samples. 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 except the following:

- a. For PFBS, PFHxA, and PFPeS, the absolute difference between the original and duplicate concentrations was greater than the analyte-specific RL. Therefore, based on the NFG-Organics and professional judgment, the Alta data validator and QAO qualified concentrations of these analytes in all field soil samples greater than their respective MDLs as estimates (J), while concentrations less than the MDL are qualified as non-detect estimates (UJ).
- b. For samples where both the original and duplicate concentrations were greater than 5 times the analyte-specific RLs, most RPDs were within the QAPP

acceptable limit of 50% (Table 5) except for PFHxS and PFOS, which had RPDs exceeding 50%. However, these results are already qualified based on Discussion Item #5.b. and no further qualifications are necessary.

Table 5. Field Duplicate Sample Analysis - Grab Soil Samples

Sample Date	Analyte	Original Concentration (mg/kg)		Duplicate Concentration (mg/kg)		RPD
		Sample ID	ATMT-BH1-SG-12'	ATMT-BH1-SG-12'-DUP		
11/18/2024	EPA Method 6010B					
	LEAD		6.92	5.91		16%
	EPA Method 8260D					
	BENZENE		0.00938 U	0.00938 U		NC
	1,2-DIBROMOETHANE		0.00625 U	0.00625 U		NC
	1,2-DICHLOROETHANE		0.0113 U	0.0113 U		NC
	ETHYLBENZENE		0.0075 U	0.0075 U		NC
	TOLUENE		0.0308 U	0.0308 U		NC
	XYLENES, TOTAL		0.0125 U	0.0125 U		NC
	METHYL TERT-BUTYL ETHER		0.00875 U	0.00875 U		NC
	NAPHTHALENE		0.125 UJ	0.125 UJ		NC
	1,2,4-TRIMETHYLBENZENE		0.00528 U	0.00528 U		NC
	1,3,5-TRIMETHYLBENZENE		0.00665 U	0.00665 U		NC
	ISOPROPYLBENZENE		0.0106 U	0.0106 U		NC
	N-PROPYLBENZENE		0.00515 U	0.00515 U		NC
	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		0.00516 J	0.00408 U		NC
	PYRENE		0.002 U	0.002 U		NC
	NWTPHGX					
	TPHG C6 - C12		1.43 J	1.71 J		NC
	NWTPHDX-SGT					
	DIESEL RANGE ORGANICS		1.33 U	1.33 U		NC

Table 5. Field Duplicate Sample Analysis - Grab Soil Samples

Sample Date	Analyte	Original Concentration (mg/kg)	Duplicate Concentration (mg/kg)	RPD
	Sample ID	ATMT-BH1-SG-1.5'	ATMT-BH1-SG-1.5'-DUP	
	EPA Method 1633 (in ng/kg)			
11/18/2024	PFBS	0.2 U	0.97	NC-P
	PFDA	0.2 U	0.31	NC
	PFHxA	0.2 U	0.64	NC-P
	PFNS	0.2 U	0.22	NC
	PFOSA	0.2 U	0.27	NC
	PFPeA	0.39 U	0.58	NC
	PFPeS	0.26	0.98	NC-P
	PFHpA	0.2 U	0.2	NC
	PFHxS	1.7 J	4.9 J	97%
	PFOS	22.5 J	62.5 J	94%
	PFOA	0.2 U	0.22	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.

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

ng/kg = nanograms per kilogram

U = less than the reporting limit shown for EPA Method 1633 and less than the method detection limit for all other an

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 tables, 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 ^a	Acceptable Performance ^b	Data Qualified	Discussion Item Number
General Data Review				
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	
Sensitivity Assessment				
Requested reporting limits are present	--	Y	N	
Method blanks	Y	Y	N	
Accuracy Assessment				
LCS %Recoveries	Y	Y	N	
MS %Recoveries ^c	Y	N	Y	1
Precision Assessment				
Site-specific MSD RPD ^c	Y	N	Y	1
Field Duplicate (Table 7) RPD	Y	Y	N	2

^a Frequencies as defined in the QAPP (ERG 2024).

^b As defined in the QAPP (ERG 2024), or based on professional judgment of the data validator.

^c 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

RPD = relative percent difference

Discussion Items:

1. Site-specific Matrix Spike (MS)/Matrix Spike Duplicate (MSD) Pairs:

- a. **Frequency Assessment:** From 6 composite soil samples, the Field Team collected 1 Site-specific MS/MS duplicate sample pair, which meets the QAPP guidance of 1:20.

- b. **%Recoveries (Accuracy Assessment):** The lead MS %Recovery exceeded the acceptable laboratory limit; however, the MSD %Recovery failed (0%). Additionally, the laboratory qualified the parent sample used for the MS/MSD analysis as “O1”, indicating that the analyte failed the method required serial dilution test, which indicates matrix interference. Therefore, based on the NFG-Inorganics: AES and professional judgment, the Alta data validator and QAO qualified lead in all composite soil samples as estimates (J).
 - c. **RPDs (Precision Assessment):** The lead RPD exceeded the acceptable laboratory limit. However, these results are already qualified based on the MS/MSD accuracy assessment and no further qualifications are necessary.
2. **Field Duplicate:** From 6 composite soil samples, the Field Team collected 1 field duplicate sample, which meets the QAPP criteria of 1 duplicate sample for every 20 field samples. The RPD was within the QAPP limit, and no qualifications are needed (Table 7).

Table 7. Field Duplicate Sample Analysis - Composite Soil Samples

Sample Date	Analyte	Original Concentration (mg/kg)		Duplicate Concentration (mg/kg)		RPD
	Sample ID	ATMT-WB1-SS-C-0"-6"		ATMT-WB1-SS-C-0"-6"-DUP		
11/18/2024	EPA Method 6010B					
	LEAD	171	J	234	J	31%

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

Where: X1 = Original Concentration and X2 = Duplicate Concentration

mg/kg = milligrams per kilogram

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 ^a	Acceptable Performance ^b	Data Qualified	Discussion Item Number
General Data Review				
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	
Sensitivity Assessment				
Requested reporting limits are present	--	N	N	1
Method blanks	Y	N	Y	2
Accuracy Assessment				
Surrogate %Recoveries/Deuterated Monitoring Compounds %Recoveries	Y	Y	N	
Laboratory Control Sample (LCS) %Recoveries	Y	Y	N	
Precision Assessment				
Laboratory Control Sample Duplicate (LCSDs) RPDs	Y	Y	N	
Field Replicate (Table 5) RPDs	Y	Y	N	3

^a Frequencies as defined in the QAPP (ERG 2024).

^b As defined in the QAPP (ERG 2024), or based on professional judgment of the data validator.

-- = not applicable

RPD = relative percent difference

Discussion Items:

- Requested reporting limits 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 for naphthalene, with an RL that exceeds the EPA Residential Soil Vapor Intrusion Screening Level (VISL) due to sample dilution. However, because the MDL is less than the VISL, the results allow for comparison to the pertinent action levels. Therefore, sensitivity is not a concern.

2. **Method blanks:** Most method blank results were less than the MDL (non-detect) except for ethylbenzene, which was detected above the MDL but below the RL. Ethylbenzene was detected in all site soil vapor samples at concentrations above the MDL but below the RL; therefore, based on the NFG-Organic: Volatiles, results for ethylbenzene in all soil vapor samples will be raised to the RL and qualified as non-detect (U).
3. **Field Replicate:**
 - a. **Frequency:** From 2 soil vapor samples, the Field Team collected 1 field replicate sample, which meets the QAPP criteria of 1 replicate sample for every 20 field samples.
 - b. **Precision Assessment:** Field replicate RPDs could not be calculated since both the original and duplicate concentrations were less than 5 times the analyte-specific RLs (Table 9). However, no qualification is needed for the analytes where the absolute difference between the original and duplicate concentrations is less than the analyte-specific RL.

Table 9. Field Replicate Sample Analysis – Soil Vapor Samples

Sample Date	Analyte	Original Concentration (µg/m ³)		Duplicate Concentration (µg/m ³)		RPD
	Sample ID	ATMT-VP-1		ATMT-VP-1-Rep		
11/20/2024	Toluene	0.58	U	0.58	U	NC
	Total Xylene	9.00	U	9.00	U	NC
	Benzene	0.48	J	0.35	J	NC
	Ethyl Benzene	1.2	U	1.2	U	NC
	Naphthalene	0.11	U	0.11	U	NC

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 (USEPA 2020). Precision is acceptable because the absolute difference between the original and duplicate concentrations is greater than the reporting limit.

µg/m³ = micrograms per cubic meter

U = concentration is not detected above the method detection limit 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 certain data based on sample handling, tracking, and reporting. Data meet the data quality objectives for representativeness and comparability, with the exceptions discussed below.

- For groundwater samples in SDG L1804697, concentrations of TPH-GRO, TPH-DRO, VOCs, and PAHs greater than the MDL are qualified as estimates (J) while concentrations less than the MDL are qualified as non-detect estimates (UJ) due to the samples being received at the laboratory at temperatures greater than 10°C.
- In groundwater samples TMW-1 through TMW-4, sample results where benzo(a)anthracene, dibenz(a,h)anthracene, and naphthalene were not detected are qualified as non-detect estimates (UJ) due to the sample analysis exceeding the method-specific holding time.

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 soil sample ATMT-BH4-SG-5', 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 Residential Soil.
- Certain groundwater sample results for TPH-GRO, dibenz(a,h)anthracene, and indeno(1,2,3-cd)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) while concentrations less than the MDL do not require qualification.
- Certain concentrations of isopropylbenzene and naphthalene, which were not detected above the MDL, were qualified as non-detect estimated (UJ) in one trip blank sample analyzed with groundwater field samples. No field samples were qualified.
- One grab soil sample result for TPH-GRO was qualified as estimated, biased high (J+) due to a method blank detection.
- Ethylbenzene concentrations detected below the RL in all soil vapor samples will be raised to the RL and qualified as non-detect (U) due to a method blank detection.

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 %Recoveries, LCS %Recoveries, or MS %Recoveries):

- In certain groundwater samples, concentrations of naphthalene greater than the MDL are qualified as estimates (J) and concentrations of naphthalene less than the MDL are qualified as non-detect estimates (UJ) based on low LCS %Recovery.
- In all groundwater samples, concentrations of PFHxS and PFOS greater than the MDL are qualified as estimates (J) and concentrations of these analytes less than the MDL as non-detect estimates (UJ) due to low MS %Recoveries.
- In samples BH4-SG-8.5', BH4-SG-5', and BH5-SG-7.5', concentrations of acenaphthene and fluorene 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 low surrogate %Recoveries.
- Non-detect concentrations of naphthalene analyzed using EPA Method 8260D in grab soil samples were qualified as non-detect estimates (UJ) due to low LCS %Recovery.
- In grab soil samples, concentrations of PFHxS and PFOS greater than the MDL are qualified as estimates (J), while concentrations less than the MDL are qualified as non-detect estimates (UJ) based on low site-specific MS/MSD %Recoveries.
- Lead concentrations in all composite soil samples were qualified as estimates (J) based on poor performing MS/MSD %recoveries.

6.3.2 Precision

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

- In certain groundwater samples, concentrations of TPH-GRO greater than the MDL are qualified as estimates (J) while samples where TPH-GRO was not detected were qualified as non-detect estimates (UJ) due to high site-specific MS/MSD RPD.
- In all groundwater field samples, concentrations of PFPeA are qualified as estimates (J) while concentrations less than the MDL are qualified as non-detect estimates (UJ) due to field duplicate precision.
- In the soil grab samples, concentrations of PFBS, PFHxA, and PFPeS are qualified as estimates (J) while concentrations less than the MDL are qualified as non-detect estimates (UJ) due to inadequate precision.

6.4 Data Usability

The Alta QAO did not reject any sample results. Therefore, according to the QAPP (Alta 2024), the completeness for this sampling event is calculated at 100%.

7 References and Resources Used

Eastern Research Group, Inc. (ERG), 2024. Quality Assurance Project Plan for Phase II Site Assessment – 2450 Altamont Drive, Klamath Falls, OR. Prepared for the U.S.

Environmental Protection Agency, Region 10 Brownfields & Land Revitalization Program. Revision No. 1, October 23.

- 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	Result Sign	Result	Lab Qualifier	Lab Qualifier Reason	Data Validation Result	Data Validation Qualifier	Validation Qual Reason	MDL	RDL	Final Result	Final Qualifier
L1803661	L1803661-01	ATMT-BH1-SG-12'	11/18/2024	SS	8010B	LEAD	mg/kg	1		6.92						0.208	0.5	6.92	
L1803661	L1803661-01	ATMT-BH1-SG-12'	11/18/2024	SS	8260D	1,2,4-TRIMETHYLBENZENE	mg/kg	25	<	0.00528 U		Not detected above MDL				0.00528	0.025	0.00528 U	
L1803661	L1803661-01	ATMT-BH1-SG-12'	11/18/2024	SS	8260D	1,2-DIBROMOETHANE	mg/kg	25	<	0.00625 U		Not detected above MDL				0.00625	0.025	0.00625 U	
L1803661	L1803661-01	ATMT-BH1-SG-12'	11/18/2024	SS	8260D	1,2-DICHLOROETHANE	mg/kg	25	<	0.0113 U		Not detected above MDL				0.0113	0.025	0.0113 U	
L1803661	L1803661-01	ATMT-BH1-SG-12'	11/18/2024	SS	8260D	1,3,5-TRIMETHYLBENZENE	mg/kg	25	<	0.00665 U		Not detected above MDL				0.00665	0.025	0.00665 U	
L1803661	L1803661-01	ATMT-BH1-SG-12'	11/18/2024	SS	8260D	BENZENE	mg/kg	25	<	0.00938 U		Not detected above MDL				0.00938	0.025	0.00938 U	
L1803661	L1803661-01	ATMT-BH1-SG-12'	11/18/2024	SS	8260D	ETHYLBENZENE	mg/kg	25	<	0.0075 U		Not detected above MDL				0.0075	0.025	0.0075 U	
L1803661	L1803661-01	ATMT-BH1-SG-12'	11/18/2024	SS	8260D	ISOPROPYLBENZENE	mg/kg	25	<	0.0106 U		Not detected above MDL				0.0106	0.025	0.0106 U	
L1803661	L1803661-01	ATMT-BH1-SG-12'	11/18/2024	SS	8260D	METHYL TERT-BUTYL ETHER	mg/kg	25	<	0.00875 U		Not detected above MDL				0.00875	0.025	0.00875 U	
L1803661	L1803661-01	ATMT-BH1-SG-12'	11/18/2024	SS	8260D	NAPHTHALENE	mg/kg	25	<	0.125 U	C3 J4	Not detected above MDL, Low continuing calibration indicating estimate, Batch QC outside accuracy range	0.125	UU	LCS %R < Rec Limit	0.125	0.125	0.125	UU
L1803661	L1803661-01	ATMT-BH1-SG-12'	11/18/2024	SS	8260D	N-PROPYLBENZENE	mg/kg	25	<	0.00515 U		Not detected above MDL				0.00515	0.025	0.00515 U	
L1803661	L1803661-01	ATMT-BH1-SG-12'	11/18/2024	SS	8260D	TOLUENE	mg/kg	25	<	0.0308 U		Not detected above MDL				0.0308	0.125	0.0308 U	
L1803661	L1803661-01	ATMT-BH1-SG-12'	11/18/2024	SS	8260D	XYLENES, TOTAL	mg/kg	25	<	0.0125 U		Not detected above MDL				0.0125	0.075	0.0125 U	
L1803661	L1803661-01	ATMT-BH1-SG-12'	11/18/2024	SS	8270C-SIM	ACENAPHTHENE	mg/kg	1	<	0.00209 U		Not detected above MDL				0.00209	0.006	0.00209 U	
L1803661	L1803661-01	ATMT-BH1-SG-12'	11/18/2024	SS	8270C-SIM	ANTHRACENE	mg/kg	1	<	0.0023 U		Not detected above MDL				0.0023	0.006	0.0023 U	
L1803661	L1803661-01	ATMT-BH1-SG-12'	11/18/2024	SS	8270C-SIM	BENZO(A)ANTHRACENE	mg/kg	1	<	0.00173 U		Not detected above MDL				0.00173	0.006	0.00173 U	
L1803661	L1803661-01	ATMT-BH1-SG-12'	11/18/2024	SS	8270C-SIM	BENZO(A)PYRENE	mg/kg	1	<	0.00179 U		Not detected above MDL				0.00179	0.006	0.00179 U	
L1803661	L1803661-01	ATMT-BH1-SG-12'	11/18/2024	SS	8270C-SIM	BENZO(B)FLUORANTHENE	mg/kg	1	<	0.00153 U		Not detected above MDL				0.00153	0.006	0.00153 U	
L1803661	L1803661-01	ATMT-BH1-SG-12'	11/18/2024	SS	8270C-SIM	BENZO(K)FLUORANTHENE	mg/kg	1	<	0.00215 U		Not detected above MDL				0.00215	0.006	0.00215 U	
L1803661	L1803661-01	ATMT-BH1-SG-12'	11/18/2024	SS	8270C-SIM	CHRYSENE	mg/kg	1	<	0.00232 U		Not detected above MDL				0.00232	0.006	0.00232 U	
L1803661	L1803661-01	ATMT-BH1-SG-12'	11/18/2024	SS	8270C-SIM	DIBENZ(A,H)ANTHRACENE	mg/kg	1	<	0.00172 U		Not detected above MDL				0.00172	0.006	0.00172 U	
L1803661	L1803661-01	ATMT-BH1-SG-12'	11/18/2024	SS	8270C-SIM	FLUORANTHENE	mg/kg	1	<	0.00227 U		Not detected above MDL				0.00227	0.006	0.00227 U	
L1803661	L1803661-01	ATMT-BH1-SG-12'	11/18/2024	SS	8270C-SIM	FLUORENE	mg/kg	1	<	0.00205 U		Not detected above MDL				0.00205	0.006	0.00205 U	
L1803661	L1803661-01	ATMT-BH1-SG-12'	11/18/2024	SS	8270C-SIM	INDENO(1,2,3-CD)PYRENE	mg/kg	1	<	0.00181 U		Not detected above MDL				0.00181	0.006	0.00181 U	
L1803661	L1803661-01	ATMT-BH1-SG-12'	11/18/2024	SS	8270C-SIM	NAPHTHALENE	mg/kg	1	<	0.00516 J		Detected below RL				0.00408	0.02	0.00516 J	
L1803661	L1803661-01	ATMT-BH1-SG-12'	11/18/2024	SS	8270C-SIM	PYRENE	mg/kg	1	<	0.002 U		Not detected above MDL				0.002	0.006	0.002 U	
L1803661	L1803661-01	ATMT-BH1-SG-12'	11/18/2024	SS	NWTPHGX-SGT	DIESEL RANGE ORGANICS	mg/kg	1	<	1.33 U		Not detected above MDL				1.33	4	1.33 U	
L1803661	L1803661-01	ATMT-BH1-SG-12'	11/18/2024	SS	NWTPHGX	TPHG C6 - C12	mg/kg	25	<	1.43 J		Detected below RL				0.848	2.5	1.43 J	
L1803661	L1803661-02	ATMT-BH1-SG-12'-DUP	11/18/2024	SS	8010B	LEAD	mg/kg	1		6.91						0.208	0.5	6.91	
L1803661	L1803661-02	ATMT-BH1-SG-12'-DUP	11/18/2024	SS	8260D	1,2,4-TRIMETHYLBENZENE	mg/kg	25	<	0.00528 U		Not detected above MDL				0.00528	0.025	0.00528 U	
L1803661	L1803661-02	ATMT-BH1-SG-12'-DUP	11/18/2024	SS	8260D	1,2-DIBROMOETHANE	mg/kg	25	<	0.00625 U		Not detected above MDL				0.00625	0.025	0.00625 U	
L1803661	L1803661-02	ATMT-BH1-SG-12'-DUP	11/18/2024	SS	8260D	1,2-DICHLOROETHANE	mg/kg	25	<	0.0113 U		Not detected above MDL				0.0113	0.025	0.0113 U	
L1803661	L1803661-02	ATMT-BH1-SG-12'-DUP	11/18/2024	SS	8260D	1,3,5-TRIMETHYLBENZENE	mg/kg	25	<	0.00665 U		Not detected above MDL				0.00665	0.025	0.00665 U	
L1803661	L1803661-02	ATMT-BH1-SG-12'-DUP	11/18/2024	SS	8260D	BENZENE	mg/kg	25	<	0.00938 U		Not detected above MDL				0.00938	0.025	0.00938 U	
L1803661	L1803661-02	ATMT-BH1-SG-12'-DUP	11/18/2024	SS	8260D	ETHYLBENZENE	mg/kg	25	<	0.0075 U		Not detected above MDL				0.0075	0.025	0.0075 U	
L1803661	L1803661-02	ATMT-BH1-SG-12'-DUP	11/18/2024	SS	8260D	ISOPROPYLBENZENE	mg/kg	25	<	0.0106 U		Not detected above MDL				0.0106	0.025	0.0106 U	
L1803661	L1803661-02	ATMT-BH1-SG-12'-DUP	11/18/2024	SS	8260D	METHYL TERT-BUTYL ETHER	mg/kg	25	<	0.00875 U		Not detected above MDL				0.00875	0.025	0.00875 U	
L1803661	L1803661-02	ATMT-BH1-SG-12'-DUP	11/18/2024	SS	8260D	NAPHTHALENE	mg/kg	25	<	0.125 U	C3 J4	Not detected above MDL, Low continuing calibration indicating estimate, Batch QC outside accuracy range	0.125	UU	LCS %R < Rec Limit	0.125	0.125	0.125	UU
L1803661	L1803661-02	ATMT-BH1-SG-12'-DUP	11/18/2024	SS	8260D	N-PROPYLBENZENE	mg/kg	25	<	0.00515 U		Not detected above MDL				0.00515	0.025	0.00515 U	
L1803661	L1803661-02	ATMT-BH1-SG-12'-DUP	11/18/2024	SS	8260D	TOLUENE	mg/kg	25	<	0.0308 U		Not detected above MDL				0.0308	0.125	0.0308 U	
L1803661	L1803661-02	ATMT-BH1-SG-12'-DUP	11/18/2024	SS	8260D	XYLENES, TOTAL	mg/kg	25	<	0.0125 U		Not detected above MDL				0.0125	0.075	0.0125 U	
L1803661	L1803661-02	ATMT-BH1-SG-12'-DUP	11/18/2024	SS	8270C-SIM	ACENAPHTHENE	mg/kg	1	<	0.00209 U		Not detected above MDL				0.00209	0.006	0.00209 U	
L1803661	L1803661-02	ATMT-BH1-SG-12'-DUP	11/18/2024	SS	8270C-SIM	ANTHRACENE	mg/kg	1	<	0.0023 U		Not detected above MDL				0.0023	0.006	0.0023 U	
L1803661	L1803661-02	ATMT-BH1-SG-12'-DUP	11/18/2024	SS	8270C-SIM	BENZO(A)ANTHRACENE	mg/kg	1	<	0.00173 U		Not detected above MDL				0.00173	0.006	0.00173 U	
L1803661	L1803661-02	ATMT-BH1-SG-12'-DUP	11/18/2024	SS	8270C-SIM	BENZO(A)PYRENE	mg/kg	1	<	0.00179 U		Not detected above MDL				0.00179	0.006	0.00179 U	
L1803661	L1803661-02	ATMT-BH1-SG-12'-DUP	11/18/2024	SS	8270C-SIM	BENZO(B)FLUORANTHENE	mg/kg	1	<	0.00153 U		Not detected above MDL				0.00153	0.006	0.00153 U	
L1803661	L1803661-02	ATMT-BH1-SG-12'-DUP	11/18/2024	SS	8270C-SIM	BENZO(K)FLUORANTHENE	mg/kg	1	<	0.00215 U		Not detected above MDL				0.00215	0.006	0.00215 U	
L1803661	L1803661-02	ATMT-BH1-SG-12'-DUP	11/18/2024	SS	8270C-SIM	CHRYSENE	mg/kg	1	<	0.00232 U		Not detected above MDL				0.00232	0.006	0.00232 U	
L1803661	L1803661-02	ATMT-BH1-SG-12'-DUP	11/18/2024	SS	8270C-SIM	DIBENZ(A,H)ANTHRACENE	mg/kg	1	<	0.00172 U		Not detected above MDL				0.00172	0.006	0.00172 U	
L1803661	L1803661-02	ATMT-BH1-SG-12'-DUP	11/18/2024	SS	8270C-SIM	FLUORANTHENE	mg/kg	1	<	0.00227 U		Not detected above MDL				0.00227	0.006	0.00227 U	
L1803661	L1803661-02	ATMT-BH1-SG-12'-DUP	11/18/2024	SS	8270C-SIM	FLUORENE	mg/kg	1	<	0.00205 U		Not detected above MDL				0.00205	0.006	0.00205 U	
L1803661	L1803661-02	ATMT-BH1-SG-12'-DUP	11/18/2024	SS	8270C-SIM	INDENO(1,2,3-CD)PYRENE	mg/kg	1	<	0.00181 U		Not detected above MDL				0.00181	0.006	0.00181 U	
L1803661	L1803661-02	ATMT-BH1-SG-12'-DUP	11/18/2024	SS	8270C-SIM	NAPHTHALENE	mg/kg	1	<	0.00408 U		Not detected above MDL				0.00408	0.02	0.00408 U	
L1803661	L1803661-02	ATMT-BH1-SG-12'-DUP	11/18/2024	SS	8270C-SIM	PYRENE	mg/kg	1	<	0.002 U		Not detected above MDL				0.002	0.006	0.002 U	
L1803661	L1803661-02	ATMT-BH1-SG-12'-DUP	11/18/2024	SS	NWTPHGX-SGT	DIESEL RANGE ORGANICS	mg/kg	1	<	1.33 U		Not detected above MDL				1.33	4	1.33 U	
L1803661	L1803661-02	ATMT-BH1-SG-12'-DUP	11/18/2024	SS	NWTPHGX	TPHG C6 - C12	mg/kg	25	<	1.71 J		Detected below RL				0.848	2.5	1.71 J	
L1803661	L1803661-03	ATMT-BH2-SG-10'	11/18/2024	SS	8010B	LEAD	mg/kg	1		6.64						0.208	0.5	6.64	
L1803661	L1803661-03	ATMT-BH2-SG-10'	11/18/2024	SS	8260D	1,2,4-TRIMETHYLBENZENE	mg/kg	25	<	0.00528 U									

SDG	Lab Sample ID	Client Sample ID	Date Collected	Matrix	Method	Analyte	Units	Dilution	Result Sign	Result	Lab Qualifier	Lab Qualifier Reason	Data Validation Result	Data Validation Qualifier	Validation Qual Reason	MDL	RDL	Final Result	Final Qualifier
L1803661	L1803661-03	ATMT-BH2-SG-10'	11/18/2024	SS	8270C-SIM	FLUORANTHENE	mg/kg	1	<	0.00227	U	Not detected above MDL				0.00227	0.006	0.00227	U
L1803661	L1803661-03	ATMT-BH2-SG-10'	11/18/2024	SS	8270C-SIM	FLUORANTHENE	mg/kg	1	<	0.00203	U	Not detected above MDL				0.00203	0.006	0.00203	U
L1803661	L1803661-03	ATMT-BH2-SG-10'	11/18/2024	SS	8270C-SIM	INDENO(1,2,3-CD)PYRENE	mg/kg	1	<	0.00181	U	Not detected above MDL				0.00181	0.006	0.00181	U
L1803661	L1803661-03	ATMT-BH2-SG-10'	11/18/2024	SS	8270C-SIM	NAPHTHALENE	mg/kg	1	<	0.00408	U	Not detected above MDL				0.00408	0.02	0.00408	U
L1803661	L1803661-03	ATMT-BH2-SG-10'	11/18/2024	SS	8270C-SIM	PYRENE	mg/kg	1	<	0.002	U	Not detected above MDL				0.002	0.006	0.002	U
L1803661	L1803661-03	ATMT-BH2-SG-10'	11/18/2024	SS	NWTPDX-SGT	DIESEL RANGE ORGANICS	mg/kg	1	<	1.33	U	Not detected above MDL				1.33	4	1.33	U
L1803661	L1803661-03	ATMT-BH2-SG-10'	11/18/2024	SS	NWTPGHX	TPHG C6 - C12	mg/kg	25	<	0.848	U	Not detected above MDL				0.848	2.5	0.848	U
L1803661	L1803661-04	ATMT-BH3-SG-8'	11/18/2024	SS	6010B	LEAD	mg/kg	1	<	4.75	U	Not detected above MDL				0.208	0.5	4.75	U
L1803661	L1803661-04	ATMT-BH3-SG-8'	11/18/2024	SS	8260D	1,2,4-TRIMETHYLBENZENE	mg/kg	25	<	0.00528	U	Not detected above MDL				0.00528	0.025	0.00528	U
L1803661	L1803661-04	ATMT-BH3-SG-8'	11/18/2024	SS	8260D	1,2-DIBROMOETHANE	mg/kg	25	<	0.00625	U	Not detected above MDL				0.00625	0.025	0.00625	U
L1803661	L1803661-04	ATMT-BH3-SG-8'	11/18/2024	SS	8260D	1,2-DICHLOROETHANE	mg/kg	25	<	0.0113	U	Not detected above MDL				0.0113	0.025	0.0113	U
L1803661	L1803661-04	ATMT-BH3-SG-8'	11/18/2024	SS	8260D	1,3,5-TRIMETHYLBENZENE	mg/kg	25	<	0.00938	U	Not detected above MDL				0.00938	0.025	0.00938	U
L1803661	L1803661-04	ATMT-BH3-SG-8'	11/18/2024	SS	8260D	BENZENE	mg/kg	25	<	0.00938	U	Not detected above MDL				0.00938	0.025	0.00938	U
L1803661	L1803661-04	ATMT-BH3-SG-8'	11/18/2024	SS	8260D	ETHYLBENZENE	mg/kg	25	<	0.0075	U	Not detected above MDL				0.0075	0.025	0.0075	U
L1803661	L1803661-04	ATMT-BH3-SG-8'	11/18/2024	SS	8260D	ISOPROPYLBENZENE	mg/kg	25	<	0.0106	U	Not detected above MDL				0.0106	0.025	0.0106	U
L1803661	L1803661-04	ATMT-BH3-SG-8'	11/18/2024	SS	8260D	METHYL TERT-BUTYL ETHER	mg/kg	25	<	0.00875	U	Not detected above MDL				0.00875	0.025	0.00875	U
L1803661	L1803661-04	ATMT-BH3-SG-8'	11/18/2024	SS	8260D	NAPHTHALENE	mg/kg	25	<	0.125	U C3 J4	Not detected above MDL, Low continuing calibration indicating estimate, Batch QC outside accuracy range	0.125	UJ	LCS %R < Rec Limit	0.125	0.125	0.125	UJ
L1803661	L1803661-04	ATMT-BH3-SG-8'	11/18/2024	SS	8260D	N-PROPYLBENZENE	mg/kg	25	<	0.00515	U	Not detected above MDL				0.00515	0.025	0.00515	U
L1803661	L1803661-04	ATMT-BH3-SG-8'	11/18/2024	SS	8260D	TOLUENE	mg/kg	25	<	0.0308	U	Not detected above MDL				0.0308	0.125	0.0308	U
L1803661	L1803661-04	ATMT-BH3-SG-8'	11/18/2024	SS	8260D	XYLENES, TOTAL	mg/kg	25	<	0.0125	U	Not detected above MDL				0.0125	0.075	0.0125	U
L1803661	L1803661-04	ATMT-BH3-SG-8'	11/18/2024	SS	8270C-SIM	ACENAPHTHENE	mg/kg	1	<	0.00209	U	Not detected above MDL				0.00209	0.006	0.00209	U
L1803661	L1803661-04	ATMT-BH3-SG-8'	11/18/2024	SS	8270C-SIM	ANTHRACENE	mg/kg	1	<	0.0023	U	Not detected above MDL				0.0023	0.006	0.0023	U
L1803661	L1803661-04	ATMT-BH3-SG-8'	11/18/2024	SS	8270C-SIM	BENZO(A)ANTHRACENE	mg/kg	1	<	0.00173	U	Not detected above MDL				0.00173	0.006	0.00173	U
L1803661	L1803661-04	ATMT-BH3-SG-8'	11/18/2024	SS	8270C-SIM	BENZO(A)PYRENE	mg/kg	1	<	0.00179	U	Not detected above MDL				0.00179	0.006	0.00179	U
L1803661	L1803661-04	ATMT-BH3-SG-8'	11/18/2024	SS	8270C-SIM	BENZO(B)FLUORANTHENE	mg/kg	1	<	0.00153	U	Not detected above MDL				0.00153	0.006	0.00153	U
L1803661	L1803661-04	ATMT-BH3-SG-8'	11/18/2024	SS	8270C-SIM	BENZO(K)FLUORANTHENE	mg/kg	1	<	0.00215	U	Not detected above MDL				0.00215	0.006	0.00215	U
L1803661	L1803661-04	ATMT-BH3-SG-8'	11/18/2024	SS	8270C-SIM	CHRYSENE	mg/kg	1	<	0.00232	U	Not detected above MDL				0.00232	0.006	0.00232	U
L1803661	L1803661-04	ATMT-BH3-SG-8'	11/18/2024	SS	8270C-SIM	DIBENZ(A,H)ANTHRACENE	mg/kg	1	<	0.00172	U	Not detected above MDL				0.00172	0.006	0.00172	U
L1803661	L1803661-04	ATMT-BH3-SG-8'	11/18/2024	SS	8270C-SIM	FLUORANTHENE	mg/kg	1	<	0.00227	U	Not detected above MDL				0.00227	0.006	0.00227	U
L1803661	L1803661-04	ATMT-BH3-SG-8'	11/18/2024	SS	8270C-SIM	FLUORENE	mg/kg	1	<	0.00205	U	Not detected above MDL				0.00205	0.006	0.00205	U
L1803661	L1803661-04	ATMT-BH3-SG-8'	11/18/2024	SS	8270C-SIM	INDENO(1,2,3-CD)PYRENE	mg/kg	1	<	0.00181	U	Not detected above MDL				0.00181	0.006	0.00181	U
L1803661	L1803661-04	ATMT-BH3-SG-8'	11/18/2024	SS	8270C-SIM	NAPHTHALENE	mg/kg	1	<	0.00408	U	Not detected above MDL				0.00408	0.02	0.00408	U
L1803661	L1803661-04	ATMT-BH3-SG-8'	11/18/2024	SS	8270C-SIM	PYRENE	mg/kg	1	<	0.002	U	Not detected above MDL				0.002	0.006	0.002	U
L1803661	L1803661-04	ATMT-BH3-SG-8'	11/18/2024	SS	NWTPDX-SGT	DIESEL RANGE ORGANICS	mg/kg	1	<	1.33	U	Not detected above MDL				1.33	4	1.33	U
L1803661	L1803661-04	ATMT-BH3-SG-8'	11/18/2024	SS	NWTPGHX	TPHG C6 - C12	mg/kg	25	<	0.848	U	Not detected above MDL				0.848	2.5	0.848	U
L1803680	L1803680-01	ATMT-BH4-SG-5'	11/19/2024	SS	6010B	LEAD	mg/kg	1	<	15.4	U	Not detected above MDL				0.208	0.5	15.4	U
L1803680	L1803680-01	ATMT-BH4-SG-5'	11/19/2024	SS	8260D	1,2,4-TRIMETHYLBENZENE	mg/kg	1040	<	0.219	U	Not detected above MDL				0.219	1.04	0.219	U
L1803680	L1803680-01	ATMT-BH4-SG-5'	11/19/2024	SS	8260D	1,2-DIBROMOETHANE	mg/kg	1040	<	0.26	U	Not detected above MDL				0.26	1.04	0.26	U
L1803680	L1803680-01	ATMT-BH4-SG-5'	11/19/2024	SS	8260D	1,2-DICHLOROETHANE	mg/kg	1040	<	0.468	U	Not detected above MDL				0.468	1.04	0.468	U
L1803680	L1803680-01	ATMT-BH4-SG-5'	11/19/2024	SS	8260D	1,3,5-TRIMETHYLBENZENE	mg/kg	1040	<	0.277	U	Not detected above MDL				0.277	1.04	0.277	U
L1803680	L1803680-01	ATMT-BH4-SG-5'	11/19/2024	SS	8260D	BENZENE	mg/kg	1040	<	13.1	U	Not detected above MDL				0.39	1.04	13.1	U
L1803680	L1803680-01	ATMT-BH4-SG-5'	11/19/2024	SS	8260D	ETHYLBENZENE	mg/kg	1040	<	10	U	Not detected above MDL				0.312	1.04	10	U
L1803680	L1803680-01	ATMT-BH4-SG-5'	11/19/2024	SS	8260D	ISOPROPYLBENZENE	mg/kg	1040	<	4.51	U	Not detected above MDL				0.442	1.04	4.51	U
L1803680	L1803680-01	ATMT-BH4-SG-5'	11/19/2024	SS	8260D	METHYL TERT-BUTYL ETHER	mg/kg	1040	<	0.364	U	Not detected above MDL				0.364	1.04	0.364	U
L1803680	L1803680-01	ATMT-BH4-SG-5'	11/19/2024	SS	8260D	NAPHTHALENE	mg/kg	1040	<	5.18	U C3 J4	Not detected above MDL, Low continuing calibration indicating estimate, Batch QC outside accuracy range	5.18	UJ	LCS %R < Rec Limit	5.18	5.2	5.18	UJ
L1803680	L1803680-01	ATMT-BH4-SG-5'	11/19/2024	SS	8260D	N-PROPYLBENZENE	mg/kg	1040	<	23.2	U	Not detected above MDL				0.214	1.04	23.2	U
L1803680	L1803680-01	ATMT-BH4-SG-5'	11/19/2024	SS	8260D	TOLUENE	mg/kg	1040	<	1.28	U	Not detected above MDL				0.28	5.2	1.28	U
L1803680	L1803680-01	ATMT-BH4-SG-5'	11/19/2024	SS	8260D	XYLENES, TOTAL	mg/kg	1040	<	0.52	U	Not detected above MDL				0.52	3.12	0.52	U
L1803680	L1803680-01	ATMT-BH4-SG-5'	11/19/2024	SS	8270C-SIM	ACENAPHTHENE	mg/kg	1	<	0.00397	J	Detected below RL	0.00397	J-	Surrogate %R < Rec Limit	0.00209	0.006	0.00397	J-
L1803680	L1803680-01	ATMT-BH4-SG-5'	11/19/2024	SS	8270C-SIM	ANTHRACENE	mg/kg	1	<	0.0023	U	Not detected above MDL				0.0023	0.006	0.0023	U
L1803680	L1803680-01	ATMT-BH4-SG-5'	11/19/2024	SS	8270C-SIM	BENZO(A)ANTHRACENE	mg/kg	1	<	0.00173	U	Not detected above MDL				0.00173	0.006	0.00173	U
L1803680	L1803680-01	ATMT-BH4-SG-5'	11/19/2024	SS	8270C-SIM	BENZO(A)PYRENE	mg/kg	1	<	0.00179	U	Not detected above MDL				0.00179	0.006	0.00179	U
L1803680	L1803680-01	ATMT-BH4-SG-5'	11/19/2024	SS	8270C-SIM	BENZO(B)FLUORANTHENE	mg/kg	1	<	0.00153	U	Not detected above MDL				0.00153	0.006	0.00153	U
L1803680	L1803680-01	ATMT-BH4-SG-5'	11/19/2024	SS	8270C-SIM	BENZO(K)FLUORANTHENE	mg/kg	1	<	0.00215	U	Not detected above MDL				0.00215	0.006	0.00215	U
L1803680	L1803680-01	ATMT-BH4-SG-5'	11/19/2024	SS	8270C-SIM	CHRYSENE	mg/kg	1	<	0.00232	U	Not detected above MDL				0.00232	0.006	0.00232	U
L1803680	L1803680-01	ATMT-BH4-SG-5'	11/19/2024	SS	8270C-SIM	DIBENZ(A,H)ANTHRACENE	mg/kg	1	<	0.00172	U	Not detected above MDL				0.00172	0.006	0.00172	U
L1803680	L1803680-01	ATMT-BH4-SG-5'	11/19/2024	SS	8270C-SIM	FLUORANTHENE	mg/kg	1	<	0.00227	U	Not detected above MDL				0.00227	0.006	0.00227	U
L1803680	L1803680-01	ATMT-BH4-SG-5'	11/19/2024	SS	8270C-SIM	FLUORENE	mg/kg	1	<	0.00489	J	Detected below RL	0.00489						

SDG	Lab Sample ID	Client Sample ID	Date Collected	Matrix	Method	Analyte	Units	Dilution	Result Sign	Result	Lab Qualifier	Lab Qualifier Reason	Data Validation Result	Data Validation Qualifier	Validation Qual Reason	MDL	RDL	Final Result	Final Qualifier
L1803661	L1803661-05	ATMT-BH4-SG-8.5'	11/19/2024	SS	8270C-SIM	ANTHRACENE	mg/kg	1	<	0.0023 U		Not detected above MDL				0.0023	0.006	0.0023 U	
L1803661	L1803661-05	ATMT-BH4-SG-8.5'	11/19/2024	SS	8270C-SIM	BENZO(A)ANTHRACENE	mg/kg	1	<	0.00173 U		Not detected above MDL				0.00173	0.006	0.00173 U	
L1803661	L1803661-05	ATMT-BH4-SG-8.5'	11/19/2024	SS	8270C-SIM	BENZO(A)PYRENE	mg/kg	1	<	0.00179 U		Not detected above MDL				0.00179	0.006	0.00179 U	
L1803661	L1803661-05	ATMT-BH4-SG-8.5'	11/19/2024	SS	8270C-SIM	BENZO(B)FLUORANTHENE	mg/kg	1	<	0.00153 U		Not detected above MDL				0.00153	0.006	0.00153 U	
L1803661	L1803661-05	ATMT-BH4-SG-8.5'	11/19/2024	SS	8270C-SIM	BENZO(K)FLUORANTHENE	mg/kg	1	<	0.00215 U		Not detected above MDL				0.00215	0.006	0.00215 U	
L1803661	L1803661-05	ATMT-BH4-SG-8.5'	11/19/2024	SS	8270C-SIM	CHRYSENE	mg/kg	1	<	0.00232 U		Not detected above MDL				0.00232	0.006	0.00232 U	
L1803661	L1803661-05	ATMT-BH4-SG-8.5'	11/19/2024	SS	8270C-SIM	DIBENZ(A,H)ANTHRACENE	mg/kg	1	<	0.00172 U		Not detected above MDL				0.00172	0.006	0.00172 U	
L1803661	L1803661-05	ATMT-BH4-SG-8.5'	11/19/2024	SS	8270C-SIM	FLUORANTHENE	mg/kg	1	<	0.00227 U		Not detected above MDL				0.00227	0.006	0.00227 U	
L1803661	L1803661-05	ATMT-BH4-SG-8.5'	11/19/2024	SS	8270C-SIM	FLUORENE	mg/kg	1	<	0.00205 U		Not detected above MDL	0.00205 UJ		Surrogate %R < Rec. Limit	0.00205	0.006	0.00205 UJ	
L1803661	L1803661-05	ATMT-BH4-SG-8.5'	11/19/2024	SS	8270C-SIM	INDENO(1,2,3-CD)PYRENE	mg/kg	1	<	0.00181 U		Not detected above MDL				0.00181	0.006	0.00181 U	
L1803661	L1803661-05	ATMT-BH4-SG-8.5'	11/19/2024	SS	8270C-SIM	NAPHTHALENE	mg/kg	1	<	0.00408 U		Not detected above MDL				0.00408	0.02	0.00408 U	
L1803661	L1803661-05	ATMT-BH4-SG-8.5'	11/19/2024	SS	8270C-SIM	PYRENE	mg/kg	1	<	0.002 U		Not detected above MDL				0.002	0.006	0.002 U	
L1803661	L1803661-05	ATMT-BH4-SG-8.5'	11/19/2024	SS	NWTPHDX-SGT	DIESEL RANGE ORGANICS	mg/kg	1	<	1.33 U		Not detected above MDL				1.33	4	1.33 U	
L1803661	L1803661-05	ATMT-BH4-SG-8.5'	11/19/2024	SS	NWTPHGX	TPHG C6 - C12	mg/kg	27.3	<	4.38 B		Method Blank Detection	4.38 J+		Method Blank Detection	0.925	2.73	4.38 J+	
L1803680	L1803680-02	ATMT-BH5-SG-7.5'	11/19/2024	SS	6010B	LEAD	mg/kg	1	<	3.88						0.208	0.5	3.88	
L1803680	L1803680-02	ATMT-BH5-SG-7.5'	11/19/2024	SS	8260D	1,2,4-TRIMETHYLBENZENE	mg/kg	25	<	0.00528 U		Not detected above MDL				0.00528	0.025	0.00528 U	
L1803680	L1803680-02	ATMT-BH5-SG-7.5'	11/19/2024	SS	8260D	1,2-DIBROMOETHANE	mg/kg	25	<	0.00625 U		Not detected above MDL				0.00625	0.025	0.00625 U	
L1803680	L1803680-02	ATMT-BH5-SG-7.5'	11/19/2024	SS	8260D	1,2-DICHLOROETHANE	mg/kg	25	<	0.0113 U		Not detected above MDL				0.0113	0.025	0.0113 U	
L1803680	L1803680-02	ATMT-BH5-SG-7.5'	11/19/2024	SS	8260D	1,3,5-TRIMETHYLBENZENE	mg/kg	25	<	0.00665 U		Not detected above MDL				0.00665	0.025	0.00665 U	
L1803680	L1803680-02	ATMT-BH5-SG-7.5'	11/19/2024	SS	8260D	BENZENE	mg/kg	25	<	0.00938 U		Not detected above MDL				0.00938	0.025	0.00938 U	
L1803680	L1803680-02	ATMT-BH5-SG-7.5'	11/19/2024	SS	8260D	ETHYLBENZENE	mg/kg	25	<	0.0075 U		Not detected above MDL				0.0075	0.025	0.0075 U	
L1803680	L1803680-02	ATMT-BH5-SG-7.5'	11/19/2024	SS	8260D	ISOPROPYLBENZENE	mg/kg	25	<	0.0106 U		Not detected above MDL				0.0106	0.025	0.0106 U	
L1803680	L1803680-02	ATMT-BH5-SG-7.5'	11/19/2024	SS	8260D	METHYL TERT-BUTYL ETHER	mg/kg	25	<	0.00875 U		Not detected above MDL				0.00875	0.025	0.00875 U	
L1803680	L1803680-02	ATMT-BH5-SG-7.5'	11/19/2024	SS	8260D	NAPHTHALENE	mg/kg	25	<	0.125 U	U C3 J4	Not detected above MDL. Low continuing calibration indicating estimate, Batch QC outside accuracy range	0.125 UJ		LCS %R < Rec Limit	0.125	0.125	0.125 UJ	
L1803680	L1803680-02	ATMT-BH5-SG-7.5'	11/19/2024	SS	8260D	N-PROPYLBENZENE	mg/kg	25	<	0.00515 U		Not detected above MDL				0.00515	0.025	0.00515 U	
L1803680	L1803680-02	ATMT-BH5-SG-7.5'	11/19/2024	SS	8260D	TOLUENE	mg/kg	25	<	0.0308 U		Not detected above MDL				0.0308	0.125	0.0308 U	
L1803680	L1803680-02	ATMT-BH5-SG-7.5'	11/19/2024	SS	8260D	XYLENES, TOTAL	mg/kg	25	<	0.0125 U		Not detected above MDL				0.0125	0.075	0.0125 U	
L1803680	L1803680-02	ATMT-BH5-SG-7.5'	11/19/2024	SS	8270C-SIM	ACENAPHTHENE	mg/kg	1	<	0.00209 U		Not detected above MDL	0.00209 UJ		Surrogate %R < Rec. Limit	0.00209	0.006	0.00209 UJ	
L1803680	L1803680-02	ATMT-BH5-SG-7.5'	11/19/2024	SS	8270C-SIM	ANTHRACENE	mg/kg	1	<	0.0023 U		Not detected above MDL				0.0023	0.006	0.0023 U	
L1803680	L1803680-02	ATMT-BH5-SG-7.5'	11/19/2024	SS	8270C-SIM	BENZO(A)ANTHRACENE	mg/kg	1	<	0.00173 U		Not detected above MDL				0.00173	0.006	0.00173 U	
L1803680	L1803680-02	ATMT-BH5-SG-7.5'	11/19/2024	SS	8270C-SIM	BENZO(A)PYRENE	mg/kg	1	<	0.00179 U		Not detected above MDL				0.00179	0.006	0.00179 U	
L1803680	L1803680-02	ATMT-BH5-SG-7.5'	11/19/2024	SS	8270C-SIM	BENZO(B)FLUORANTHENE	mg/kg	1	<	0.00153 U		Not detected above MDL				0.00153	0.006	0.00153 U	
L1803680	L1803680-02	ATMT-BH5-SG-7.5'	11/19/2024	SS	8270C-SIM	BENZO(K)FLUORANTHENE	mg/kg	1	<	0.00215 U		Not detected above MDL				0.00215	0.006	0.00215 U	
L1803680	L1803680-02	ATMT-BH5-SG-7.5'	11/19/2024	SS	8270C-SIM	CHRYSENE	mg/kg	1	<	0.00232 U		Not detected above MDL				0.00232	0.006	0.00232 U	
L1803680	L1803680-02	ATMT-BH5-SG-7.5'	11/19/2024	SS	8270C-SIM	DIBENZ(A,H)ANTHRACENE	mg/kg	1	<	0.00172 U		Not detected above MDL				0.00172	0.006	0.00172 U	
L1803680	L1803680-02	ATMT-BH5-SG-7.5'	11/19/2024	SS	8270C-SIM	FLUORANTHENE	mg/kg	1	<	0.00227 U		Not detected above MDL				0.00227	0.006	0.00227 U	
L1803680	L1803680-02	ATMT-BH5-SG-7.5'	11/19/2024	SS	8270C-SIM	FLUORENE	mg/kg	1	<	0.00205 U		Not detected above MDL	0.00205 UJ		Surrogate %R < Rec. Limit	0.00205	0.006	0.00205 UJ	
L1803680	L1803680-02	ATMT-BH5-SG-7.5'	11/19/2024	SS	8270C-SIM	INDENO(1,2,3-CD)PYRENE	mg/kg	1	<	0.00181 U		Not detected above MDL				0.00181	0.006	0.00181 U	
L1803680	L1803680-02	ATMT-BH5-SG-7.5'	11/19/2024	SS	8270C-SIM	NAPHTHALENE	mg/kg	1	<	0.00408 U		Not detected above MDL				0.00408	0.02	0.00408 U	
L1803680	L1803680-02	ATMT-BH5-SG-7.5'	11/19/2024	SS	8270C-SIM	PYRENE	mg/kg	1	<	0.002 U		Not detected above MDL				0.002	0.006	0.002 U	
L1803680	L1803680-02	ATMT-BH5-SG-7.5'	11/19/2024	SS	NWTPHDX-SGT	DIESEL RANGE ORGANICS	mg/kg	1	<	1.33 U		Not detected above MDL				1.33	4	1.33 U	
L1803680	L1803680-02	ATMT-BH5-SG-7.5'	11/19/2024	SS	NWTPHGX	TPHG C6 - C12	mg/kg	25	<	0.848 U		Not detected above MDL				0.848	2.5	0.848 U	
L1803680	L1803680-03	ATMT-BH6-SG-4'	11/19/2024	SS	6010B	LEAD	mg/kg	1	<	21.5						0.208	0.5	21.5	
L1803680	L1803680-03	ATMT-BH6-SG-4'	11/19/2024	SS	8260D	1,2,4-TRIMETHYLBENZENE	mg/kg	25	<	0.0309						0.00528	0.025	0.0309	
L1803680	L1803680-03	ATMT-BH6-SG-4'	11/19/2024	SS	8260D	1,2-DIBROMOETHANE	mg/kg	25	<	0.00625 U		Not detected above MDL				0.00625	0.025	0.00625 U	
L1803680	L1803680-03	ATMT-BH6-SG-4'	11/19/2024	SS	8260D	1,2-DICHLOROETHANE	mg/kg	25	<	0.0113 U		Not detected above MDL				0.0113	0.025	0.0113 U	
L1803680	L1803680-03	ATMT-BH6-SG-4'	11/19/2024	SS	8260D	1,3,5-TRIMETHYLBENZENE	mg/kg	25	<	0.0196 J		Detected below RL				0.00665	0.025	0.0196 J	
L1803680	L1803680-03	ATMT-BH6-SG-4'	11/19/2024	SS	8260D	BENZENE	mg/kg	25	<	0.0516						0.00938	0.025	0.0516	
L1803680	L1803680-03	ATMT-BH6-SG-4'	11/19/2024	SS	8260D	ETHYLBENZENE	mg/kg	25	<	0.0075 U		Not detected above MDL				0.0075	0.025	0.0075 U	
L1803680	L1803680-03	ATMT-BH6-SG-4'	11/19/2024	SS	8260D	ISOPROPYLBENZENE	mg/kg	25	<	0.0358						0.0106	0.025	0.0358	
L1803680	L1803680-03	ATMT-BH6-SG-4'	11/19/2024	SS	8260D	METHYL TERT-BUTYL ETHER	mg/kg	25	<	0.00875 U		Not detected above MDL				0.00875	0.025	0.00875 U	
L1803680	L1803680-03	ATMT-BH6-SG-4'	11/19/2024	SS	8260D	NAPHTHALENE	mg/kg	25	<	0.125 U	U C3 J4	Not detected above MDL. Low continuing calibration indicating estimate, Batch QC outside accuracy range	0.125 UJ		LCS %R < Rec Limit	0.125	0.125	0.125 UJ	
L1803680	L1803680-03	ATMT-BH6-SG-4'	11/19/2024	SS	8260D	N-PROPYLBENZENE	mg/kg	25	<	0.0429						0.00515	0.025	0.0429	
L1803680	L1803680-03	ATMT-BH6-SG-4'	11/19/2024	SS	8260D	TOLUENE	mg/kg	25	<	0.0308 U		Not detected above MDL				0.0308	0.125	0.0308 U	
L1803680	L1803680-03	ATMT-BH6-SG-4'	11/19/2024	SS	8260D	XYLENES, TOTAL	mg/kg	25	<	0.408						0.0125	0.075	0.408	
L1803680	L1803680-03	ATMT-BH6-SG-4'	11/19/2024	SS	8270C-SIM	ACENAPHTHENE	mg/kg	1	<	0.00684						0.00209	0.006	0.00684	
L1803680	L1803680-03	ATMT-BH6-SG-4'	11/19/2024	SS	8270C-SIM	ANTHRACENE	mg/kg	1	<	0.00478 J		Detected below RL				0.0023	0.006	0.00478 J	
L1803680	L1803680-03	ATMT-BH6-SG-4'	11/19/2024	SS	8270C-SIM	BENZO(A)ANTHRACENE	mg/kg	1	<	0.0062			</						

SDG	Lab Sample ID	Client Sample ID	Date Collected	Matrix	Method	Analyte	Units	Dilution	Result Sign	Result	Lab Qualifier	Lab Qualifier Reason	Data Validation Result	Data Validation Qualifier	Validation Qual Reason	MDL	RDL	Final Result	Final Qualifier
L1803680	L1803680-04	ATMT-BH6-SG-8'	11/19/2024	SS	8260D	NAPHTHALENE	mg/kg	25	<	0.125	U C3 J4	Not detected above MDL, Low continuing calibration indicating estimate. Batch QC outside accuracy range	0.125	UJ	LCS %R < Rec Limit	0.125	0.125	0.125	UJ
L1803680	L1803680-04	ATMT-BH6-SG-8'	11/19/2024	SS	8260D	N-PROPYLBENZENE	mg/kg	25	<	0.00515	U	Not detected above MDL				0.00515	0.025	0.00515	U
L1803680	L1803680-04	ATMT-BH6-SG-8'	11/19/2024	SS	8260D	TOLUENE	mg/kg	25	<	0.0308	U	Not detected above MDL				0.0308	0.125	0.0308	U
L1803680	L1803680-04	ATMT-BH6-SG-8'	11/19/2024	SS	8260D	XYLENES, TOTAL	mg/kg	25	<	0.0125	U	Not detected above MDL				0.0125	0.075	0.0125	U
L1803680	L1803680-04	ATMT-BH6-SG-8'	11/19/2024	SS	8270C-SIM	ACENAPHTHENE	mg/kg	1	<	0.00209	U	Not detected above MDL				0.00209	0.006	0.00209	U
L1803680	L1803680-04	ATMT-BH6-SG-8'	11/19/2024	SS	8270C-SIM	ANTHRACENE	mg/kg	1	<	0.0023	U	Not detected above MDL				0.0023	0.006	0.0023	U
L1803680	L1803680-04	ATMT-BH6-SG-8'	11/19/2024	SS	8270C-SIM	BENZO(A)ANTHRACENE	mg/kg	1	<	0.00173	U	Not detected above MDL				0.00173	0.006	0.00173	U
L1803680	L1803680-04	ATMT-BH6-SG-8'	11/19/2024	SS	8270C-SIM	BENZO(A)PYRENE	mg/kg	1	<	0.00179	U	Not detected above MDL				0.00179	0.006	0.00179	U
L1803680	L1803680-04	ATMT-BH6-SG-8'	11/19/2024	SS	8270C-SIM	BENZO(B)FLUORANTHENE	mg/kg	1	<	0.00153	U	Not detected above MDL				0.00153	0.006	0.00153	U
L1803680	L1803680-04	ATMT-BH6-SG-8'	11/19/2024	SS	8270C-SIM	BENZO(K)FLUORANTHENE	mg/kg	1	<	0.00215	U	Not detected above MDL				0.00215	0.006	0.00215	U
L1803680	L1803680-04	ATMT-BH6-SG-8'	11/19/2024	SS	8270C-SIM	CHRYSENE	mg/kg	1	<	0.00232	U	Not detected above MDL				0.00232	0.006	0.00232	U
L1803680	L1803680-04	ATMT-BH6-SG-8'	11/19/2024	SS	8270C-SIM	DIBENZ(A,H)ANTHRACENE	mg/kg	1	<	0.00172	U	Not detected above MDL				0.00172	0.006	0.00172	U
L1803680	L1803680-04	ATMT-BH6-SG-8'	11/19/2024	SS	8270C-SIM	FLUORANTHENE	mg/kg	1	<	0.00227	U	Not detected above MDL				0.00227	0.006	0.00227	U
L1803680	L1803680-04	ATMT-BH6-SG-8'	11/19/2024	SS	8270C-SIM	FLUORENE	mg/kg	1	<	0.00205	U	Not detected above MDL				0.00205	0.006	0.00205	U
L1803680	L1803680-04	ATMT-BH6-SG-8'	11/19/2024	SS	8270C-SIM	INDENO(1,2,3-CD)PYRENE	mg/kg	1	<	0.00181	U	Not detected above MDL				0.00181	0.006	0.00181	U
L1803680	L1803680-04	ATMT-BH6-SG-8'	11/19/2024	SS	8270C-SIM	NAPHTHALENE	mg/kg	1	<	0.00408	U	Not detected above MDL				0.00408	0.02	0.00408	U
L1803680	L1803680-04	ATMT-BH6-SG-8'	11/19/2024	SS	8270C-SIM	PYRENE	mg/kg	1	<	0.002	U	Not detected above MDL				0.002	0.006	0.002	U
L1803680	L1803680-04	ATMT-BH6-SG-8'	11/19/2024	SS	NWTPHDX-SGT	DIESEL RANGE ORGANICS	mg/kg	1	<	1.33	U	Not detected above MDL				1.33	4	1.33	U
L1803680	L1803680-04	ATMT-BH6-SG-8'	11/19/2024	SS	NWTPHGX	TPHG C6 - C12	mg/kg	25	<	0.848	U	Not detected above MDL				0.848	2.5	0.848	U
L1803636	L1803636-03	ATMT-RINSATE	11/20/2024	GW	8010B	LEAD	mg/l	1	<	0.00299	U	Not detected above MDL				0.00299	0.006	0.00299	U
L1803636	L1803636-03	ATMT-RINSATE	11/20/2024	GW	8260D	1,2,4-TRIMETHYLBENZENE	mg/l	1	<	0.000322	U	Not detected above MDL				0.000322	0.001	0.000322	U
L1803636	L1803636-03	ATMT-RINSATE	11/20/2024	GW	8260D	1,2-DIBROMOETHANE	mg/l	1	<	0.000126	U	Not detected above MDL				0.000126	0.001	0.000126	U
L1803636	L1803636-03	ATMT-RINSATE	11/20/2024	GW	8260D	1,2-DICHLOROETHANE	mg/l	1	<	0.0000819	U	Not detected above MDL				0.0000819	0.001	0.0000819	U
L1803636	L1803636-03	ATMT-RINSATE	11/20/2024	GW	8260D	1,3,5-TRIMETHYLBENZENE	mg/l	1	<	0.000104	U	Not detected above MDL				0.000104	0.001	0.000104	U
L1803636	L1803636-03	ATMT-RINSATE	11/20/2024	GW	8260D	BENZENE	mg/l	1	<	0.0000941	U	Not detected above MDL				0.0000941	0.001	0.0000941	U
L1803636	L1803636-03	ATMT-RINSATE	11/20/2024	GW	8260D	ETHYLBENZENE	mg/l	1	<	0.000137	U	Not detected above MDL				0.000137	0.001	0.000137	U
L1803636	L1803636-03	ATMT-RINSATE	11/20/2024	GW	8260D	ISOPROPYLBENZENE	mg/l	1	<	0.000105	U	Not detected above MDL				0.000105	0.001	0.000105	U
L1803636	L1803636-03	ATMT-RINSATE	11/20/2024	GW	8260D	METHYL TERT-BUTYL ETHER	mg/l	1	<	0.000101	U	Not detected above MDL				0.000101	0.001	0.000101	U
L1803636	L1803636-03	ATMT-RINSATE	11/20/2024	GW	8260D	NAPHTHALENE	mg/l	1	<	0.001	U	Not detected above MDL				0.001	0.005	0.001	U
L1803636	L1803636-03	ATMT-RINSATE	11/20/2024	GW	8260D	N-PROPYLBENZENE	mg/l	1	<	0.0000993	U	Not detected above MDL				0.0000993	0.001	0.0000993	U
L1803636	L1803636-03	ATMT-RINSATE	11/20/2024	GW	8260D	TOLUENE	mg/l	1	<	0.000278	U	Not detected above MDL				0.000278	0.001	0.000278	U
L1803636	L1803636-03	ATMT-RINSATE	11/20/2024	GW	8260D	XYLENES, TOTAL	mg/l	1	<	0.000174	U	Not detected above MDL				0.000174	0.003	0.000174	U
L1803636	L1803636-03	ATMT-RINSATE	11/20/2024	GW	8270C-SIM	ACENAPHTHENE	mg/l	1	<	0.000019	U	Not detected above MDL				0.000019	0.00005	0.000019	U
L1803636	L1803636-03	ATMT-RINSATE	11/20/2024	GW	8270C-SIM	ANTHRACENE	mg/l	1	<	0.000019	U	Not detected above MDL				0.000019	0.00005	0.000019	U
L1803636	L1803636-03	ATMT-RINSATE	11/20/2024	GW	8270C-SIM	BENZO(A)ANTHRACENE	mg/l	1	<	0.0000203	U	Not detected above MDL				0.0000203	0.00005	0.0000203	U
L1803636	L1803636-03	ATMT-RINSATE	11/20/2024	GW	8270C-SIM	BENZO(A)PYRENE	mg/l	1	<	0.0000184	U	Not detected above MDL				0.0000184	0.00005	0.0000184	U
L1803636	L1803636-03	ATMT-RINSATE	11/20/2024	GW	8270C-SIM	BENZO(B)FLUORANTHENE	mg/l	1	<	0.0000168	U	Not detected above MDL				0.0000168	0.00005	0.0000168	U
L1803636	L1803636-03	ATMT-RINSATE	11/20/2024	GW	8270C-SIM	BENZO(K)FLUORANTHENE	mg/l	1	<	0.0000202	U	Not detected above MDL				0.0000202	0.00005	0.0000202	U
L1803636	L1803636-03	ATMT-RINSATE	11/20/2024	GW	8270C-SIM	CHRYSENE	mg/l	1	<	0.000179	U	Not detected above MDL				0.000179	0.00005	0.000179	U
L1803636	L1803636-03	ATMT-RINSATE	11/20/2024	GW	8270C-SIM	DIBENZ(A,H)ANTHRACENE	mg/l	1	<	0.000016	U	Not detected above MDL				0.000016	0.00005	0.000016	U
L1803636	L1803636-03	ATMT-RINSATE	11/20/2024	GW	8270C-SIM	FLUORANTHENE	mg/l	1	<	0.000027	U	Not detected above MDL				0.000027	0.0001	0.000027	U
L1803636	L1803636-03	ATMT-RINSATE	11/20/2024	GW	8270C-SIM	FLUORENE	mg/l	1	<	0.0000169	U	Not detected above MDL				0.0000169	0.00005	0.0000169	U
L1803636	L1803636-03	ATMT-RINSATE	11/20/2024	GW	8270C-SIM	INDENO(1,2,3-CD)PYRENE	mg/l	1	<	0.0000158	U	Not detected above MDL				0.0000158	0.00005	0.0000158	U
L1803636	L1803636-03	ATMT-RINSATE	11/20/2024	GW	8270C-SIM	NAPHTHALENE	mg/l	1	<	0.0000917	U	Not detected above MDL				0.0000917	0.00025	0.0000917	U
L1803636	L1803636-03	ATMT-RINSATE	11/20/2024	GW	8270C-SIM	PYRENE	mg/l	1	<	0.0000169	U	Not detected above MDL				0.0000169	0.00005	0.0000169	U
L1803636	L1803636-03	ATMT-RINSATE	11/20/2024	GW	NWTPHDX-SGT	DIESEL RANGE ORGANICS	mg/l	1	<	0.0667	U	Not detected above MDL				0.0667	0.2	0.0667	U
L1803636	L1803636-03	ATMT-RINSATE	11/20/2024	GW	NWTPHGX	TPHG C6 - C12	mg/l	1	<	0.0316	U	Not detected above MDL				0.0316	0.1	0.0316	U
L1804697	L1804697-01	ATMT-TMW-1	11/20/2024	GW	8010B	LEAD	mg/l	1	<	0.0032	J	Detected below RL				0.00299	0.006	0.0032	J
L1804697	L1804697-01	ATMT-TMW-1	11/20/2024	GW	8260D	1,2,4-TRIMETHYLBENZENE	mg/l	1	<	0.000322	U	Not detected above MDL	0.000322	UJ	Temperature > 6°C	0.000322	0.001	0.000322	UJ
L1804697	L1804697-01	ATMT-TMW-1	11/20/2024	GW	8260D	1,2-DIBROMOETHANE	mg/l	1	<	0.000126	U	Not detected above MDL	0.000126	UJ	Temperature > 6°C	0.000126	0.001	0.000126	UJ
L1804697	L1804697-01	ATMT-TMW-1	11/20/2024	GW	8260D	1,2-DICHLOROETHANE	mg/l	1	<	0.0000819	U	Not detected above MDL	0.0000819	UJ	Temperature > 6°C	0.0000819	0.001	0.0000819	UJ
L1804697	L1804697-01	ATMT-TMW-1	11/20/2024	GW	8260D	1,3,5-TRIMETHYLBENZENE	mg/l	1	<	0.000104	U	Not detected above MDL	0.000104	UJ	Temperature > 6°C	0.000104	0.001	0.000104	UJ
L1804697	L1804697-01	ATMT-TMW-1	11/20/2024	GW	8260D	BENZENE	mg/l	1	<	0.000155	J	Detected below RL	0.000155	J	Temperature > 6°C	0.0000941	0.001	0.000155	J
L1804697	L1804697-01	ATMT-TMW-1	11/20/2024	GW	8260D	ETHYLBENZENE	mg/l	1	<	0.000137	U	Not detected above MDL	0.000137	UJ	Temperature > 6°C	0.000137	0.001	0.000137	UJ
L1804697	L1804697-01	ATMT-TMW-1	11/20/2024	GW	8260D	ISOPROPYLBENZENE	mg/l	1	<	0.00299	J	Detected below RL	0.00299	J	Temperature > 6°C	0.000105	0.001	0.00299	J
L1804697	L1804697-01	ATMT-TMW-1	11/20/2024	GW	8260D	METHYL TERT-BUTYL ETHER	mg/l	1	<	0.000235	J	Detected below RL	0.000235	J	Temperature > 6°C	0.000101	0.001	0.000235	J
L1804697	L1804697-01	ATMT-TMW-1	11/20/2024	GW	8260D	NAPHTHALENE	mg/l	1	<	0.001	U	Not detected above MDL	0.001						

SDG	Lab Sample ID	Client Sample ID	Date Collected	Matrix	Method	Analyte	Units	Dilution	Result Sign	Result	Lab Qualifier	Lab Qualifier Reason	Data Validation Result	Data Validation Qualifier	Validation Qual Reason	MDL	RDL	Final Result	Final Qualifier
L1804697	L1804697-01	ATMT-TMW-1	11/20/2024	GW	8270C-SIM	NAPHTHALENE	mg/l	1	<	0.0000917	U T8	Not detected above MDL, HT exceedance	0.0000917	UJ	Temperature > 6°C; HT exceedance	0.0000917	0.00025	0.0000917	UJ
L1804697	L1804697-01	ATMT-TMW-1	11/20/2024	GW	8270C-SIM	PYRENE	mg/l	1		0.0000204	J T8	Detected below RL, HT exceedance	0.0000204	J	Temperature > 6°C	0.0000169	0.00005	0.0000204	J
L1804697	L1804697-01	ATMT-TMW-1	11/20/2024	GW	NWTPHDX-SGT	DIESEL RANGE ORGANICS	mg/l	1		0.383	J		0.383	J	Temperature > 6°C	0.0667	0.2	0.383	J
L1804697	L1804697-01	ATMT-TMW-1	11/20/2024	GW	NWTPHGX	TPHG C6 - C12	mg/l	5		0.528	J		0.528	J	Temperature > 6°C; High MSD RPD	0.158	0.5	0.528	J
L1804697	L1804697-02	ATMT-TMW-2	11/20/2024	GW	6010B	LEAD	mg/l	1		0.00308	J	Detected below RL				0.00299	0.006	0.00308	J
L1804697	L1804697-02	ATMT-TMW-2	11/20/2024	GW	8260D	1,2,4-TRIMETHYLBENZENE	mg/l	1	<	0.000322	U	Not detected above MDL	0.000322	UJ	Temperature > 6°C	0.000322	0.001	0.000322	UJ
L1804697	L1804697-02	ATMT-TMW-2	11/20/2024	GW	8260D	1,2-DIBROMOETHANE	mg/l	1	<	0.000126	U	Not detected above MDL	0.000126	UJ	Temperature > 6°C	0.000126	0.001	0.000126	UJ
L1804697	L1804697-02	ATMT-TMW-2	11/20/2024	GW	8260D	1,2-DICHLOROETHANE	mg/l	1	<	0.0000819	U	Not detected above MDL	0.0000819	UJ	Temperature > 6°C	0.0000819	0.001	0.0000819	UJ
L1804697	L1804697-02	ATMT-TMW-2	11/20/2024	GW	8260D	1,3,5-TRIMETHYLBENZENE	mg/l	1	<	0.000104	U	Not detected above MDL	0.000104	UJ	Temperature > 6°C	0.000104	0.001	0.000104	UJ
L1804697	L1804697-02	ATMT-TMW-2	11/20/2024	GW	8260D	BENZENE	mg/l	1	<	0.0000941	U	Not detected above MDL	0.0000941	UJ	Temperature > 6°C	0.0000941	0.001	0.0000941	UJ
L1804697	L1804697-02	ATMT-TMW-2	11/20/2024	GW	8260D	ETHYLBENZENE	mg/l	1	<	0.000137	U	Not detected above MDL	0.000137	UJ	Temperature > 6°C	0.000137	0.001	0.000137	UJ
L1804697	L1804697-02	ATMT-TMW-2	11/20/2024	GW	8260D	ISOPROPYLBENZENE	mg/l	1	<	0.000105	U	Not detected above MDL	0.000105	UJ	Temperature > 6°C	0.000105	0.001	0.000105	UJ
L1804697	L1804697-02	ATMT-TMW-2	11/20/2024	GW	8260D	METHYL TERT-BUTYL ETHER	mg/l	1	<	0.000101	U	Not detected above MDL	0.000101	UJ	Temperature > 6°C	0.000101	0.001	0.000101	UJ
L1804697	L1804697-02	ATMT-TMW-2	11/20/2024	GW	8260D	NAPHTHALENE	mg/l	1	<	0.001	U	Not detected above MDL	0.001	UJ	Temperature > 6°C	0.001	0.005	0.001	UJ
L1804697	L1804697-02	ATMT-TMW-2	11/20/2024	GW	8260D	N-PROPYLBENZENE	mg/l	1	<	0.0000993	U	Not detected above MDL	0.0000993	UJ	Temperature > 6°C	0.0000993	0.001	0.0000993	UJ
L1804697	L1804697-02	ATMT-TMW-2	11/20/2024	GW	8260D	TOLUENE	mg/l	1	<	0.000278	U	Not detected above MDL	0.000278	UJ	Temperature > 6°C	0.000278	0.001	0.000278	UJ
L1804697	L1804697-02	ATMT-TMW-2	11/20/2024	GW	8260D	XYLENES, TOTAL	mg/l	1	<	0.000174	U	Not detected above MDL	0.000174	UJ	Temperature > 6°C	0.000174	0.0005	0.000174	UJ
L1804697	L1804697-02	ATMT-TMW-2	11/20/2024	GW	8270C-SIM	ACENAPHTHENE	mg/l	1	<	0.000019	U T8	Not detected above MDL, HT exceedance	0.000019	UJ	Temperature > 6°C	0.000019	0.0005	0.000019	UJ
L1804697	L1804697-02	ATMT-TMW-2	11/20/2024	GW	8270C-SIM	ANTHRACENE	mg/l	1	<	0.000019	U T8	Not detected above MDL, HT exceedance	0.000019	UJ	Temperature > 6°C	0.000019	0.0005	0.000019	UJ
L1804697	L1804697-02	ATMT-TMW-2	11/20/2024	GW	8270C-SIM	BENZO(A)ANTHRACENE	mg/l	1	<	0.0000203	U T8	Not detected above MDL, HT exceedance	0.0000203	UJ	Temperature > 6°C; HT exceedance	0.0000203	0.00005	0.0000203	UJ
L1804697	L1804697-02	ATMT-TMW-2	11/20/2024	GW	8270C-SIM	BENZO(A)PYRENE	mg/l	1	<	0.0000184	U T8	Not detected above MDL, HT exceedance	0.0000184	UJ	Temperature > 6°C	0.0000184	0.00005	0.0000184	UJ
L1804697	L1804697-02	ATMT-TMW-2	11/20/2024	GW	8270C-SIM	BENZO(B)FLUORANTHENE	mg/l	1	<	0.0000168	U T8	Not detected above MDL, HT exceedance	0.0000168	UJ	Temperature > 6°C	0.0000168	0.00005	0.0000168	UJ
L1804697	L1804697-02	ATMT-TMW-2	11/20/2024	GW	8270C-SIM	BENZO(K)FLUORANTHENE	mg/l	1	<	0.0000202	U T8	Not detected above MDL, HT exceedance	0.0000202	UJ	Temperature > 6°C	0.0000202	0.00005	0.0000202	UJ
L1804697	L1804697-02	ATMT-TMW-2	11/20/2024	GW	8270C-SIM	CHRYSENE	mg/l	1	<	0.0000179	U T8	Not detected above MDL, HT exceedance	0.0000179	UJ	Temperature > 6°C	0.0000179	0.00005	0.0000179	UJ
L1804697	L1804697-02	ATMT-TMW-2	11/20/2024	GW	8270C-SIM	DIBENZ(A,H)ANTHRACENE	mg/l	1	<	0.000016	U T8	Not detected above MDL, HT exceedance	0.000016	UJ	Temperature > 6°C; HT exceedance	0.000016	0.00005	0.000016	UJ
L1804697	L1804697-02	ATMT-TMW-2	11/20/2024	GW	8270C-SIM	FLUORANTHENE	mg/l	1	<	0.000027	U T8	Not detected above MDL, HT exceedance	0.000027	UJ	Temperature > 6°C	0.000027	0.0001	0.000027	UJ
L1804697	L1804697-02	ATMT-TMW-2	11/20/2024	GW	8270C-SIM	FLUORENE	mg/l	1	<	0.0000169	U T8	Not detected above MDL, HT exceedance	0.0000169	UJ	Temperature > 6°C	0.0000169	0.00005	0.0000169	UJ
L1804697	L1804697-02	ATMT-TMW-2	11/20/2024	GW	8270C-SIM	INDENO(1,2,3-CD)PYRENE	mg/l	1	<	0.0000158	U T8	Not detected above MDL, HT exceedance	0.0000158	UJ	Temperature > 6°C	0.0000158	0.00005	0.0000158	UJ
L1804697	L1804697-02	ATMT-TMW-2	11/20/2024	GW	8270C-SIM	NAPHTHALENE	mg/l	1	<	0.0000917	U T8	Not detected above MDL, HT exceedance	0.0000917	UJ	Temperature > 6°C; HT exceedance	0.0000917	0.00025	0.0000917	UJ
L1804697	L1804697-02	ATMT-TMW-2	11/20/2024	GW	8270C-SIM	PYRENE	mg/l	1	<	0.0000169	U T8	Not detected above MDL, HT exceedance	0.0000169	UJ	Temperature > 6°C	0.0000169	0.00005	0.0000169	UJ
L1804697	L1804697-02	ATMT-TMW-2	11/20/2024	GW	NWTPHDX-SGT	DIESEL RANGE ORGANICS	mg/l	1	<	0.0667	U	Not detected above MDL	0.0667	UJ	Temperature > 6°C	0.0667	0.2	0.0667	UJ
L1804697	L1804697-02	ATMT-TMW-2	11/20/2024	GW	NWTPHGX	TPHG C6 - C12	mg/l	1		0.0843	J U3	Detected below RL, Batch QC outside precision range	0.0843	J	Temperature > 6°C; High MSD RPD	0.0316	0.1	0.0843	J
L1804697	L1804697-03	ATMT-TMW-2-DUP	11/20/2024	GW	6010B	LEAD	mg/l	1	<	0.00299	U	Not detected above MDL				0.00299	0.006	0.00299	U
L1804697	L1804697-03	ATMT-TMW-2-DUP	11/20/2024	GW	8260D	1,2,4-TRIMETHYLBENZENE	mg/l	1	<	0.000322	U	Not detected above MDL	0.000322	UJ	Temperature > 6°C	0.000322	0.001	0.000322	UJ
L1804697	L1804697-03	ATMT-TMW-2-DUP	11/20/2024	GW	8260D	1,2-DIBROMOETHANE	mg/l	1	<	0.000126	U	Not detected above MDL	0.000126	UJ	Temperature > 6°C	0.000126	0.001	0.000126	UJ
L1804697	L1804697-03	ATMT-TMW-2-DUP	11/20/2024	GW	8260D	1,2-DICHLOROETHANE	mg/l	1	<	0.0000819	U	Not detected above MDL	0.0000819	UJ	Temperature > 6°C	0.0000819	0.001	0.0000819	UJ
L1804697	L1804697-03	ATMT-TMW-2-DUP	11/20/2024	GW	8260D	1,3,5-TRIMETHYLBENZENE	mg/l	1	<	0.000104	U	Not detected above MDL	0.000104	UJ	Temperature > 6°C	0.000104	0.001	0.000104	UJ
L1804697	L1804697-03	ATMT-TMW-2-DUP	11/20/2024	GW	8260D	BENZENE	mg/l	1	<	0.0000941	U	Not detected above MDL	0.0000941	UJ	Temperature > 6°C	0.0000941	0.001	0.0000941	UJ
L1804697	L1804697-03	ATMT-TMW-2-DUP	11/20/2024	GW	8260D	ETHYLBENZENE	mg/l	1	<	0.000137	U	Not detected above MDL	0.000137	UJ	Temperature > 6°C	0.000137	0.001	0.000137	UJ
L1804697	L1804697-03	ATMT-TMW-2-DUP	11/20/2024	GW	8260D	ISOPROPYLBENZENE	mg/l	1	<	0.000105	U	Not detected above MDL	0.000105	UJ	Temperature > 6°C	0.000105	0.001	0.000105	UJ
L1804697	L1804697-03	ATMT-TMW-2-DUP	11/20/2024	GW	8260D	METHYL TERT-BUTYL ETHER	mg/l	1	<	0.000101	U	Not detected above MDL	0.000101	UJ	Temperature > 6°C	0.000101	0.001	0.000101	UJ
L1804697	L1804697-03	ATMT-TMW-2-DUP	11/20/2024	GW	8260D	NAPHTHALENE	mg/l	1	<	0.001	U	Not detected above MDL	0.001	UJ	Temperature > 6°C	0.001	0.005	0.001	UJ
L1804697	L1804697-03	ATMT-TMW-2-DUP	11/20/2024	GW	8260D	N-PROPYLBENZENE	mg/l	1	<	0.0000993	U	Not detected above MDL	0.0000993	UJ	Temperature > 6°C	0.0000993	0.001	0.0000993	UJ
L1804697	L1804697-03	ATMT-TMW-2-DUP	11/20/2024	GW	8260D	TOLUENE	mg/l	1	<	0.000278	U	Not detected above MDL	0.000278	UJ	Temperature > 6°C	0.000278	0.001	0.000278	UJ
L1804697	L1804697-03	ATMT-TMW-2-DUP	11/20/2024	GW	8260D	XYLENES, TOTAL	mg/l	1	<	0.000174	U	Not detected above MDL	0.000174	UJ	Temperature > 6°C	0.000174	0.003	0.000174	UJ
L1804697	L1804697-03	ATMT-TMW-2-DUP	11/20/2024	GW	8270C-SIM	ACENAPHTHENE	mg/l	1	<	0.000019	U T8	Not detected above MDL, HT exceedance	0.000019	UJ	Temperature > 6°C	0.000019	0.00005	0.000019	UJ
L1804697	L1804697-03	ATMT-TMW-2-DUP	11/20/2024	GW	8270C-SIM	ANTHRACENE	mg/l	1	<	0.000019	U T8	Not detected above MDL, HT exceedance	0.000019	UJ	Temperature > 6°C	0.000019	0.00005	0.000019	UJ
L1804697	L1804697-03	ATMT-TMW-2-DUP	11/20/2024	GW	8270C-SIM	BENZO(A)ANTHRACENE	mg/l	1	<	0.0000203	U T8	Not detected above MDL, HT exceedance	0.0000203	UJ	Temperature > 6°C; HT exceedance	0.0000203	0.00005	0.0000203	UJ
L1804697	L1804697-03	ATMT-TMW-2-DUP	11/20/2024	GW	8270C-SIM	BENZO(A)PYRENE	mg/l	1	<	0.0000184	U T8	Not detected above MDL, HT exceedance	0.0000184	UJ	Temperature > 6°C	0.0000184	0.00005	0.0000184	UJ
L1804697	L1804697-03	ATMT-TMW-2-DUP	11/20/2024	GW	8270C-SIM	BENZO(B)FLUORANTHENE	mg/l	1	<	0.0000168	U T8	Not detected above MDL, HT exceedance	0.0000168	UJ	Temperature > 6°C	0.0000168	0.00005	0.0000168	UJ
L1804697	L1804697-03	ATMT-TMW-2-DUP	11/20/2024	GW	8270C-SIM	BENZO(K)FLUORANTHENE	mg/l	1	<	0.0000202	U T8	Not detected above MDL, HT exceedance	0.0000202	UJ	Temperature > 6°C	0.0000202	0.00005	0.0000202	UJ
L1804697	L1804697-03	ATMT-TMW-2-DUP	11/20/2024	GW	8270C-SIM	CHRYSENE	mg/l	1	<	0.0000179</									

SDG	Lab Sample ID	Client Sample ID	Date Collected	Matrix	Method	Analyte	Units	Dilution	Result Sign	Result	Lab Qualifier	Lab Qualifier Reason	Data Validation Result	Data Validation Qualifier	Validation Qual Reason	MDL	RDL	Final Result	Final Qualifier
L1804697	L1804697-03	ATMT-TMW-2-DUP	11/20/2024	GW	8270C-SIM	PYRENE	mg/l	1	<	0.0000169	U T8	Not detected above MDL, HT exceedance	0.0000169	UJ	Temperature > 6°C	0.0000169	0.00005	0.0000169	UJ
L1804697	L1804697-03	ATMT-TMW-2-DUP	11/20/2024	GW	NWTPHDX-SGT	DIESEL RANGE ORGANICS	mg/l	1	<	0.0667	U	Not detected above MDL	0.0667	UJ	Temperature > 6°C	0.0667	0.2	0.0667	UJ
L1804697	L1804697-03	ATMT-TMW-2-DUP	11/20/2024	GW	NWTPHGX	TPHG C6 - C12	mg/l	1		0.0463	J	Detected below RL	0.0463	J	Temperature > 6°C; High MSD RPD	0.0316	0.1	0.0463	J
L1804697	L1804697-04	ATMT-TMW-3	11/20/2024	GW	6010B	LEAD	mg/l	1	<	0.00299	U	Not detected above MDL				0.00299	0.006	0.00299	UJ
L1804697	L1804697-04	ATMT-TMW-3	11/20/2024	GW	8260D	1,2,4-TRIMETHYLBENZENE	mg/l	1	<	0.000322	U	Not detected above MDL	0.000322	UJ	Temperature > 6°C	0.000322	0.001	0.000322	UJ
L1804697	L1804697-04	ATMT-TMW-3	11/20/2024	GW	8260D	1,2-DIBROMOETHANE	mg/l	1	<	0.000126	U	Not detected above MDL	0.000126	UJ	Temperature > 6°C	0.000126	0.001	0.000126	UJ
L1804697	L1804697-04	ATMT-TMW-3	11/20/2024	GW	8260D	1,2-DICHLOROETHANE	mg/l	1	<	0.0000819	U	Not detected above MDL	0.0000819	UJ	Temperature > 6°C	0.0000819	0.001	0.0000819	UJ
L1804697	L1804697-04	ATMT-TMW-3	11/20/2024	GW	8260D	1,3,5-TRIMETHYLBENZENE	mg/l	1	<	0.000104	U	Not detected above MDL	0.000104	UJ	Temperature > 6°C	0.000104	0.001	0.000104	UJ
L1804697	L1804697-04	ATMT-TMW-3	11/20/2024	GW	8260D	BENZENE	mg/l	1	<	0.0000941	U	Not detected above MDL	0.0000941	UJ	Temperature > 6°C	0.0000941	0.001	0.0000941	UJ
L1804697	L1804697-04	ATMT-TMW-3	11/20/2024	GW	8260D	ETHYLBENZENE	mg/l	1	<	0.000137	U	Not detected above MDL	0.000137	UJ	Temperature > 6°C	0.000137	0.001	0.000137	UJ
L1804697	L1804697-04	ATMT-TMW-3	11/20/2024	GW	8260D	ISOPROPYLBENZENE	mg/l	1	<	0.00105	U	Not detected above MDL	0.00105	UJ	Temperature > 6°C	0.00105	0.001	0.00105	UJ
L1804697	L1804697-04	ATMT-TMW-3	11/20/2024	GW	8260D	METHYL TERT-BUTYL ETHER	mg/l	1	<	0.0288	J	HT exceedance	0.0288	J	Temperature > 6°C	0.00101	0.001	0.0288	J
L1804697	L1804697-04	ATMT-TMW-3	11/20/2024	GW	8260D	NAPHTHALENE	mg/l	1	<	0.001	UJ	Not detected above MDL	0.001	UJ	Temperature > 6°C	0.001	0.005	0.001	UJ
L1804697	L1804697-04	ATMT-TMW-3	11/20/2024	GW	8260D	N-PROPYLBENZENE	mg/l	1	<	0.0000993	U	Not detected above MDL	0.0000993	UJ	Temperature > 6°C	0.0000993	0.001	0.0000993	UJ
L1804697	L1804697-04	ATMT-TMW-3	11/20/2024	GW	8260D	TOLUENE	mg/l	1	<	0.000278	U	Not detected above MDL	0.000278	UJ	Temperature > 6°C	0.000278	0.001	0.000278	UJ
L1804697	L1804697-04	ATMT-TMW-3	11/20/2024	GW	8260D	XYLENES, TOTAL	mg/l	1	<	0.000174	U	Not detected above MDL	0.000174	UJ	Temperature > 6°C	0.000174	0.003	0.000174	UJ
L1804697	L1804697-04	ATMT-TMW-3	11/20/2024	GW	8270C-SIM	ACENAPHTHENE	mg/l	1	<	0.000019	U T8	Not detected above MDL, HT exceedance	0.000019	UJ	Temperature > 6°C	0.000019	0.00005	0.000019	UJ
L1804697	L1804697-04	ATMT-TMW-3	11/20/2024	GW	8270C-SIM	ANTHRACENE	mg/l	1	<	0.000019	U T8	Not detected above MDL, HT exceedance	0.000019	UJ	Temperature > 6°C	0.000019	0.00005	0.000019	UJ
L1804697	L1804697-04	ATMT-TMW-3	11/20/2024	GW	8270C-SIM	BENZO(A)ANTHRACENE	mg/l	1	<	0.0000203	U T8	Not detected above MDL, HT exceedance	0.0000203	UJ	Temperature > 6°C; HT exceedance	0.0000203	0.00005	0.0000203	UJ
L1804697	L1804697-04	ATMT-TMW-3	11/20/2024	GW	8270C-SIM	BENZO(A)PYRENE	mg/l	1	<	0.0000184	U T8	Not detected above MDL, HT exceedance	0.0000184	UJ	Temperature > 6°C	0.0000184	0.00005	0.0000184	UJ
L1804697	L1804697-04	ATMT-TMW-3	11/20/2024	GW	8270C-SIM	BENZO(B)FLUORANTHENE	mg/l	1	<	0.0000168	U T8	Not detected above MDL, HT exceedance	0.0000168	UJ	Temperature > 6°C	0.0000168	0.00005	0.0000168	UJ
L1804697	L1804697-04	ATMT-TMW-3	11/20/2024	GW	8270C-SIM	BENZO(K)FLUORANTHENE	mg/l	1	<	0.0000202	U T8	Not detected above MDL, HT exceedance	0.0000202	UJ	Temperature > 6°C	0.0000202	0.00005	0.0000202	UJ
L1804697	L1804697-04	ATMT-TMW-3	11/20/2024	GW	8270C-SIM	CHRYSENE	mg/l	1	<	0.0000179	U T8	Not detected above MDL, HT exceedance	0.0000179	UJ	Temperature > 6°C	0.0000179	0.00005	0.0000179	UJ
L1804697	L1804697-04	ATMT-TMW-3	11/20/2024	GW	8270C-SIM	DIBENZ(A,H)ANTHRACENE	mg/l	1	<	0.000016	U T8	Not detected above MDL, HT exceedance	0.000016	UJ	Temperature > 6°C; HT exceedance	0.000016	0.00005	0.000016	UJ
L1804697	L1804697-04	ATMT-TMW-3	11/20/2024	GW	8270C-SIM	FLUORANTHENE	mg/l	1	<	0.000027	U T8	Not detected above MDL, HT exceedance	0.000027	UJ	Temperature > 6°C	0.000027	0.0001	0.000027	UJ
L1804697	L1804697-04	ATMT-TMW-3	11/20/2024	GW	8270C-SIM	FLUORENE	mg/l	1	<	0.0000169	U T8	Not detected above MDL, HT exceedance	0.0000169	UJ	Temperature > 6°C	0.0000169	0.00005	0.0000169	UJ
L1804697	L1804697-04	ATMT-TMW-3	11/20/2024	GW	8270C-SIM	INDENO(1,2,3-CD)PYRENE	mg/l	1	<	0.0000158	U T8	Not detected above MDL, HT exceedance	0.0000158	UJ	Temperature > 6°C	0.0000158	0.00005	0.0000158	UJ
L1804697	L1804697-04	ATMT-TMW-3	11/20/2024	GW	8270C-SIM	NAPHTHALENE	mg/l	1	<	0.0000917	U T8	Not detected above MDL, HT exceedance	0.0000917	UJ	Temperature > 6°C; HT exceedance	0.0000917	0.00025	0.0000917	UJ
L1804697	L1804697-04	ATMT-TMW-3	11/20/2024	GW	8270C-SIM	PYRENE	mg/l	1	<	0.0000169	U T8	Not detected above MDL, HT exceedance	0.0000169	UJ	Temperature > 6°C	0.0000169	0.00005	0.0000169	UJ
L1804697	L1804697-04	ATMT-TMW-3	11/20/2024	GW	NWTPHDX-SGT	DIESEL RANGE ORGANICS	mg/l	1	<	0.0667	U	Not detected above MDL, HT exceedance	0.0667	UJ	Temperature > 6°C	0.0667	0.2	0.0667	UJ
L1804697	L1804697-04	ATMT-TMW-3	11/20/2024	GW	NWTPHGX	TPHG C6 - C12	mg/l	1		0.0579	J	Detected below RL	0.0579	J	Temperature > 6°C; High MSD RPD	0.0316	0.1	0.0579	J
L1804697	L1804697-05	ATMT-TMW-4	11/20/2024	GW	6010B	LEAD	mg/l	1		0.00604						0.00299	0.006	0.00604	
L1804697	L1804697-05	ATMT-TMW-4	11/20/2024	GW	8260D	1,2,4-TRIMETHYLBENZENE	mg/l	1		0.000951	J	Detected below RL	0.000951	J	Temperature > 6°C	0.000322	0.001	0.000951	J
L1804697	L1804697-05	ATMT-TMW-4	11/20/2024	GW	8260D	1,2-DIBROMOETHANE	mg/l	1	<	0.000126	U	Not detected above MDL	0.000126	UJ	Temperature > 6°C	0.000126	0.001	0.000126	UJ
L1804697	L1804697-05	ATMT-TMW-4	11/20/2024	GW	8260D	1,2-DICHLOROETHANE	mg/l	1	<	0.0000819	U	Not detected above MDL	0.0000819	UJ	Temperature > 6°C	0.0000819	0.001	0.0000819	UJ
L1804697	L1804697-05	ATMT-TMW-4	11/20/2024	GW	8260D	1,3,5-TRIMETHYLBENZENE	mg/l	1		0.0000933	J	Detected below RL	0.0000933	J	Temperature > 6°C	0.000104	0.001	0.000933	J
L1804697	L1804697-05	ATMT-TMW-4	11/20/2024	GW	8260D	BENZENE	mg/l	20		0.737	T8	HT exceedance	0.737	J	Temperature > 6°C	0.00188	0.02	0.737	J
L1804697	L1804697-05	ATMT-TMW-4	11/20/2024	GW	8260D	ETHYLBENZENE	mg/l	20		0.204	T8	HT exceedance	0.204	J	Temperature > 6°C	0.00274	0.02	0.204	J
L1804697	L1804697-05	ATMT-TMW-4	11/20/2024	GW	8260D	ISOPROPYLBENZENE	mg/l	1		0.0235	J	HT exceedance	0.0235	J	Temperature > 6°C	0.000105	0.001	0.0235	J
L1804697	L1804697-05	ATMT-TMW-4	11/20/2024	GW	8260D	METHYL TERT-BUTYL ETHER	mg/l	1		0.0119	J		0.0119	J	Temperature > 6°C	0.000101	0.001	0.0119	J
L1804697	L1804697-05	ATMT-TMW-4	11/20/2024	GW	8260D	NAPHTHALENE	mg/l	1		0.0694	J		0.0694	J	Temperature > 6°C	0.001	0.005	0.0694	J
L1804697	L1804697-05	ATMT-TMW-4	11/20/2024	GW	8260D	N-PROPYLBENZENE	mg/l	1		0.0874	J		0.0874	J	Temperature > 6°C	0.0000993	0.001	0.0874	J
L1804697	L1804697-05	ATMT-TMW-4	11/20/2024	GW	8260D	TOLUENE	mg/l	1		0.00279	J		0.00279	J	Temperature > 6°C	0.000278	0.001	0.00279	J
L1804697	L1804697-05	ATMT-TMW-4	11/20/2024	GW	8260D	XYLENES, TOTAL	mg/l	1		0.00485	J		0.00485	J	Temperature > 6°C	0.000174	0.003	0.00485	J
L1804697	L1804697-05	ATMT-TMW-4	11/20/2024	GW	8270C-SIM	ACENAPHTHENE	mg/l	1		0.000159	T8	HT exceedance	0.000159	J	Temperature > 6°C	0.000019	0.00005	0.000159	J
L1804697	L1804697-05	ATMT-TMW-4	11/20/2024	GW	8270C-SIM	ANTHRACENE	mg/l	1	<	0.000019	U T8	Not detected above MDL, HT exceedance	0.000019	UJ	Temperature > 6°C	0.000019	0.00005	0.000019	UJ
L1804697	L1804697-05	ATMT-TMW-4	11/20/2024	GW	8270C-SIM	BENZO(A)ANTHRACENE	mg/l	1	<	0.0000203	U T8	Not detected above MDL, HT exceedance	0.0000203	UJ	Temperature > 6°C; HT exceedance	0.0000203	0.00005	0.0000203	UJ
L1804697	L1804697-05	ATMT-TMW-4	11/20/2024	GW	8270C-SIM	BENZO(A)PYRENE	mg/l	1	<	0.0000184	U T8	Not detected above MDL, HT exceedance	0.0000184	UJ	Temperature > 6°C	0.0000184	0.00005	0.0000184	UJ
L1804697	L1804697-05	ATMT-TMW-4	11/20/2024	GW	8270C-SIM	BENZO(B)FLUORANTHENE	mg/l	1	<	0.0000168	U T8	Not detected above MDL, HT exceedance	0.0000168	UJ	Temperature > 6°C	0.0000168	0.00005	0.0000168	UJ
L1804697	L1804697-05	ATMT-TMW-4	11/20/2024	GW	8270C-SIM	BENZO(K)FLUORANTHENE	mg/l	1	<	0.0000202	U T8	Not detected above MDL, HT exceedance	0.0000202	UJ	Temperature > 6°C	0.0000202	0.00005	0.0000202	UJ
L1804697	L1804697-05	ATMT-TMW-4	11/20/2024	GW	8270C-SIM	CHRYSENE	mg/l	1	<	0.0000179	U T8	Not detected above MDL, HT exceedance	0.0000179	UJ	Temperature > 6°C	0.0000179	0.00005	0.0000179	UJ
L1804697	L1804697-05	ATMT-TMW-4	11/20/2024	GW	8270C-SIM	DIBENZ(A,H)ANTHRACENE	mg/l	1	<	0.000016	U T8	Not detected above MDL, HT exceedance	0.000016	UJ	Temperature > 6°C; HT exceedance	0.000016	0.00005	0.000016	UJ
L1804697	L1804697-05	ATMT-TMW-4	11/20/2024	GW	8270C-SIM														

SDG	Lab Sample ID	Client Sample ID	Date Collected	Matrix	Method	Analyte	Units	Dilution	Result Sign	Result	Lab Qualifier	Lab Qualifier Reason	Data Validation Result	Data Validation Qualifier	Validation Qual Reason	MDL	RDL	Final Result	Final Qualifier
L1804697	L1804697-05	ATMT-TMW-4	11/20/2024	GW	NWTPHGX	TPHG C6 - C12	mg/l	1		5.56			5.56	J	Temperature > 6°C; High MSD RPD	0.0316	0.1	5.56	J
L1803636	L1803636-01	ATMT-TMW-5	11/20/2024	GW	8260D	LEAD	mg/l	1	<	0.00299	U	Not detected above MDL				0.00299	0.006	0.00299	U
L1803636	L1803636-01	ATMT-TMW-5	11/20/2024	GW	8260D	1,2,4-TRIMETHYLBENZENE	mg/l	1	<	0.00322	U	Not detected above MDL				0.00322	0.001	0.00322	U
L1803636	L1803636-01	ATMT-TMW-5	11/20/2024	GW	8260D	1,2-DIBROMOETHANE	mg/l	1	<	0.00126	U	Not detected above MDL				0.00126	0.001	0.00126	U
L1803636	L1803636-01	ATMT-TMW-5	11/20/2024	GW	8260D	1,2-DICHLOROETHANE	mg/l	1	<	0.000819	U	Not detected above MDL				0.000819	0.001	0.000819	U
L1803636	L1803636-01	ATMT-TMW-5	11/20/2024	GW	8260D	1,3,5-TRIMETHYLBENZENE	mg/l	1	<	0.00104	U	Not detected above MDL				0.00104	0.001	0.00104	U
L1803636	L1803636-01	ATMT-TMW-5	11/20/2024	GW	8260D	BENZENE	mg/l	1	<	0.000941	U	Not detected above MDL				0.000941	0.001	0.000941	U
L1803636	L1803636-01	ATMT-TMW-5	11/20/2024	GW	8260D	ETHYLBENZENE	mg/l	1	<	0.00137	U	Not detected above MDL				0.00137	0.001	0.00137	U
L1803636	L1803636-01	ATMT-TMW-5	11/20/2024	GW	8260D	ISOPROPYLBENZENE	mg/l	1	<	0.00105	U	Not detected above MDL				0.00105	0.001	0.00105	U
L1803636	L1803636-01	ATMT-TMW-5	11/20/2024	GW	8260D	METHYL TERT-BUTYL ETHER	mg/l	1	<	0.0113	U	Not detected above MDL				0.00101	0.001	0.0113	U
L1803636	L1803636-01	ATMT-TMW-5	11/20/2024	GW	8260D	NAPHTHALENE	mg/l	1	<	0.001	U	Not detected above MDL				0.001	0.005	0.001	U
L1803636	L1803636-01	ATMT-TMW-5	11/20/2024	GW	8260D	N-PROPYLBENZENE	mg/l	1	<	0.000993	U	Not detected above MDL				0.000993	0.001	0.000993	U
L1803636	L1803636-01	ATMT-TMW-5	11/20/2024	GW	8260D	TOLUENE	mg/l	1	<	0.00278	U	Not detected above MDL				0.00278	0.001	0.00278	U
L1803636	L1803636-01	ATMT-TMW-5	11/20/2024	GW	8260D	XYLENES, TOTAL	mg/l	1	<	0.00174	U	Not detected above MDL				0.00174	0.003	0.00174	U
L1803636	L1803636-01	ATMT-TMW-5	11/20/2024	GW	8270C-SIM	ACENAPHTHENE	mg/l	1	<	0.00019	U	Not detected above MDL				0.00019	0.0005	0.00019	U
L1803636	L1803636-01	ATMT-TMW-5	11/20/2024	GW	8270C-SIM	ANTHRACENE	mg/l	1	<	0.00019	U	Not detected above MDL				0.00019	0.0005	0.00019	U
L1803636	L1803636-01	ATMT-TMW-5	11/20/2024	GW	8270C-SIM	BENZO(A)ANTHRACENE	mg/l	1	<	0.000203	U	Not detected above MDL				0.000203	0.0005	0.000203	U
L1803636	L1803636-01	ATMT-TMW-5	11/20/2024	GW	8270C-SIM	BENZO(A)PYRENE	mg/l	1	<	0.000184	U	Not detected above MDL				0.000184	0.0005	0.000184	U
L1803636	L1803636-01	ATMT-TMW-5	11/20/2024	GW	8270C-SIM	BENZO(B)FLUORANTHENE	mg/l	1	<	0.000168	U	Not detected above MDL				0.000168	0.0005	0.000168	U
L1803636	L1803636-01	ATMT-TMW-5	11/20/2024	GW	8270C-SIM	BENZO(K)FLUORANTHENE	mg/l	1	<	0.000202	U	Not detected above MDL				0.000202	0.0005	0.000202	U
L1803636	L1803636-01	ATMT-TMW-5	11/20/2024	GW	8270C-SIM	CHRYSENE	mg/l	1	<	0.000179	U	Not detected above MDL				0.000179	0.0005	0.000179	U
L1803636	L1803636-01	ATMT-TMW-5	11/20/2024	GW	8270C-SIM	DIBENZ(A,H)ANTHRACENE	mg/l	1	<	0.00016	U	Not detected above MDL			No qual reqd for MB	0.00016	0.0005	0.00016	U
L1803636	L1803636-01	ATMT-TMW-5	11/20/2024	GW	8270C-SIM	FLUORANTHENE	mg/l	1	<	0.00027	U	Not detected above MDL				0.00027	0.001	0.00027	U
L1803636	L1803636-01	ATMT-TMW-5	11/20/2024	GW	8270C-SIM	FLUORENE	mg/l	1	<	0.000169	U	Not detected above MDL				0.000169	0.0005	0.000169	U
L1803636	L1803636-01	ATMT-TMW-5	11/20/2024	GW	8270C-SIM	INDENO(1,2,3-CD)PYRENE	mg/l	1	<	0.000158	U	Not detected above MDL			No qual reqd for MB	0.000158	0.0005	0.000158	U
L1803636	L1803636-01	ATMT-TMW-5	11/20/2024	GW	8270C-SIM	NAPHTHALENE	mg/l	1	<	0.000917	U	Not detected above MDL				0.000917	0.0025	0.000917	U
L1803636	L1803636-01	ATMT-TMW-5	11/20/2024	GW	8270C-SIM	PYRENE	mg/l	1	<	0.000169	U	Not detected above MDL				0.000169	0.0005	0.000169	U
L1803636	L1803636-01	ATMT-TMW-5	11/20/2024	GW	NWTPHDX-SGT	DISEL RANGE ORGANICS	mg/l	1	<	0.0667	U	Not detected above MDL				0.0667	0.2	0.0667	U
L1803636	L1803636-01	ATMT-TMW-5	11/20/2024	GW	NWTPHGX	TPHG C6 - C12	mg/l	1	<	0.0316	U	Not detected above MDL	0.0316	UJ	No qual reqd for MB; High MSD RPD	0.0316	0.1	0.0316	UJ
L1803636	L1803636-02	ATMT-TMW-6	11/20/2024	GW	8010B	LEAD	mg/l	1	<	0.00299	U	Not detected above MDL				0.00299	0.006	0.00299	U
L1803636	L1803636-02	ATMT-TMW-6	11/20/2024	GW	8260D	1,2,4-TRIMETHYLBENZENE	mg/l	1	<	0.00322	U	Not detected above MDL				0.00322	0.001	0.00322	U
L1803636	L1803636-02	ATMT-TMW-6	11/20/2024	GW	8260D	1,2-DIBROMOETHANE	mg/l	1	<	0.00126	U	Not detected above MDL				0.00126	0.001	0.00126	U
L1803636	L1803636-02	ATMT-TMW-6	11/20/2024	GW	8260D	1,2-DICHLOROETHANE	mg/l	1	<	0.000819	U	Not detected above MDL				0.000819	0.001	0.000819	U
L1803636	L1803636-02	ATMT-TMW-6	11/20/2024	GW	8260D	1,3,5-TRIMETHYLBENZENE	mg/l	1	<	0.00104	U	Not detected above MDL				0.00104	0.001	0.00104	U
L1803636	L1803636-02	ATMT-TMW-6	11/20/2024	GW	8260D	BENZENE	mg/l	1	<	0.00184	J	Detected below RL				0.000941	0.001	0.00184	J
L1803636	L1803636-02	ATMT-TMW-6	11/20/2024	GW	8260D	ETHYLBENZENE	mg/l	1	<	0.00137	U	Not detected above MDL				0.00137	0.001	0.00137	U
L1803636	L1803636-02	ATMT-TMW-6	11/20/2024	GW	8260D	ISOPROPYLBENZENE	mg/l	1	<	0.00105	U	Not detected above MDL				0.00105	0.001	0.00105	U
L1803636	L1803636-02	ATMT-TMW-6	11/20/2024	GW	8260D	METHYL TERT-BUTYL ETHER	mg/l	1	<	0.012	U	Not detected above MDL				0.00101	0.001	0.012	U
L1803636	L1803636-02	ATMT-TMW-6	11/20/2024	GW	8260D	NAPHTHALENE	mg/l	1	<	0.001	U	Not detected above MDL				0.001	0.005	0.001	U
L1803636	L1803636-02	ATMT-TMW-6	11/20/2024	GW	8260D	N-PROPYLBENZENE	mg/l	1	<	0.000993	U	Not detected above MDL				0.000993	0.001	0.000993	U
L1803636	L1803636-02	ATMT-TMW-6	11/20/2024	GW	8260D	TOLUENE	mg/l	1	<	0.00278	U	Not detected above MDL				0.00278	0.001	0.00278	U
L1803636	L1803636-02	ATMT-TMW-6	11/20/2024	GW	8260D	XYLENES, TOTAL	mg/l	1	<	0.00233	J	Detected below RL				0.00174	0.003	0.00233	J
L1803636	L1803636-02	ATMT-TMW-6	11/20/2024	GW	8270C-SIM	ACENAPHTHENE	mg/l	1	<	0.00019	U	Not detected above MDL				0.00019	0.0005	0.00019	U
L1803636	L1803636-02	ATMT-TMW-6	11/20/2024	GW	8270C-SIM	ANTHRACENE	mg/l	1	<	0.00019	U	Not detected above MDL				0.00019	0.0005	0.00019	U
L1803636	L1803636-02	ATMT-TMW-6	11/20/2024	GW	8270C-SIM	BENZO(A)ANTHRACENE	mg/l	1	<	0.000203	U	Not detected above MDL				0.000203	0.0005	0.000203	U
L1803636	L1803636-02	ATMT-TMW-6	11/20/2024	GW	8270C-SIM	BENZO(A)PYRENE	mg/l	1	<	0.000184	U	Not detected above MDL				0.000184	0.0005	0.000184	U
L1803636	L1803636-02	ATMT-TMW-6	11/20/2024	GW	8270C-SIM	BENZO(B)FLUORANTHENE	mg/l	1	<	0.000168	U	Not detected above MDL				0.000168	0.0005	0.000168	U
L1803636	L1803636-02	ATMT-TMW-6	11/20/2024	GW	8270C-SIM	BENZO(K)FLUORANTHENE	mg/l	1	<	0.000202	U	Not detected above MDL				0.000202	0.0005	0.000202	U
L1803636	L1803636-02	ATMT-TMW-6	11/20/2024	GW	8270C-SIM	CHRYSENE	mg/l	1	<	0.000179	U	Not detected above MDL				0.000179	0.0005	0.000179	U
L1803636	L1803636-02	ATMT-TMW-6	11/20/2024	GW	8270C-SIM	DIBENZ(A,H)ANTHRACENE	mg/l	1	<	0.00016	U	Not detected above MDL			No qual reqd for MB	0.00016	0.0005	0.00016	U
L1803636	L1803636-02	ATMT-TMW-6	11/20/2024	GW	8270C-SIM	FLUORANTHENE	mg/l	1	<	0.00027	U	Not detected above MDL				0.00027	0.001	0.00027	U
L1803636	L1803636-02	ATMT-TMW-6	11/20/2024	GW	8270C-SIM	FLUORENE	mg/l	1	<	0.000169	U	Not detected above MDL				0.000169	0.0005	0.000169	U
L1803636	L1803636-02	ATMT-TMW-6	11/20/2024	GW	8270C-SIM	INDENO(1,2,3-CD)PYRENE	mg/l	1	<	0.000158	U	Not detected above MDL			No qual reqd for MB	0.000158	0.0005	0.000158	U
L1803636	L1803636-02	ATMT-TMW-6	11/20/2024	GW	8270C-SIM	NAPHTHALENE	mg/l	1	<	0.000917	U	Not detected above MDL				0.000917	0.0025	0.000917	U
L1803636	L1803636-02	ATMT-TMW-6	11/20/2024	GW	8270C-SIM	PYRENE	mg/l	1	<	0.000169	U	Not detected above MDL				0.000169	0.0005	0.000169	U
L1803636	L1803636-02	ATMT-TMW-6	11/20/2024	GW	NWTPHDX-SGT	DISEL RANGE ORGANICS	mg/l	1	<	0.0667	U	Not detected above MDL				0.0667	0.2	0.0667	U
L1803636	L1803636-02	ATMT-TMW-6	11/20/2024	GW	NWTPHGX	TPHG C6 - C12	mg/l	1		0.0629	B J	Method blank detection, Detected below RL	0.1	U	Method Blank Detection	0.0316	0.1	0.1	U
2411741	2411741-01B	ATMT-VP-1	11/20/2024	SV	TO-15	Benzene	UG/M3	1.39		0.48	J	Detected below RL				0.			

SDG	Lab Sample ID	Client Sample ID	Date Collected	Matrix	Method	Analyte	Units	Dilution	Result Sign	Result	Lab Qualifier	Lab Qualifier Reason	Data Validation Result	Data Validation Qualifier	Validation Qual Reason	MDL	RDL	Final Result	Final Qualifier
L1803636	L1803636-04	TRIP BLANK	11/20/2024	GW	8260D	1,2-DICHLOROETHANE	mg/l	1	<	0.0000819	U	Not detected above MDL				0.0000819	0.001	0.0000819	U
L1803636	L1803636-04	TRIP BLANK	11/20/2024	GW	8260D	1,3,5-TRIMETHYLBENZENE	mg/l	1	<	0.000104	U	Not detected above MDL				0.000104	0.001	0.000104	U
L1803636	L1803636-04	TRIP BLANK	11/20/2024	GW	8260D	BENZENE	mg/l	1	<	0.0000941	U	Not detected above MDL				0.0000941	0.001	0.0000941	U
L1803636	L1803636-04	TRIP BLANK	11/20/2024	GW	8260D	ETHYLBENZENE	mg/l	1	<	0.000137	U	Not detected above MDL				0.000137	0.001	0.000137	U
L1803636	L1803636-04	TRIP BLANK	11/20/2024	GW	8260D	ISOPROPYLBENZENE	mg/l	1	<	0.000105	U C3	Not detected above MDL, Low continuing calibration standard	0.000105	UJ	Low CCV	0.000105	0.001	0.000105	UJ
L1803636	L1803636-04	TRIP BLANK	11/20/2024	GW	8260D	METHYL TERT-BUTYL ETHER	mg/l	1	<	0.000101	U	Not detected above MDL				0.000101	0.001	0.000101	U
L1803636	L1803636-04	TRIP BLANK	11/20/2024	GW	8260D	NAPHTHALENE	mg/l	1	<	0.001	U C3 J4	Not detected above MDL, Low continuing calibration standard, Batch QC outside accuracy range	0.001	UJ	Low CCV; Low LCS %Recovery	0.001	0.005	0.001	UJ
L1803636	L1803636-04	TRIP BLANK	11/20/2024	GW	8260D	N-PROPYLBENZENE	mg/l	1	<	0.0000993	U	Not detected above MDL				0.0000993	0.001	0.0000993	U
L1803636	L1803636-04	TRIP BLANK	11/20/2024	GW	8260D	TOLUENE	mg/l	1	<	0.000174	U	Not detected above MDL				0.000174	0.003	0.000174	U
L1803661	L1803661-06	TRIP BLANK	11/18/2024	GW	8260B	XYLENES, TOTAL	mg/l	1	<	0.000322	U	Not detected above MDL				0.000322	0.001	0.000322	U
L1803661	L1803661-06	TRIP BLANK	11/18/2024	GW	8260B	1,2,4-TRIMETHYLBENZENE	mg/l	1	<	0.000322	U	Not detected above MDL				0.000322	0.001	0.000322	U
L1803661	L1803661-06	TRIP BLANK	11/18/2024	GW	8260B	1,2-DIBROMOETHANE	mg/l	1	<	0.000126	U	Not detected above MDL				0.000126	0.001	0.000126	U
L1803661	L1803661-06	TRIP BLANK	11/18/2024	GW	8260B	1,2-DICHLOROETHANE	mg/l	1	<	0.0000819	U	Not detected above MDL				0.0000819	0.001	0.0000819	U
L1803661	L1803661-06	TRIP BLANK	11/18/2024	GW	8260B	1,3,5-TRIMETHYLBENZENE	mg/l	1	<	0.000104	U	Not detected above MDL				0.000104	0.001	0.000104	U
L1803661	L1803661-06	TRIP BLANK	11/18/2024	GW	8260B	BENZENE	mg/l	1	<	0.0000941	U	Not detected above MDL				0.0000941	0.001	0.0000941	U
L1803661	L1803661-06	TRIP BLANK	11/18/2024	GW	8260B	ETHYLBENZENE	mg/l	1	<	0.000137	U	Not detected above MDL				0.000137	0.001	0.000137	U
L1803661	L1803661-06	TRIP BLANK	11/18/2024	GW	8260B	ISOPROPYLBENZENE	mg/l	1	<	0.000105	U	Not detected above MDL				0.000105	0.001	0.000105	U
L1803661	L1803661-06	TRIP BLANK	11/18/2024	GW	8260B	METHYL TERT-BUTYL ETHER	mg/l	1	<	0.000101	U	Not detected above MDL				0.000101	0.001	0.000101	U
L1803661	L1803661-06	TRIP BLANK	11/18/2024	GW	8260B	NAPHTHALENE	mg/l	1	<	0.001	U J4	Not detected above MDL, Batch QC outside accuracy range	0.001	UJ	LCS %R < Rec Limit	0.001	0.005	0.001	UJ
L1803661	L1803661-06	TRIP BLANK	11/18/2024	GW	8260B	N-PROPYLBENZENE	mg/l	1	<	0.0000993	U	Not detected above MDL				0.0000993	0.001	0.0000993	U
L1803661	L1803661-06	TRIP BLANK	11/18/2024	GW	8260B	TOLUENE	mg/l	1	<	0.000278	U	Not detected above MDL				0.000278	0.001	0.000278	U
L1803661	L1803661-06	TRIP BLANK	11/18/2024	GW	8260B	XYLENES, TOTAL	mg/l	1	<	0.000174	U	Not detected above MDL				0.000174	0.003	0.000174	U
L1803680	L1803680-05	TRIP BLANK	11/19/2024	GW	8260B	1,2,4-TRIMETHYLBENZENE	mg/l	1	<	0.000322	U	Not detected above MDL				0.000322	0.001	0.000322	U
L1803680	L1803680-05	TRIP BLANK	11/19/2024	GW	8260B	1,2-DIBROMOETHANE	mg/l	1	<	0.000126	U	Not detected above MDL				0.000126	0.001	0.000126	U
L1803680	L1803680-05	TRIP BLANK	11/19/2024	GW	8260B	1,2-DICHLOROETHANE	mg/l	1	<	0.0000819	U	Not detected above MDL				0.0000819	0.001	0.0000819	U
L1803680	L1803680-05	TRIP BLANK	11/19/2024	GW	8260B	1,3,5-TRIMETHYLBENZENE	mg/l	1	<	0.000104	U	Not detected above MDL				0.000104	0.001	0.000104	U
L1803680	L1803680-05	TRIP BLANK	11/19/2024	GW	8260B	BENZENE	mg/l	1	<	0.0000941	U	Not detected above MDL				0.0000941	0.001	0.0000941	U
L1803680	L1803680-05	TRIP BLANK	11/19/2024	GW	8260B	ETHYLBENZENE	mg/l	1	<	0.000137	U	Not detected above MDL				0.000137	0.001	0.000137	U
L1803680	L1803680-05	TRIP BLANK	11/19/2024	GW	8260B	ISOPROPYLBENZENE	mg/l	1	<	0.000105	U	Not detected above MDL				0.000105	0.001	0.000105	U
L1803680	L1803680-05	TRIP BLANK	11/19/2024	GW	8260B	METHYL TERT-BUTYL ETHER	mg/l	1	<	0.000101	U	Not detected above MDL				0.000101	0.001	0.000101	U
L1803680	L1803680-05	TRIP BLANK	11/19/2024	GW	8260B	NAPHTHALENE	mg/l	1	<	0.001	U	Not detected above MDL				0.001	0.005	0.001	U
L1803680	L1803680-05	TRIP BLANK	11/19/2024	GW	8260B	N-PROPYLBENZENE	mg/l	1	<	0.0000993	U	Not detected above MDL				0.0000993	0.001	0.0000993	U
L1803680	L1803680-05	TRIP BLANK	11/19/2024	GW	8260B	TOLUENE	mg/l	1	<	0.000278	U	Not detected above MDL				0.000278	0.001	0.000278	U
L1803680	L1803680-05	TRIP BLANK	11/19/2024	GW	8260B	XYLENES, TOTAL	mg/l	1	<	0.000174	U	Not detected above MDL				0.000174	0.003	0.000174	U
L1804697	L1804697-06	TRIP BLANK	11/20/2024	GW	8260D	1,2,4-TRIMETHYLBENZENE	mg/l	1	<	0.000322	U	Not detected above MDL	0.000322	UJ	Temperature > 6°C	0.000322	0.001	0.000322	UJ
L1804697	L1804697-06	TRIP BLANK	11/20/2024	GW	8260D	1,2-DIBROMOETHANE	mg/l	1	<	0.000126	U	Not detected above MDL	0.000126	UJ	Temperature > 6°C	0.000126	0.001	0.000126	UJ
L1804697	L1804697-06	TRIP BLANK	11/20/2024	GW	8260D	1,2-DICHLOROETHANE	mg/l	1	<	0.0000819	U	Not detected above MDL	0.0000819	UJ	Temperature > 6°C	0.0000819	0.001	0.0000819	UJ
L1804697	L1804697-06	TRIP BLANK	11/20/2024	GW	8260D	1,3,5-TRIMETHYLBENZENE	mg/l	1	<	0.000104	U	Not detected above MDL	0.000104	UJ	Temperature > 6°C	0.000104	0.001	0.000104	UJ
L1804697	L1804697-06	TRIP BLANK	11/20/2024	GW	8260D	BENZENE	mg/l	1	<	0.0000941	U	Not detected above MDL	0.0000941	UJ	Temperature > 6°C	0.0000941	0.001	0.0000941	UJ
L1804697	L1804697-06	TRIP BLANK	11/20/2024	GW	8260D	ETHYLBENZENE	mg/l	1	<	0.000137	U	Not detected above MDL	0.000137	UJ	Temperature > 6°C	0.000137	0.001	0.000137	UJ
L1804697	L1804697-06	TRIP BLANK	11/20/2024	GW	8260D	ISOPROPYLBENZENE	mg/l	1	<	0.000105	U	Not detected above MDL	0.000105	UJ	Temperature > 6°C	0.000105	0.001	0.000105	UJ
L1804697	L1804697-06	TRIP BLANK	11/20/2024	GW	8260D	METHYL TERT-BUTYL ETHER	mg/l	1	<	0.000101	U	Not detected above MDL	0.000101	UJ	Temperature > 6°C	0.000101	0.001	0.000101	UJ
L1804697	L1804697-06	TRIP BLANK	11/20/2024	GW	8260D	NAPHTHALENE	mg/l	1	<	0.001	U	Not detected above MDL	0.001	UJ	Temperature > 6°C	0.001	0.005	0.001	UJ
L1804697	L1804697-06	TRIP BLANK	11/20/2024	GW	8260D	N-PROPYLBENZENE	mg/l	1	<	0.0000993	U	Not detected above MDL	0.0000993	UJ	Temperature > 6°C	0.0000993	0.001	0.0000993	UJ
L1804697	L1804697-06	TRIP BLANK	11/20/2024	GW	8260D	TOLUENE	mg/l	1	<	0.000278	U	Not detected above MDL	0.000278	UJ	Temperature > 6°C	0.000278	0.001	0.000278	UJ
L1804697	L1804697-06	TRIP BLANK	11/20/2024	GW	8260D	XYLENES, TOTAL	mg/l	1	<	0.000174	U	Not detected above MDL	0.000174	UJ	Temperature > 6°C	0.000174	0.003	0.000174	UJ

Notes:
 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

QA/QC Review of the November 2024 Phase II Site Assessment – Altamont Dr., Klamath Falls, OR

SDG	Lab Sample ID	Client Sample ID	Date Collected	Matrix	Method	Analyte	Units	Dilution	RDL	Result	Lab Qualifier	Lab Qualifier Reason	Data Validation Result	Data Validation Qualifier	Validation Qual Reason	Final Result	Final Qualifier
L1803418	10717247001	ATMT-TMW-1	11/20/2024	GW	1633	11Cl-PF3OUdS	ng/L	1	20.8	ND						20.8	U
L1803418	10717247001	ATMT-TMW-1	11/20/2024	GW	1633	3:3 FTCA	ng/L	1	26	ND						26	U
L1803418	10717247001	ATMT-TMW-1	11/20/2024	GW	1633	4:2 FTS	ng/L	1	20.8	ND						20.8	U
L1803418	10717247001	ATMT-TMW-1	11/20/2024	GW	1633	5:3 FTCA	ng/L	1	130	ND						130	U
L1803418	10717247001	ATMT-TMW-1	11/20/2024	GW	1633	6:2 FTS	ng/L	1	20.8	ND						20.8	U
L1803418	10717247001	ATMT-TMW-1	11/20/2024	GW	1633	7:3 FTCA	ng/L	1	130	ND						130	U
L1803418	10717247001	ATMT-TMW-1	11/20/2024	GW	1633	8:2 FTS	ng/L	1	20.8	ND						20.8	U
L1803418	10717247001	ATMT-TMW-1	11/20/2024	GW	1633	9Cl-PF3ONS	ng/L	1	20.8	ND						20.8	U
L1803418	10717247001	ATMT-TMW-1	11/20/2024	GW	1633	ADONA	ng/L	1	20.8	ND						20.8	U
L1803418	10717247001	ATMT-TMW-1	11/20/2024	GW	1633	HFPO-DA	ng/L	1	20.8	ND						20.8	U
L1803418	10717247001	ATMT-TMW-1	11/20/2024	GW	1633	NEIFOSAA	ng/L	1	5.2	ND						5.2	U
L1803418	10717247001	ATMT-TMW-1	11/20/2024	GW	1633	NEIFOSA	ng/L	1	5.2	ND						5.2	U
L1803418	10717247001	ATMT-TMW-1	11/20/2024	GW	1633	NEIFOSE	ng/L	1	51.9	ND						51.9	U
L1803418	10717247001	ATMT-TMW-1	11/20/2024	GW	1633	NFDHA	ng/L	1	10.4	ND						10.4	U
L1803418	10717247001	ATMT-TMW-1	11/20/2024	GW	1633	NMeFOSAA	ng/L	1	5.2	ND						5.2	U
L1803418	10717247001	ATMT-TMW-1	11/20/2024	GW	1633	NMeFOSA	ng/L	1	5.2	ND						5.2	U
L1803418	10717247001	ATMT-TMW-1	11/20/2024	GW	1633	NMeFOSE	ng/L	1	51.9	ND						51.9	U
L1803418	10717247001	ATMT-TMW-1	11/20/2024	GW	1633	PFBS	ng/L	1	5.2	45.1						45.1	U
L1803418	10717247001	ATMT-TMW-1	11/20/2024	GW	1633	PFDA	ng/L	1	5.2	ND						5.2	U
L1803418	10717247001	ATMT-TMW-1	11/20/2024	GW	1633	PFHxA	ng/L	1	5.2	42.6						42.6	U
L1803418	10717247001	ATMT-TMW-1	11/20/2024	GW	1633	PFBA	ng/L	1	20.8	ND						20.8	U
L1803418	10717247001	ATMT-TMW-1	11/20/2024	GW	1633	PFDS	ng/L	1	5.2	ND						5.2	U
L1803418	10717247001	ATMT-TMW-1	11/20/2024	GW	1633	PFDoS	ng/L	1	5.2	ND						5.2	U
L1803418	10717247001	ATMT-TMW-1	11/20/2024	GW	1633	PFEESA	ng/L	1	10.4	ND						10.4	U
L1803418	10717247001	ATMT-TMW-1	11/20/2024	GW	1633	PFHpS	ng/L	1	5.2	30.2						30.2	U
L1803418	10717247001	ATMT-TMW-1	11/20/2024	GW	1633	PFMBA	ng/L	1	10.4	ND						10.4	U
L1803418	10717247001	ATMT-TMW-1	11/20/2024	GW	1633	PFMPA	ng/L	1	10.4	ND						10.4	U
L1803418	10717247001	ATMT-TMW-1	11/20/2024	GW	1633	PFNS	ng/L	1	5.2	ND						5.2	U
L1803418	10717247001	ATMT-TMW-1	11/20/2024	GW	1633	PFOSA	ng/L	1	5.2	ND						5.2	U
L1803418	10717247001	ATMT-TMW-1	11/20/2024	GW	1633	PFPeA	ng/L	1	10.4	32.1			32.1 J		Field duplicate precision	32.1 J	U
L1803418	10717247001	ATMT-TMW-1	11/20/2024	GW	1633	PFPeS	ng/L	1	5.2	81.2						81.2	U
L1803418	10717247001	ATMT-TMW-1	11/20/2024	GW	1633	PFDoA	ng/L	1	5.2	ND						5.2	U
L1803418	10717247001	ATMT-TMW-1	11/20/2024	GW	1633	PFHxA	ng/L	1	5.2	18.9						18.9	U
L1803418	10717247001	ATMT-TMW-1	11/20/2024	GW	1633	PFHxS	ng/L	1	5.2	872			872 J		MS/MSD %R < Rec Limit	872 J	U
L1803418	10717247001	ATMT-TMW-1	11/20/2024	GW	1633	PFNA	ng/L	1	5.2	5.8						5.8	U
L1803418	10717247001	ATMT-TMW-1	11/20/2024	GW	1633	PFOS	ng/L	1	5.2	1810			1810 J		MS/MSD %R < Rec Limit	1810 J	U
L1803418	10717247001	ATMT-TMW-1	11/20/2024	GW	1633	PFOA	ng/L	1	5.2	33						33	U
L1803418	10717247001	ATMT-TMW-1	11/20/2024	GW	1633	PFTeDA	ng/L	1	5.2	ND						5.2	U
L1803418	10717247001	ATMT-TMW-1	11/20/2024	GW	1633	PFTIDA	ng/L	1	5.2	ND						5.2	U
L1803418	10717247001	ATMT-TMW-1	11/20/2024	GW	1633	PFUnA	ng/L	1	5.2	ND						5.2	U
L1803418	10717247002	ATMT-TMW-2	11/20/2024	GW	1633	11Cl-PF3OUdS	ng/L	1	4.3	ND						4.3	U
L1803418	10717247002	ATMT-TMW-2	11/20/2024	GW	1633	3:3 FTCA	ng/L	1	5.4	ND						5.4	U
L1803418	10717247002	ATMT-TMW-2	11/20/2024	GW	1633	4:2 FTS	ng/L	1	4.3	ND						4.3	U
L1803418	10717247002	ATMT-TMW-2	11/20/2024	GW	1633	5:3 FTCA	ng/L	1	27	ND						27	U
L1803418	10717247002	ATMT-TMW-2	11/20/2024	GW	1633	6:2 FTS	ng/L	1	4.3	ND						4.3	U
L1803418	10717247002	ATMT-TMW-2	11/20/2024	GW	1633	7:3 FTCA	ng/L	1	27	ND						27	U
L1803418	10717247002	ATMT-TMW-2	11/20/2024	GW	1633	8:2 FTS	ng/L	1	4.3	ND						4.3	U
L1803418	10717247002	ATMT-TMW-2	11/20/2024	GW	1633	9Cl-PF3ONS	ng/L	1	4.3	ND						4.3	U
L1803418	10717247002	ATMT-TMW-2	11/20/2024	GW	1633	ADONA	ng/L	1	4.3	ND						4.3	U
L1803418	10717247002	ATMT-TMW-2	11/20/2024	GW	1633	HFPO-DA	ng/L	1	4.3	ND						4.3	U
L1803418	10717247002	ATMT-TMW-2	11/20/2024	GW	1633	NEIFOSAA	ng/L	1	1.1	ND						1.1	U
L1803418	10717247002	ATMT-TMW-2	11/20/2024	GW	1633	NEIFOSA	ng/L	1	1.1	ND						1.1	U
L1803418	10717247002	ATMT-TMW-2	11/20/2024	GW	1633	NEIFOSE	ng/L	1	10.8	ND						10.8	U
L1803418	10717247002	ATMT-TMW-2	11/20/2024	GW	1633	NFDHA	ng/L	1	2.2	ND						2.2	U
L1803418	10717247002	ATMT-TMW-2	11/20/2024	GW	1633	NMeFOSAA	ng/L	1	1.1	ND						1.1	U
L1803418	10717247002	ATMT-TMW-2	11/20/2024	GW	1633	NMeFOSA	ng/L	1	1.1	ND						1.1	U
L1803418	10717247002	ATMT-TMW-2	11/20/2024	GW	1633	NMeFOSE	ng/L	1	10.8	ND						10.8	U
L1803418	10717247002	ATMT-TMW-2	11/20/2024	GW	1633	PFBS	ng/L	1	1.1	12						12	U
L1803418	10717247002	ATMT-TMW-2	11/20/2024	GW	1633	PFDA	ng/L	1	1.1	2.3						2.3	U
L1803418	10717247002	ATMT-TMW-2	11/20/2024	GW	1633	PFHxA	ng/L	1	1.1	10.7						10.7	U
L1803418	10717247002	ATMT-TMW-2	11/20/2024	GW	1633	PFBA	ng/L	1	4.3	5						5	U
L1803418	10717247002	ATMT-TMW-2	11/20/2024	GW	1633	PFDS	ng/L	1	1.1	ND						1.1	U
L1803418	10717247002	ATMT-TMW-2	11/20/2024	GW	1633	PFDoS	ng/L	1	1.1	ND						1.1	U
L1803418	10717247002	ATMT-TMW-2	11/20/2024	GW	1633	PFEESA	ng/L	1	2.2	ND						2.2	U
L1803418	10717247002	ATMT-TMW-2	11/20/2024	GW	1633	PFHpS	ng/L	1	1.1	18.7						18.7	U
L1803418	10717247002	ATMT-TMW-2	11/20/2024	GW	1633	PFMBA	ng/L	1	2.2	ND						2.2	U
L1803418	10717247002	ATMT-TMW-2	11/20/2024	GW	1633	PFMPA	ng/L	1	2.2	ND						2.2	U

QA/QC Review of the November 2024 Phase II Site Assessment – Altamont Dr., Klamath Falls, OR

SDG	Lab Sample ID	Client Sample ID	Date Collected	Matrix	Method	Analyte	Units	Dilution	RDL	Result	Lab Qualifier	Lab Qualifier Reason	Data Validation Result	Data Validation Qualifier	Validation Qual Reason	Final Result	Final Qualifier
L1803418	10717247004	ATMT-TMW-3	11/20/2024	GW	1633	NMeFOSAA	ng/L	1	1	ND							1 U
L1803418	10717247004	ATMT-TMW-3	11/20/2024	GW	1633	NMeFOSA	ng/L	1	1	ND							1 U
L1803418	10717247004	ATMT-TMW-3	11/20/2024	GW	1633	NMeFOSE	ng/L	1	10.3	ND							10.3 U
L1803418	10717247004	ATMT-TMW-3	11/20/2024	GW	1633	PFBS	ng/L	1	1	ND							1 U
L1803418	10717247004	ATMT-TMW-3	11/20/2024	GW	1633	PFDA	ng/L	1	1	ND							1 U
L1803418	10717247004	ATMT-TMW-3	11/20/2024	GW	1633	PFHxA	ng/L	1	1	ND							1 U
L1803418	10717247004	ATMT-TMW-3	11/20/2024	GW	1633	PFBA	ng/L	1	4.1	ND							4.1 U
L1803418	10717247004	ATMT-TMW-3	11/20/2024	GW	1633	PFDS	ng/L	1	1	ND							1 U
L1803418	10717247004	ATMT-TMW-3	11/20/2024	GW	1633	PFDoS	ng/L	1	1	ND							1 U
L1803418	10717247004	ATMT-TMW-3	11/20/2024	GW	1633	PFEESA	ng/L	1	2.1	ND							2.1 U
L1803418	10717247004	ATMT-TMW-3	11/20/2024	GW	1633	PFHpS	ng/L	1	1	ND							1 U
L1803418	10717247004	ATMT-TMW-3	11/20/2024	GW	1633	PFMBA	ng/L	1	2.1	ND							2.1 U
L1803418	10717247004	ATMT-TMW-3	11/20/2024	GW	1633	PFMPA	ng/L	1	2.1	ND							2.1 U
L1803418	10717247004	ATMT-TMW-3	11/20/2024	GW	1633	PFNS	ng/L	1	1	ND							1 U
L1803418	10717247004	ATMT-TMW-3	11/20/2024	GW	1633	PFOSA	ng/L	1	1	ND							1 U
L1803418	10717247004	ATMT-TMW-3	11/20/2024	GW	1633	PFPeA	ng/L	1	2.1	ND			2.1 UJ		Field duplicate precision	2.1 UJ	UJ
L1803418	10717247004	ATMT-TMW-3	11/20/2024	GW	1633	PFPeS	ng/L	1	1	ND							1 U
L1803418	10717247004	ATMT-TMW-3	11/20/2024	GW	1633	PFDoA	ng/L	1	1	ND							1 U
L1803418	10717247004	ATMT-TMW-3	11/20/2024	GW	1633	PFHpA	ng/L	1	1	ND							1 U
L1803418	10717247004	ATMT-TMW-3	11/20/2024	GW	1633	PFHxS	ng/L	1	1	ND			1 UJ		MS/MSD %R < Rec Limit	1 UJ	UJ
L1803418	10717247004	ATMT-TMW-3	11/20/2024	GW	1633	PFNA	ng/L	1	1	ND							1 U
L1803418	10717247004	ATMT-TMW-3	11/20/2024	GW	1633	PFOS	ng/L	1	1	1.5			1.5 J		MS/MSD %R < Rec Limit	1.5 J	J
L1803418	10717247004	ATMT-TMW-3	11/20/2024	GW	1633	PFOA	ng/L	1	1	ND							1 U
L1803418	10717247004	ATMT-TMW-3	11/20/2024	GW	1633	PFTeDA	ng/L	1	1	ND							1 U
L1803418	10717247004	ATMT-TMW-3	11/20/2024	GW	1633	PFTIDA	ng/L	1	1	ND							1 U
L1803418	10717247004	ATMT-TMW-3	11/20/2024	GW	1633	PFUnA	ng/L	1	1	ND							1 U
L1803418	10717247005	ATMT-RINSATE	11/20/2024	GW	1633	11Cl-PF3OUdS	ng/L	1	4	ND							4 U
L1803418	10717247005	ATMT-RINSATE	11/20/2024	GW	1633	3:3 FTCA	ng/L	1	5	ND							5 U
L1803418	10717247005	ATMT-RINSATE	11/20/2024	GW	1633	4:2 FTS	ng/L	1	4	ND							4 U
L1803418	10717247005	ATMT-RINSATE	11/20/2024	GW	1633	5:3 FTCA	ng/L	1	25.1	ND							25.1 U
L1803418	10717247005	ATMT-RINSATE	11/20/2024	GW	1633	6:2 FTS	ng/L	1	4	ND							4 U
L1803418	10717247005	ATMT-RINSATE	11/20/2024	GW	1633	7:3 FTCA	ng/L	1	25.1	ND							25.1 U
L1803418	10717247005	ATMT-RINSATE	11/20/2024	GW	1633	8:2 FTS	ng/L	1	4	ND							4 U
L1803418	10717247005	ATMT-RINSATE	11/20/2024	GW	1633	9Cl-PF3ONS	ng/L	1	4	ND							4 U
L1803418	10717247005	ATMT-RINSATE	11/20/2024	GW	1633	ADONA	ng/L	1	4	ND							4 U
L1803418	10717247005	ATMT-RINSATE	11/20/2024	GW	1633	HFPO-DA	ng/L	1	4	ND							4 U
L1803418	10717247005	ATMT-RINSATE	11/20/2024	GW	1633	NEIFOSAA	ng/L	1	1	ND							1 U
L1803418	10717247005	ATMT-RINSATE	11/20/2024	GW	1633	NEIFOSA	ng/L	1	1	ND							1 U
L1803418	10717247005	ATMT-RINSATE	11/20/2024	GW	1633	NEFOSAE	ng/L	1	10.1	ND							10.1 U
L1803418	10717247005	ATMT-RINSATE	11/20/2024	GW	1633	NFDHA	ng/L	1	2	ND							2 U
L1803418	10717247005	ATMT-RINSATE	11/20/2024	GW	1633	NMeFOSAA	ng/L	1	1	ND							1 U
L1803418	10717247005	ATMT-RINSATE	11/20/2024	GW	1633	NMeFOSA	ng/L	1	1	ND							1 U
L1803418	10717247005	ATMT-RINSATE	11/20/2024	GW	1633	NMeFOSE	ng/L	1	10.1	ND							10.1 U
L1803418	10717247005	ATMT-RINSATE	11/20/2024	GW	1633	PFBS	ng/L	1	1	ND							1 U
L1803418	10717247005	ATMT-RINSATE	11/20/2024	GW	1633	PFDA	ng/L	1	1	ND							1 U
L1803418	10717247005	ATMT-RINSATE	11/20/2024	GW	1633	PFHxA	ng/L	1	1	ND							1 U
L1803418	10717247005	ATMT-RINSATE	11/20/2024	GW	1633	PFBA	ng/L	1	4	ND							4 U
L1803418	10717247005	ATMT-RINSATE	11/20/2024	GW	1633	PFDS	ng/L	1	1	ND							1 U
L1803418	10717247005	ATMT-RINSATE	11/20/2024	GW	1633	PFDoS	ng/L	1	1	ND							1 U
L1803418	10717247005	ATMT-RINSATE	11/20/2024	GW	1633	PFEESA	ng/L	1	2	ND							2 U
L1803418	10717247005	ATMT-RINSATE	11/20/2024	GW	1633	PFHpS	ng/L	1	1	ND							1 U
L1803418	10717247005	ATMT-RINSATE	11/20/2024	GW	1633	PFMBA	ng/L	1	2	ND							2 U
L1803418	10717247005	ATMT-RINSATE	11/20/2024	GW	1633	PFMPA	ng/L	1	2	ND							2 U
L1803418	10717247005	ATMT-RINSATE	11/20/2024	GW	1633	PFNS	ng/L	1	1	ND							1 U
L1803418	10717247005	ATMT-RINSATE	11/20/2024	GW	1633	PFOSA	ng/L	1	1	ND							1 U
L1803418	10717247005	ATMT-RINSATE	11/20/2024	GW	1633	PFPeA	ng/L	1	2	ND							2 U
L1803418	10717247005	ATMT-RINSATE	11/20/2024	GW	1633	PFPeS	ng/L	1	1	ND							1 U
L1803418	10717247005	ATMT-RINSATE	11/20/2024	GW	1633	PFDoA	ng/L	1	1	ND							1 U
L1803418	10717247005	ATMT-RINSATE	11/20/2024	GW	1633	PFHpA	ng/L	1	1	ND							1 U
L1803418	10717247005	ATMT-RINSATE	11/20/2024	GW	1633	PFHxS	ng/L	1	1	ND							1 U
L1803418	10717247005	ATMT-RINSATE	11/20/2024	GW	1633	PFNA	ng/L	1	1	ND							1 U
L1803418	10717247005	ATMT-RINSATE	11/20/2024	GW	1633	PFOS	ng/L	1	1	ND							1 U
L1803418	10717247005	ATMT-RINSATE	11/20/2024	GW	1633	PFOA	ng/L	1	1	ND							1 U
L1803418	10717247005	ATMT-RINSATE	11/20/2024	GW	1633	PFTeDA	ng/L	1	1	ND							1 U
L1803418	10717247005	ATMT-RINSATE	11/20/2024	GW	1633	PFTIDA	ng/L	1	1	ND							1 U
L1803418	10717247005	ATMT-RINSATE	11/20/2024	GW	1633	PFUnA	ng/L	1	1	ND							1 U
L1803418	10717247006	ATMT-FB-1	11/18/2024	GW	1633	11Cl-PF3OUdS	ng/L	1	4.1	ND							4.1 U

QA/QC Review of the November 2024 Phase II Site Assessment – Altamont Dr., Klamath Falls, OR

SDG	Lab Sample ID	Client Sample ID	Date Collected	Matrix	Method	Analyte	Units	Dilution	RDL	Result	Lab Qualifier	Lab Qualifier Reason	Data Validation Result	Data Validation Qualifier	Validation Qual Reason	Final Result	Final Qualifier
L1803418	10717247006	ATMT-FB-1	11/18/2024	GW	1633	3:3 FTCA	ng/L	1	5.1	ND						5.1	U
L1803418	10717247006	ATMT-FB-1	11/18/2024	GW	1633	4:2 FTS	ng/L	1	4.1	ND						4.1	U
L1803418	10717247006	ATMT-FB-1	11/18/2024	GW	1633	5:3 FTCA	ng/L	1	25.5	ND						25.5	U
L1803418	10717247006	ATMT-FB-1	11/18/2024	GW	1633	6:2 FTS	ng/L	1	4.1	ND						4.1	U
L1803418	10717247006	ATMT-FB-1	11/18/2024	GW	1633	7:3 FTCA	ng/L	1	25.5	ND						25.5	U
L1803418	10717247006	ATMT-FB-1	11/18/2024	GW	1633	8:2 FTS	ng/L	1	4.1	ND						4.1	U
L1803418	10717247006	ATMT-FB-1	11/18/2024	GW	1633	9Cl-PF3ONS	ng/L	1	4.1	ND						4.1	U
L1803418	10717247006	ATMT-FB-1	11/18/2024	GW	1633	ADONA	ng/L	1	4.1	ND						4.1	U
L1803418	10717247006	ATMT-FB-1	11/18/2024	GW	1633	HFPO-DA	ng/L	1	4.1	ND						4.1	U
L1803418	10717247006	ATMT-FB-1	11/18/2024	GW	1633	NEIFOSAA	ng/L	1	1	ND						1	U
L1803418	10717247006	ATMT-FB-1	11/18/2024	GW	1633	NEIFOSA	ng/L	1	1	ND						1	U
L1803418	10717247006	ATMT-FB-1	11/18/2024	GW	1633	NEIFOSE	ng/L	1	10.2	ND						10.2	U
L1803418	10717247006	ATMT-FB-1	11/18/2024	GW	1633	NFDHA	ng/L	1	2	ND						2	U
L1803418	10717247006	ATMT-FB-1	11/18/2024	GW	1633	NMeFOSAA	ng/L	1	1	ND						1	U
L1803418	10717247006	ATMT-FB-1	11/18/2024	GW	1633	NMeFOSA	ng/L	1	1	ND						1	U
L1803418	10717247006	ATMT-FB-1	11/18/2024	GW	1633	NMeFOSE	ng/L	1	10.2	ND						10.2	U
L1803418	10717247006	ATMT-FB-1	11/18/2024	GW	1633	PFBS	ng/L	1	1	ND						1	U
L1803418	10717247006	ATMT-FB-1	11/18/2024	GW	1633	PFDA	ng/L	1	1	ND						1	U
L1803418	10717247006	ATMT-FB-1	11/18/2024	GW	1633	PFHxA	ng/L	1	1	ND						1	U
L1803418	10717247006	ATMT-FB-1	11/18/2024	GW	1633	PFBA	ng/L	1	4.1	ND						4.1	U
L1803418	10717247006	ATMT-FB-1	11/18/2024	GW	1633	PFDS	ng/L	1	1	ND						1	U
L1803418	10717247006	ATMT-FB-1	11/18/2024	GW	1633	PFDoS	ng/L	1	1	ND						1	U
L1803418	10717247006	ATMT-FB-1	11/18/2024	GW	1633	PFEESA	ng/L	1	2	ND						2	U
L1803418	10717247006	ATMT-FB-1	11/18/2024	GW	1633	PFHpS	ng/L	1	1	ND						1	U
L1803418	10717247006	ATMT-FB-1	11/18/2024	GW	1633	PFMBA	ng/L	1	2	ND						2	U
L1803418	10717247006	ATMT-FB-1	11/18/2024	GW	1633	PFMPA	ng/L	1	2	ND						2	U
L1803418	10717247006	ATMT-FB-1	11/18/2024	GW	1633	PFNS	ng/L	1	1	ND						1	U
L1803418	10717247006	ATMT-FB-1	11/18/2024	GW	1633	PFOSA	ng/L	1	1	ND						1	U
L1803418	10717247006	ATMT-FB-1	11/18/2024	GW	1633	PFPeS	ng/L	1	2	ND						2	U
L1803418	10717247006	ATMT-FB-1	11/18/2024	GW	1633	PFPeA	ng/L	1	1	ND						1	U
L1803418	10717247006	ATMT-FB-1	11/18/2024	GW	1633	PFDoA	ng/L	1	1	ND						1	U
L1803418	10717247006	ATMT-FB-1	11/18/2024	GW	1633	PFHpA	ng/L	1	1	ND						1	U
L1803418	10717247006	ATMT-FB-1	11/18/2024	GW	1633	PFHxS	ng/L	1	1	ND						1	U
L1803418	10717247006	ATMT-FB-1	11/18/2024	GW	1633	PFNA	ng/L	1	1	ND						1	U
L1803418	10717247006	ATMT-FB-1	11/18/2024	GW	1633	PFOS	ng/L	1	1	ND						1	U
L1803418	10717247006	ATMT-FB-1	11/18/2024	GW	1633	PFOA	ng/L	1	1	ND						1	U
L1803418	10717247006	ATMT-FB-1	11/18/2024	GW	1633	PFTeDA	ng/L	1	1	ND						1	U
L1803418	10717247006	ATMT-FB-1	11/18/2024	GW	1633	PFTrDA	ng/L	1	1	ND						1	U
L1803418	10717247006	ATMT-FB-1	11/18/2024	GW	1633	PFUnA	ng/L	1	1	ND						1	U
L1803418	10717247007	ATMT-FB-2	11/20/2024	GW	1633	11Cl-PF3OUdS	ng/L	1	4	ND						4	U
L1803418	10717247007	ATMT-FB-2	11/20/2024	GW	1633	3:3 FTCA	ng/L	1	5	ND						5	U
L1803418	10717247007	ATMT-FB-2	11/20/2024	GW	1633	4:2 FTS	ng/L	1	4	ND						4	U
L1803418	10717247007	ATMT-FB-2	11/20/2024	GW	1633	5:3 FTCA	ng/L	1	24.8	ND						24.8	U
L1803418	10717247007	ATMT-FB-2	11/20/2024	GW	1633	6:2 FTS	ng/L	1	4	ND						4	U
L1803418	10717247007	ATMT-FB-2	11/20/2024	GW	1633	7:3 FTCA	ng/L	1	24.8	ND						24.8	U
L1803418	10717247007	ATMT-FB-2	11/20/2024	GW	1633	8:2 FTS	ng/L	1	4	ND						4	U
L1803418	10717247007	ATMT-FB-2	11/20/2024	GW	1633	9Cl-PF3ONS	ng/L	1	4	ND						4	U
L1803418	10717247007	ATMT-FB-2	11/20/2024	GW	1633	ADONA	ng/L	1	4	ND						4	U
L1803418	10717247007	ATMT-FB-2	11/20/2024	GW	1633	HFPO-DA	ng/L	1	4	ND						4	U
L1803418	10717247007	ATMT-FB-2	11/20/2024	GW	1633	NEIFOSAA	ng/L	1	0.99	ND						0.99	U
L1803418	10717247007	ATMT-FB-2	11/20/2024	GW	1633	NEIFOSA	ng/L	1	0.99	ND						0.99	U
L1803418	10717247007	ATMT-FB-2	11/20/2024	GW	1633	NEIFOSE	ng/L	1	9.9	ND						9.9	U
L1803418	10717247007	ATMT-FB-2	11/20/2024	GW	1633	NFDHA	ng/L	1	2	ND						2	U
L1803418	10717247007	ATMT-FB-2	11/20/2024	GW	1633	NMeFOSAA	ng/L	1	0.99	ND						0.99	U
L1803418	10717247007	ATMT-FB-2	11/20/2024	GW	1633	NMeFOSA	ng/L	1	0.99	ND						0.99	U
L1803418	10717247007	ATMT-FB-2	11/20/2024	GW	1633	NMeFOSE	ng/L	1	9.9	ND						9.9	U
L1803418	10717247007	ATMT-FB-2	11/20/2024	GW	1633	PFBS	ng/L	1	0.99	ND						0.99	U
L1803418	10717247007	ATMT-FB-2	11/20/2024	GW	1633	PFDA	ng/L	1	0.99	ND						0.99	U
L1803418	10717247007	ATMT-FB-2	11/20/2024	GW	1633	PFHxA	ng/L	1	0.99	ND						0.99	U
L1803418	10717247007	ATMT-FB-2	11/20/2024	GW	1633	PFBA	ng/L	1	4	ND						4	U
L1803418	10717247007	ATMT-FB-2	11/20/2024	GW	1633	PFDS	ng/L	1	0.99	ND						0.99	U
L1803418	10717247007	ATMT-FB-2	11/20/2024	GW	1633	PFDoS	ng/L	1	0.99	ND						0.99	U
L1803418	10717247007	ATMT-FB-2	11/20/2024	GW	1633	PFEESA	ng/L	1	2	ND						2	U
L1803418	10717247007	ATMT-FB-2	11/20/2024	GW	1633	PFHpS	ng/L	1	0.99	ND						0.99	U
L1803418	10717247007	ATMT-FB-2	11/20/2024	GW	1633	PFMBA	ng/L	1	2	ND						2	U
L1803418	10717247007	ATMT-FB-2	11/20/2024	GW	1633	PFMPA	ng/L	1	2	ND						2	U
L1803418	10717247007	ATMT-FB-2	11/20/2024	GW	1633	PFNS	ng/L	1	0.99	ND						0.99	U

QA/QC Review of the November 2024 Phase II Site Assessment – Altamont Dr., Klamath Falls, OR

SDG	Lab Sample ID	Client Sample ID	Date Collected	Matrix	Method	Analyte	Units	Dilution	RDL	Result	Lab Qualifier	Lab Qualifier Reason	Data Validation Result	Data Validation Qualifier	Validation Qual Reason	Final Result	Final Qualifier
L1803418	10717247007	ATMT-FB-2	11/20/2024	GW	1633	PFOSA	ng/L	1	0.99	ND						0.99	U
L1803418	10717247007	ATMT-FB-2	11/20/2024	GW	1633	PFPeA	ng/L	1	2	ND						2	U
L1803418	10717247007	ATMT-FB-2	11/20/2024	GW	1633	PFPeS	ng/L	1	0.99	ND						0.99	U
L1803418	10717247007	ATMT-FB-2	11/20/2024	GW	1633	PFDoA	ng/L	1	0.99	ND						0.99	U
L1803418	10717247007	ATMT-FB-2	11/20/2024	GW	1633	PFHpA	ng/L	1	0.99	ND						0.99	U
L1803418	10717247007	ATMT-FB-2	11/20/2024	GW	1633	PFHxS	ng/L	1	0.99	ND						0.99	U
L1803418	10717247007	ATMT-FB-2	11/20/2024	GW	1633	PFNA	ng/L	1	0.99	ND						0.99	U
L1803418	10717247007	ATMT-FB-2	11/20/2024	GW	1633	PFOS	ng/L	1	0.99	ND						0.99	U
L1803418	10717247007	ATMT-FB-2	11/20/2024	GW	1633	PFOA	ng/L	1	0.99	ND						0.99	U
L1803418	10717247007	ATMT-FB-2	11/20/2024	GW	1633	PFTeDA	ng/L	1	0.99	ND						0.99	U
L1803418	10717247007	ATMT-FB-2	11/20/2024	GW	1633	PFTfDA	ng/L	1	0.99	ND						0.99	U
L1803418	10717247007	ATMT-FB-2	11/20/2024	GW	1633	PFUnA	ng/L	1	0.99	ND						0.99	U
L1803414	10717275001	ATMT-BH1-SG-1.5	11/18/2024	SS	1633	11Cl-PF3OUdS	ug/kg	1	0.78	ND						0.78	U
L1803414	10717275001	ATMT-BH1-SG-1.5	11/18/2024	SS	1633	3:3 FTCA	ug/kg	1	0.98	ND						0.98	U
L1803414	10717275001	ATMT-BH1-SG-1.5	11/18/2024	SS	1633	4:2 FTS	ug/kg	1	0.78	ND						0.78	U
L1803414	10717275001	ATMT-BH1-SG-1.5	11/18/2024	SS	1633	5:3 FTCA	ug/kg	1	4.9	ND						4.9	U
L1803414	10717275001	ATMT-BH1-SG-1.5	11/18/2024	SS	1633	6:2 FTS	ug/kg	1	0.78	ND						0.78	U
L1803414	10717275001	ATMT-BH1-SG-1.5	11/18/2024	SS	1633	7:3 FTCA	ug/kg	1	4.9	ND						4.9	U
L1803414	10717275001	ATMT-BH1-SG-1.5	11/18/2024	SS	1633	8:2 FTS	ug/kg	1	0.78	ND						0.78	U
L1803414	10717275001	ATMT-BH1-SG-1.5	11/18/2024	SS	1633	9Cl-PF3ONS	ug/kg	1	0.78	ND						0.78	U
L1803414	10717275001	ATMT-BH1-SG-1.5	11/18/2024	SS	1633	ADONA	ug/kg	1	0.78	ND						0.78	U
L1803414	10717275001	ATMT-BH1-SG-1.5	11/18/2024	SS	1633	HFPO-DA	ug/kg	1	0.78	ND						0.78	U
L1803414	10717275001	ATMT-BH1-SG-1.5	11/18/2024	SS	1633	NEIFOSAA	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275001	ATMT-BH1-SG-1.5	11/18/2024	SS	1633	NEIFOSA	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275001	ATMT-BH1-SG-1.5	11/18/2024	SS	1633	NEIFOSE	ug/kg	1	2	ND						2	U
L1803414	10717275001	ATMT-BH1-SG-1.5	11/18/2024	SS	1633	NFDHA	ug/kg	1	0.39	ND						0.39	U
L1803414	10717275001	ATMT-BH1-SG-1.5	11/18/2024	SS	1633	NMeFOSAA	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275001	ATMT-BH1-SG-1.5	11/18/2024	SS	1633	NMeFOSA	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275001	ATMT-BH1-SG-1.5	11/18/2024	SS	1633	NMeFOSE	ug/kg	1	2	ND						2	U
L1803414	10717275001	ATMT-BH1-SG-1.5	11/18/2024	SS	1633	PFBS	ug/kg	1	0.2	ND			0.2	UJ	Field duplicate precision	0.2	UJ
L1803414	10717275001	ATMT-BH1-SG-1.5	11/18/2024	SS	1633	PFDA	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275001	ATMT-BH1-SG-1.5	11/18/2024	SS	1633	PFHxA	ug/kg	1	0.2	ND			0.2	UJ	Field duplicate precision	0.2	UJ
L1803414	10717275001	ATMT-BH1-SG-1.5	11/18/2024	SS	1633	PFBA	ug/kg	1	0.78	ND						0.78	U
L1803414	10717275001	ATMT-BH1-SG-1.5	11/18/2024	SS	1633	PFDS	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275001	ATMT-BH1-SG-1.5	11/18/2024	SS	1633	PFDoS	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275001	ATMT-BH1-SG-1.5	11/18/2024	SS	1633	PFEEESA	ug/kg	1	0.39	ND						0.39	U
L1803414	10717275001	ATMT-BH1-SG-1.5	11/18/2024	SS	1633	PFHpS	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275001	ATMT-BH1-SG-1.5	11/18/2024	SS	1633	PFMBA	ug/kg	1	0.39	ND						0.39	U
L1803414	10717275001	ATMT-BH1-SG-1.5	11/18/2024	SS	1633	PFMPA	ug/kg	1	0.39	ND						0.39	U
L1803414	10717275001	ATMT-BH1-SG-1.5	11/18/2024	SS	1633	PFNS	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275001	ATMT-BH1-SG-1.5	11/18/2024	SS	1633	PFOSA	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275001	ATMT-BH1-SG-1.5	11/18/2024	SS	1633	PFPeA	ug/kg	1	0.39	ND						0.39	U
L1803414	10717275001	ATMT-BH1-SG-1.5	11/18/2024	SS	1633	PFPeS	ug/kg	1	0.2	0.26			0.26	J	Field duplicate precision	0.26	J
L1803414	10717275001	ATMT-BH1-SG-1.5	11/18/2024	SS	1633	PFDoA	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275001	ATMT-BH1-SG-1.5	11/18/2024	SS	1633	PFHpA	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275001	ATMT-BH1-SG-1.5	11/18/2024	SS	1633	PFHxS	ug/kg	1	0.2	1.7			1.7	J	MS/MSD %R < Rec Limit	1.7	J
L1803414	10717275001	ATMT-BH1-SG-1.5	11/18/2024	SS	1633	PFNA	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275001	ATMT-BH1-SG-1.5	11/18/2024	SS	1633	PFOS	ug/kg	1	0.2	22.5			22.5	J	MS/MSD %R < Rec Limit	22.5	J
L1803414	10717275001	ATMT-BH1-SG-1.5	11/18/2024	SS	1633	PFOA	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275001	ATMT-BH1-SG-1.5	11/18/2024	SS	1633	PFTeDA	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275001	ATMT-BH1-SG-1.5	11/18/2024	SS	1633	PFTfDA	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275001	ATMT-BH1-SG-1.5	11/18/2024	SS	1633	PFUnA	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275002	ATMT-BH1-SG-1.5-DUP	11/18/2024	SS	1633	11Cl-PF3OUdS	ug/kg	1	0.79	ND						0.79	U
L1803414	10717275002	ATMT-BH1-SG-1.5-DUP	11/18/2024	SS	1633	3:3 FTCA	ug/kg	1	0.98	ND						0.98	U
L1803414	10717275002	ATMT-BH1-SG-1.5-DUP	11/18/2024	SS	1633	4:2 FTS	ug/kg	1	0.79	ND						0.79	U
L1803414	10717275002	ATMT-BH1-SG-1.5-DUP	11/18/2024	SS	1633	5:3 FTCA	ug/kg	1	4.9	ND						4.9	U
L1803414	10717275002	ATMT-BH1-SG-1.5-DUP	11/18/2024	SS	1633	6:2 FTS	ug/kg	1	0.79	ND						0.79	U
L1803414	10717275002	ATMT-BH1-SG-1.5-DUP	11/18/2024	SS	1633	7:3 FTCA	ug/kg	1	4.9	ND						4.9	U
L1803414	10717275002	ATMT-BH1-SG-1.5-DUP	11/18/2024	SS	1633	8:2 FTS	ug/kg	1	0.79	ND						0.79	U
L1803414	10717275002	ATMT-BH1-SG-1.5-DUP	11/18/2024	SS	1633	9Cl-PF3ONS	ug/kg	1	0.79	ND						0.79	U
L1803414	10717275002	ATMT-BH1-SG-1.5-DUP	11/18/2024	SS	1633	ADONA	ug/kg	1	0.79	ND						0.79	U
L1803414	10717275002	ATMT-BH1-SG-1.5-DUP	11/18/2024	SS	1633	HFPO-DA	ug/kg	1	0.79	ND						0.79	U
L1803414	10717275002	ATMT-BH1-SG-1.5-DUP	11/18/2024	SS	1633	NEIFOSAA	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275002	ATMT-BH1-SG-1.5-DUP	11/18/2024	SS	1633	NEIFOSA	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275002	ATMT-BH1-SG-1.5-DUP	11/18/2024	SS	1633	NEIFOSE	ug/kg	1	2	ND						2	U
L1803414	10717275002	ATMT-BH1-SG-1.5-DUP	11/18/2024	SS	1633	NFDHA	ug/kg	1	0.39	ND						0.39	U
L1803414	10717275002	ATMT-BH1-SG-1.5-DUP	11/18/2024	SS	1633	NMeFOSAA	ug/kg	1	0.2	ND						0.2	U

QA/QC Review of the November 2024 Phase II Site Assessment – Altamont Dr., Klamath Falls, OR

SDG	Lab Sample ID	Client Sample ID	Date Collected	Matrix	Method	Analyte	Units	Dilution	RDL	Result	Lab Qualifier	Lab Qualifier Reason	Data Validation Result	Data Validation Qualifier	Validation Qual Reason	Final Result	Final Qualifier
L1803414	10717275002	ATMT-BH1-SG-1.5-DUP	11/18/2024	SS	1633	NMeFOSA	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275002	ATMT-BH1-SG-1.5-DUP	11/18/2024	SS	1633	NMeFOSE	ug/kg	1	2	ND						2	U
L1803414	10717275002	ATMT-BH1-SG-1.5-DUP	11/18/2024	SS	1633	PFBS	ug/kg	1	0.2	0.97			0.97	J	Field duplicate precision	0.97	J
L1803414	10717275002	ATMT-BH1-SG-1.5-DUP	11/18/2024	SS	1633	PFDA	ug/kg	1	0.2	0.31						0.31	U
L1803414	10717275002	ATMT-BH1-SG-1.5-DUP	11/18/2024	SS	1633	PFHxA	ug/kg	1	0.2	0.64			0.64	J	Field duplicate precision	0.64	J
L1803414	10717275002	ATMT-BH1-SG-1.5-DUP	11/18/2024	SS	1633	PFBA	ug/kg	1	0.79	ND						0.79	U
L1803414	10717275002	ATMT-BH1-SG-1.5-DUP	11/18/2024	SS	1633	PFDS	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275002	ATMT-BH1-SG-1.5-DUP	11/18/2024	SS	1633	PFDoS	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275002	ATMT-BH1-SG-1.5-DUP	11/18/2024	SS	1633	PFESA	ug/kg	1	0.39	ND						0.39	U
L1803414	10717275002	ATMT-BH1-SG-1.5-DUP	11/18/2024	SS	1633	PFHpS	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275002	ATMT-BH1-SG-1.5-DUP	11/18/2024	SS	1633	PFMBA	ug/kg	1	0.39	ND						0.39	U
L1803414	10717275002	ATMT-BH1-SG-1.5-DUP	11/18/2024	SS	1633	PFMPA	ug/kg	1	0.39	ND						0.39	U
L1803414	10717275002	ATMT-BH1-SG-1.5-DUP	11/18/2024	SS	1633	PFNS	ug/kg	1	0.2	0.22						0.22	U
L1803414	10717275002	ATMT-BH1-SG-1.5-DUP	11/18/2024	SS	1633	PFOSA	ug/kg	1	0.2	0.27						0.27	U
L1803414	10717275002	ATMT-BH1-SG-1.5-DUP	11/18/2024	SS	1633	PFPeA	ug/kg	1	0.39	0.58						0.58	U
L1803414	10717275002	ATMT-BH1-SG-1.5-DUP	11/18/2024	SS	1633	PFPeS	ug/kg	1	0.2	0.98			0.98	J	Field duplicate precision	0.98	J
L1803414	10717275002	ATMT-BH1-SG-1.5-DUP	11/18/2024	SS	1633	PFDoA	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275002	ATMT-BH1-SG-1.5-DUP	11/18/2024	SS	1633	PFHpA	ug/kg	1	0.2	0.2						0.2	U
L1803414	10717275002	ATMT-BH1-SG-1.5-DUP	11/18/2024	SS	1633	PFHxS	ug/kg	1	0.2	4.9			4.9	J	MS/MSD %R < Rec Limit	4.9	J
L1803414	10717275002	ATMT-BH1-SG-1.5-DUP	11/18/2024	SS	1633	PFNA	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275002	ATMT-BH1-SG-1.5-DUP	11/18/2024	SS	1633	PFOS	ug/kg	5	0.98	62.5			62.5	J	MS/MSD %R < Rec Limit	62.5	J
L1803414	10717275002	ATMT-BH1-SG-1.5-DUP	11/18/2024	SS	1633	PFOA	ug/kg	1	0.2	0.22						0.22	U
L1803414	10717275002	ATMT-BH1-SG-1.5-DUP	11/18/2024	SS	1633	PFTeDA	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275002	ATMT-BH1-SG-1.5-DUP	11/18/2024	SS	1633	PFTrDA	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275002	ATMT-BH1-SG-1.5-DUP	11/18/2024	SS	1633	PFUnA	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275003	ATMT-BH1-SG-12	11/18/2024	SS	1633	11Cl-PF3OUdS	ug/kg	1	0.79	ND						0.79	U
L1803414	10717275003	ATMT-BH1-SG-12	11/18/2024	SS	1633	3:3 FTCA	ug/kg	1	0.98	ND						0.98	U
L1803414	10717275003	ATMT-BH1-SG-12	11/18/2024	SS	1633	4:2 FTS	ug/kg	1	0.79	ND						0.79	U
L1803414	10717275003	ATMT-BH1-SG-12	11/18/2024	SS	1633	5:3 FTCA	ug/kg	1	4.9	ND						4.9	U
L1803414	10717275003	ATMT-BH1-SG-12	11/18/2024	SS	1633	6:2 FTS	ug/kg	1	0.79	ND						0.79	U
L1803414	10717275003	ATMT-BH1-SG-12	11/18/2024	SS	1633	7:3 FTCA	ug/kg	1	4.9	ND						4.9	U
L1803414	10717275003	ATMT-BH1-SG-12	11/18/2024	SS	1633	8:2 FTS	ug/kg	1	0.79	ND						0.79	U
L1803414	10717275003	ATMT-BH1-SG-12	11/18/2024	SS	1633	9Cl-PF3ONS	ug/kg	1	0.79	ND						0.79	U
L1803414	10717275003	ATMT-BH1-SG-12	11/18/2024	SS	1633	ADONA	ug/kg	1	0.79	ND						0.79	U
L1803414	10717275003	ATMT-BH1-SG-12	11/18/2024	SS	1633	HFPO-DA	ug/kg	1	0.79	ND						0.79	U
L1803414	10717275003	ATMT-BH1-SG-12	11/18/2024	SS	1633	NEiFOSAA	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275003	ATMT-BH1-SG-12	11/18/2024	SS	1633	NEiFOSA	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275003	ATMT-BH1-SG-12	11/18/2024	SS	1633	NEiFOSE	ug/kg	1	2	ND						2	U
L1803414	10717275003	ATMT-BH1-SG-12	11/18/2024	SS	1633	NFDHA	ug/kg	1	0.39	ND						0.39	U
L1803414	10717275003	ATMT-BH1-SG-12	11/18/2024	SS	1633	NMeFOSAA	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275003	ATMT-BH1-SG-12	11/18/2024	SS	1633	NMeFOSA	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275003	ATMT-BH1-SG-12	11/18/2024	SS	1633	NMeFOSE	ug/kg	1	2	ND						2	U
L1803414	10717275003	ATMT-BH1-SG-12	11/18/2024	SS	1633	PFBS	ug/kg	1	0.2	ND			0.2	UJ	Field duplicate precision	0.2	UJ
L1803414	10717275003	ATMT-BH1-SG-12	11/18/2024	SS	1633	PFDA	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275003	ATMT-BH1-SG-12	11/18/2024	SS	1633	PFHxA	ug/kg	1	0.2	ND			0.2	UJ	Field duplicate precision	0.2	UJ
L1803414	10717275003	ATMT-BH1-SG-12	11/18/2024	SS	1633	PFBA	ug/kg	1	0.79	ND						0.79	U
L1803414	10717275003	ATMT-BH1-SG-12	11/18/2024	SS	1633	PFDS	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275003	ATMT-BH1-SG-12	11/18/2024	SS	1633	PFDoS	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275003	ATMT-BH1-SG-12	11/18/2024	SS	1633	PFESA	ug/kg	1	0.39	ND						0.39	U
L1803414	10717275003	ATMT-BH1-SG-12	11/18/2024	SS	1633	PFHpS	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275003	ATMT-BH1-SG-12	11/18/2024	SS	1633	PFMBA	ug/kg	1	0.39	ND						0.39	U
L1803414	10717275003	ATMT-BH1-SG-12	11/18/2024	SS	1633	PFMPA	ug/kg	1	0.39	ND						0.39	U
L1803414	10717275003	ATMT-BH1-SG-12	11/18/2024	SS	1633	PFNS	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275003	ATMT-BH1-SG-12	11/18/2024	SS	1633	PFOSA	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275003	ATMT-BH1-SG-12	11/18/2024	SS	1633	PFPeA	ug/kg	1	0.39	ND						0.39	U
L1803414	10717275003	ATMT-BH1-SG-12	11/18/2024	SS	1633	PFPeS	ug/kg	1	0.2	ND			0.2	UJ	Field duplicate precision	0.2	UJ
L1803414	10717275003	ATMT-BH1-SG-12	11/18/2024	SS	1633	PFDoA	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275003	ATMT-BH1-SG-12	11/18/2024	SS	1633	PFHxS	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275003	ATMT-BH1-SG-12	11/18/2024	SS	1633	PFNA	ug/kg	1	0.2	ND			0.2	UJ	MS/MSD %R < Rec Limit	0.2	UJ
L1803414	10717275003	ATMT-BH1-SG-12	11/18/2024	SS	1633	PFOS	ug/kg	1	0.2	ND			0.2	UJ	MS/MSD %R < Rec Limit	0.2	UJ
L1803414	10717275003	ATMT-BH1-SG-12	11/18/2024	SS	1633	PFOA	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275003	ATMT-BH1-SG-12	11/18/2024	SS	1633	PFTeDA	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275003	ATMT-BH1-SG-12	11/18/2024	SS	1633	PFTrDA	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275003	ATMT-BH1-SG-12	11/18/2024	SS	1633	PFUnA	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275004	ATMT-BH2-SG-1.5	11/18/2024	SS	1633	11Cl-PF3OUdS	ug/kg	1	0.81	ND						0.81	U
L1803414	10717275004	ATMT-BH2-SG-1.5	11/18/2024	SS	1633	3:3 FTCA	ug/kg	1	1	ND						1	U

QA/QC Review of the November 2024 Phase II Site Assessment – Altamont Dr., Klamath Falls, OR

SDG	Lab Sample ID	Client Sample ID	Date Collected	Matrix	Method	Analyte	Units	Dilution	RDL	Result	Lab Qualifier	Lab Qualifier Reason	Data Validation Result	Data Validation Qualifier	Validation Qual Reason	Final Result	Final Qualifier
L1803414	10717275004	ATMT-BH2-SG-1.5	11/18/2024	SS	1633	4:2 FTS	ug/kg	1	0.81	ND						0.81	U
L1803414	10717275004	ATMT-BH2-SG-1.5	11/18/2024	SS	1633	5:3 FTCA	ug/kg	1	5.1	ND						5.1	U
L1803414	10717275004	ATMT-BH2-SG-1.5	11/18/2024	SS	1633	6:2 FTS	ug/kg	1	0.81	ND						0.81	U
L1803414	10717275004	ATMT-BH2-SG-1.5	11/18/2024	SS	1633	7:3 FTCA	ug/kg	1	5.1	ND						5.1	U
L1803414	10717275004	ATMT-BH2-SG-1.5	11/18/2024	SS	1633	8:2 FTS	ug/kg	1	0.81	ND						0.81	U
L1803414	10717275004	ATMT-BH2-SG-1.5	11/18/2024	SS	1633	9Cl-PF3ONS	ug/kg	1	0.81	ND						0.81	U
L1803414	10717275004	ATMT-BH2-SG-1.5	11/18/2024	SS	1633	ADONA	ug/kg	1	0.81	ND						0.81	U
L1803414	10717275004	ATMT-BH2-SG-1.5	11/18/2024	SS	1633	HFPO-DA	ug/kg	1	0.81	ND						0.81	U
L1803414	10717275004	ATMT-BH2-SG-1.5	11/18/2024	SS	1633	NEIFOSAA	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275004	ATMT-BH2-SG-1.5	11/18/2024	SS	1633	NEIFOSA	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275004	ATMT-BH2-SG-1.5	11/18/2024	SS	1633	NEIFOSE	ug/kg	1	2	ND						2	U
L1803414	10717275004	ATMT-BH2-SG-1.5	11/18/2024	SS	1633	NFDHA	ug/kg	1	0.41	ND						0.41	U
L1803414	10717275004	ATMT-BH2-SG-1.5	11/18/2024	SS	1633	NMeFOSAA	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275004	ATMT-BH2-SG-1.5	11/18/2024	SS	1633	NMeFOSA	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275004	ATMT-BH2-SG-1.5	11/18/2024	SS	1633	NMeFOSE	ug/kg	1	2	ND						2	U
L1803414	10717275004	ATMT-BH2-SG-1.5	11/18/2024	SS	1633	PFBS	ug/kg	1	0.2	0.64			0.64	J	Field duplicate precision	0.64	J
L1803414	10717275004	ATMT-BH2-SG-1.5	11/18/2024	SS	1633	PFDA	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275004	ATMT-BH2-SG-1.5	11/18/2024	SS	1633	PFHxA	ug/kg	1	0.2	0.43			0.43	J	Field duplicate precision	0.43	J
L1803414	10717275004	ATMT-BH2-SG-1.5	11/18/2024	SS	1633	PFBA	ug/kg	1	0.81	ND						0.81	U
L1803414	10717275004	ATMT-BH2-SG-1.5	11/18/2024	SS	1633	PFDS	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275004	ATMT-BH2-SG-1.5	11/18/2024	SS	1633	PFDoS	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275004	ATMT-BH2-SG-1.5	11/18/2024	SS	1633	PFEEESA	ug/kg	1	0.41	ND						0.41	U
L1803414	10717275004	ATMT-BH2-SG-1.5	11/18/2024	SS	1633	PFHpS	ug/kg	1	0.2	0.28						0.28	U
L1803414	10717275004	ATMT-BH2-SG-1.5	11/18/2024	SS	1633	PFMBA	ug/kg	1	0.41	ND						0.41	U
L1803414	10717275004	ATMT-BH2-SG-1.5	11/18/2024	SS	1633	PFMPA	ug/kg	1	0.41	ND						0.41	U
L1803414	10717275004	ATMT-BH2-SG-1.5	11/18/2024	SS	1633	PFNS	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275004	ATMT-BH2-SG-1.5	11/18/2024	SS	1633	PFOSA	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275004	ATMT-BH2-SG-1.5	11/18/2024	SS	1633	PFPeA	ug/kg	1	0.41	0.62						0.62	U
L1803414	10717275004	ATMT-BH2-SG-1.5	11/18/2024	SS	1633	PFPeS	ug/kg	1	0.2	0.33			0.33	J	Field duplicate precision	0.33	J
L1803414	10717275004	ATMT-BH2-SG-1.5	11/18/2024	SS	1633	PFDoA	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275004	ATMT-BH2-SG-1.5	11/18/2024	SS	1633	PFHpA	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275004	ATMT-BH2-SG-1.5	11/18/2024	SS	1633	PFHxS	ug/kg	1	0.2	4.5	M1	MS/MSD %R < Rec Limit	4.5	J	MS/MSD %R < Rec Limit	4.5	J
L1803414	10717275004	ATMT-BH2-SG-1.5	11/18/2024	SS	1633	PFNS	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275004	ATMT-BH2-SG-1.5	11/18/2024	SS	1633	PFOS	ug/kg	1	0.2	38.2	M1	MS/MSD %R < Rec Limit	38.2	J	MS/MSD %R < Rec Limit	38.2	J
L1803414	10717275004	ATMT-BH2-SG-1.5	11/18/2024	SS	1633	PFOA	ug/kg	1	0.2	0.26						0.26	U
L1803414	10717275004	ATMT-BH2-SG-1.5	11/18/2024	SS	1633	PFTeDA	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275004	ATMT-BH2-SG-1.5	11/18/2024	SS	1633	PFTrDA	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275004	ATMT-BH2-SG-1.5	11/18/2024	SS	1633	PFUnA	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275005	ATMT-BH2-SG-10	11/18/2024	SS	1633	11Cl-PF3OUdS	ug/kg	1	0.79	ND						0.79	U
L1803414	10717275005	ATMT-BH2-SG-10	11/18/2024	SS	1633	3:3 FTCA	ug/kg	1	0.99	ND						0.99	U
L1803414	10717275005	ATMT-BH2-SG-10	11/18/2024	SS	1633	4:2 FTS	ug/kg	1	0.79	ND						0.79	U
L1803414	10717275005	ATMT-BH2-SG-10	11/18/2024	SS	1633	5:3 FTCA	ug/kg	1	5	ND						5	U
L1803414	10717275005	ATMT-BH2-SG-10	11/18/2024	SS	1633	6:2 FTS	ug/kg	1	0.79	ND						0.79	U
L1803414	10717275005	ATMT-BH2-SG-10	11/18/2024	SS	1633	7:3 FTCA	ug/kg	1	5	ND						5	U
L1803414	10717275005	ATMT-BH2-SG-10	11/18/2024	SS	1633	8:2 FTS	ug/kg	1	0.79	ND						0.79	U
L1803414	10717275005	ATMT-BH2-SG-10	11/18/2024	SS	1633	9Cl-PF3ONS	ug/kg	1	0.79	ND						0.79	U
L1803414	10717275005	ATMT-BH2-SG-10	11/18/2024	SS	1633	ADONA	ug/kg	1	0.79	ND						0.79	U
L1803414	10717275005	ATMT-BH2-SG-10	11/18/2024	SS	1633	HFPO-DA	ug/kg	1	0.79	ND						0.79	U
L1803414	10717275005	ATMT-BH2-SG-10	11/18/2024	SS	1633	NEIFOSAA	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275005	ATMT-BH2-SG-10	11/18/2024	SS	1633	NEIFOSA	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275005	ATMT-BH2-SG-10	11/18/2024	SS	1633	NEIFOSE	ug/kg	1	2	ND						2	U
L1803414	10717275005	ATMT-BH2-SG-10	11/18/2024	SS	1633	NFDHA	ug/kg	1	0.4	ND						0.4	U
L1803414	10717275005	ATMT-BH2-SG-10	11/18/2024	SS	1633	NMeFOSAA	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275005	ATMT-BH2-SG-10	11/18/2024	SS	1633	NMeFOSA	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275005	ATMT-BH2-SG-10	11/18/2024	SS	1633	NMeFOSE	ug/kg	1	2	ND						2	U
L1803414	10717275005	ATMT-BH2-SG-10	11/18/2024	SS	1633	PFBS	ug/kg	1	0.2	ND			0.2	UJ	Field duplicate precision	0.2	UJ
L1803414	10717275005	ATMT-BH2-SG-10	11/18/2024	SS	1633	PFDA	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275005	ATMT-BH2-SG-10	11/18/2024	SS	1633	PFHxA	ug/kg	1	0.2	ND			0.2	UJ	Field duplicate precision	0.2	UJ
L1803414	10717275005	ATMT-BH2-SG-10	11/18/2024	SS	1633	PFBA	ug/kg	1	0.79	ND						0.79	U
L1803414	10717275005	ATMT-BH2-SG-10	11/18/2024	SS	1633	PFDS	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275005	ATMT-BH2-SG-10	11/18/2024	SS	1633	PFDoS	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275005	ATMT-BH2-SG-10	11/18/2024	SS	1633	PFEEESA	ug/kg	1	0.4	ND						0.4	U
L1803414	10717275005	ATMT-BH2-SG-10	11/18/2024	SS	1633	PFHpS	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275005	ATMT-BH2-SG-10	11/18/2024	SS	1633	PFMBA	ug/kg	1	0.4	ND						0.4	U
L1803414	10717275005	ATMT-BH2-SG-10	11/18/2024	SS	1633	PFMPA	ug/kg	1	0.4	ND						0.4	U
L1803414	10717275005	ATMT-BH2-SG-10	11/18/2024	SS	1633	PFNS	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275005	ATMT-BH2-SG-10	11/18/2024	SS	1633	PFOSA	ug/kg	1	0.2	ND						0.2	U

QA/QC Review of the November 2024 Phase II Site Assessment – Altamont Dr., Klamath Falls, OR

SDG	Lab Sample ID	Client Sample ID	Date Collected	Matrix	Method	Analyte	Units	Dilution	RDL	Result	Lab Qualifier	Lab Qualifier Reason	Data Validation Result	Data Validation Qualifier	Validation Qual Reason	Final Result	Final Qualifier
L1803414	10717275005	ATMT-BH2-SG-10	11/18/2024	SS	1633	PFPeA	ug/kg	1	0.4	ND						0.4	U
L1803414	10717275005	ATMT-BH2-SG-10	11/18/2024	SS	1633	PFPeS	ug/kg	1	0.2	ND			0.2	UJ	Field duplicate precision	0.2	UJ
L1803414	10717275005	ATMT-BH2-SG-10	11/18/2024	SS	1633	PFDoA	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275005	ATMT-BH2-SG-10	11/18/2024	SS	1633	PFHpA	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275005	ATMT-BH2-SG-10	11/18/2024	SS	1633	PFHxS	ug/kg	1	0.2	ND			0.2	UJ	MS/MSD %R < Rec Limit	0.2	UJ
L1803414	10717275005	ATMT-BH2-SG-10	11/18/2024	SS	1633	PFNA	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275005	ATMT-BH2-SG-10	11/18/2024	SS	1633	PFOS	ug/kg	1	0.2	ND			0.2	UJ	MS/MSD %R < Rec Limit	0.2	UJ
L1803414	10717275005	ATMT-BH2-SG-10	11/18/2024	SS	1633	PFOA	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275005	ATMT-BH2-SG-10	11/18/2024	SS	1633	PFTeDA	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275005	ATMT-BH2-SG-10	11/18/2024	SS	1633	PFTrDA	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275005	ATMT-BH2-SG-10	11/18/2024	SS	1633	PFUnA	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275006	ATMT-BH3-SG-1.5	11/18/2024	SS	1633	11Cl-PF3OUdS	ug/kg	1	0.79	ND						0.79	U
L1803414	10717275006	ATMT-BH3-SG-1.5	11/18/2024	SS	1633	3:3 FTCA	ug/kg	1	0.99	ND						0.99	U
L1803414	10717275006	ATMT-BH3-SG-1.5	11/18/2024	SS	1633	4:2 FTS	ug/kg	1	0.79	ND						0.79	U
L1803414	10717275006	ATMT-BH3-SG-1.5	11/18/2024	SS	1633	5:3 FTCA	ug/kg	1	4.9	ND						4.9	U
L1803414	10717275006	ATMT-BH3-SG-1.5	11/18/2024	SS	1633	6:2 FTS	ug/kg	1	0.79	ND						0.79	U
L1803414	10717275006	ATMT-BH3-SG-1.5	11/18/2024	SS	1633	7:3 FTCA	ug/kg	1	4.9	ND						4.9	U
L1803414	10717275006	ATMT-BH3-SG-1.5	11/18/2024	SS	1633	8:2 FTS	ug/kg	1	0.79	ND						0.79	U
L1803414	10717275006	ATMT-BH3-SG-1.5	11/18/2024	SS	1633	9Cl-PF3ONS	ug/kg	1	0.79	ND						0.79	U
L1803414	10717275006	ATMT-BH3-SG-1.5	11/18/2024	SS	1633	ADONA	ug/kg	1	0.79	ND						0.79	U
L1803414	10717275006	ATMT-BH3-SG-1.5	11/18/2024	SS	1633	HFPO-DA	ug/kg	1	0.79	ND						0.79	U
L1803414	10717275006	ATMT-BH3-SG-1.5	11/18/2024	SS	1633	NEiFOSAA	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275006	ATMT-BH3-SG-1.5	11/18/2024	SS	1633	NEiFOSA	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275006	ATMT-BH3-SG-1.5	11/18/2024	SS	1633	NEiFOSE	ug/kg	1	2	ND						2	U
L1803414	10717275006	ATMT-BH3-SG-1.5	11/18/2024	SS	1633	NFDHA	ug/kg	1	0.39	ND						0.39	U
L1803414	10717275006	ATMT-BH3-SG-1.5	11/18/2024	SS	1633	NMeFOSAA	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275006	ATMT-BH3-SG-1.5	11/18/2024	SS	1633	NMeFOSA	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275006	ATMT-BH3-SG-1.5	11/18/2024	SS	1633	NMeFOSE	ug/kg	1	2	ND						2	U
L1803414	10717275006	ATMT-BH3-SG-1.5	11/18/2024	SS	1633	PFBS	ug/kg	1	0.2	ND			0.2	UJ	Field duplicate precision	0.2	UJ
L1803414	10717275006	ATMT-BH3-SG-1.5	11/18/2024	SS	1633	PFDA	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275006	ATMT-BH3-SG-1.5	11/18/2024	SS	1633	PFHxA	ug/kg	1	0.2	ND			0.2	UJ	Field duplicate precision	0.2	UJ
L1803414	10717275006	ATMT-BH3-SG-1.5	11/18/2024	SS	1633	PFBA	ug/kg	1	0.79	ND						0.79	U
L1803414	10717275006	ATMT-BH3-SG-1.5	11/18/2024	SS	1633	PFDS	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275006	ATMT-BH3-SG-1.5	11/18/2024	SS	1633	PFDoS	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275006	ATMT-BH3-SG-1.5	11/18/2024	SS	1633	PFEEsA	ug/kg	1	0.39	ND						0.39	U
L1803414	10717275006	ATMT-BH3-SG-1.5	11/18/2024	SS	1633	PFHpS	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275006	ATMT-BH3-SG-1.5	11/18/2024	SS	1633	PFMBA	ug/kg	1	0.39	ND						0.39	U
L1803414	10717275006	ATMT-BH3-SG-1.5	11/18/2024	SS	1633	PFMPA	ug/kg	1	0.39	ND						0.39	U
L1803414	10717275006	ATMT-BH3-SG-1.5	11/18/2024	SS	1633	PFNS	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275006	ATMT-BH3-SG-1.5	11/18/2024	SS	1633	PFOSA	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275006	ATMT-BH3-SG-1.5	11/18/2024	SS	1633	PFPeA	ug/kg	1	0.39	ND						0.39	U
L1803414	10717275006	ATMT-BH3-SG-1.5	11/18/2024	SS	1633	PFPeS	ug/kg	1	0.2	ND			0.2	UJ	Field duplicate precision	0.2	UJ
L1803414	10717275006	ATMT-BH3-SG-1.5	11/18/2024	SS	1633	PFDoA	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275006	ATMT-BH3-SG-1.5	11/18/2024	SS	1633	PFHpA	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275006	ATMT-BH3-SG-1.5	11/18/2024	SS	1633	PFHxS	ug/kg	1	0.2	ND			0.2	UJ	MS/MSD %R < Rec Limit	0.2	UJ
L1803414	10717275006	ATMT-BH3-SG-1.5	11/18/2024	SS	1633	PFNA	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275006	ATMT-BH3-SG-1.5	11/18/2024	SS	1633	PFOS	ug/kg	1	0.2	0.5			0.5	J	MS/MSD %R < Rec Limit	0.5	J
L1803414	10717275006	ATMT-BH3-SG-1.5	11/18/2024	SS	1633	PFOA	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275006	ATMT-BH3-SG-1.5	11/18/2024	SS	1633	PFTeDA	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275006	ATMT-BH3-SG-1.5	11/18/2024	SS	1633	PFTrDA	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275006	ATMT-BH3-SG-1.5	11/18/2024	SS	1633	PFUnA	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275007	ATMT-BH3-SG-8	11/18/2024	SS	1633	11Cl-PF3OUdS	ug/kg	1	0.79	ND						0.79	U
L1803414	10717275007	ATMT-BH3-SG-8	11/18/2024	SS	1633	3:3 FTCA	ug/kg	1	0.99	ND						0.99	U
L1803414	10717275007	ATMT-BH3-SG-8	11/18/2024	SS	1633	4:2 FTS	ug/kg	1	0.79	ND						0.79	U
L1803414	10717275007	ATMT-BH3-SG-8	11/18/2024	SS	1633	5:3 FTCA	ug/kg	1	4.9	ND						4.9	U
L1803414	10717275007	ATMT-BH3-SG-8	11/18/2024	SS	1633	6:2 FTS	ug/kg	1	0.79	ND						0.79	U
L1803414	10717275007	ATMT-BH3-SG-8	11/18/2024	SS	1633	7:3 FTCA	ug/kg	1	4.9	ND						4.9	U
L1803414	10717275007	ATMT-BH3-SG-8	11/18/2024	SS	1633	8:2 FTS	ug/kg	1	0.79	ND						0.79	U
L1803414	10717275007	ATMT-BH3-SG-8	11/18/2024	SS	1633	9Cl-PF3ONS	ug/kg	1	0.79	ND						0.79	U
L1803414	10717275007	ATMT-BH3-SG-8	11/18/2024	SS	1633	ADONA	ug/kg	1	0.79	ND						0.79	U
L1803414	10717275007	ATMT-BH3-SG-8	11/18/2024	SS	1633	HFPO-DA	ug/kg	1	0.79	ND						0.79	U
L1803414	10717275007	ATMT-BH3-SG-8	11/18/2024	SS	1633	NEiFOSAA	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275007	ATMT-BH3-SG-8	11/18/2024	SS	1633	NEiFOSA	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275007	ATMT-BH3-SG-8	11/18/2024	SS	1633	NEiFOSE	ug/kg	1	2	ND						2	U
L1803414	10717275007	ATMT-BH3-SG-8	11/18/2024	SS	1633	NFDHA	ug/kg	1	0.4	ND						0.4	U
L1803414	10717275007	ATMT-BH3-SG-8	11/18/2024	SS	1633	NMeFOSAA	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275007	ATMT-BH3-SG-8	11/18/2024	SS	1633	NMeFOSA	ug/kg	1	0.2	ND						0.2	U

QA/QC Review of the November 2024 Phase II Site Assessment – Altamont Dr., Klamath Falls, OR

SDG	Lab Sample ID	Client Sample ID	Date Collected	Matrix	Method	Analyte	Units	Dilution	RDL	Result	Lab Qualifier	Lab Qualifier Reason	Data Validation Result	Data Validation Qualifier	Validation Qual Reason	Final Result	Final Qualifier
L1803414	10717275007	ATMT-BH3-SG-8	11/18/2024	SS	1633	NMeFOSE	ug/kg	1	2	ND						2	U
L1803414	10717275007	ATMT-BH3-SG-8	11/18/2024	SS	1633	PFBS	ug/kg	1	0.2	ND			0.2	UJ	Field duplicate precision	0.2	UJ
L1803414	10717275007	ATMT-BH3-SG-8	11/18/2024	SS	1633	PFDA	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275007	ATMT-BH3-SG-8	11/18/2024	SS	1633	PFHxA	ug/kg	1	0.2	ND			0.2	UJ	Field duplicate precision	0.2	UJ
L1803414	10717275007	ATMT-BH3-SG-8	11/18/2024	SS	1633	PFBA	ug/kg	1	0.79	ND						0.79	U
L1803414	10717275007	ATMT-BH3-SG-8	11/18/2024	SS	1633	PFDS	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275007	ATMT-BH3-SG-8	11/18/2024	SS	1633	PFDoS	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275007	ATMT-BH3-SG-8	11/18/2024	SS	1633	PFEESA	ug/kg	1	0.4	ND						0.4	U
L1803414	10717275007	ATMT-BH3-SG-8	11/18/2024	SS	1633	PFHpS	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275007	ATMT-BH3-SG-8	11/18/2024	SS	1633	PFMBA	ug/kg	1	0.4	ND						0.4	U
L1803414	10717275007	ATMT-BH3-SG-8	11/18/2024	SS	1633	PFMPA	ug/kg	1	0.4	ND						0.4	U
L1803414	10717275007	ATMT-BH3-SG-8	11/18/2024	SS	1633	PFNS	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275007	ATMT-BH3-SG-8	11/18/2024	SS	1633	PFOSA	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275007	ATMT-BH3-SG-8	11/18/2024	SS	1633	PFPeA	ug/kg	1	0.4	ND						0.4	U
L1803414	10717275007	ATMT-BH3-SG-8	11/18/2024	SS	1633	PFPeS	ug/kg	1	0.2	ND			0.2	UJ	Field duplicate precision	0.2	UJ
L1803414	10717275007	ATMT-BH3-SG-8	11/18/2024	SS	1633	PFDoA	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275007	ATMT-BH3-SG-8	11/18/2024	SS	1633	PFHpA	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275007	ATMT-BH3-SG-8	11/18/2024	SS	1633	PFHxS	ug/kg	1	0.2	ND			0.2	UJ	MS/MSD %R < Rec Limit	0.2	UJ
L1803414	10717275007	ATMT-BH3-SG-8	11/18/2024	SS	1633	PFNA	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275007	ATMT-BH3-SG-8	11/18/2024	SS	1633	PFOS	ug/kg	1	0.2	ND			0.2	UJ	MS/MSD %R < Rec Limit	0.2	UJ
L1803414	10717275007	ATMT-BH3-SG-8	11/18/2024	SS	1633	PFOA	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275007	ATMT-BH3-SG-8	11/18/2024	SS	1633	PFTeDA	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275007	ATMT-BH3-SG-8	11/18/2024	SS	1633	PFTrDA	ug/kg	1	0.2	ND						0.2	U
L1803414	10717275007	ATMT-BH3-SG-8	11/18/2024	SS	1633	PFUnA	ug/kg	1	0.2	ND						0.2	U

Notes:
 ND = not detected
 U = not detected above the reporting limit shown
 UJ = estimated non-detect
 J = result is an estimate

**Appendix G –
Hazardous Building Materials Survey Reports**

Hazardous Building Materials Survey Report

2450 Altamont Drive

Klamath Falls, Oregon

Prepared for:

ERG (Eastern Research Group Inc.)

General Information	1.1
Certification	1.2
Inspection Summary	1.3
Asbestos Bulk Sample Inventory	2.1
Lead Paint Sample Inventory	3.1
Laboratory Data	Not Numbered
Inspector Certification	Not Numbered
Building Drawing	Not Numbered

November 2024
Project No.: 24011974

GENERAL INFORMATION

BUILDING DATA

2450 Altamont Drive
Klamath Falls, Oregon

CLIENT DATA

Brook McKeown
Eastern Research Group
561 Virginia Road, Suite 300, Building 4
Concord, Massachusetts 01742

BACKGROUND INFORMATION:

This single-story former service station and bulk storage building with an unknown construction date houses one office space, large storage area, automotive bay, and restroom.

SURVEY SCOPE

PBS Engineering and Environmental, LLC (PBS) has performed a hazardous building materials survey of the former service station located at 2450 Altamont Drive in Klamath Falls, Oregon. The survey was conducted in support of a planned building demolition project and was performed in general accordance with OSHA regulations in 29 CFR 1910.1001, and Oregon Department of Environmental Quality (DEQ) regulations in OAR 340-248-0270. Based on the information gathered during the site inspection and laboratory analysis, this report contains the following information:

- A summary of asbestos-containing materials discovered during the inspection, including a material description and location of each identified asbestos-containing material (ACM);
- A summary of lead paint sampling;
- A summary of PCB and mercury investigation;
- Sample inventories listing the sample number, location, material description, and laboratory results for each asbestos and lead paint sample;
- Laboratory analysis reports and chain of custody documentation;
- Inspector(s) Certification

Asbestos

PBS endeavored to locate all suspect asbestos-containing materials during this survey; however, additional suspect asbestos-containing materials may be present in inaccessible areas (e.g. interstitial spaces, confined spaces, sub-slab trenches, etc.). If suspect materials are uncovered during demolition or renovation activities that are not identified in this report, testing should be performed prior to impact. This survey was conducted to identify and sample accessible suspect asbestos-containing building materials and it is not considered an exhaustive survey of every building material.

Lead Paint

PBS collected bulk samples from representative painted surfaces from the building interior and exterior. The samples were analyzed for lead using FAA (flame atomic absorption). No attempt was made to determine the paint history of the components that were sampled. The lead paint testing conducted during this survey was for site lead hazard characterization purposes and was not a surface-by-surface inspection of every painted building component.

Mercury and PCB

PBS visually inspected representative light fixtures for the presence of suspect PCB lighting ballasts and mercury-containing light tubes and switches required to be removed prior to demolition. No sampling for PCBs was conducted. Identification of large transformers with PCB oils was not included in the scope of work.

CERTIFICATION

PBS has conducted a physical inspection of the building located at 2450 Altamont Drive in Klamath Falls, Oregon, 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.

Aaron LeFore
Inspector
Accreditation: IRO-24-7318B

Signature _____ Date _____

INSPECTION SUMMARY

DATES

November 5, 2024

SURVEYED BY

Aaron LeFore

ACTIVITY

Materials Inventory and Bulk Sample
Collection

PBS Engineering and Environmental, LLC has investigated accessible areas of the building located at 2450 Altamont Drive in Klamath Falls, Oregon to locate suspect asbestos-containing building materials (ACBM). The findings are listed below.

ASBESTOS MATERIALS

No asbestos-containing materials were found during the course of this investigation.

MATERIALS WHICH 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.

Material	Location
Gypsum Wallboard, light brown or white/Joint Compound, white	Walls and ceilings throughout
Acoustical Ceiling Tile, 12" rough texture	Small Office, ceiling
Carpet, blue/Jute/Mastic, yellow	Closets
Covebase, 4" black/Mastic, brown	Restroom throughout
Cork, brown and black/Mastic, yellow or tan	Small Office, East wall
Window Glazing Compound, white brittle	Exterior windows throughout

All asbestos bulk samples were collected by an EPA AHERA accredited inspector and analyzed using Polarized Light Microscopy (PLM) with dispersion staining. Samples were submitted under chain of custody to NVL Labs in Seattle, WA (NVLAP # 102063-0) for analysis. The laboratory analysis reports are attached to this report.

Asbestos Regulatory Issues

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 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

LEAD PAINT

Lead Paint Summary

Paint chip samples were collected from representative interior and exterior painted building components. The samples represent the major painted building components in areas anticipated to be impacted by the renovation project. The samples were submitted to NVL Laboratories, Inc. in Seattle, Washington (AIHA #101861) and analyzed for lead content by atomic absorption.

Laboratory analytical results indicated the presence of lead in all of the eleven (11) paint-chip samples collected, with concentrations ranging from 62 to 82,000 parts per million (ppm). Refer to the attached lead sample inventory for additional details regarding sample locations and laboratory analytical results. For reference, the Environmental Protection Agency (EPA) uses 5,000 ppm as the threshold limit for the definition of lead-based paint. Under OSHA, any amount of lead triggers the OSHA Lead in Construction Standard. Lead safe work practices should always be employed when impacting paint that contains lead in any concentration.

A summary of painted surfaces in which lead was detected is presented in the table below:

Location (Building Feature)	Material Substrate and Paint Color
Large auto bay wall	Paint, Beige on gypsum substrate
Restroom door*	Paint, Green on wood substrate
Small office wall*	Paint, Green on wood substrate
Small office door frame	Paint, Dark Grey on wood substrate
Small office door *	Paint, Dark Grey on wood substrate
Large storage room floor	Varnish on wood substrate
Small office window frame*	Paint, Dark Green on wood substrate
Exterior southeast support beam*	Paint, Dark Grey on wood substrate
Exterior East window frame	Paint, Dark Grey on wood substrate
Exterior East wall	Paint, Light Grey on metal substrate
Exterior wooden structure southeast*	Paint, Light Grey on wood substrate

*Lead-based paint (exceeds 5,000 ppm)

Disposal

According to Oregon 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 Oregon DEQ, Management of Building Demolition Waste, 97-002A for proper disposal of lead-based painted demolition waste.

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

Polychlorinated biphenyls (PCBs) and mercury

Fluorescent light fixtures that utilize mercury-containing lamps and suspect PCB containing ballasts were observed at the time of the inspection. PBS inspectors disassembled representative fixtures and found no assumed PCB-containing ballasts in various light fixtures throughout the building. Each ballast in the building should be inspected prior to removal to ensure that any remaining PCB-containing ballasts are properly handled and disposed of. Fluorescent light tubes contain small amounts of mercury and should be properly recycled. Approximately 8 fluorescent light tubes were documented during this inspection.

PCB and Mercury Vapor Tube Regulatory Issues

Refer to the following resources for general requirements regarding removal and disposal of PCB-containing light ballasts and mercury vapor light tubes:

1. U.S. EPA Toxic Substance Control Act, TSCA, (CFR Title 40, Part 761)
2. U.S. EPA Office of Toxic Substances Guidance Document, Summary of PCB Regulations, EPA Document Number 910-S-94-002
3. U.S. Department of labor, Occupational Safety and Health Administration (OSHA)
4. Resource Conservation and Recovery Act (RCRA), 40 CFR Part 2761, Subpart D, 40 CFR 273
5. Oregon Administrative Rules Hazardous Waste Regulations, OAR 340-100 through 340-104; Universal Waste Management Regulations, OAR 340-113

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>	
24011974-0001	Gypsum Wallboard/Joint Compound	Large auto bay, North wall		NVL Labs, Inc.	
		Layer: Layer 1	Description: White compacted powdery material with paint		Analysis: No Asbestos Detected
		Layer 2	Brown chalky material with paper		No Asbestos Detected
24011974-0002	Gypsum Wallboard/Joint Compound	Restroom ceiling		NVL Labs, Inc.	
		Layer: Layer 1	Description: White compacted powdery material with paint		Analysis: No Asbestos Detected
		Layer 2	Brown chalky material with paper		No Asbestos Detected
24011974-0003	Gypsum Wallboard/Joint Compound	Small office, at center demising wall		NVL Labs, Inc.	
		Layer: Layer 1	Description: White compacted powdery material with paint		Analysis: No Asbestos Detected
		Layer 2	Brown chalky material with paper		No Asbestos Detected
24011974-0004	Gypsum Wallboard/Joint Compound	Large auto bay, ceiling		NVL Labs, Inc.	
		Layer: Layer 1	Description: White compacted powdery material with paint		Analysis: No Asbestos Detected
		Layer 2	Brown chalky material with paper		No Asbestos Detected
24011974-0005	Gypsum Wallboard/Joint Compound	Large auto bay, West wall		NVL Labs, Inc.	
		Layer: Layer 1	Description: White compacted powdery material with paint		Analysis: No Asbestos Detected
		Layer 2	White chalky material with paper		No Asbestos Detected

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>
24011974-0006	Covebase/Mastic	Restroom, center demising wall		NVL Labs, Inc.
	Layer:	Description:	Analysis:	
	Layer 1	Brown rubbery material	No Asbestos Detected	
	Layer 2	Brown brittle mastic	No Asbestos Detected	
	Layer 3	White chalky material with paper	No Asbestos Detected	
24011974-0007	Covebase/Mastic	Restroom, East wall		NVL Labs, Inc.
	Layer:	Description:	Analysis:	
	Layer 1	Brown rubbery material	No Asbestos Detected	
	Layer 2	Brown brittle mastic	No Asbestos Detected	
	Layer 3	White chalky material with paper	No Asbestos Detected	
24011974-0008	Cork/Mastic	Small office, East wall		NVL Labs, Inc.
	Layer:	Description:	Analysis:	
	Layer 1	Brown cork material	No Asbestos Detected	
	Layer 2	Tan soft mastic	No Asbestos Detected	
24011974-0009	Cork/Mastic	Small office, East wall		NVL Labs, Inc.
	Layer:	Description:	Analysis:	
	Layer 1	Brown cork material	No Asbestos Detected	
	Layer 2	Tan soft mastic	No Asbestos Detected	
24011974-0010	Acoustical Ceiling Tile	Small office, ceiling		NVL Labs, Inc.
	Layer:	Description:	Analysis:	
	Layer 1	Tan compressed fibrous material with paint	No Asbestos Detected	
24011974-0011	Acoustical Ceiling Tile	Small office, ceiling		NVL Labs, Inc.
	Layer:	Description:	Analysis:	
	Layer 1	Tan compressed fibrous material with paint	No Asbestos Detected	
24011974-0012	Acoustical Ceiling Tile	Small office, ceiling		NVL Labs, Inc.
	Layer:	Description:	Analysis:	
	Layer 1	Tan compressed fibrous material with paint	No Asbestos Detected	
24011974-0013	Acoustical Ceiling Tile	Small office, ceiling		NVL Labs, Inc.
	Layer:	Description:	Analysis:	
	Layer 1	Tan compressed fibrous material with paint	No Asbestos Detected	

<u>Code</u>	<u>Material</u>	<u>Location</u>	<u>Results</u>	<u>Lab</u>
24011974-0014	Window Glazing Compound	Small office, window		NVL Labs, Inc.
	Layer:	Description:	Analysis:	
	Layer 1	White brittle material with paint	No Asbestos Detected	
24011974-0015	Window Glazing Compound	Large auto bay, West window		NVL Labs, Inc.
	Layer:	Description:	Analysis:	
	Layer 1	White brittle material with paint	No Asbestos Detected	
24011974-0016	Window Glazing Compound	Storage room, West window		NVL Labs, Inc.
	Layer:	Description:	Analysis:	
	Layer 1	White brittle material with paint	No Asbestos Detected	
24011974-0017	Window Glazing Compound	Storage room, North window		NVL Labs, Inc.
	Layer:	Description:	Analysis:	
	Layer 1	White brittle material with paint	No Asbestos Detected	

<u>Code</u>	<u>Material</u>	<u>Analysis</u>	<u>Location</u>	<u>Lab</u>
PAINT				
LB24011974-1001	Paint, Beige	62 ppm	Large auto bay North wall on gypsum substrate	NVL Labs, Inc.
LB24011974-1002	Paint, Green	82,000 ppm	Restroom door on wood substrate	NVL Labs, Inc.
LB24011974-1003	Paint, Green	27,000 ppm	Small office wall on wood substrate	NVL Labs, Inc.
LB24011974-1004	Paint, Grey	2,400 ppm	Small office door frame on wood substrate	NVL Labs, Inc.
LB24011974-1005	Paint, Grey	23,000 ppm	Small office door on wood substrate	NVL Labs, Inc.
LB24011974-1006	Paint, Varnish	380 ppm	Large storage area floor on wood substrate	NVL Labs, Inc.
LB24011974-1007	Paint, Dark Green	42,000 ppm	Small office window frame, on wood substrate	NVL Labs, Inc.
LB24011974-1008	Paint, Dark Grey	9,100 ppm	Main building southeast exterior support beam on wood substrate	NVL Labs, Inc.
LB24011974-1009	Paint, Dark Grey	620 ppm	Main building East exterior window frame on wood substrate	NVL Labs, Inc.
LB24011974-1010	Paint, Light Grey	1,900 ppm	Main building East exterior wall on metal substrate	NVL Labs, Inc.
LB24011974-1011	Paint, Light Grey	49,000 ppm	Exterior wooden structure southeast on wood substrate	NVL Labs, Inc.

November 11, 2024



Aaron Lefore
PBS Environmental - Eugene
3500 Chad Drive Suite 100
Eugene, OR 97408

RE: Bulk Asbestos Fiber Analysis; NVL Batch # 2420271.00

Client Project: ERG002-24011974 Task 0001
Location: 2450 Altamont Drive

Dear Mr. Lefore,

Enclosed please find test results for the 17 sample(s) submitted to our laboratory for analysis on 11/7/2024.

Examination of these samples was conducted for the presence of identifiable asbestos fibers using polarized light microscopy (PLM) with dispersion staining in accordance with **U. S. EPA 40 CFR Appendix E to Subpart E of Part 763**, Interim Method for the Determination of Asbestos in Bulk Insulation Samples and **EPA 600/R-93/116**, Method for the Determination of Asbestos in Bulk Building Materials.

For samples containing more than one separable layer of materials, the report will include findings for each layer (labeled Layer 1 and Layer 2, etc. for each individual layer). The asbestos concentration in the sample is determined by calibrated visual estimation.

For those samples with asbestos concentrations between 1 and 10 percent based on visual estimation, the EPA recommends a procedure known as point counting (NESHAPS, 40 CFR Part 61). Point counting is a statistically more accurate means of quantification for samples with low concentrations of asbestos.

The detection limit for the calibrated visual estimation is <1%, 400 point counts is 0.25% and 1000 point counts is 0.1%

Samples are archived for two weeks following analysis. Samples that are not retrieved by the client are discarded after two weeks.

Thank you for using our laboratory services. Please do not hesitate to call if there is anything further we can assist you with.

Sincerely,

A handwritten signature in black ink that reads 'Hilary Crumley'.

Hilary Crumley, Manager Asbestos Laboratory

The logo for NVL LABS, featuring the letters 'NVL' in a large, outlined, sans-serif font, followed by 'LABS' in a smaller, outlined, sans-serif font.

Testing

Lab Code: 102063-0

Enc.: Sample Results

Phone: 206 547.0100 | Fax: 206 634.1936 | Toll Free: 1.888.NVL.LABS (685.5227)
4708 Aurora Avenue North | Seattle, WA 98103-6516



Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: PBS Environmental - Eugene
Address: 3500 Chad Drive Suite 100
Eugene, OR 97408

Batch #: 2420271.00

Client Project #: ERG002-24011974 Task 0001

Date Received: 11/7/2024

Samples Received: 17

Samples Analyzed: 17

Method: EPA/600/R-93/116

Attention: Mr. Aaron Lefore

Project Location: 2450 Altamont Drive

Lab ID: 24121762 Client Sample #: 24011974-0001

Location: 2450 Altamont Drive

Layer 1 of 2 Description: White compacted powdery material with paint

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Calcareous binder, Calcareous particles, Paint	Cellulose 4%	None Detected ND

Layer 2 of 2 Description: Brown chalky material with paper

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Gypsum/Binder, Calcareous particles	Cellulose 24%	None Detected ND
	Glass fibers 7%	

Lab ID: 24121763 Client Sample #: 24011974-0002

Location: 2450 Altamont Drive

Layer 1 of 2 Description: White compacted powdery material with paint

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Calcareous binder, Calcareous particles, Paint	Cellulose 5%	None Detected ND

Layer 2 of 2 Description: Brown chalky material with paper

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Gypsum/Binder, Calcareous particles	Cellulose 22%	None Detected ND
	Glass fibers 8%	

Lab ID: 24121764 Client Sample #: 24011974-0003

Location: 2450 Altamont Drive

Layer 1 of 2 Description: White compacted powdery material with paint

Non-Fibrous Materials:	Other Fibrous Materials: %	Asbestos Type: %
Calcareous binder, Calcareous particles, Paint	Cellulose 4%	None Detected ND

Sampled by: Client

Analyzed by: Carena Lan

Reviewed by: Hilary Crumley

Date: 11/11/2024

Date: 11/11/2024

Hilary Crumley, Manager Asbestos Laboratory

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and EPA 40 CFR Appendix E to Subpart E of Part 763 with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government



Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: PBS Environmental - Eugene
Address: 3500 Chad Drive Suite 100
Eugene, OR 97408

Batch #: 2420271.00

Client Project #: ERG002-24011974 Task 0001

Date Received: 11/7/2024

Samples Received: 17

Samples Analyzed: 17

Method: EPA/600/R-93/116

Attention: Mr. Aaron Lefore
Project Location: 2450 Altamont Drive

Layer 1 of 3	Description: Brown rubbery material	Non-Fibrous Materials: Rubber/Synthetic Binder	Other Fibrous Materials:% None Detected ND	Asbestos Type: % None Detected ND
Layer 2 of 3	Description: Brown brittle mastic	Non-Fibrous Materials: Mastic/Binder	Other Fibrous Materials:% Wollastonite 4%	Asbestos Type: % None Detected ND
Layer 3 of 3	Description: White chalky material with paper	Non-Fibrous Materials: Gypsum/Binder, Calcareous particles	Other Fibrous Materials:% Cellulose 24%	Asbestos Type: % None Detected ND

Lab ID: 24121768 Client Sample #: 24011974-0007


Location: 2450 Altamont Drive

Layer 1 of 3	Description: Brown rubbery material	Non-Fibrous Materials: Rubber/Synthetic Binder	Other Fibrous Materials:% None Detected ND	Asbestos Type: % None Detected ND
Layer 2 of 3	Description: Brown brittle mastic	Non-Fibrous Materials: Mastic/Binder	Other Fibrous Materials:% Wollastonite 3%	Asbestos Type: % None Detected ND
Layer 3 of 3	Description: White chalky material with paper	Non-Fibrous Materials: Gypsum/Binder, Calcareous particles	Other Fibrous Materials:% Cellulose 22%	Asbestos Type: % None Detected ND

Lab ID: 24121769 Client Sample #: 24011974-0008

Location: 2450 Altamont Drive

Layer 1 of 2	Description: Brown cork material	Non-Fibrous Materials: Binder/Filler, Cork	Other Fibrous Materials:% None Detected ND	Asbestos Type: % None Detected ND
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Sampled by: Client		
Analyzed by: Carena Lan		
Reviewed by: Hilary Crumley		
Date: 11/11/2024	Date: 11/11/2024	Hilary Crumley, Manager Asbestos Laboratory

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and EPA 40 CFR Appendix E to Subpart E of Part 763 with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government



Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: PBS Environmental - Eugene
Address: 3500 Chad Drive Suite 100
Eugene, OR 97408

Batch #: 2420271.00

Client Project #: ERG002-24011974 Task 0001

Date Received: 11/7/2024

Samples Received: 17

Samples Analyzed: 17

Method: EPA/600/R-93/116

Attention: Mr. Aaron Lefore
Project Location: 2450 Altamont Drive

Layer 2 of 2	Description: Tan soft mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Mastic/Binder	None Detected ND		None Detected ND

Lab ID: 24121770 Client Sample #: 24011974-0009

Location: 2450 Altamont Drive

Layer 1 of 2	Description: Brown cork material			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Binder/Filler, Cork	None Detected ND		None Detected ND

Layer 2 of 2	Description: Tan soft mastic			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Mastic/Binder	None Detected ND		None Detected ND

Lab ID: 24121771 Client Sample #: 24011974-0010

Location: 2450 Altamont Drive

Layer 1 of 1	Description: Tan compressed fibrous material with paint			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Binder/Filler, Fine particles, Paint	Cellulose 82%		None Detected ND

Lab ID: 24121772 Client Sample #: 24011974-0011

Location: 2450 Altamont Drive

Layer 1 of 1	Description: Tan compressed fibrous material with paint			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Binder/Filler, Fine particles, Paint	Cellulose 84%		None Detected ND

Lab ID: 24121773 Client Sample #: 24011974-0012

Location: 2450 Altamont Drive

Sampled by: Client		
Analyzed by: Carena Lan	Date: 11/11/2024	
Reviewed by: Hilary Crumley	Date: 11/11/2024	Hilary Crumley, Manager Asbestos Laboratory

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and EPA 40 CFR Appendix E to Subpart E of Part 763 with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government



Bulk Asbestos Fibers Analysis

By Polarized Light Microscopy

Client: PBS Environmental - Eugene
Address: 3500 Chad Drive Suite 100
Eugene, OR 97408

Batch #: 2420271.00

Client Project #: ERG002-24011974 Task 0001

Date Received: 11/7/2024

Samples Received: 17

Samples Analyzed: 17

Method: EPA/600/R-93/116

Attention: Mr. Aaron Lefore
Project Location: 2450 Altamont Drive

Layer 1 of 1	Description: Tan compressed fibrous material with paint			
	Non-Fibrous Materials:	Other Fibrous Materials: %		Asbestos Type: %
	Binder/Filler, Fine particles, Paint	Cellulose 81%		None Detected ND

Lab ID: 24121774 **Client Sample #: 24011974-0013**

Location: 2450 Altamont Drive

Layer 1 of 1	Description: Tan compressed fibrous material with paint			
	Non-Fibrous Materials:	Other Fibrous Materials: %		Asbestos Type: %
	Binder/Filler, Fine particles, Paint	Cellulose 83%		None Detected ND

Lab ID: 24121775 **Client Sample #: 24011974-0014**

Location: 2450 Altamont Drive

Layer 1 of 1	Description: White brittle material with paint			
	Non-Fibrous Materials:	Other Fibrous Materials: %		Asbestos Type: %
	Binder/Filler, Fine particles, Paint	None Detected ND		None Detected ND

Lab ID: 24121776 **Client Sample #: 24011974-0015**

Location: 2450 Altamont Drive

Layer 1 of 1	Description: White brittle material with paint			
	Non-Fibrous Materials:	Other Fibrous Materials: %		Asbestos Type: %
	Binder/Filler, Fine particles, Paint	None Detected ND		None Detected ND


Lab ID: 24121777 **Client Sample #: 24011974-0016**

Location: 2450 Altamont Drive

Layer 1 of 1	Description: White brittle material with paint			
	Non-Fibrous Materials:	Other Fibrous Materials: %		Asbestos Type: %
	Binder/Filler, Fine particles, Paint	None Detected ND		None Detected ND

Lab ID: 24121778 **Client Sample #: 24011974-0017**

Location: 2450 Altamont Drive

Sampled by: Client			
Analyzed by: Carena Lan	Date: 11/11/2024		
Reviewed by: Hilary Crumley	Date: 11/11/2024	Hilary Crumley, Manager Asbestos Laboratory	

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and EPA 40 CFR Appendix E to Subpart E of Part 763 with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government



Bulk Asbestos Fibers Analysis


By Polarized Light Microscopy

Client: PBS Environmental - Eugene
Address: 3500 Chad Drive Suite 100
Eugene, OR 97408

Attention: Mr. Aaron Lefore
Project Location: 2450 Altamont Drive

Batch #: 2420271.00
Client Project #: ERG002-24011974 Task 0001
Date Received: 11/7/2024
Samples Received: 17
Samples Analyzed: 17
Method: EPA/600/R-93/116

Layer 1 of 1	Description: White brittle material with paint			
	Non-Fibrous Materials:	Other Fibrous Materials:%		Asbestos Type: %
	Binder/Filler, Fine particles, Paint	None Detected ND		None Detected ND

Sampled by: Client		
Analyzed by: Carena Lan	Date: 11/11/2024	
Reviewed by: Hilary Crumley	Date: 11/11/2024	Hilary Crumley, Manager Asbestos Laboratory

Note: If samples are not homogeneous, then subsamples of the components were analyzed separately. All bulk samples are analyzed using both EPA 600/R-93/116 and EPA 40 CFR Appendix E to Subpart E of Part 763 with the following measurement uncertainties for the reported % Asbestos (1%=0-3%, 5%=1-9%, 10%=5-15%, 20%=10-30%, 50%=40-60%). This report relates only to the items tested. If sample was not collected by NVL personnel, then the accuracy of the results is limited by the methodology and acuity of the sample collector. This report shall not be reproduced except in full, without written approval of NVL Laboratories, Inc. It shall not be used to claim product endorsement by NVLAP or any other agency of the US Government

ASBESTOS LABORATORY SERVICES



Company PBS Environmental - Eugene Address 3500 Chad Drive Suite 100 Eugene, OR 97408 Project Manager Mr. Aaron Lefore Phone (541) 686-8684	NVL Batch Number 2420271.00 TAT 3 Days AH No Rush TAT Due Date 11/12/2024 Time 9:15 AM Email aaron.lefore@pbsusa.com Fax (866) 727-0140
---	---

Project Name/Number: ERG002-24011974 **Project Location:** 2450 Altamont Drive
 Task 0001

Subcategory PLM Bulk
Item Code ASB-02 EPA 600/R-93-116 Asbestos by PLM <bulk>

Total Number of Samples 17 **Rush Samples** _____

Lab ID	Sample ID	Description	A/R
1	24121762	24011974-0001	A
2	24121763	24011974-0002	A
3	24121764	24011974-0003	A
4	24121765	24011974-0004	A
5	24121766	24011974-0005	A
6	24121767	24011974-0006	A
7	24121768	24011974-0007	A
8	24121769	24011974-0008	A
9	24121770	24011974-0009	A
10	24121771	24011974-0010	A
11	24121772	24011974-0011	A
12	24121773	24011974-0012	A
13	24121774	24011974-0013	A
14	24121775	24011974-0014	A
15	24121776	24011974-0015	A
16	24121777	24011974-0016	A
17	24121778	24011974-0017	A

	Print Name	Signature	Company	Date	Time
Sampled by	Client				
Relinquished by	Federal Express				

	Print Name	Signature	Company	Date	Time
Received by	Kelly AuVu		NVL	11/7/24	915
Analyzed by	Carena Lan		NVL	11/11/24	
Results Called by					
<input type="checkbox"/> Faxed <input type="checkbox"/> Emailed					

Special Instructions: Please include results in electronic (csv) format.

Date: 11/7/2024
 Time: 9:32 AM
 Entered By: Kelly AuVu



2420271

TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

Project No.: ERG002-24011974 Task 0001 2450 Altamont Drive

Individuals signing this form warrant that the information provided is correct and complete. The Sender should keep a copy and send the original. The Receiver should complete the form, keep a copy and return the original to the Sender. Receiver shall report damage of package immediately to Sender.

SENDER

Date Sent: November 06, 2024

PBS Engineering and Environmental LLC
3500 Chad Drive, Suite 100
Eugene, OR 97408
541.686.8684, Fax: 866.727.0140

Avon LeFore
Name

[Signature] 11/6/24 12:45
Authorized Signature Date Time

RECEIVER

Date Received: 11/7/24

Company: NVL Labs, Inc.
Address: 4708 Aurora Ave. North
Seattle, WA 98103
(206)547-0100

Kellie Allen
Name

[Signature] 11/7/24 9:15 AM
Authorized Signature Date Time

Sender's ID No.

Brief Description

Receiver's ID No.

24011974-0001	_____
24011974-0002	_____
24011974-0003	_____
24011974-0004	_____
24011974-0005	_____
24011974-0006	_____
24011974-0007	_____
24011974-0008	_____
24011974-0009	_____
24011974-0010	_____
24011974-0011	_____
24011974-0012	_____
24011974-0013	_____
24011974-0014	_____



2420271

TRANSMITTAL AND CHAIN OF CUSTODY FOR ASBESTOS BULK SAMPLES

24011974-0015	_____	_____
24011974-0016	_____	_____
24011974-0017	_____	_____

Please analyze the enclosed 17 sample(s) for asbestos content using PLM with dispersion staining. PBS requests prior notification if samples will be disposed.

Request verbal results by: _____ AM/PM _____ Date.

Please fax and mail the results to the above address.

TURNAROUND DESIRED: 72 Hour

SPECIAL INSTRUCTIONS:

Please include results in electronic (csv) format.

please email results to aaron.lore@pbsusa.com Thanks!

November 8, 2024

Aaron Lefore

PBS Environmental - Eugene

3500 Chad Drive Suite 100
Eugene, OR 97408



NVL Batch # 2420270.00

RE: Total Metal Analysis
Method: EPA 7000B Lead by FAA <paint>
Item Code: FAA-02

Client Project: ERG002-24011974 Task 0001

Location: 2450 Altamont Drive

Dear Mr. Lefore,

NVL Labs received 11 sample(s) for the said project on 11/7/2024. Preparation of these samples was conducted following protocol outlined in EPA 3051/7000B , unless stated otherwise. Analysis of these samples was performed using analytical instruments in accordance with EPA 7000B Lead by FAA <paint>. The results are usually expressed in mg/Kg and percentage (%). Test results are not blank corrected.

For recent regulation updates pertaining to current regulatory levels or permissible exposure levels, please call your local regulatory agencies for more detail.

At NVL Labs all analyses are performed under strict guidelines of the Quality Assurance Program. If samples were collected by the customer, then the reported test results apply only to the samples as received by NVL Labs. This report is considered highly confidential and will not be released without your approval. Samples are archived after two weeks from the analysis date. Please feel free to contact us at 206-547-0100, in case you have any questions or concerns.

Sincerely,

Shalini Patel, Manager Metals/Org Laboratory

Enc.: Sample results



Phone: 206 547.0100 | Fax: 206 634.1936 | Toll Free: 1.888.NVL.LABS (685.5227)
4708 Aurora Avenue North | Seattle, WA 98103-6516

Analysis Report

Total Lead (Pb)



Client: PBS Environmental - Eugene
 Address: 3500 Chad Drive Suite 100
 Eugene, OR 97408

Batch #: 2420270.00

Matrix: Paint
 Method: EPA 3051/7000B
 Client Project #: ERG002-24011974 Task 0001
 Date Received: 11/7/2024
 Samples Received: 11
 Samples Analyzed: 11

Attention: Mr. Aaron Lefore
 Project Location: 2450 Altamont Drive

Lab ID	Client Sample #	Sample Weight (g)	RL in mg/Kg	Results in mg/Kg	Results in percent
24121749	LB24011974-1001	0.1827	55	62	0.0062
24121750	LB24011974-1002	0.1946	51	82000	8.2
24121751	LB24011974-1003	0.1892	53	27000	2.7
24121752	LB24011974-1004	0.1849	54	2400	0.24
24121753	LB24011974-1005	0.1904	53	23000	2.3
24121754	LB24011974-1006	0.2032	49	380	0.038
24121755	LB24011974-1007	0.1877	53	42000	4.2
24121756	LB24011974-1008	0.1879	53	9100	0.91
24121757	LB24011974-1009	0.2025	49	620	0.062
24121758	LB24011974-1010	0.1894	53	1900	0.19
24121759	LB24011974-1011	0.1927	52	49000	4.9


Sampled by: Client

Analyzed by: Yasuyuki Hida

Reviewed by: Shalini Patel

Date Analyzed: 11/07/2024

Date Issued: 11/08/2024


 Shalini Patel, Manager Metals/Org Laboratory

mg/ Kg =Milligrams per kilogram

Percent = Milligrams per kilogram / 10000

Note : Method QC results are acceptable unless stated otherwise.

Unless otherwise indicated, the condition of all samples was acceptable at time of receipt.

RL = Reporting Limit

'<' = Below the reporting Limit

Bench Run No: 2024-1107-04

FAA-02

LEAD LABORATORY SERVICES



Company PBS Environmental - Eugene	NVL Batch Number 2420270.00
Address 3500 Chad Drive Suite 100 Eugene, OR 97408	TAT 3 Days AH No
Project Manager Mr. Aaron Lefore	Rush TAT
Phone (541) 686-8684	Due Date 11/12/2024 Time 9:15 AM
	Email aaron.lefore@pbsusa.com
	Fax (866) 727-0140

Project Name/Number: ERG002-24011974 **Project Location:** 2450 Altamont Drive
Task 0001

Subcategory Flame AA (FAA)
Item Code FAA-02 EPA 7000B Lead by FAA <paint>

Total Number of Samples 11 **Rush Samples** _____

Lab ID	Sample ID	Description	A/R
1	24121749	LB24011974-1001	A
2	24121750	LB24011974-1002	A
3	24121751	LB24011974-1003	A
4	24121752	LB24011974-1004	A
5	24121753	LB24011974-1005	A
6	24121754	LB24011974-1006	A
7	24121755	LB24011974-1007	A
8	24121756	LB24011974-1008	A
9	24121757	LB24011974-1009	A
10	24121758	LB24011974-1010	A
11	24121759	LB24011974-1011	A

	Print Name	Signature	Company	Date	Time
Sampled by	Client				
Relinquished by	Federal Express				

Office Use Only	Print Name	Signature	Company	Date	Time
Received by	Kelly AuVu		NVL	11/7/24	915
Analyzed by	Yasuyuki Hida		NVL	11/7/24	
Results Called by					
<input type="checkbox"/> Faxed <input type="checkbox"/> Emailed					

Special Instructions: _____

Date: 11/7/2024
Time: 9:29 AM
Entered By: Kelly AuVu



TRANSMITTAL AND CHAIN OF CUSTODY FOR LEAD BULK SAMPLES

Project No.: ERG002-24011974 Task 0001 2450 Altamont Drive

Individuals signing this form warrant that the information provided is correct and complete. The Sender should keep a copy and send the original. The Receiver should complete the form, keep a copy and return the original to the Sender. Receiver shall report damage of package immediately to Sender.

SENDER

Date Sent: November 06, 2024

PBS Engineering and Environmental LLC
3500 Chad Drive, Suite 100
Eugene, OR 97408
541.686.8684, Fax: 866.727.0140

Aaron LeFore
Name

Authorized Signature Date 11/6/24

RECEIVER

Date Received: 11/7/24

Company: NVL Labs, Inc.
Address: 4708 Aurora Ave. North
Seattle, WA 98103
(206)547-0100

Ken Stein
Name

Authorized Signature Date 11/7/24 9:15 AM

Table with 3 columns: Sender's ID No., Brief Description, Receiver's ID No. Rows include LB24011974-1001 through LB24011974-1011.



2420270

TRANSMITTAL AND CHAIN OF CUSTODY FOR LEAD BULK SAMPLES

ANALYSIS REQUESTED:

- LEAD:**
- Paint
 - Wipe
 - Soil/Misc.
 - Air
 - TCLP

Please analyze the enclosed 11 sample(s) for LEAD content using Atomic Absorption Method. PBS requests prior notification if samples will be disposed.

Please fax and mail the results to the above address.

TURNAROUND DESIRED:

72 Hour

SPECIAL INSTRUCTIONS:

please email results to aaron.lefore@pbsa.se.com Thanks!

THIS IS TO CERTIFY THAT

AARON LEFORE

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: 01/23/2024

Course Location: Online

Certificate: IRO-24-7318B



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: 01/23/2025

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

A handwritten signature in black ink, reading "Andy Fridley", is written over a horizontal line.

Andy Fridley, Instructor

503-248-1939

THIS IS TO CERTIFY THAT
AARON LEFORE
HAS SUCCESSFULLY COMPLETED THE TRAINING COURSE
for
8-HOUR LEAD RISK ASSESSOR TRAINING REFRESHER

In Accordance with the training requirements of 40 CFR 745.225

Course Date: 04/20/2022

Course Location: Portland, OR

Certificate: LRA-R-41A035-7318B-22-00007

Score: 90

For verification of the authenticity of this
certificate contact:
PBS Engineering and Environmental Inc.



Aaron LeFore
1430 Marshall Ave, Eugene, OR 97402
Exam Date: Wednesday, April 20, 2022
Language of Instruction: English

Expiration Date: 04/20/2025

A handwritten signature in black ink, appearing to read "Clark Nelson", positioned above a horizontal line.

Clark Nelson, Program Manager

A handwritten signature in black ink, appearing to read "Bruce Cassem", positioned above a horizontal line.

Bruce Cassem, Instructor

File name: \\pbsenv.lan\l\Projects\DVPEIERG002\24011974\CAD\24011974_0001_HS1.dwg Layout Tab: 11X17 DRAWINGS User: James Blanco CAD Plot Date/Time: 11/20/2024 4:23:58 PM

GENERAL NOTES

- THIS DRAWING IS DIAGRAMMATIC. IT IS FOR GENERAL INFORMATION AND SAMPLE LOCATIONS.
- ACCESSIBLE SPACES WERE SURVEYED FOR SUSPECT HAZARDOUS MATERIALS. WHEN OBSERVED, THE MATERIALS WERE NOTED ON THE DRAWING.

ASBESTOS SAMPLE SYMBOLS

◇ 007 — DRAWING REFERENCE TO BULK SAMPLE FIELD CODE, SEE INVENTORY OF SAMPLES
 — MATERIAL SYMBOL

NOT TESTED	NEGATIVE	POSITIVE	
○	⊖	⊕	THERMAL SYSTEM INSULATION
□	⊞	⊟	SURFACING MATERIAL
◇	◇	◇	MISCELLANEOUS MATERIAL

INVENTORY OF ASBESTOS SAMPLES

DRAWING REFERENCE	FIELD CODE	LAB RESULT	MATERIAL SAMPLED
◇001	24011974-0001	(-/-)	GYPSUM WALLBOARD/ JOINT COMPOUND
◇002	24011974-0002	(-/-)	GYPSUM WALLBOARD/ JOINT COMPOUND
◇003	24011974-0003	(-/-)	GYPSUM WALLBOARD/ JOINT COMPOUND
◇004	24011974-0004	(-/-)	GYPSUM WALLBOARD/ JOINT COMPOUND
◇005	24011974-0005	(-/-)	GYPSUM WALLBOARD/ JOINT COMPOUND
◇006	24011974-0006	(-/-/-)	COVEBASE/MASTIC
◇007	24011974-0007	(-/-/-)	COVEBASE/MASTIC
◇008	24011974-0008	(-/-)	CORK/MASTIC
◇009	24011974-0009	(-/-)	CORK/MASTIC
◇010	24011974-0010	(-)	ACOUSTICAL CEILING TILE
◇011	24011974-0011	(-)	ACOUSTICAL CEILING TILE
◇012	24011974-0012	(-)	ACOUSTICAL CEILING TILE
◇013	24011974-0013	(-)	ACOUSTICAL CEILING TILE
◇014	24011974-0014	(-)	WINDOW GLAZING COMPOUND
◇015	24011974-0015	(-)	WINDOW GLAZING COMPOUND
◇016	24011974-0016	(-)	WINDOW GLAZING COMPOUND
◇017	24011974-0017	(-)	WINDOW GLAZING COMPOUND

LEAD SAMPLE SYMBOLS

▲ 1007 — DRAWING REFERENCE TO LEAD SAMPLE FIELD CODE, SEE INVENTORY OF SAMPLES
 — MATERIAL SYMBOL

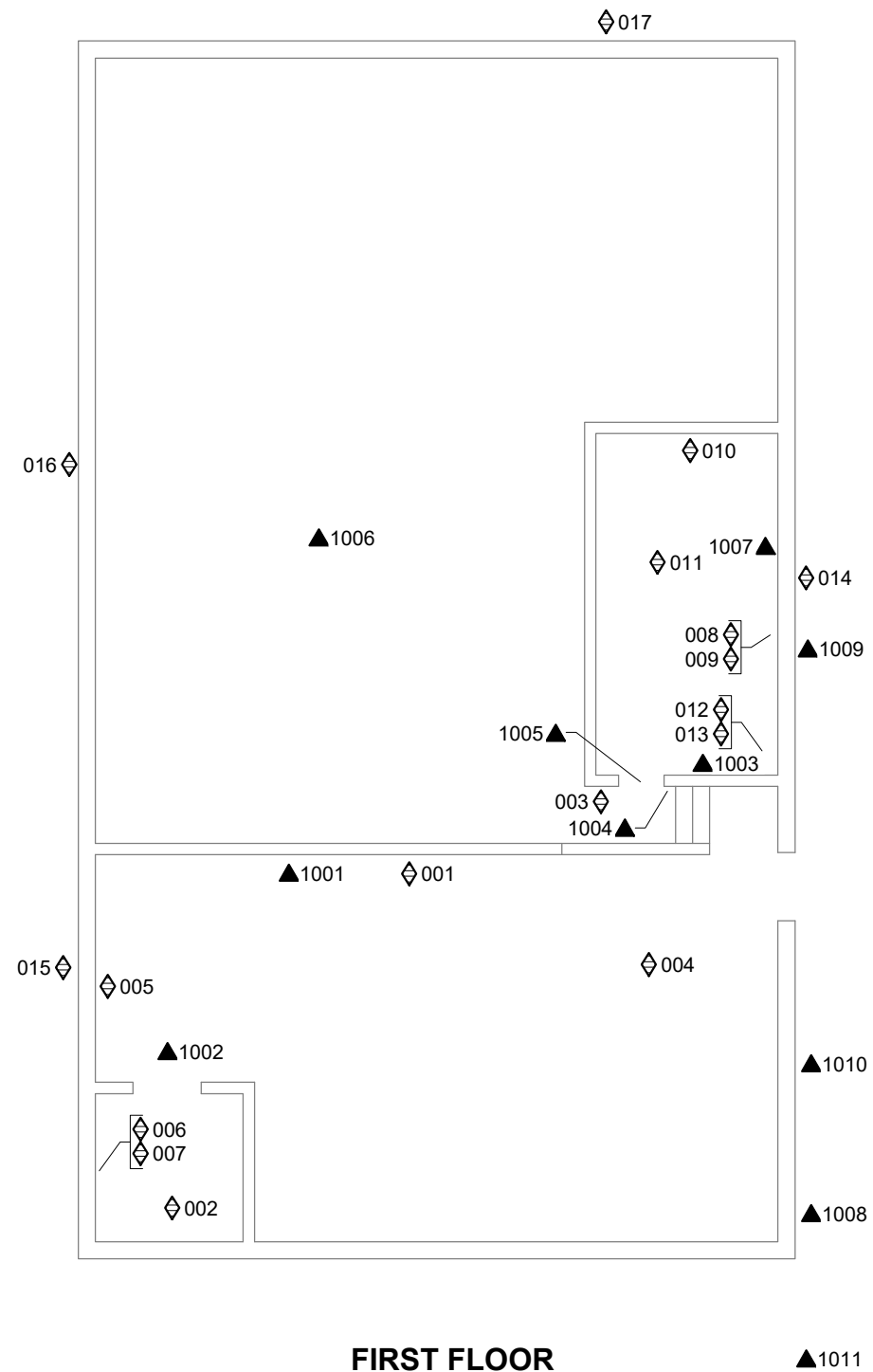
▲ LEAD DETECTED △ BELOW THE LIMIT OF DETECTION

INVENTORY OF AA LEAD SAMPLES

SAMPLE NUMBER	FIELD CODE	LAB RESULT (ppm)	MATERIAL DESCRIPTION
▲1001	24011974-1001	62	PAINT, BEIGE ON LARGE AUTO BAY NORTH WALL ON GYPSUM SUBSTRATE
▲1002	24011974-1002	82,000	PAINT, GREEN ON RESTROOM DOOR ON WOOD SUBSTRATE
▲1003	24011974-1003	27,000	PAINT, GREEN ON SMALL OFFICE WALL ON WOOD SUBSTRATE
▲1004	24011974-1004	2,400	PAINT, GREY ON SMALL OFFICE DOOR FRAME ON WOOD SUBSTRATE

INVENTORY OF AA LEAD SAMPLES (CONTINUED)

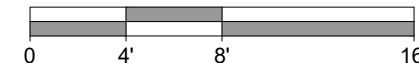
SAMPLE NUMBER	FIELD CODE	LAB RESULT (ppm)	MATERIAL DESCRIPTION
▲1005	24011974-1005	23,000	PAINT, GREY ON SMALL OFFICE DOOR ON WOOD SUBSTRATE
▲1006	24011974-1006	380	PAINT, VARNISH ON LARGE STORAGE AREA FLOOR ON WOOD SUBSTRATE
▲1007	24011974-1007	42,000	PAINT, DARK GREEN ON SMALL OFFICE WINDOW FRAME, ON WOOD SUBSTRATE
▲1008	24011974-1008	9,100	PAINT, DARK GREY ON MAIN BUILDING SOUTHEAST EXTERIOR SUPPORT BEAM ON WOOD SUBSTRATE
▲1009	24011974-1009	620	PAINT, DARK GREY ON MAIN BUILDING EAST EXTERIOR WINDOW FRAME ON WOOD SUBSTRATE
▲1010	24011974-1010	1,900	PAINT, LIGHT GREY ON MAIN BUILDING EAST EXTERIOR WALL ON METAL SUBSTRATE
▲1011	24011974-1011	49,000	PAINT, LIGHT GREY ON EXTERIOR WOODEN STRUCTURE SOUTHEAST ON WOOD SUBSTRATE



FIRST FLOOR



SCALE: 1/8" = 1'-0"



PREPARED FOR: EASTERN RESEARCH GROUP

FULL SIZE SHEET FORMAT IS 11X17; IF PRINTED SIZE IS NOT 11X17, THEN THIS SHEET FORMAT HAS BEEN MODIFIED & INDICATED DRAWING SCALE IS NOT ACCURATE.

PBS Engineering and Environmental LLC
 3500 Chad Drive, Suite 100
 Eugene, OR 97408
 541.686.8684
 pbsusa.com

HAZARDOUS MATERIAL SURVEY PLAN
VACANT FACILITY
 2450 ALTAMONT DRIVE, KLAMATH FALLS, OREGON

PROJECT
24011974
DATE
NOVEMBER 2024
FIGURE:
HS1

Appendix H – IDW Waste Manifest

4613146-15420

Please print or type. (Form designed for use on 51/8 (12-pitch) typewriter.)

HAZMAT BILL OF LADING/MANIFEST		1. Offeror's ID Number	2. Page 1 of 1	3. Emergency Response Phone 800 326 1221	4. Tracking Number 4613146-15420
5. Offeror's Name and Mailing Address KLAMATH COUNTY / BROOK MCKEOWN 2450 ALTAMONT DR KLAMATH FALLS, OR 97603 Offeror's Phone: 4104595811			Offeror's Site Address (if different than mailing address) KLAMATH COUNTY / BROOK MCKEOWN 2450 ALTAMONT DR KLAMATH FALLS, OR 97603 GEN: 232747		
6. Transporter 1 Company Name HERITAGE TRANSPORT LLC - TS SEATTLE		U.S. EPA ID Number 12D057484114			
7. Transporter 2 Company Name HERITAGE TRANSPORT LLC - TS SEATTLE Savanna Transport Inc		U.S. EPA ID Number 12D057484114 1280000326891			
8. Designated Facility Name and Site Address RINECO 1007 VULCAN ROAD HASKELL BENTON, AR 72015 Facility's Phone: (501)778-9089			U.S. EPA ID Number ARD981057870		

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.
		No.	Type		
1.	NON-DOT REGULATED MATERIAL, (IDW-WATER)	04	DM	400	P
2.	NON-DOT REGULATED MATERIAL, (IDW, SOIL BORINGS)	01	DM	100	P
3.					
4.					
5.					
6.					
7.					

13. Special Handling Instructions and Additional Information
1. W1_Q1767928 2. W2_Q1767931

14. OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Offeror's Printed/Typed Name: Klamath County Signature: [Signature] Month: 02 Day: 27 Year: 25

15. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Steven Darity Signature: [Signature] Month: 02 Day: 27 Year: 25

Transporter 2 Printed/Typed Name: Arren Sanson Signature: [Signature] Month: 3 Day: 7 Year: 25

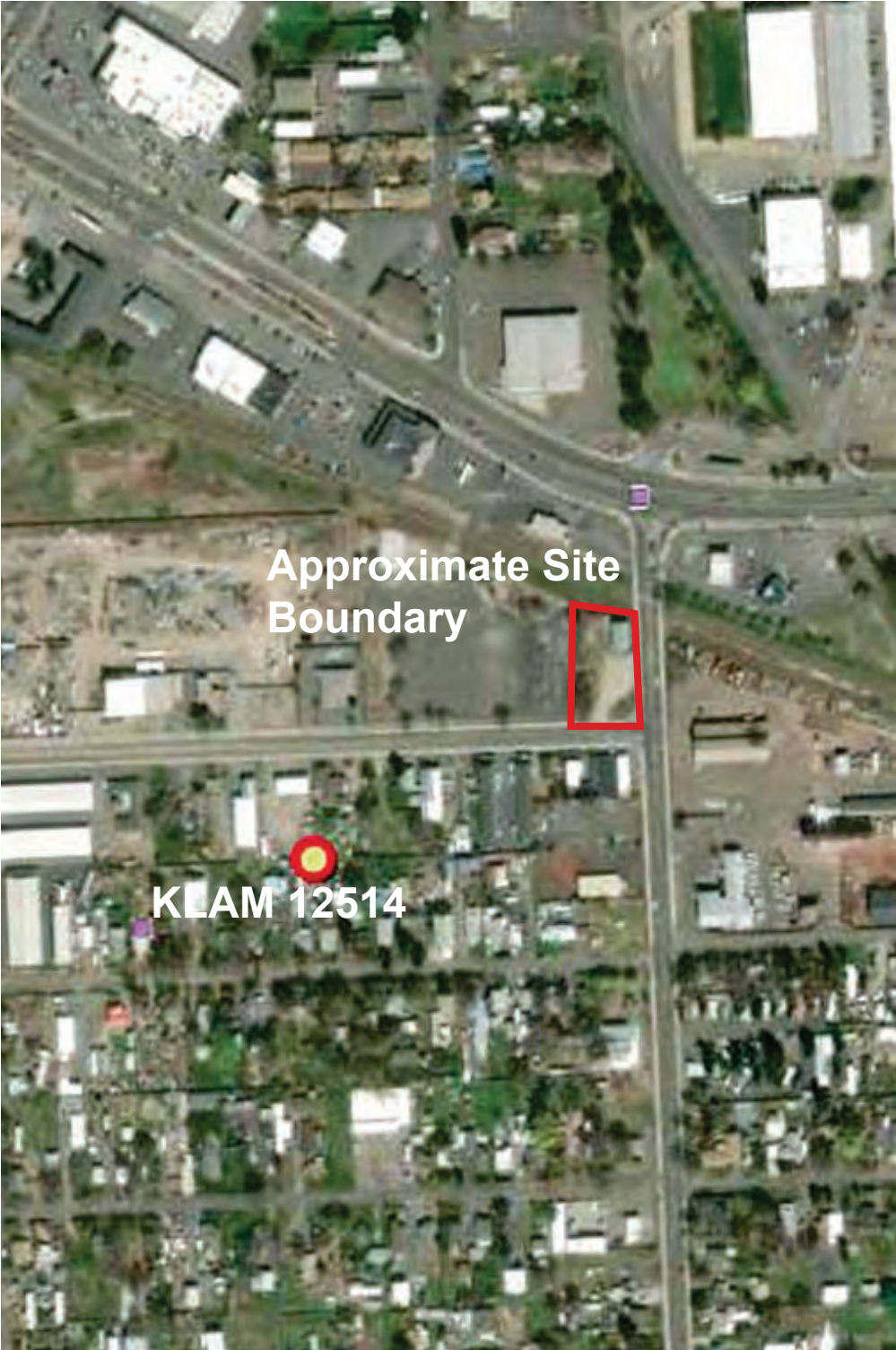
16. Discrepancy

17. Designated Facility Owner or Operator: Certification of receipt of hazardous Bill of Lading/Manifest covered by the manifest except as noted in item 16
Printed/Typed Name: Jack Rice Signature: [Signature] Month: 3 Day: 23 Year: 25

OFFEROR
TRANSPORTER
DESIGNATED FACILITY

DESIGNATED FACILITY TO OFFEROR

Appendix I – Well Survey Records



WATER WELL REPORT
STATE OF OREGON

KLAM 12514 KLAM 12514

RECEIVED
AUG 11 1983

State Well No. *395/9E-30a*

PLEASE TYPE OR PRINT IN INK
WATER RESOURCES DEPT.
SALEM, OREGON

Permit No. _____

(1) OWNER:

Name Farm Bed of Oregon - Edward L. Mason
Address 9135 Hwy. 97 S
City Klamath Falls State OR

(2) TYPE OF WORK (check):

New Well Deepening Reconditioning Abandon

If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:

Rotary Air Driven
Rotary Mud Dug
 Bored

(4) PROPOSED USE (check):

Domestic Industrial Municipal
Irrigation Test Well Other
Thermal: Withdrawal ReInjection

CASING INSTALLED:

Steel Plastic
Threaded Welded

6" Diam. from +1 ft. to 20 ft. Gauge .250
" Diam. from _____ ft. to _____ ft. Gauge _____

LINER INSTALLED:

" Diam. from _____ ft. to _____ ft. Gauge _____

(6) PERFORATIONS:

Perforated? Yes No

Type of perforator used _____

Size of perforations _____ in. by _____ in.
_____ perforations from _____ ft. to _____ ft.
_____ perforations from _____ ft. to _____ ft.
_____ perforations from _____ ft. to _____ ft.

(7) SCREENS:

Well screen installed? Yes No

Manufacturer's Name _____ Model No. _____
Type _____
Diam. _____ Slot Size _____ Set from _____ ft. to _____ ft.
Diam. _____ Slot Size _____ Set from _____ ft. to _____ ft.

(8) WELL TESTS:

Drawdown is amount water level is lowered below static level

Was a pump test made? Yes No If yes, by whom? _____

_____ gal./min. with _____ ft. drawdown after _____ hrs.
" " " " " "

Air test 12 gal./min. with drill stem at 170 ft. 1 hrs.

Bailer test _____ gal./min. with _____ ft. drawdown after _____ hrs.

Artesian flow _____ g.p.m.

Temperature of water 70° Depth artesian flow encountered _____ ft.

(9) CONSTRUCTION:

Special standards: Yes No

Well seal—Material used Cement
Well sealed from land surface to 18 ft.
Diameter of well bore to bottom of seal 10 in.
Diameter of well bore below seal 6 in.
Number of sacks of cement used in well seal 6 1/2 sacks
How was cement grout placed? Pumped

Was pump installed? NO Type _____ HP _____ Depth _____ ft.

Was a drive shoe used? Yes No Plugs _____ Size: location _____ ft.

Did any strata contain unusable water? Yes No

Type of Water? _____ depth of strata _____

Method of sealing strata off _____

Was well gravel packed? Yes No Size of gravel: _____

Gravel placed from _____ ft. to _____ ft.

(10) LOCATION OF WELL:

County Klamath Driller's well number _____
NE 1/4 SW 1/4 Section 3 T. 39 S. R. 9 E. W.M.
Tax Lot # 1800 Lot _____ Blk _____ Subdivision _____
Address at well location: _____

(11) WATER LEVEL: Completed well.

Depth at which water was first found 123 ft.
Static level 9 ft. below land surface. Date 7-21-83
Artesian pressure _____ lbs. per square inch. Date _____

(12) WELL LOG:

Diameter of well below casing 6"

Depth drilled 175 ft. Depth of completed well 175 ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. Report each change in position of Static Water Level and indicate principal water-bearing strata.

MATERIAL	From	To	SWL
Fill	0	2	
Brown Crumbley Clay	2	10	
Brown Clay	10	14	
Blue Clay	14	58	
Sandy Blue Clay	58	60	
Blue Clay	60	123	
Layers of Blue Clay & Sand	123	130	9'
Blue Clay	130	170	
Black Sandstone	170	175	9'

Work started 7-21 19 83 Completed 7-21 19 83
Date well drilling machine moved off of well 7-21 19 83

(unbonded) Water Well Constructor Certification (if applicable):

This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.
[Signed] Stephen R. Hughes Date 8-9, 1983

Bonded Water Well Constructor Certification:

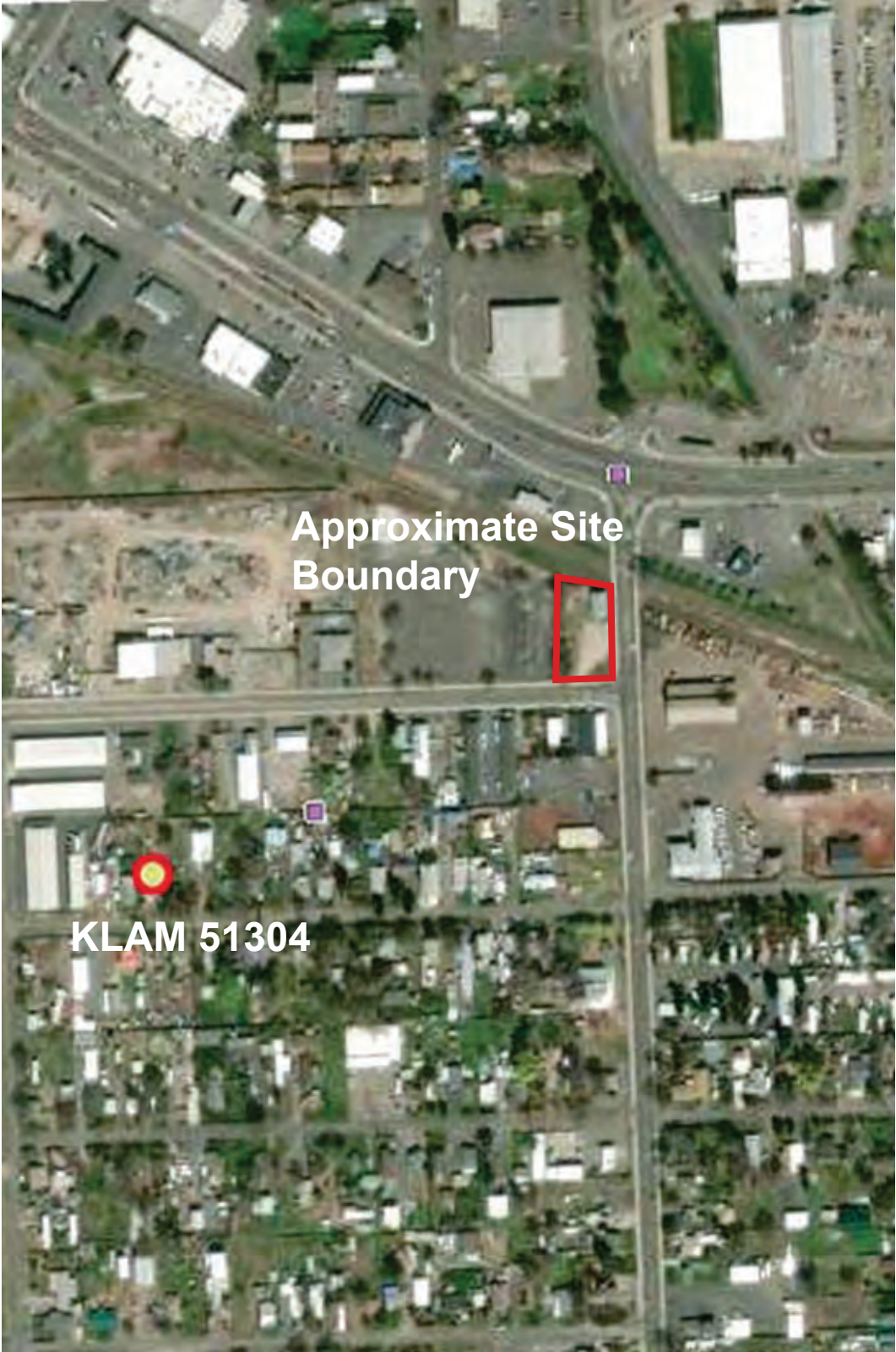
Bond 208 211 34 Issued by: Western Surety Co.
(number) Surety Company Name

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

Name Norm Sevey Well Drilling, Inc.
(Person, firm or corporation) (Type or print)

Address 800 Old Midland Rd. Klamath Falls, OR

[Signed] Norm Sevey Water Well Constructor
Date 8-9, 1983



Approximate Site Boundary

KLAM 51304

RECEIVED

RECEIVED

Klamath
5/1 304

JUN 26 1998

MAR 01 1999

STATE OF OREGON WATER RESOURCES DEPT. WATER SUPPLY WELL REPORT SALEM, OREGON

WELL I.D. # L 23993
START CARD # 100224

Instructions for completing this report are on the last page of this form.

(1) OWNER: Well Number _____
Name Bill Bielar
Address P.O. Box 198
City Macdoel State CA Zip 96058

(2) TYPE OF WORK
 New Well Deepening Alteration (repair/recondition) Abandonment

(3) DRILL METHOD:
 Rotary Air Rotary Mud Cable Auger
 Other

(4) PROPOSED USE:
 Domestic Community Industrial Irrigation
 Thermal Injection Livestock Other

(5) BORE HOLE CONSTRUCTION:
Special Construction approval Yes No Depth of Completed Well 25 ft.
Explosives used Yes No Type _____ Amount _____

HOLE SEAL table with columns: Diameter, From, To, Material, From, To, Sacks or pounds

How was seal placed: Method A B C D E
 Other _____
Backfill placed from _____ ft. to _____ ft. Material _____
Gravel placed from _____ ft. to _____ ft. Size of gravel _____

(6) CASING/LINER: table with columns: Diameter, From, To, Gauge, Steel, Plastic, Welded, Threaded

(7) PERFORATIONS/SCREENS: table with columns: From, To, Slot size, Number, Diameter, Material, Casing, Liner

(8) WELL TESTS: Minimum testing time is 1 hour
 Pump Bailer Air Flowing
Yield gal/min 10 Drawdowns 1 Drill stem at _____ Time 1 hr.

Temperature of water 54° Depth Artesian Flow Found _____
Was a water analysis done? Yes By whom _____
Did any strata contain water not suitable for intended use? Too little
 Salty Muddy Odor Colored Other _____
Depth of strata: _____

(9) LOCATION OF WELL by legal description:
County Klamath Latitude 42° 12' 16" N Longitude 121° 43' 04" W
Township 41S N or S Range 12E E or W. WM.
Section 9 SW 1/4 NE 1/4
Tax Lot 700 Lot _____ Block _____ Subdivision _____
Street Address of Well (or nearest address) 21735 Drazil Rd., Malin, OR

(10) STATIC WATER LEVEL:
66 ft. below land surface. Date 6/16/98
Artesian pressure _____ lb. per square inch. Date _____

(11) WATER BEARING ZONES: table with columns: From, To, Estimated Flow Rate, SWL

(12) WELL LOG: Ground Elevation _____
Material From To SWL
Pulled stuck pump
Bailed and cleaned to 95'
88'-95' crooked w
Hole is cased w/ 6"
.250 casing w/ a 5" OD x
.250 line to unknown depth

RECEIVED
SEP 04 1998
WATER RESOURCES DEPT.
SALEM, OREGON

Date started 6/5/98 Completed 6/16/98

(unbonded) Water Well Constructor Certification:
I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.
WVC Number _____
Signed _____ Date _____

(bonded) Water Well Constructor Certification:
I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief.
WVC Number 1228
Signed Larry H. Delprin Date 6/24/98